



Lead, Talerman & Costa, LLC
Attorneys at Law

30 Green Street
Newburyport, MA 01950
Phone 978.463.7700
Fax 978.463.7747

www.mtclawyers.com

June 6, 2017

Robyn Blair, Chair
Board of Health
City of Newburyport
60 Pleasant Street
Newburyport MA 01950

James McCarthy, Chair
Planning Board
City of Newburyport
60 Pleasant Street
Newburyport MA 01950

RE: Evergreen Commons LLC ("Applicant") / Soil Testing

Dear Chairmen and Members of the Boards;

Reference is made to the above captioned matter and the condition located at the third bullet on page 10 of the Special Permit issued to the Applicant on March 15, 2017. In that connection, while the Applicant was not required to undertake the soil testing until prior to construction, in order to make the remainder of the permitting process more efficient and informed, the Applicant undertook the soil testing in accordance with the condition noted. The Department of Public Services was notified of the testing and they sent their peer review representative, Joel Meunier, from AECOM to observe and oversee the soil sampling.

I am attaching for your review and information the following:

1. Letter dated June 5, 2017 from Jay Billings of Northeast Geoscience, Inc. including the soil sample test results; and
2. A report by EnviroRisk Solutions, LLC dated June 1, 2017 along with the underlying sampling and sampling report by Northeast Geoscience, Inc.

You will see from the EnviroRisk Solutions report that there were trace amounts of various approved herbicides, pesticides and fungicides all relative to lawn care maintenance and all allowed under the controlling special permit for the current use that is the golf course. You will also see that EnviroRisk Solutions, LLC found that "The potential health risks associated with exposure to golf course soil containing these low concentrations of herbicides, pesticides/insecticides, and fungicides were found to be negligible.....Based on this risk characterization, a condition of No Significant Risk of harm to human health exists for potential exposures to soil that may occur on the golf course."

Millis Office
730 Main Street, Suite 1F
Millis, MA 02054
Phone 508.376.8400

We look forward to discussing the definitive subdivision filing with you.

Respectfully submitted,
Evergreen Commons LLC
by their attorney,

A handwritten signature in dark ink, appearing to read 'L. Mead', written over a horizontal line.

Lisa L. Mead

cc: Anthony Furnari, Director DPS
Joel Meunier, AECOM
Client



June 5, 2017

Mr. Chip Hall
Cottage Advisors, LLC
454 Post Road
Wells, ME 04080

Re: Evergreen Commons OSRD
Newburyport, MA

Dear Mr. Hall:

Northeast Geoscience, Inc. (NGI) is writing to provide the results of baseline soil testing conducted at the Evergreen Valley Golf Course in Newburyport, MA. The golf course is located on a 36.4 acre parcel that is currently the site of a proposed 38 lot Open Space Residential Development (OSRD). The site is located approximately 750 feet southwest of the City of Newburyport Well No. 2. Well No. 2 is a 24-inch diameter gravel packed well installed in 1957 to a depth of 52.8 feet below ground surface and is approved to pump at a flow rate of 408 gallons per minute (gpm). During the review of the proposed OSRD by the City of Newburyport Planning Board, concerns have been raised about potential water quality impacts on Well No. 2 from turf management practices at the golf course.

On December 21, 2016 representatives of AECOM collected two groundwater samples from 2 ½-inch diameter test wells B-4 and B-6 located on the City of Newburyport property around Well No. 2. See Figure 1 for well locations. The samples were analyzed by Environmental Micro Analysis, Inc. of Woodward, CA using the following analytical methods (FDA Import GC/MS/MS, FDA Import LC/MS/MS, EBDC Screen and EPA Method 8151A). The lab reported results for 758 compounds that include herbicides, pesticides, insecticides, fungicides and other organic compounds. No compounds were detected in either of the samples collected.

On March 21, 2017 NGI collected surface soil samples at eight locations in accordance with a soil testing plan prepared by AECOM and relayed in an e-mail to the City dated 11/8/2016. Soil sample locations are shown on Figure 1. Mr. Joel Meunier of AECOM was on site to observe the soil sample collection activities. Two sample locations were on fairways, two on tee boxes, two on greens and two samples of sediments from shallow ponds on site were collected. Samples were collected from just below the root zone of the grass at depths of less than 6-inches with a stainless steel spoon and were placed directly into sample containers provided by the laboratory. Sampling equipment was decontaminated in the field between samples.

The soil samples were submitted to Environmental Micro Analysis for analysis using the same list of analytical methods and compounds that AECOM requested for the water samples collected in December. Each sample was analyzed for 758 compounds including herbicides, pesticides, insecticides, fungicides and other organic compounds.

Soil Sample Laboratory Results

The laboratory reported results for 758 compounds for each soil sample submitted and the results are summarized on Table 1. A total of 16 different compounds were detected in at least one of the soil samples. Four of the 16 reported compounds were known to have been purchased by the golf course owners since September 3, 2014 for turf management. Eleven of the twelve remaining compounds are either products or breakdown products of common turf management chemicals and are interpreted to be a result of past golf course maintenance practices. One compound (DDE-p,p') is a breakdown product of DDT which was historically used for mosquito control and agricultural use but was banned in the United States in 1972.

No compounds were detected in the two samples collected from fairways. One compound was detected in one of the two samples collected from tee boxes. One compound was detected in each of the samples of sediment from the ponds on site. The two samples from the greens had eight compounds detected (S-7) and 13 compounds detected (S-3). The distribution of compounds detected indicates higher application rates of turf management chemicals on greens and relatively light turf management chemical use on the rest of the golf course. The total area of the nine greens on the site is approximately 41,133 ft², or 0.94 acres. This represents approximately 2.6% of the 36.4 acre parcel.

Detected Concentrations and Regulatory Standards

The presence of the detected compounds at these locations at the golf course does not constitute a reportable condition under the Massachusetts Contingency Plan (310 CMR 40.0317(8(c))). Many of the compounds included in the laboratory analytical methods selected do not have risk based regulatory standards. The Massachusetts Contingency Plan (310 CMR 40.000) includes S-1 Reportable Concentrations for residential exposure scenarios for three of the 16 compounds detected including DDE-p,p', pentachlorobenzene and chlorpyrifos. These standards are presented on Table 1 and although they are not applicable to this situation, they are helpful for reference. Detected concentrations of these compounds are much lower (less than 1%) of the applicable S-1 standards. Detected concentrations of the other 13 compounds are also very low with the highest reported value of 0.21 mg/kg (parts per million).

NGI contracted EnviroRisk Solutions, LLC to evaluate the risk posed by the concentrations of specific compounds detected during the soil testing program. The results of this analysis are presented in a letter dated June 1, 2017. The conclusion of the analysis is as follows: "Based on this risk characterization, a condition of No Significant Risk of harm to human health exists for potential exposures to soil that may occur on the golf course."

Conclusions and Recommendations

NGI concludes that 15 turf management products and a breakdown product of DDT are present in soil on the golf course. Detected concentrations are low and below applicable standards where available. The majority of the compounds detected (13 out of 16) were in samples collected from greens where turf management practices are focused. Greens occupy 2.6% of the area of the golf course suggesting that this is an isolated condition.

Please do not hesitate to contact me with any further questions.

Sincerely:

NORTHEAST GEOSCIENCE, INC.

A handwritten signature in black ink, appearing to read "J. Billings". The signature is stylized with a large, looped "J" and a cursive "Billings".

Jay Billings
Hydrogeologist

Table 1
Evergreen Golf Course Soil Sample Laboratory Results - Newburyport, MA

Sample ID	Compound Reported	Conc. (mg/kg)	Location	RL (mg/kg)	RC S-1 Standard	CAS Number	Use
S-1	Prodimamine	0.03	Tee	0.03	NCS	29091-21-2	Pre-emergent pesticide for crabgrass control
S-2	No Compounds Detected	ND	Fairway	NA	NA	NA	NA
S-3	DDE-p,p'	0.03	Green	0.01	6	72-55-9	Breakdown product of DDT
	Iprodione	0.12	Green	0.03	NCS	36734-19-7	Fungicide
	Pentachloroaniline	0.21	Green	0.01	NCS	527-20-8	Pesticide
	Pentachlorothioanisole	0.04	Green	0.01	NCS	1825-19-0	Breakdown product of Pentachloronitrobenzene - a fungicide
	Pentachlorobenzene	0.06	Green	0.01	50	608-93-5	By product of manufacturing Pentachloronitrobenzene
	Carbendazim	0.01	Green	0.01	NCS	10605-21-7	Fungicide used on golf greens
	Chlorantraniliprole	0.02	Green	0.01	NCS	500008-45-7	Insecticide
	Metalaxyl	0.04	Green	0.01	NCS	57837-19-1	Fungicide
	Myclobutanil	0.05	Green	0.01	NCS	88671-89-0	Fungicide
	Propiconazole	0.04	Green	0.01	NCS	60207-90-1	Fungicide
	Tebuconazole	0.09	Green	0.01	NCS	80443-41-0	Fungicide
	Triadimefon	0.01	Green	0.01	NCS	43121-43-3	Fungicide
S-4	Triadimenol	0.09	Green	0.01	NCS	55219-65-3	Fungicide
	Chloropyrifos	0.03	Green	0.02	10	2921-88-2	Insecticide
	Bensulide	0.02	Sediment	0.01	NCS	741-58-2	Herbicide for crabgrass control
S-5	Carbendazim	0.01	Sediment	0.01	NCS	10605-21-7	Fungicide used on golf greens
S-6	No Compounds Detected	ND	Tee	NA	NA	NA	NA
S-7	Pentachloraniline	0.07	Green	0.01	NCS	527-20-8	Pesticide
	Pentachlorothioanisole	0.01	Green	0.01	NCS	1825-19-0	Breakdown product of Pentachloronitrobenzene - a fungicide
	Pentachlorobenzene	0.07	Green	0.01	50	608-93-5	By product of manufacturing Pentachloronitrobenzene
	Chlorantraniliprole	0.01	Green	0.01	NCS	500008-45-7	Insecticide
	Imacloprid	0.01	Green	0.01	NCS	138261-41-3	Insecticide
	Propiconazole	0.02	Green	0.01	NCS	60207-90-1	Fungicide
	Tebuconazole	0.03	Green	0.01	NCS	80443-41-0	Fungicide
	Triadimenol	0.03	Green	0.01	NCS	55219-65-3	Fungicide
	No compounds detected	ND	Fairway	NA	NA	NA	NA
SG-8	No compounds detected	ND	Fairway	NA	NA	NA	NA

Purchased since 9/3/2014

NCS - No concentration Set

NA - Not Applicable

ND - None Detected

RL - Reporting Limit



Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

EnviroRisk Solutions, LLC
Complex Sites, Resourceful Solutions

June 1, 2017

Marie Rudiman
EnviroRisk Solutions, LLC
121 Kirkland Dr.
Stow, MA 01775
(978) 793-2798
mguiles@gmail.com

Attn: Mr. Jay Billings
Northeast Geoscience, Inc.
97 Walnut Street
Clinton, MA 01510
Electronic submittal

Re: Review of Residual Herbicides and Pesticides in Soil
Evergreen Golf Course
Newburyport, MA

Dear Mr. Billings:

This letter presents a review of residual herbicides, pesticides, and fungicides detected in soil collected from the Evergreen Golf Course in Newburyport, Massachusetts to Northeast Geoscience, Inc. As indicated below, the detected constituents in soil included herbicides, pesticides/insecticides, and fungicides that are at concentrations consistent with concentrations typically observed with proper application of herbicides, pesticides, and fungicides for lawn maintenance. The detected concentrations of constituents in soil are well below reportable concentrations in soil and were determined to cause No Significant Risk (NSR) to human health to a hypothetical on-Site residential receptor, which is considered the most highly exposed potential receptor. Calculated risks to the residential receptor are protective of other lesser exposed receptors such as employees, visitors to the golf course, trespassers, and construction/utility workers that may potentially be exposed to golf course soil. Therefore, a conditions of NSR to human health exists for these lesser exposed receptors as well. The potential health risks associated with exposure to golf course soil containing these low concentrations of herbicides, pesticides/insecticides, and fungicides was found to be negligible.

Summary of Soil

Soil analytical data representing residual concentrations of detected constituents is presented on Table 1. Table 1 also indicates whether the detected constituent is an herbicide, pesticide/insecticide, fungicide or a breakdown product thereof. The detected concentrations of constituents are consistent with the concentrations of herbicide, pesticide/insecticide, and fungicide that would typically be found in soil with proper current and historic application of these products for lawn maintenance.

EnviroRisk Solutions, LLC

Complex Sites, Resourceful Solutions

The detected concentrations of constituents were well below available MassDEP Reportable Concentrations (RCs) for soil. The sum of all detected concentrations of constituents from all soil collected from the golf course in total was 1.2 mg/kg, which is a very low concentration of total herbicide/pesticide/fungicide in a lawn. However, since RCs were not available all detected constituents, the herbicides/pesticides/fungicides were further evaluated in a site-specific Risk Characterization.

In a site-specific risk characterization, detected concentrations of constituents are evaluated by determining the potential for a selected receptor to be exposed to constituents in soil and estimating the potential health risks for that receptor using the following basic equation:

$$\text{Risk} = \text{Detected Concentration} \times \text{Exposure} \times \text{Toxicity}$$

Exposure Point Concentration

Maximum detected concentrations of each constituent were used to represent the exposure point concentrations (EPCs) for exposure to constituents in soil. As described further below, the maximum detected concentrations of pentachloroaniline and pentachlorothioanisole were summed to represent the EPC for pentachloronitrobenzene which was used as a surrogate compound for pentachloroaniline and pentachlorothioanisole. This was done because there are no toxicity values available for pentachloroaniline or pentachlorothioanisole. The use of pentachloronitrobenzene as a surrogate compound is applicable because all three constituents are similar in structure and pentachloroaniline and pentachlorothioanisole are breakdown products of pentachloronitrobenzene.

Exposure Assessment Summary

To conservatively estimate potential health risks from soil exposure, the most highly exposed receptor was selected. For this evaluation, a resident was assumed to reside on the golf course and be exposed to soil via ingestion and dermal contact.

On-Site residential exposure to soil via dermal contact and incidental ingestion was calculated assuming that residents would encounter soil 5 days per week over a period of 30 weeks per year for 30 years. The exposure assumptions for a resident are equivalent to the MassDEP default values published in MassDEP Short Form worksheets (MassDEP, 2012 with March 2015 updates). The ingestion rate is assumed to be 100 mg/day soil for young children and 50 mg/day soil for older children and adults. Surface area was based on exposure to face, forearms, lower legs, and feet. These exposure assumptions are presented in Table RS-3, RS-4, and RS-5 for potential lifetime, chronic, and subchronic exposure periods, respectively, in Attachment A. These conservative assumptions likely over estimate any actual exposures to soil at the golf course.

Dose-Response Assessment/Toxicity Values

The purpose of the Dose-Response Assessment was to identify the relationship between the magnitude of constituents to which receptors may be exposed (dose) and the likelihood of an adverse health effect (response). Both noncarcinogenic (i.e., threshold) and carcinogenic (i.e., non-threshold) health effects were considered in the Dose-Response Assessment.

Table RS-6 in Attachment A provides a summary of toxicity values used in this evaluation. Toxicity values were available from USEPA for most of the detected constituents. There was no toxicity available for pentachloroaniline or pentachlorothioanisole. Since these constituents are breakdown products for pentachloronitrobenzene, the toxicity data that is available for this compound was used to estimate potential health risks associated with pentachloroaniline and pentachlorothioanisole. The maximum detected concentrations of pentachloroaniline and pentachlorothioanisole were summed to represent the EPC for pentachloronitrobenzene as a surrogate compound.

Toxicity values for metalaxyl, triadimefon, and chlorpyrifos are Regional Screening Levels (RSLs). These values were derived by regional EPA or state environmental offices and were used if a federal toxicity values were not yet promulgated for that compound. While there are not USEPA or RSL toxicity values available for prodiamine, the available toxicity studies for this constituent were reviewed. It was determined that a conservative value that could be used as the basis for a Reference Dose was a Lowest Observable Adverse Effect Level (LOAEL) from a rat study where rats were exposed to prodiamine orally. Conservative uncertainty factors totaling 1000 were applied to this LOAEL to calculate a toxicity value of 3.7×10^{-2} mg/kg-day for prodiamine. Through use of available toxicity data, all detected herbicide/pesticide/fungicide were evaluated in this risk characterization.

Risk Calculations

Hypothetical on-Site residents living on-Site are the most highly exposed receptor and were assumed to be exposed to soil from the Site using the maximum detected concentrations as EPCs. The MADEP Shortform (2012 with updates March 2015) for residential exposure to soil was used to evaluate residential exposures to soil via dermal contact and incidental ingestion. The Shortform included standard exposure assumptions promulgated by MADEP. Refer to Attachment A for the risk calculations for the resident receptors. Actual potential exposures to actual receptors (employees of the golf course, visitors to the golf course, trespassers, and construction/utility workers) are expected to be less than the residential exposures assumed.

Calculated Human Health Risks

Potential residential human health risks from exposure to soil were calculated. As shown in the Table below, estimated health risks did not exceed MADEP's target HIs of 1 or ELCR of 1×10^{-5} based on residential exposures to soil. In fact, when the estimated health risks are at least an order of magnitude less than MassDEP screening limits, as is the case

EnviroRisk Solutions, LLC
Complex Sites, Resourceful Solutions

here, the potential health risks are consider negligible. Based on this risk characterization, a condition of No Significant Risk of harm to human health exists for potential exposures to soil that may occur on the golf course.

Estimated Risks for Residential Exposure to Soil

Residential Exposure to Soil	Excess Lifetime Cancer Risk (ELCR)	Subchronic Hazard Index (HI)	Subchronic Hazard Index (HI)
Maximum Soil Conc.	4E-8	0.001	0.003
MassDEP Screening Limits	1E-5	1	1
Exceed Risk Limit?	No	No	No

If there are any questions or concerns regarding the results of this Review, please call me at 978-793-2798 or email at mguiles@gmail.com. I appreciate the opportunity to work with you on this project.

Sincerely,

Marie Rudiman



EnviroRisk Solutions, LLC
President/Senior Risk Assessor/Toxicologist

Attached:
Table 1 Evergreen Golf Course Soil Sample Detections
Attachment A: Risk Tables (includes Tables RS-1 through RS-6)

References:

Fluoride Action Network Pesticide Project (FANPP), Adverse Effects Prodiamine. <http://www.fluoridealert.org/wp-content/pesticides/epage.prodiamine.htm>. [Accessed 4-26-16]

Kegley, S.E., Hill, B.R., Orme S., Choi A.H., *PAN Pesticide Database*, Pesticide Action Network, North America (Oakland, CA, 2014), <http://www.pesticideinfo.org>. http://www.pesticideinfo.org/Detail_Chemical.jsp?Rec_Id=PC37523

TruGreen, LP, (2007). Pesticide Fact Sheet, Prodiamine. <http://www.hanoverschools.org/facilities/pdf/factsheet/Prodiamine.pdf>.

EnviroRisk Solutions, LLC
Complex Sites, Resourceful Solutions

USEPA, (2017). EPA Dashboard, <https://comptox.epa.gov/dashboard>, May.

Table 1
Evergreen Golf Course Soil Sample Detections
Newburyport, MA
(all concentrations in mg/kg)

Soil Sample ID	Conc. (mg/kg)	Location	RL (mg/kg)	RC S-1 Standard	CAS Number	Use
S-1 (1 compound detected)						
Prodimine	0.03	Tee	0.03	NCS	29091-21-2	Pre-emergent pesticide for crabgrass control
S-2						
No Compounds Detected	ND	Fairway	NA	NA	NA	NA
S-3 (15 compounds detected)						
DDE-p,p'	0.03	Green	0.01	6	72-55-9	Breakdown product of DDT
DDT-p,p'	0.01	Green	0.03	6	50-29-3	insecticide
Iprodione	0.12	Green	0.03	NCS	36734-19-7	Fungicide
Pentachloroaniline	0.21	Green	0.01	NCS	527-20-8	Pesticide
Pentachloroanisole	0.04	Green	0.01	NCS	1825-19-0	Breakdown product of Pentachloronitrobenzene - a fungicide
Pentachlorobenzene	0.06	Green	0.01	50	608-93-5	By product of manufacturing Pentachloronitrobenzene
Carbendazim	0.01	Green	0.01	NCS	10605-21-7	Fungicide used on golf greens
Chlorantraniliprole	0.02	Green	0.01	NCS	500008-45-7	Insecticide
Metalaxyl	0.04	Green	0.01	NCS	57837-19-1	Fungicide
Myclobutanil	0.05	Green	0.01	NCS	88671-89-0	Fungicide
Propiconazole	0.04	Green	0.01	NCS	60207-90-1	Fungicide
Tebuconazole	0.09	Green	0.01	NCS	80443-41-0	Fungicide
Triadimefon	0.01	Green	0.01	NCS	43121-43-3	Fungicide
Triadimenol	0.09	Green	0.01	NCS	55219-65-3	Fungicide
Chloropyrifos	0.03	Green	0.02	NCS	2921-88-2	Insecticide
S-4 (1 Compound Detected)						
Bensulide	0.02	Sediment	0.01	NCS	741-58-2	Herbicide for crabgrass control
S-5 (2 Compounds Detected)						
Iprodione	0.02	Sediment	0.03	NCS	36734-19-7	Fungicide
Carbendazim	0.01	Sediment	0.01	NCS	10605-21-7	Fungicide used on golf greens
S-6						
No Compounds Detected	ND	Tee	NA	NA	NA	NA
S-7 (9 Compounds Detected)						
Iprodione	0.01	Green	0.03	NCS	36734-19-7	Fungicide
Pentachloroaniline	0.07	Green	0.01	NCS	527-20-8	Pesticide
Pentachloroanisole	0.01	Green	0.01	NCS	1825-19-0	Breakdown product of Pentachloronitrobenzene - a fungicide
Pentachlorobenzene	0.07	Green	0.01	NCS	608-93-5	By product of manufacturing Pentachloronitrobenzene
Chlorantraniliprole	0.01	Green	0.01	NCS	500008-45-7	Insecticide
Imidacloprid	0.01	Green	0.01	NCS	138261-41-3	Insecticide
Propiconazole	0.02	Green	0.01	NCS	60207-90-1	Fungicide
Tebuconazole	0.03	Green	0.01	NCS	80443-41-0	Fungicide
Triadimenol	0.03	Green	0.01	NCS	55219-65-3	Fungicide
SG-8						
No compounds detected	ND	Fairway	NA	NA	NA	NA

Purchased since 9/3/2014

NCS - No concentration Set

NA - Not Applicable

ND - None Detected

Attachment A

Risk Calculation Spreadsheets, Exposure and Risk Estimates Associated with Exposure, On-Site Resident

Resident - Soil: Table RS-1
Exposure Point Concentration (EPC)
Based on Resident Ages 1-31 (Cancer)

Do not insert or delete any rows

Click on empty cell below and select OHM using arrow.

ELCR (all chemicals) = 4.1E-08

Oil or Hazardous Material	EPC (mg/kg)	Exposure Ingestion	Toxicity	ELCR _{Ingestion}	Exposure Dermal	Toxicity	ELCR _{dermal}	Derm & Ing ELCR _{total}
Prodiamine	0.03	1.1E-08			3.5E-09			
DDE-p,p'	0.03	1.1E-08	3.4E-01	3.8E-09	3.5E-09	3.4E-01	1.2E-09	5.0E-09
DDT-p,p'	0.01	3.7E-09	3.4E-01	1.3E-09	1.2E-09	3.4E-01	4.0E-10	1.7E-09
Iprodione	0.12	4.5E-08	4.4E-02	2.0E-09	1.4E-08	4.4E-02	6.1E-10	2.6E-09
Pentachlorobenzene	0.07	2.6E-08			8.1E-09			
Carbendazim	0.01	3.7E-09	2.4E-03	8.9E-12	1.2E-09	2.4E-03	2.8E-12	1.2E-11
Chlorantraniliprole	0.02	7.5E-09			2.3E-09			
Metalaxyl	0.04	1.5E-08			4.7E-09			
Myclobutanil	0.05	1.9E-08			5.8E-09			
Propiconazole	0.04	1.5E-08			4.7E-09			
Tebuconazole	0.09	3.4E-08			1.0E-08			
Triadimefon	0.01	3.7E-09			1.2E-09			
Triadimenol	0.09	3.4E-08			1.0E-08			
Chloropyrifos	0.03	1.1E-08			3.5E-09			
Bensulide	0.02	7.5E-09			2.3E-09			
Imidacloprid	0.01	3.7E-09			1.2E-09			
Pentachloronitrobenzene	0.25	9.4E-08	2.6E-01	2.4E-08	2.9E-08	2.6E-01	7.6E-09	3.2E-08

Resident - Soil: Table RS-2

Exposure Point Concentration (EPC)

Based on Resident Ages 1-8 (Chronic Noncancer), and 1-2 (Subchronic Noncancer)

Chronic HI (all chemicals) = 1.0E-03
Subchronic HI (all chemicals) = 2.6E-03

Do not insert or delete any rows

Click on empty cell below and select OHM using arrow.

Oil or Hazardous Material	EPC (mg/kg)	Chronic				Derm & Ing				Subchronic				Derm & Ing			
		Exposure _{ing}	Toxicity	HQ _{ing}	Exposure _{dc}	Toxicity	HQ _{derm}	HQ _{total}	Exposure	Toxicity	HQ _{ing}	Exposure _{dc}	Toxicity	Exposure	Toxicity	HQ _{derm}	HQ _{total}
Prodiamine	0.03	7.3E-08	3.7E-02	2.0E-06	1.9E-08	3.7E-02	5.0E-07	2.5E-06	2.0E-07	3.7E-02	5.4E-06	3.5E-08	3.7E-02	2.0E-07	3.7E-02	9.5E-07	6.4E-06
DDE-p,p'	0.03	7.3E-08	5.0E-04	1.5E-04	1.9E-08	5.0E-04	3.7E-05	1.8E-04	2.0E-07	5.0E-04	4.0E-04	3.5E-08	5.0E-04	2.0E-07	5.0E-04	7.0E-05	4.7E-04
DDT-p,p'	0.01	2.4E-08	5.0E-04	4.8E-05	6.2E-09	5.0E-04	1.2E-05	6.1E-05	6.7E-08	5.0E-04	1.3E-04	1.2E-08	5.0E-04	6.7E-08	5.0E-04	2.3E-05	1.6E-04
Iprodione	0.12	2.9E-07	2.0E-02	1.5E-05	7.4E-08	2.0E-02	3.7E-06	1.8E-05	8.0E-07	2.0E-02	4.0E-05	1.4E-07	2.0E-02	8.0E-07	2.0E-02	7.0E-06	4.7E-05
Pentachlorobenzene	0.07	1.7E-07	8.0E-04	2.1E-04	4.3E-08	8.0E-04	5.4E-05	2.7E-04	4.7E-07	8.0E-04	5.8E-04	8.2E-08	8.0E-04	4.7E-07	8.0E-04	1.0E-04	6.9E-04
Carbendazim	0.01	2.4E-08	2.5E-02	9.7E-07	6.2E-09	2.5E-02	2.5E-07	1.2E-06	6.7E-08	2.5E-02	2.7E-06	1.2E-08	2.5E-02	6.7E-08	2.5E-02	4.7E-07	3.1E-06
Chlorantraniliprole	0.02	4.8E-08	1.6E+00	3.1E-08	1.2E-08	1.6E+00	7.8E-09	3.9E-08	1.3E-07	1.6E+00	8.4E-08	2.3E-08	1.6E+00	1.3E-07	1.6E+00	1.5E-08	9.9E-08
Metaxyl	0.04	9.7E-08	6.0E-02	1.6E-06	2.5E-08	6.0E-02	4.1E-07	2.0E-06	2.7E-07	6.0E-02	4.4E-06	4.7E-08	6.0E-02	2.7E-07	6.0E-02	7.8E-07	5.2E-06
Myclobutanil	0.05	1.2E-07	2.5E-02	4.8E-06	3.1E-08	2.5E-02	1.2E-06	6.1E-06	3.3E-07	2.5E-02	1.3E-05	5.9E-08	2.5E-02	3.3E-07	2.5E-02	2.3E-06	1.6E-05
Propiconazole	0.04	9.7E-08	1.3E-02	7.5E-06	2.5E-08	1.3E-02	1.9E-06	9.4E-06	2.7E-07	1.3E-02	2.1E-05	4.7E-08	1.3E-02	2.7E-07	1.3E-02	3.6E-06	2.4E-05
Tebuconazole	0.09	2.2E-07	2.9E-02	7.5E-06	5.6E-08	2.9E-02	1.9E-06	9.4E-06	6.0E-07	2.9E-02	2.1E-05	1.1E-07	2.9E-02	6.0E-07	2.9E-02	3.6E-06	2.4E-05
Triadimeton	0.01	2.4E-08	3.0E-02	8.1E-07	6.2E-09	3.0E-02	2.1E-07	1.0E-06	6.7E-08	3.0E-02	2.2E-06	1.2E-08	3.0E-02	6.7E-08	3.0E-02	3.9E-07	2.6E-06
Triadimenol	0.09	2.2E-07	3.4E-03	6.4E-05	5.6E-08	3.4E-03	1.6E-05	8.1E-05	6.0E-07	3.4E-03	1.8E-04	1.1E-07	3.4E-03	6.0E-07	3.4E-03	3.1E-05	2.1E-04
Chloropyrifos	0.03	7.3E-08	1.0E-03	7.3E-05	1.9E-08	1.0E-03	1.9E-05	9.1E-05	2.0E-07	1.0E-03	2.0E-04	3.5E-08	1.0E-03	2.0E-07	1.0E-03	3.5E-05	2.4E-04
Bensulfide	0.02	4.8E-08	5.0E-03	9.7E-06	1.2E-08	5.0E-03	2.5E-06	1.2E-05	1.3E-07	5.0E-03	2.7E-05	2.3E-08	5.0E-03	1.3E-07	5.0E-03	4.7E-06	3.1E-05
Imidacloprid	0.01	2.4E-08	5.7E-02	4.3E-07	6.2E-09	5.7E-02	1.1E-07	5.3E-07	6.7E-08	5.7E-02	1.2E-06	1.2E-08	5.7E-02	6.7E-08	5.7E-02	2.1E-07	1.4E-06
Pentachloronitrobenzene	0.25	6.1E-07	3.0E-03	2.0E-04	1.9E-07	3.0E-03	5.2E-05	2.5E-04	1.7E-06	3.0E-03	5.6E-04	2.9E-07	3.0E-03	1.7E-06	3.0E-03	9.8E-05	6.5E-04

Resident - Soil: Table RS-3
Equations to Calculate Cancer Risk for Resident (Age 1-31 years)

Cancer Risk from Ingestion

$$ELCR_{ing} = LADD_{ing(1-31)} * CSF$$

$$LADD_{ing(1-31)} = LADD_{ing(1-8)} + LADD_{ing(8-15)} + LADD_{ing(15-31)}$$

$$LADD_{ing(age\ group\ x)} = \frac{[OHM]_{soil} * IR_x * RAF_{c-ing} * EF_{ing} * ED * EP_x * C}{BW_x * AP_{lifetime}}$$

Cancer Risk from Dermal Absorption

$$ELCR_{derm} = LADD_{derm} * CSF$$

$$LADD_{derm(1-31)} = LADD_{derm(1-8)} + LADD_{derm(8-15)} + LADD_{derm(15-31)}$$

$$LADD_{derm(age\ group\ x)} = \frac{[OHM]_{soil} * SA_x * RAF_{c-derm} * SAF_x * EF_{derm} * ED * EP_x * C}{BW_x * AP_{lifetime}}$$

Parameter	Value	Units
CSF	OHM specific	(mg/kg-day) ⁻¹
LADD	age/OHM specific	mg/kg-day
[OHM] _{soil}	OHM specific	mg/kg
IR ₍₁₋₈₎	100	mg/day
IR ₍₈₋₁₅₎	50	mg/day
IR ₍₁₅₋₃₁₎	50	mg/day
RAF _{c-ing}	OHM specific	dimensionless
RAF _{c-derm}	OHM specific	dimensionless
EF _{ing,derm}	0.412	event/day
ED	1	day/event
EP ₍₁₋₈₎	7	years
EP ₍₈₋₁₅₎	7	years
EP ₍₁₅₋₃₁₎	16	years
C	0.000001	kg/mg
BW ₍₁₋₈₎	17.0	kg
BW ₍₈₋₁₅₎	39.9	kg
BW ₍₁₅₋₃₁₎	58.7	kg
AP _(lifetime)	70	years
SA ₍₁₋₈₎	2431	cm ² /day
SA ₍₈₋₁₅₎	4427	cm ² /day
SA ₍₁₅₋₃₁₎	5653	cm ² /day
SAF ₍₁₋₈₎	0.35	mg/cm ²
SAF ₍₈₋₁₅₎	0.14	mg/cm ²
SAF ₍₁₅₋₃₁₎	0.13	mg/cm ²

Resident - Soil: Table RS-4

Equations to Calculate Chronic Noncancer Risk for Resident Child (Age 1-8 years)

Chronic Noncancer Risk from Ingestion

$$HQ_{ing} = \frac{ADD_{ing}}{RfD}$$

$$ADD_{ing} = \frac{[OHM]_{soil} * IR * RAF_{nc-ing} * EF_{ing} * ED * EP * C}{BW * AP}$$

Chronic Noncancer Risk from Dermal Absorption

$$HQ_{derm} = \frac{ADD_{ing,derm}}{RfD}$$

$$ADD_{derm} = \frac{[OHM]_{soil} * SA * RAF_{nc-derm} * SAF * EF_{derm} * ED * EP * C}{BW * AP}$$

Parameter	Value	Units
RfD	OHM specific	mg/kg-day
ADD	OHM specific	mg/kg-day
[OHM] _{soil}	OHM specific	mg/kg
IR	100	mg/day
RAF _{nc-ing}	OHM specific	dimensionless
RAF _{nc-derm}	OHM specific	dimensionless
EF _{ing,derm}	0.412	event/day
ED	1	day/event
EP	7	years
C	0.000001	kg/mg
BW	17.0	kg
AP	7	year
SA	2431	cm ² / day
SAF	0.35	mg/cm ²

Resident - Soil: Table RS-5

Equations to Calculate Subchronic Noncancer Risk for Resident Child (Age 1-2 years)

Subchronic Noncancer Risk from Ingestion

$$HQ_{ing} = \frac{ADD_{ing}}{RfD_{subchronic}}$$
$$ADD_{ing} = \frac{[OHM]_{soil} * IR * RAF_{nc-ing} * EF_{ing} * ED * EP * C}{BW * AP}$$

Subchronic Noncancer Risk from Dermal Absorption

$$HQ_{derm} = \frac{ADD_{derm}}{RfD_{subchronic}}$$
$$ADD_{derm} = \frac{[OHM]_{soil} * SA * RAF_{nc-derm} * SAF * EF_{derm} * ED * EP * C}{BW * AP}$$

Parameter	Value	Units
RfD	OHM specific	mg/kg-day
ADD	OHM specific	mg/kg-day
[OHM] _{soil}	OHM specific	mg/kg
IR	100	mg/day
RAF _{nc-ing}	OHM specific	dimensionless
RAF _{nc-derm}	OHM specific	dimensionless
EF _{ing,derm}	0.714	event/day
ED	1	day/event
EP	0.577	years
C	0.000001	kg/mg
BW	10.7	kg
AP	0.577	year
SA	1670	cm ² / day
SAF	0.35	mg/cm ²

Resident - Soil: Table RS-6
Chemical-Specific Data

Oil or Hazardous Material	CSF (mg/kg-day) ⁻¹	Source	RAF _{c-ing}	RAF _{c-derm}	Chronic mg/kg-day RfD	Source	Subchronic mg/kg-day RfD	Source	Chronic RAF _{nc-ing}	Chronic RAF _{nc-derm}	Subchronic RAF _{nc-ing}	Subchronic RAF _{nc-derm}
Proflamine			1	0.03	3.7E-02	derived	3.7E-02	derived	1	0.03	1	0.03
DDE-p,p'	3.4E-01	EPA	1	0.03	5.0E-04	EPA	5.0E-04	EPA	1	0.03	1	0.03
DDT-p,p'	3.4E-01	EPA	1	0.03	5.0E-04	EPA	5.0E-04	EPA	1	0.03	1	0.03
Iprodione	4.4E-02	EPA	1	0.03	2.0E-02	EPA	2.0E-02	EPA	1	0.03	1	0.03
Pentachlorobenzene			1	0.03	8.0E-04	EPA	8.0E-04	EPA	1	0.03	1	0.03
Carbendazim	2.4E-03	EPA	1	0.03	2.5E-02	EPA	2.5E-02	EPA	1	0.03	1	0.03
Chlorantraniliprole			1	0.03	1.6E+00	EPA	1.6E+00	EPA	1	0.03	1	0.03
Metolaxyl			1	0.03	6.0E-02	RSL	6.0E-02	RSL	1	0.03	1	0.03
Myclobutanil			1	0.03	2.5E-02	EPA	2.5E-02	EPA	1	0.03	1	0.03
Propiconazole			1	0.03	1.3E-02	EPA	1.3E-02	EPA	1	0.03	1	0.03
Tebuconazole			1	0.03	2.9E-02	EPA	2.9E-02	EPA	1	0.03	1	0.03
Triadimefon			1	0.03	3.0E-02	RSL	3.0E-02	RSL	1	0.03	1	0.03
Triadimenol			1	0.03	3.4E-03	EPA	3.4E-03	EPA	1	0.03	1	0.03
Chloropyrifos			1	0.03	1.0E-03	RSL	1.0E-03	RSL	1	0.03	1	0.03
Bensulide			1	0.03	5.0E-03	EPA	5.0E-03	EPA	1	0.03	1	0.03
Imidacloprid			1	0.03	5.7E-02	EPA	5.7E-02	EPA	1	0.03	1	0.03
Pentachloronitrobenzene	2.6E-01	EPA	1	0.03	3.0E-03	EPA	3.0E-03	EPA	1	0.03	1	0.03

Source of Toxicology info: EPA Dashboard
https://comptox.epa.gov/dashboard_May 2017

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-1 (T)

Sample Date: 3/21/2017

EMA Sample No: 17032222-01a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import GC/MS/MS A - Cx

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Acephate	ND	0.030
Acetamiprid	ND	0.030
Acrinathrin	ND	0.010
Adiisopropyl naphthalene, 2,6- (DIPN,	ND	0.010
Alachlor	ND	0.010
Aldrin	ND	0.010
Allethrin	ND	0.010
Ametryn	ND	0.010
Aminocarb	ND	0.010
Atrazine	ND	0.010
Azinphos-methyl	ND	0.010
Azoxystrobin	ND	0.010
Benalaxyl	ND	0.010
Azoxystrobin	ND	0.010
Bendiocarb	ND	0.010
Benfluralin	ND	0.010
Benoxacor	ND	0.010
BHC-alpha (Benzene	ND	0.010
BHC-beta	ND	0.010
BHC-delta	ND	0.010
BHC-gamma (Lindane, gamma HCH)	ND	0.010
BifenoX	ND	0.010
Bifenthrin	ND	0.010
Bioresmethrin (resmethrin-trans)	ND	0.010
Bitertanol I	ND	0.010
Bitertanol II	ND	0.010
Boscalid	ND	0.010
Bromacil	ND	0.030
Bromophos-ethyl	ND	0.010
Bromophos-methyl	ND	0.010
Bromopropylate	ND	0.010
Bupirimate	ND	0.010
Buprofezin (z-isomer)	ND	0.010
Butachlor	ND	0.010
Butralin	ND	0.010
Butylate	ND	0.030
Cadusafos	ND	0.010
Captafol	ND	0.010
Captan	ND	0.030
Carbaryl	ND	0.010
Carbofuran	ND	0.010
Carbophenothion-ethyl	ND	0.010
Carbophenothion-methyl (methyl	ND	0.010
Carbosulfan	ND	0.030
Carboxin	ND	0.010
Chlorbenzilate	ND	0.010
Chlordane-alpha	ND	0.010
Chlordane-oxy	ND	0.010
Chlordane-trans (gamma)	ND	0.010
Chlordimeform	ND	0.010
Chlorfenapyr	ND	0.010
Chlorfenvinphos	ND	0.010
Chlorobenzilate	ND	0.010
Chloroneb	ND	0.010
Chlorothalonil	ND	0.030
Chlorpropham	ND	0.010
Chlorpyrifos-ethyl	ND	0.010
Chlorpyrifos-methyl	ND	0.010
Chlorthiophos	ND	0.010
Clomazone	ND	0.010
Coumaphos	ND	0.010
Crotoxyphos	ND	0.010

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@negeo.net

Project No:

PO No:

Client Sample ID: S-1 (T)

Sample Date: 3/21/2017

EMA Sample No: 17032222-01a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import GC/MS/MS Cy - D

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Cyanazine	ND	0.010
Cyanofenphos	ND	0.010
Cyanophos	ND	0.010
Cycloate	ND	0.030
Cycluron	ND	0.010
Cyfluthrin (Total)	ND	0.010
Cyhalothrin (lambda)	ND	0.010
Cymiazole	ND	0.010
Cypermethrin (Total)	ND	0.010
Cyproconazole	ND	0.010
Cyprodinil	ND	0.010
DCPA (dacthal, Chlorthal-dimethyl)	ND	0.010
DDD-o,p'	ND	0.030
DDD-p,p'	ND	0.010
DDE-o,p'	ND	0.010
DDE-p,p'	ND	0.010
DDT-o,p'	ND	0.010
DDT-p,p'	ND	0.030
DEF (Tribufos)	ND	0.010
Deltamethrin	ND	0.010
Demeton-s-methyl	ND	0.030
Desmedipham	ND	0.010
Desmetryn	ND	0.010
Diallate I	ND	0.030
Diallate II	ND	0.010
Diazinon	ND	0.010
Diazinon-oxon (diazoxon)	ND	0.010
Dichlofenthion	ND	0.010
Dichlofluanid	ND	0.030
Dichlorobenzonitrile, 2,6- (Dichlobenil)	ND	0.030
Dichlorvos	ND	0.030
Dichloran (Dichloran)	ND	0.030
Dicofol-o,p'	ND	0.010
Dicofol-p,p' (Kelthane)	ND	0.010
Dicrotofos (Dicrotophos)	ND	0.010
Dieldrin	ND	0.010
Diethofencarb	ND	0.010
Difenoconazole I	ND	0.010
Difenoconazole II	ND	0.010
Dimethachlor	ND	0.010
Dimethoate	ND	0.010
Dimethomorph I	ND	0.010
Dimethomorph II	ND	0.010
Diniconazole	ND	0.010
Dinitramine	ND	0.030
Dioxacarb	ND	0.030
Dioxathion	ND	0.010
Diphenamid	ND	0.010
Diphenylamine	ND	0.010
Disulfoton	ND	0.010
Disulfoton Sulfone	ND	0.010

R = Reported on another Screen

ND = None Detected at the Reporting Limit (RL)

Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.

Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.

Results relate only to items tested.

Samples are analyzed as received.

Reports should not be reproduced, except in full, without written consent by

Environmental Micro Analysis, Inc.

To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-1 (T)

Sample Date: 3/21/2017

EMA Sample No: 17032222-01a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import GC/MS/MS E - H

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Edifenphos	ND	0.010
Endosulfan I (alpha Isomer)	ND	0.010
Endosulfan II (beta Isomer)	ND	0.010
Endosulfan Sulfate	ND	0.010
Endrin	ND	0.010
Endrin Aldehyde	ND	0.030
EPN	ND	0.010
Epoxiconazole	ND	0.010
Esfenvalerate (Fenvalerate A-alpha)	ND	0.010
Etaconazole I	ND	0.010
Ethalfuralin (Sonalan)	ND	0.010
Ethiofencarb	ND	0.010
Ethiolate	ND	0.030
Ethion	ND	0.010
Ethofumesate	ND	0.010
Ethoprophos (Ethoprop)	ND	0.030
Ethoxyquin	ND	0.030
Etoxazole	ND	0.010
Etrifos	ND	0.010
Famoxadone	ND	0.010
Famphur	ND	0.010
Fenamidone	ND	0.030
Fenamiphos (Phenamiphos)	ND	0.010
Fenamiphos Sulfone	ND	0.010
Fenarimol	ND	0.010
Fenazaquin	ND	0.010
Fenbuconazole	ND	0.010
Fenfuram	ND	0.010
Fenhexamid	ND	0.010
Fenitrothion	ND	0.010
Fenobucarb	ND	0.010
Fenoxycarb	ND	0.010
Fenpropathrin	ND	0.010
Fenpropimorph	ND	0.010
Fensulfathion	ND	0.010
Fenthion	ND	0.010
Fenvalerate II	ND	0.010
Fipronil	ND	0.010
Flonicamid	ND	0.010
Fluchloralin	ND	0.010
Flucythrinate I	ND	0.010
Flucythrinate II	ND	0.010
Fludioxonil	ND	0.030
Fluopicolide	ND	0.010
Fluquiniconazole	ND	0.010
Flurenol-butyl	ND	0.010
Fluridone	ND	0.010
Flusilazole	ND	0.010
Flutolanil	ND	0.010
Flutriafol	ND	0.010
Fluvalinate I	ND	0.010
Folpet	ND	0.010
Fonofos	ND	0.010
Fuberidazole	ND	0.030
Furalaxyl	ND	0.010
Heptachlor	ND	0.010
Heptachlor exo-epoxide (Isomer B)	ND	0.010
Heptenophos	ND	0.010
Hexachlorobenzene	ND	0.030
Hexaconazole	ND	0.010
Hexythiazox	ND	0.030

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-1 (T)

Sample Date: 3/21/2017

EMA Sample No: 17032222-01a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import GC/MS/MS I - Pd

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Imazalil	ND	0.030
Indoxacarb	ND	0.010
Iprobenfos	ND	0.030
Iprodione	ND	0.030
Isocarbamid (Isocarbamide)	ND	0.010
Isocarbophos	ND	0.010
Isodrin	ND	0.010
Isufenphos	ND	0.010
Isoprocab	ND	0.010
Isopropalin	ND	0.010
Isoprothiolane	ND	0.030
Isoproturon	ND	0.030
Kresoxim-methyl	ND	0.010
Lenacil	ND	0.010
Leptophos	ND	0.010
Linuron	ND	0.010
Malaoxon (metabolite of Malathion)	ND	0.010
Malathion	ND	0.010
Mecarbam	ND	0.010
Mepanipyrim	ND	0.010
Mepronil	ND	0.010
Metalaxyl	ND	0.010
Metaldehyde	ND	0.030
Methidathion	ND	0.010
Methiocarb	ND	0.010
Methoprene	ND	0.030
Methoprotryne	ND	0.010
Methoxychlor, o,p'-	ND	0.010
Methoxychlor, p,p'-	ND	0.010
Metolachlor	ND	0.010
Metolcarb	ND	0.030
Metrafenone	ND	0.010
Metribuzin	ND	0.010
Mevinphos	ND	0.030
Mexacarbate	ND	0.010
MGK-264	ND	0.010
Mirex	ND	0.010
Molinate	ND	0.030
Monocrotophos	ND	0.030
Monolinuron	ND	0.010
Myclobutanil	ND	0.010
Naled	ND	0.030
Naphthaleneacetamide, 1-	ND	0.010
Napropamide	ND	0.010
Nicotine	ND	1.000
Nitrofen	ND	0.010
Nitrothal-isopropyl	ND	0.010
Nonachlor, cis-	ND	0.010
Nonachlor, Trans-	ND	0.010
Nuarimol	ND	0.010
Omethoate	ND	0.010
Oxadiazon	ND	0.010
Oxadixyl	ND	0.010
Oxyflurofen	ND	0.030
Paclobutrazole	ND	0.030
Paraaxon-ethyl	ND	0.010
Paraaxon-methyl	ND	0.010
Parathion-ethyl	ND	0.010
Parathion-methyl	ND	0.010

R = Reported on another Screen

ND = None Detected at the Reporting Limit (RL)

Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.

Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.

Results relate only to items tested.

Samples are analyzed as received.

Reports should not be reproduced, except in full, without written consent by

Environmental Micro Analysis, Inc.

To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@negeo.net

Project No:

PO No:

Client Sample ID: S-1 (T)

Sample Date: 3/21/2017

EMA Sample No: 17032222-01a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import GC/MS/MS Pe - So

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Penconazole	ND	0.010
Pendimethalin (Penoxaline)	ND	0.010
Pentachloroaniline	ND	0.010
Pentachloroanisole	ND	0.010
Pentachlorobenzonitrile	ND	0.010
Pentachlorothioanisole	ND	0.010
Peopiconazole	ND	0.010
Permethrin I	ND	0.010
Permethrin II (trans)	ND	0.010
Phenothrin I	ND	0.010
Phenothrin II	ND	0.010
Phenthoate	ND	0.010
Phenylphenol, 2-	ND	0.010
Phorate	ND	0.010
Phorate sulfone	ND	0.010
Phorate sulfoxide	ND	0.010
Phosalone	ND	0.010
Phosmet	ND	0.010
Phosmet oxon	ND	0.030
Phosphamidon I	ND	0.010
Phosphamidon II	ND	0.010
Piperonyl Butoxide	ND	0.010
Pirimicarb	ND	0.010
Pirimiphos-ethyl	ND	0.010
Pirimiphos-methyl	ND	0.010
Prochloraz	ND	0.010
Procymidone	ND	0.010
Prodiamine	0.03	0.030
Profenofos	ND	0.010
Profluralin	ND	0.010
Promecarb	ND	0.010
Prometon	ND	0.010
Prometryn	ND	0.010
Pronamide (Propyzamide)	ND	0.010
Propachlor	ND	0.010
Propanil	ND	0.010
Propargite	ND	0.010
Propetamphos	ND	0.010
Propham	ND	0.030
Propiconazole I	ND	0.010
Propiconazole II	ND	0.010
Propoxur	ND	0.010
Pyracarbolid	ND	0.010
Pyraclostrobin	ND	0.030
Pyrazophos	ND	0.010
Pyridaben	ND	0.010
Pyridaphenthion	ND	0.010
Pyrifinex I	ND	0.010
Pyrifinex II	ND	0.010
Pyrimethanil	ND	0.010
Pyriproxyfen	ND	0.010
Quinalphos	ND	0.010
Quinoxifen	ND	0.010
Quintozone	ND	0.010
Resmethrin -cis (cismethrin)	ND	0.010
Ronnel (Fenchlorphos)	ND	0.010
Sebumeon	ND	0.010
Simazine	ND	0.010
Simetryn	ND	0.010

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

April 26, 2017

Project No:

PO No:

Client Sample ID: S-1 (T)

Sample Date: 3/21/2017

EMA Sample No: 17032222-01a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import GC/MS/MS Sp - Z

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Spirodiclofen	ND	0.030
Spiromesifen	ND	0.030
Spiroxamine I	ND	0.010
Spiroxamine II	ND	0.010
Sulfotep	ND	0.010
Sulprofos	ND	0.030
Tebuconazole	ND	0.010
Tebufenpyrad	ND	0.010
Tebupirimfos	ND	0.010
Tebutam	ND	0.010
Tebuthiuron	ND	0.010
Tecnazene (TCNB)	ND	0.010
Tefluthrin, cis-	ND	0.010
Terbacil	ND	0.010
Terbufos	ND	0.010
Terbumeton	ND	0.030
Terbuthylazine	ND	0.030
Tetrachloraniline, 2,3,5,6-	ND	0.010
Tetrachlorvinphos, e-isomer	ND	0.010
Tetraconazole	ND	0.010
Tetradifon	ND	0.010
Tetrahydrophthalimide, cis-1,2,3,6-	ND	0.010
Tetrahydrophthalimide, cis-Delta 4-	ND	0.030
Tetramethrin I	ND	0.010
Tetramethrin II	ND	0.010
Thiabendazole	ND	0.030
Thiamethoxam	ND	0.010
Thionazin	ND	0.030
Tolclofos-methyl	ND	0.010
Tolyfluanid	ND	0.010
Triadimefon	ND	0.010
Triadimenol	ND	0.010
Triazophos	ND	0.010
Tricyclazole	ND	0.030
Trifloxystrobin	ND	0.010
Triflunizole	ND	0.010
Trifluralin	ND	0.010
Trimethacarb, 2,3,5-	ND	0.010
Trimethacarb, 3,4,5-	ND	0.010
Trimidial (Nuairimol)	ND	0.010
Triticonazole	ND	0.010
Vernolate	ND	0.030
Vinclozolin	ND	0.010

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: **Jay Billings**
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-1 (T)

Sample Date: 3/21/2017

EMA Sample No: 17032222-01a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import LC/MS/MS A-C

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
3-Hydroxycarbofuran	ND	0.010
Acephate	ND	0.010
Acetamiprid	ND	0.010
Acetochlor	ND	0.010
Acibenzolar-S-methyl	ND	0.010
Alanycarb	ND	0.010
Aldicarb-sulfone	ND	0.010
Aldicarb-sulfoxide	ND	0.010
Ametryn	ND	0.010
Amicarbazone	ND	0.010
Aminocarb	ND	0.010
Aspon	ND	0.010
Atrazine	ND	0.010
Avermectin Ba	ND	0.010
Azinphos-methyl	ND	0.010
Azoxystrobin	ND	0.010
Benalaxyl	ND	0.010
Bendiocarb	ND	0.010
Benfuracarb	ND	0.010
Bensulide	ND	0.010
Benzoximate	ND	0.010
Bifenazate	ND	0.010
Bitertanol	ND	0.010
Boscalid	ND	0.010
Bromuconazole (isomer)	ND	0.010
Bupirimate	ND	0.010
Buprofezin	ND	0.010
Butafenacil	ND	0.010
Butocarboxim	ND	0.010
Carbaryl	ND	0.010
Carbendazim	ND	0.010
Carbetamide	ND	0.010
Carbofuran	ND	0.010
Carbosulfan	ND	0.010
Carboxine	ND	0.010
Carfentrazone-ethyl	ND	0.010
Chlorantraniliprole	ND	0.010
Chlordimeform	ND	0.010
Chlorfenvinphos	ND	0.010
Chlorfluazuron	ND	0.010
Chloroxuron	ND	0.010
Chlorpyrifos	ND	0.010
Chlorpyrifos-methyl	ND	0.010
Chlortoluron	ND	0.010
Clethodim	ND	0.010
Clofentezine	ND	0.010
Clothianidin	ND	0.010
Coumaphos	ND	0.010
Cumyluron	ND	0.010
Cyanazine	ND	0.010
Cyazofamid	ND	0.010
Cycluron	ND	0.010
Cyflufenamid	ND	0.010
Cyhexatin	ND	0.010
Cymoxanil	ND	0.010
Cyproconazole (isomer)	ND	0.010
Cyprodinil	ND	0.010
Cyromazine	ND	0.010

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-1 (T)

Sample Date: 3/21/2017

EMA Sample No: 17032222-01a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import LC/MS/MS D-F

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Daimuron	ND	0.010
Diafenthiuron	ND	0.010
Diazinon	ND	0.010
Dichlorvos	ND	0.010
Diclobutrazol	ND	0.010
Diclotophos	ND	0.010
Diethofencarb	ND	0.010
Difenoconazole	ND	0.010
Diiflubenzuron	ND	0.010
Dimethenamide	ND	0.010
Dimethoate	ND	0.010
Dimethomorph	ND	0.010
Dimoxystrobin	ND	0.010
Diniconazole	ND	0.010
Dioxacarb	ND	0.010
Diuron	ND	0.010
DMST	ND	0.010
DNOC	ND	0.010
Dodine	ND	0.010
Doramectin	ND	0.010
Emamectin Ba	ND	0.010
Epoxiconazole	ND	0.010
Eprinomectin	ND	0.010
Esprocarb	ND	0.010
Ethidimuron	ND	0.010
Ethiofencarb	ND	0.010
Ethiofencarb-sulfoxide	ND	0.010
Ethion	ND	0.010
Ethiprole	ND	0.010
Ethirimol	ND	0.010
Ethofumesate	ND	0.010
Ethoprop	ND	0.010
Etobenzanid	ND	0.010
Etoazole	ND	0.010
Famoxadone	ND	0.010
Fenamidone	ND	0.010
Fenarimol	ND	0.010
Fenazaquin	ND	0.010
Fenbuconazole	ND	0.010
Fenbutatin Oxide	ND	0.010
Fenhexamid	ND	0.010
Fenobucarb	ND	0.010
Fenoxycarb	ND	0.010
Fenpropimorph	ND	0.010
Fenpyroximate	ND	0.010
Fenuron	ND	0.010
Flonicamid	ND	0.010
Fluazifop-butyl	ND	0.010
Flubendiamide	ND	0.010
Fludioxinil	ND	0.010
Flufenacet	ND	0.010
Flufenoxuron	ND	0.010
Fluometuron	ND	0.010
Fluopicolide	ND	0.010
Fluoxastrobin	ND	0.010
Fluquinconazole	ND	0.010
Flusilazole	ND	0.010
Flutolanil	ND	0.010
Flutriafol	ND	0.010
Fomesafen	ND	0.010
Forchlorfenuron	ND	0.010
Formetanate	ND	0.010
Fuberidazole	ND	0.010
Furalaxyl	ND	0.010

R = Reported on another Screen

ND = None Detected at the Reporting Limit (RL)

Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.

Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.

Results relate only to items tested.

Samples are analyzed as received.

Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.

To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-1 (T)

Sample Date: 3/21/2017

EMA Sample No: 17032222-01a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import LC/MS/MS H-O

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Halofenozide	ND	0.010
Hexaflumuron	ND	0.010
Hexazinone	ND	0.010
Hexythiazox	ND	0.010
Hydramethylnon	ND	0.010
Imazalil	ND	0.010
Imazapyr	ND	0.010
Imazethapyr	ND	0.010
Imibenconazole	ND	0.010
Imidacloprid	ND	0.010
Indoxacarb	ND	0.010
Ipconazole	ND	0.010
Iprovalicarb	ND	0.010
Isocarbamid	ND	0.010
Isofenphos	ND	0.010
Isoprocab	ND	0.010
Isoprothiolane	ND	0.010
Isoproturon	ND	0.010
Ivermectin	ND	0.010
Kresoxim-methyl	ND	0.010
Lactofen	ND	0.010
Linuron	ND	0.010
Malathion	ND	0.010
Mandipropamid	ND	0.010
Mefenacet	ND	0.010
Mepanipyrim	ND	0.010
Mepronil	ND	0.010
Metaflumizone	ND	0.010
Metalaxyl	ND	0.010
Metconazole	ND	0.010
Methamidophos	ND	0.010
Methfuroxam	ND	0.010
Methidathion	ND	0.010
Methiocarb	ND	0.010
Methomyl	ND	0.010
Methoprotrene	ND	0.010
Methoxyfenozide	ND	0.010
Metobromuron	ND	0.010
Metolachlor	ND	0.010
Metoxuron	ND	0.010
Metrafenone	ND	0.010
Metribuzin	ND	0.010
Metsulfuron-methyl	ND	0.010
Mevinphos	ND	0.010
Mexacarbate	ND	0.010
Molinate	ND	0.010
Monocrotophos	ND	0.010
Monolinuron	ND	0.010
Moxidectin	ND	0.010
Myclobutanil	ND	0.010
Napropamide	ND	0.010
Neburon	ND	0.010
Nitenpyram	ND	0.010
Novaluron	ND	0.010
Omethoate	ND	0.010
Oxamyl	ND	0.010
Oxadixyl	ND	0.010

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-1 (T)

Sample Date: 3/21/2017

EMA Sample No: 17032222-01a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import LC/MS/MS P-Trid

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Pencycuron	ND	0.010
Pendimethalin	ND	0.010
Phorate	ND	0.010
Phosmet	ND	0.010
Phoxim	ND	0.010
Picoxystrobin	ND	0.010
Piperonyl butoxide	ND	0.010
Pirimicarb	ND	0.010
Pirimiphos-methyl	ND	0.010
Prochloraz	ND	0.010
Promecarb	ND	0.010
Prometon	ND	0.010
Prometryn	ND	0.010
Propachlor	ND	0.010
Propamocarb	ND	0.010
Propargite	ND	0.010
Propazine	ND	0.010
Propham	ND	0.010
Propiconazole	ND	0.010
Propoxur	ND	0.010
Propyzamide	ND	0.010
Pymetrozin	ND	0.010
Pyracarbolid	ND	0.010
Pyraclostrobin	ND	0.010
Pyridaben	ND	0.010
Pyridaphenthion	ND	0.010
Pyrimethanil	ND	0.010
Pyriproxyfen	ND	0.010
Quinoxifen	ND	0.010
Sebuthylazine	ND	0.010
Secbumeton	ND	0.010
Sethoxydim	ND	0.010
Siduron	ND	0.010
Simazine	ND	0.010
Simetryn	ND	0.010
Spinetoram-J +L	ND	0.010
Spinosad	ND	0.010
Spirodiclofen	ND	0.010
Spiromecifen	ND	0.010
Spirotetramat	ND	0.010
Spiroxamine	ND	0.010
Sulfentrazone	ND	0.010
Tebuconazole	ND	0.010
Tebufenozide	ND	0.010
Tebufenpyrad	ND	0.010
Tebuthiuron	ND	0.010
Temephos	ND	0.010
Tepraloxymdim	ND	0.010
Terbumeton	ND	0.010
Terbutryn	ND	0.010
Tetraconazole	ND	0.010
Thiabendazole	ND	0.010
Thiacloprid	ND	0.010
Thiamethoxam	ND	0.010
Thidiazuron	ND	0.010
Thiobencarb	ND	0.010
Thiofanox	ND	0.010
Thiophanate-methyl (Carbendazim)	ND	0.010
Triadimefon	ND	0.010
Triadimenol	ND	0.010
Triazophos	ND	0.010
Tricyclazole	ND	0.010
Tridemorph	ND	0.010

R = Reported on another Screen

ND = None Detected at the Reporting Limit (RL)

Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.

Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.

Results relate only to items tested.

Samples are analyzed as received.

Reports should not be reproduced, except in full, without written consent by

Environmental Micro Analysis, Inc.

To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Analyte

Amount
ppm

RL
ppm

Trifloxystrobin	ND	0.010
Triflumizole	ND	0.010
Triflumuron	ND	0.010
Triflurosulfuron-methyl	ND	0.010
Triphenyl Phosphate	ND	0.010
Triticonazole	ND	0.010
Uniconazole	ND	0.010
Vamidithion	ND	0.010
Zoxamide	ND	0.010

Project No:

PO No:

Client Sample ID: S-1 (T)

Sample Date: 3/21/2017

EMA Sample No: 17032222-01a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import LC/MS/MS Trif-Z

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Analyte	Amount ppm	RL ppm
Ferbam	ND	0.030
Maneb (Dithane M-22)	ND	0.030
Mancozeb	ND	0.030
Metiram	ND	0.030
Nabam	ND	0.030
Thiram	ND	0.030
Zineb	ND	0.030
Ziram	ND	0.030

Project No:

PO No:

Client Sample ID: S-1 (T)

Sample Date: 3/21/2017

EMA Sample No: 17032222-01a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: EBDC Screen

Extraction Method: CDFA

Date Extracted: 3/31/2017

Date Completed: 3/31/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Analyte	Amount ppm	RL ppm
2, 4 - D	ND	0.250
2, 4 -DB	ND	0.250
2, 4, 5 - T	ND	0.130
2, 4, 5 -TP	ND	0.130
Dicamba	ND	0.130
Dichloroprop	ND	0.130
Bentazon	ND	0.250
MCPA	ND	0.250
MCP	ND	0.250
Triclopyr	ND	0.250

Project No:

PO No:

Client Sample ID: S-1 (T)

Sample Date: 3/21/2017

EMA Sample No: 17032222-01a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: EPA 8151A (s)

Extraction Method: EPA 8151A

Date Extracted: 4/4/2017

Date Completed: 4/10/2017

Surrogate: DCAA

Surrogate Level: 0.2 mg/Kg

Recovery: 101

Comments:

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes
no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of
analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by
Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@negeo.net

Project No:

PO No:

Client Sample ID: S-1 (T)

Sample Date: 3/21/2017

EMA Sample No: 17032222-01a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: OC Screen

Extraction Method: CDFA

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate: Dibutylchloridate

Surrogate Level: 0.013 ppm

Recovery: 103

Comments:

Analyte	Amount ppm	RL ppm
a, b, d-BHC	ND	0.010
Alachlor	ND	0.020
Aldrin	ND	0.010
Benfluralin	ND	0.020
Bifenox	ND	0.050
Boscalid	ND	0.020
Bromacil	ND	0.040
Captan	ND	0.040
Chlorobenzilate	ND	0.020
Chloroethalonil	ND	0.040
Chlorobenzilate	ND	0.040
Chlorothalonil	ND	0.010
Cyanazine	ND	0.100
Dacthal	ND	0.020
DDD	ND	0.020
DDE	ND	0.020
DDT	ND	0.020
Dichlobenil	ND	0.030
Dichlone	ND	0.050
Dicloran	ND	0.020
Dicofol	ND	0.050
Dieldrin	ND	0.010
Endosulfan alpha	ND	0.010
Endosulfan beta	ND	0.010
Endosulfan sulfate	ND	0.010
Endosulfans (Total)	ND	0.010
Endrin	ND	0.010
Ethionazine	ND	0.030
Fenhexamid	ND	0.030
Folpet	ND	0.050
Heptachlor	ND	0.010
Heptachlor epoxide	ND	0.020
Hexachlorobenzene	ND	0.010
Indoxacarb	ND	0.030
Iprodione	ND	0.050
Lindane (gamma-BHC)	ND	0.010
Linuron	ND	0.150
Methoxychlor	ND	0.050
Metribuzin	ND	0.020
Mirex	ND	0.020
Myclobutanil	ND	0.050
Oxadiazon	ND	0.050
Oxyfluorfen	ND	0.040
Pendimethalin	ND	0.050
Pentachloronitrobenzene (PCNB)	ND	0.020
Pentachloroaniline (PCA)	ND	0.010
Perthane	ND	0.100
Polychlorinated Biphenyls	ND	0.250
Procymidone	ND	0.020
Profluralin	ND	0.020
Pronamide	ND	0.050
Propanil	ND	0.050
Tetradifon	ND	0.020
Toxaphene	ND	0.250
Triadimefon	ND	0.020
Trifloxystrobin	ND	0.030
Triflumazole	ND	0.050
Trifluralin	ND	0.020
Vegadex (Diethyldithiocarbamic Acid)	ND	0.050
Vinclozolin	ND	0.020
Dithiopyr	ND	0.020
Norflurazon	ND	0.020

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Analyte	Amount ppm	RL ppm
Bifenthrin	ND	0.020
Cyfluthrin	ND	0.040
Cypermethrin	ND	0.040
Deltamethrin	ND	0.020
Esfenvalerate	ND	0.030
Fenpropathrin	ND	0.010
Fluvalinate	ND	0.040
lambda Cyhalothrin	ND	0.010
Permethrin	ND	0.100
Tralomethrin	ND	0.020
Pyrethrins (Total)	ND	0.050

Project No:

PO No:

Client Sample ID: S-1 (T)

Sample Date: 3/21/2017

EMA Sample No: 17032222-01a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: Pyrethroid Screen

Extraction Method: CDFA

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate: Dibutylchlordeinate

Surrogate Level: 0.013 ppm

Recovery: 103

Comments:

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-1 (T)

Sample Date: 3/21/2017

EMA Sample No: 17032222-01b

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: OP Screen

Extraction Method: CDFA

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate: Triphenylphosphate

Surrogate Level: 0.067 ppm

Recovery: 110

Analyte	Amount ppm	RL ppm
Acephate	ND	0.020
Azinphos-methyl	ND	0.050
Bolstar	ND	0.030
Bensulide	ND	0.050
Carbofenthiol	ND	0.020
Chlorfenvinphos	ND	0.030
Chlorpyrifos	ND	0.020
Chlorpyrifos-methyl	ND	0.030
Ciodrin	ND	0.050
Coumaphos	ND	0.050
DEF	ND	0.050
Demeton (Systox) O/S Analogues	ND	0.040
Diazinon	ND	0.030
Dibrom	ND	0.050
Dichlorvos	ND	0.030
Dicrotophos	ND	0.020
Dimethoate	ND	0.020
Disulfoton	ND	0.020
EPN	ND	0.020
Ethion	ND	0.030
Ethoprop	ND	0.050
Fenamiphos	ND	0.020
Fenitrothion	ND	0.030
Fenthion	ND	0.020
Fonofos	ND	0.040
Isofenphos	ND	0.030
Malathion	ND	0.020
Metasystox-R	ND	0.050
Methamidophos	ND	0.030
Methidathion	ND	0.030
Methyl Parathion	ND	0.030
Mevinphos	ND	0.050
O-methoate	ND	0.050
Parathion	ND	0.040
Phorate	ND	0.050
Phosalone	ND	0.050
Phosmet	ND	0.030
Phosphamidon	ND	0.020
Pyrimiphos-methyl	ND	0.050
Profenofos	ND	0.020
Propetamphos	ND	0.020
Ronnel	ND	0.030
Tetrachlorvinphos	ND	0.020
Thionazin	ND	0.020

Comments:

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-1 (T)

Sample Date: 3/21/2017

EMA Sample No: 17032222-01b

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: ON Screen

Extraction Method: CDFA

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate: Triphenylphosphate

Surrogate Level: 0.067 ppm

Recovery: 110

Analyte	Amount ppm	RL ppm
Acetamipride	ND	0.050
Atrazine	ND	0.030
Azoxystrobin	ND	0.030
Benthiocarb	ND	0.050
Cyanazine	ND	0.050
Cyromazine	ND	0.050
Cyprodinil	ND	0.050
Dimethomorph	ND	0.050
Diphenyl Amine	ND	0.050
Fenamidone	ND	0.050
Fenbuconazole	ND	0.050
Fipronil	ND	0.050
Fludioxinil	ND	0.050
Hexazinone	ND	0.050
Imazalil	ND	0.050
Kresoxim Methyl	ND	0.050
Metalaxyl	ND	0.050
Metolachlor	ND	0.050
Metribuzin	ND	0.050
Molinate	ND	0.050
Myclobutanil	ND	0.050
Prometon	ND	0.050
Prometryne	ND	0.050
Propamocarb	ND	0.050
Propiconazole	ND	0.050
Pymetrozine	ND	0.050
Pyraclostrobin	ND	0.050
Pyriproxifen	ND	0.050
Sethoxydim	ND	0.050
Simazine	ND	0.050
Tebuconazole	ND	0.050
Terbacil	ND	0.050
Thiabendazole	ND	0.050
Desethyl Atrazine	ND	0.050

Comments:

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-2 (F)

Sample Date: 3/21/2017

EMA Sample No: 17032222-02a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import GC/MS/MS A - Cx

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Acephate	ND	0.030
Acetamiprid	ND	0.030
Acrinathrin	ND	0.010
Adiisopropyl naphthalene, 2,6- (DIPN),	ND	0.010
Alachlor	ND	0.010
Aldrin	ND	0.010
Allethrin	ND	0.010
Ametryn	ND	0.010
Aminocarb	ND	0.010
Atrazine	ND	0.010
Azinphos-methyl	ND	0.010
Azoxystrobin	ND	0.010
Benalaxyl	ND	0.010
Azoxystrobin	ND	0.010
Bendiocarb	ND	0.010
Benfluralin	ND	0.010
Benoxacor	ND	0.010
BHC-alpha (Benzene	ND	0.010
BHC-beta	ND	0.010
BHC-delta	ND	0.010
BHC-gamma (Lindane, gamma HCH)	ND	0.010
BifenoX	ND	0.010
Bifenthrin	ND	0.010
Bioresmethrin (resmethrin-trans)	ND	0.010
Bitertanol I	ND	0.010
Bitertanol II	ND	0.010
Boscalid	ND	0.010
Bromacil	ND	0.030
Bromophos-ethyl	ND	0.010
Bromophos-methyl	ND	0.010
Bromopropylate	ND	0.010
Bupirimate	ND	0.010
Buprofezin (z-isomer)	ND	0.010
Butachlor	ND	0.010
Butralin	ND	0.010
Butylate	ND	0.030
Cadusafos	ND	0.010
Captafol	ND	0.010
Captan	ND	0.030
Carbaryl	ND	0.010
Carbofuran	ND	0.010
Carbophenothion-ethyl	ND	0.010
Carbophenothion-methyl (methyl	ND	0.010
Carbosulfan	ND	0.030
Carboxin	ND	0.010
Chlorbenzilate	ND	0.010
Chlordane-alpha	ND	0.010
Chlordane-oxy	ND	0.010
Chlordane-trans (gamma)	ND	0.010
Chlordimeform	ND	0.010
Chlorfenapyr	ND	0.010
Chlorfenvinphos	ND	0.010
Chlorobenzilate	ND	0.010
Chloroneb	ND	0.010
Chlorothalonil	ND	0.030
Chlorpropham	ND	0.010
Chlorpyrifos-ethyl	ND	0.010
Chlorpyrifos-methyl	ND	0.010
Chlorthiophos	ND	0.010
Clomazone	ND	0.010
Coumaphos	ND	0.010
Crotoxyphos	ND	0.010

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-2 (F)

Sample Date: 3/21/2017

EMA Sample No: 17032222-02a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import GC/MS/MS Cy - D

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Cyanazine	ND	0.010
Cyanofenphos	ND	0.010
Cyanophos	ND	0.010
Cycloate	ND	0.030
Cycluron	ND	0.010
Cyfluthrin (Total)	ND	0.010
Cyhalothrin (lambda)	ND	0.010
Cymiazole	ND	0.010
Cypermethrin (Total)	ND	0.010
Cyproconazole	ND	0.010
Cyprodinil	ND	0.010
DCPA (dacthal, Chlorthal-dimethyl)	ND	0.010
DDD-o,p'	ND	0.030
DDD-p,p'	ND	0.010
DDE-o,p'	ND	0.010
DDE-p,p'	ND	0.010
DDT-o,p'	ND	0.010
DDT-p,p'	ND	0.030
DEF (Tribufos)	ND	0.010
Deltamethrin	ND	0.010
Demeton-s-methyl	ND	0.030
Desmedipham	ND	0.010
Desmetryn	ND	0.010
Diallate I	ND	0.030
Diallate II	ND	0.010
Diazinon	ND	0.010
Diazinon-oxon (diazoxon)	ND	0.010
Dichlofenthion	ND	0.010
Dichlofluanid	ND	0.030
Dichlorobenzonitrile, 2,6- (Dichlobenil)	ND	0.030
Dichlorvos	ND	0.030
Dichloran (Dichloran)	ND	0.030
Dicofol-o,p'	ND	0.010
Dicofol-p,p' (Kelthane)	ND	0.010
Dicrotophos (Dicrotophos)	ND	0.010
Dieldrin	ND	0.010
Diethofencarb	ND	0.010
Difenoconazole I	ND	0.010
Difenoconazole II	ND	0.010
Dimethachlor	ND	0.010
Dimethoate	ND	0.010
Dimethomorph I	ND	0.010
Dimethomorph II	ND	0.010
Diniconazole	ND	0.010
Dinitramine	ND	0.030
Dioxacarb	ND	0.030
Dioxathion	ND	0.010
Diphenamid	ND	0.010
Diphenylamine	ND	0.010
Disulfoton	ND	0.010
Disulfoton Sulfone	ND	0.010

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@negeo.net

Project No:

PO No:

Client Sample ID: S-2 (F)

Sample Date: 3/21/2017

EMA Sample No: 17032222-02a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import GC/MS/MS E - H

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Edifenphos	ND	0.010
Endosulfan I (alpha Isomer)	ND	0.010
Endosulfan II (beta Isomer)	ND	0.010
Endosulfan Sulfate	ND	0.010
Endrin	ND	0.010
Endrin Aldehyde	ND	0.030
EPN	ND	0.010
Epoxiconazole	ND	0.010
Esfenvalerate (Fenvalerate A-alpha)	ND	0.010
Etaconazole I	ND	0.010
Ethalfuralin (Sonalan)	ND	0.010
Ethiofencarb	ND	0.010
Ethiolate	ND	0.030
Ethion	ND	0.010
Ethofumesate	ND	0.010
Ethoprophos (Ethoprop)	ND	0.030
Ethoxyquin	ND	0.030
Etoxazole	ND	0.010
Etrifos	ND	0.010
Famoxadone	ND	0.010
Famphur	ND	0.010
Fenamidone	ND	0.030
Fenamiphos (Phenamiphos)	ND	0.010
Fenamiphos Sulfone	ND	0.010
Fenarimol	ND	0.010
Fenazaquin	ND	0.010
Fenbuconazole	ND	0.010
Fenfuram	ND	0.010
Fenhexamid	ND	0.010
Fenitrothion	ND	0.010
Fenobucarb	ND	0.010
Fenoxycarb	ND	0.010
Fenpropathrin	ND	0.010
Fenpropimorph	ND	0.010
Fensulfothion	ND	0.010
Fenthion	ND	0.010
Fenvalerate II	ND	0.010
Fipronil	ND	0.010
Flonicamid	ND	0.010
Fluchloralin	ND	0.010
Flucythrinate I	ND	0.010
Flucythrinate II	ND	0.010
Fludioxonil	ND	0.030
Fluopicolide	ND	0.010
Fluquiniconazole	ND	0.010
Flurenol-butyl	ND	0.010
Fluridone	ND	0.010
Flusilazole	ND	0.010
Flutolanil	ND	0.010
Flutriafol	ND	0.010
Fluvalinate I	ND	0.010
Folpet	ND	0.010
Fonofos	ND	0.010
Fuberidazole	ND	0.030
Furalaxyl	ND	0.010
Heptaclor	ND	0.010
Heptachlor exo-epoxide (Isomer B)	ND	0.010
Heptenophos	ND	0.010
Hexachlorobenzene	ND	0.030
Hexaconazole	ND	0.010
Hexythiazox	ND	0.030

R = Reported on another Screen

ND = None Detected at the Reporting Limit (RL)

Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.

Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.

Results relate only to items tested.

Samples are analyzed as received.

Reports should not be reproduced, except in full, without written consent by

Environmental Micro Analysis, Inc.

To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-2 (F)

Sample Date: 3/21/2017

EMA Sample No: 17032222-02a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import GC/MS/MS I - Pd

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Imazalil	ND	0.030
Indoxacarb	ND	0.010
Iprobenfos	ND	0.030
Iprodione	ND	0.030
Isocarbamid (Isocarbamide)	ND	0.010
Isocarbophos	ND	0.010
Isodrin	ND	0.010
Isufenphos	ND	0.010
Isoprocarb	ND	0.010
Isopropalin	ND	0.010
Isoprothiolane	ND	0.030
Isoproturon	ND	0.030
Kresoxim-methyl	ND	0.010
Lenacil	ND	0.010
Leptophos	ND	0.010
Linuron	ND	0.010
Malaaxon (metabolite of Malathion)	ND	0.010
Malathion	ND	0.010
Mecarbam	ND	0.010
Mepanipyrim	ND	0.010
Mepronil	ND	0.010
Metalaxyl	ND	0.010
Metaldehyde	ND	0.030
Methidathion	ND	0.010
Methiocarb	ND	0.010
Methoprene	ND	0.030
Methoprotryne	ND	0.010
Methoxychlor, o,p'-	ND	0.010
Methoxychlor, p,p'-	ND	0.010
Metolachlor	ND	0.010
Metolcarb	ND	0.030
Metrafenone	ND	0.010
Metribuzin	ND	0.010
Mevinphos	ND	0.030
Mexacarbate	ND	0.010
MGK-264	ND	0.010
Mirex	ND	0.010
Molinate	ND	0.030
Monocrotophos	ND	0.030
Monolinuron	ND	0.010
Myclobutanil	ND	0.010
Naled	ND	0.030
Naphthaleneacetamide, 1-	ND	0.010
Napropamide	ND	0.010
Nicotine	ND	1.000
Nitrofen	ND	0.010
Nitrothal-isopropyl	ND	0.010
Nonachlor, cis-	ND	0.010
Nonachlor, Trans-	ND	0.010
Nuarimol	ND	0.010
Omethoate	ND	0.010
Oxadiazon	ND	0.010
Oxadixyl	ND	0.010
Oxyflurofen	ND	0.030
Paclobutrazole	ND	0.030
Paraaxon-ethyl	ND	0.010
Paraaxon-methyl	ND	0.010
Parathion-ethyl	ND	0.010
Parathion-methyl	ND	0.010

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-2 (F)

Sample Date: 3/21/2017

EMA Sample No: 17032222-02a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import GC/MS/MS Pe - So

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Penconazole	ND	0.010
Pendimethalin (Penoxaline)	ND	0.010
Pentachloroaniline	ND	0.010
Pentachloroanisole	ND	0.010
Pentachlorobenzonitrile	ND	0.010
Pentachlorothioanisole	ND	0.010
Peopiconazole	ND	0.010
Permethrin I	ND	0.010
Permethrin II (trans)	ND	0.010
Phenothrin I	ND	0.010
Phenothrin II	ND	0.010
Phenthoate	ND	0.010
Phenylphenol, 2-	ND	0.010
Phorate	ND	0.010
Phorate sulfone	ND	0.010
Phorate sulfoxide	ND	0.010
Phosalone	ND	0.010
Phosmet	ND	0.010
Phosmet oxon	ND	0.030
Phosphamidon I	ND	0.010
Phosphamidon II	ND	0.010
Piperonyl Butoxide	ND	0.010
Pirimicarb	ND	0.010
Pirimiphos-ethyl	ND	0.010
Pirimiphos-methyl	ND	0.010
Prochloraz	ND	0.010
Procymidone	ND	0.010
Prodiamine	ND	0.030
Profenofos	ND	0.010
Profluralin	ND	0.010
Promecarb	ND	0.010
Prometon	ND	0.010
Prometryn	ND	0.010
Pronamide (Propyzamide)	ND	0.010
Propachlor	ND	0.010
Propanil	ND	0.010
Propargite	ND	0.010
Propetamphos	ND	0.010
Propham	ND	0.030
Propiconazole I	ND	0.010
Propiconazole II	ND	0.010
Propoxur	ND	0.010
Pyracarbolid	ND	0.010
Pyraclostrobin	ND	0.030
Pyrazophos	ND	0.010
Pyridaben	ND	0.010
Pyridaphenthion	ND	0.010
Pyrifinex I	ND	0.010
Pyrifinex II	ND	0.010
Pyrimethanil	ND	0.010
Pyriproxyfen	ND	0.010
Quinalphos	ND	0.010
Quinoxifen	ND	0.010
Quintozene	ND	0.010
Resmethrin -cis (cismethrin)	ND	0.010
Ronnel (Fenchlorphos)	ND	0.010
Sebumeeton	ND	0.010
Simazine	ND	0.010
Simetryn	ND	0.010

R = Reported on another Screen

ND = None Detected at the Reporting Limit (RL)

Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.

Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.

Results relate only to items tested.

Samples are analyzed as received.

Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.

To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-2 (F)

Sample Date: 3/21/2017

EMA Sample No: 17032222-02a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import GC/MS/MS Sp - Z

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Analyte	Amount ppm	RL ppm
Spiroclufen	ND	0.030
Spiromesifen	ND	0.030
Spiroxamine I	ND	0.010
Spiroxamine II	ND	0.010
Sulfotep	ND	0.010
Sulprofos	ND	0.030
Tebuconazole	ND	0.010
Tebufenpyrad	ND	0.010
Tebupirimfos	ND	0.010
Tebutam	ND	0.010
Tebuthiuron	ND	0.010
Tecnazene (TCNB)	ND	0.010
Tefluthrin, cis-	ND	0.010
Terbacil	ND	0.010
Terbufos	ND	0.010
Terbumeton	ND	0.030
Terbutylazine	ND	0.030
Tetrachloraniline, 2,3,5,6-	ND	0.010
Tetrachlorvinphos, e-isomer	ND	0.010
Tetraconazole	ND	0.010
Tetradifon	ND	0.010
Tetrahydrophthalimide, cis-1,2,3,6-	ND	0.010
Tetrahydrophthalimide, cis-Delta 4-	ND	0.030
Tetramethrin I	ND	0.010
Tetramethrin II	ND	0.010
Thiabendazole	ND	0.030
Thiamethoxam	ND	0.010
Thionazin	ND	0.030
Tolclofos-methyl	ND	0.010
Tolyfluanid	ND	0.010
Triadimefon	ND	0.010
Triadimenol	ND	0.010
Triazophos	ND	0.010
Tricyclazole	ND	0.030
Trifloxystrobin	ND	0.010
Triflunizole	ND	0.010
Trifluralin	ND	0.010
Trimethacarb, 2,3,5-	ND	0.010
Trimethacarb, 3,4,5-	ND	0.010
Trimidol (Nuarimol)	ND	0.010
Triticonazole	ND	0.010
Vernolate	ND	0.030
Vinclozolin	ND	0.010

Comments:

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-2 (F)

Sample Date: 3/21/2017

EMA Sample No: 17032222-02a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import LC/MS/MS A-C

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
3-Hydroxycarbofuran	ND	0.010
Acephate	ND	0.010
Acetamiprid	ND	0.010
Acetochlor	ND	0.010
Acibenzolar-S-methyl	ND	0.010
Alanycarb	ND	0.010
Aldicarb-sulfone	ND	0.010
Aldicarb-sulfoxide	ND	0.010
Ametryn	ND	0.010
Amicarbazone	ND	0.010
Aminocarb	ND	0.010
Aspon	ND	0.010
Atrazine	ND	0.010
Avermectin Ba	ND	0.010
Azinphos-methyl	ND	0.010
Azoxystrobin	ND	0.010
Benalaxyl	ND	0.010
Bendiocarb	ND	0.010
Benfuracarb	ND	0.010
Bensulide	ND	0.010
Benzoximate	ND	0.010
Bifenazate	ND	0.010
Bitertanol	ND	0.010
Boscalid	ND	0.010
Bromuconazole (isomer)	ND	0.010
Bupirimate	ND	0.010
Buprofezin	ND	0.010
Butafenacil	ND	0.010
Butocarboxim	ND	0.010
Carbaryl	ND	0.010
Carbendazim	ND	0.010
Carbetamide	ND	0.010
Carbofuran	ND	0.010
Carbosulfan	ND	0.010
Carboxine	ND	0.010
Carfentrazone-ethyl	ND	0.010
Chlorantraniliprole	ND	0.010
Chlordimeform	ND	0.010
Chlorfenvinphos	ND	0.010
Chlorfluazuron	ND	0.010
Chloroxuron	ND	0.010
Chlorpyrifos	ND	0.010
Chlorpyrifos-methyl	ND	0.010
Chlortoluron	ND	0.010
Clethodim	ND	0.010
Clofentazine	ND	0.010
Clothianidin	ND	0.010
Coumaphos	ND	0.010
Cumyluron	ND	0.010
Cyanazine	ND	0.010
Cyazofamid	ND	0.010
Cycluron	ND	0.010
Cyflufenamid	ND	0.010
Cyhexatin	ND	0.010
Cymoxanil	ND	0.010
Cyproconazole (isomer)	ND	0.010
Cyprodinil	ND	0.010
Cyromazine	ND	0.010

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-2 (F)

Sample Date: 3/21/2017

EMA Sample No: 17032222-02a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import LC/MS/MS D-F

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Daimuron	ND	0.010
Diafenthiuron	ND	0.010
Diazinon	ND	0.010
Dichlorvos	ND	0.010
Diclobutrazol	ND	0.010
Dicrotophos	ND	0.010
Diethofencarb	ND	0.010
Difenoconazole	ND	0.010
Diffubenzuron	ND	0.010
Dimethenamide	ND	0.010
Dimethoate	ND	0.010
Dimethomorph	ND	0.010
Dimoxystrobin	ND	0.010
Diniconazole	ND	0.010
Dioxacarb	ND	0.010
Diuron	ND	0.010
DMST	ND	0.010
DNOC	ND	0.010
Dodine	ND	0.010
Doramectin	ND	0.010
Emamectin Ba	ND	0.010
Epoxiconazole	ND	0.010
Eprinomectin	ND	0.010
Esprocarb	ND	0.010
Ethidimuron	ND	0.010
Ethiofencarb	ND	0.010
Ethiofencarb-sulfoxide	ND	0.010
Ethion	ND	0.010
Ethiprole	ND	0.010
Ethirimol	ND	0.010
Ethofumesate	ND	0.010
Ethoprop	ND	0.010
Etobenzanid	ND	0.010
Etoxazole	ND	0.010
Famoxadone	ND	0.010
Fenamidone	ND	0.010
Fenarimol	ND	0.010
Fenazaquin	ND	0.010
Fenbuconazole	ND	0.010
Fenbutatin Oxide	ND	0.010
Fenhexamid	ND	0.010
Fenobucarb	ND	0.010
Fenoxycarb	ND	0.010
Fenpropimorph	ND	0.010
Fenpyroximate	ND	0.010
Fenuron	ND	0.010
Flonicamid	ND	0.010
Fluazifop-butyl	ND	0.010
Flubendiamide	ND	0.010
Fludioxinil	ND	0.010
Flufenacet	ND	0.010
Flufenoxuron	ND	0.010
Fluometuron	ND	0.010
Fluopicolide	ND	0.010
Fluoxastrobin	ND	0.010
Fluquinconazole	ND	0.010
Flusilazole	ND	0.010
Flutolanil	ND	0.010
Flutriafol	ND	0.010
Fomesafen	ND	0.010
Forchlorfenuron	ND	0.010
Formetanate	ND	0.010
Fuberidazole	ND	0.010
Furalaxyl	ND	0.010

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-2 (F)

Sample Date: 3/21/2017

EMA Sample No: 17032222-02a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import LC/MS/MS H-O

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Halofenozide	ND	0.010
Hexaflumuron	ND	0.010
Hexazinone	ND	0.010
Hexythiazox	ND	0.010
Hydramethylnon	ND	0.010
Imazalil	ND	0.010
Imazapyr	ND	0.010
Imazethapyr	ND	0.010
Imibenconazole	ND	0.010
Imidacloprid	ND	0.010
Indoxacarb	ND	0.010
Ipconazole	ND	0.010
Iprovalicarb	ND	0.010
Isocarbamid	ND	0.010
Isofenphos	ND	0.010
Isoprocarb	ND	0.010
Isoprothiolane	ND	0.010
Isoproturon	ND	0.010
Ivermectin	ND	0.010
Kresoxim-methyl	ND	0.010
Lactofen	ND	0.010
Linuron	ND	0.010
Malathion	ND	0.010
Mandipropamid	ND	0.010
Mefenacet	ND	0.010
Mepanipyrim	ND	0.010
Mepronil	ND	0.010
Metaflumizone	ND	0.010
Metalaxyl	ND	0.010
Metconazole	ND	0.010
Methamidophos	ND	0.010
Methfuroxam	ND	0.010
Methidathion	ND	0.010
Methiocarb	ND	0.010
Methomyl	ND	0.010
Methoprotryne	ND	0.010
Methoxyfenozide	ND	0.010
Metobromuron	ND	0.010
Metolachlor	ND	0.010
Metoxuron	ND	0.010
Metrafenone	ND	0.010
Metribuzin	ND	0.010
Metsulfuron-methyl	ND	0.010
Mevinphos	ND	0.010
Mexacarbate	ND	0.010
Molinate	ND	0.010
Monocrotophos	ND	0.010
Monolinuron	ND	0.010
Moxidectin	ND	0.010
Myclobutanil	ND	0.010
Napropamide	ND	0.010
Neburon	ND	0.010
Nitenpyram	ND	0.010
Novaluron	ND	0.010
Omethoate	ND	0.010
Oxamyl	ND	0.010
Oxadixyl	ND	0.010

R = Reported on another Screen

ND = None Detected at the Reporting Limit (RL)

Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.

Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.

Results relate only to items tested.

Samples are analyzed as received.

Reports should not be reproduced, except in full, without written consent by

Environmental Micro Analysis, Inc.

To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-2 (F)

Sample Date: 3/21/2017

EMA Sample No: 17032222-02a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import LC/MS/MS P-Trid

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Pencycuron	ND	0.010
Pendimethalin	ND	0.010
Phorate	ND	0.010
Phosmet	ND	0.010
Phoxim	ND	0.010
Picoxystrobin	ND	0.010
Piperonyl butoxide	ND	0.010
Pirimicarb	ND	0.010
Pirimiphos-methyl	ND	0.010
Prochloraz	ND	0.010
Promecarb	ND	0.010
Prometon	ND	0.010
Prometryn	ND	0.010
Propachlor	ND	0.010
Propamocarb	ND	0.010
Propargite	ND	0.010
Propazine	ND	0.010
Propham	ND	0.010
Propiconazole	ND	0.010
Propoxur	ND	0.010
Propyzamide	ND	0.010
Pymetrozin	ND	0.010
Pyracarbolid	ND	0.010
Pyraclostrobin	ND	0.010
Pyridaben	ND	0.010
Pyridaphenthion	ND	0.010
Pyrimethanil	ND	0.010
Pyriproxyfen	ND	0.010
Quinoxifen	ND	0.010
Sebuthylazine	ND	0.010
Secbumeton	ND	0.010
Sethoxydim	ND	0.010
Siduron	ND	0.010
Simazine	ND	0.010
Simetryn	ND	0.010
Spinetoram-J +L	ND	0.010
Spinosad	ND	0.010
Spirodiclofen	ND	0.010
Spiromecifen	ND	0.010
Spirotetramat	ND	0.010
Spiroxamine	ND	0.010
Sulfentrazone	ND	0.010
Tebuconazole	ND	0.010
Tebufenozide	ND	0.010
Tebufenpyrad	ND	0.010
Tebuthiuron	ND	0.010
Temephos	ND	0.010
Tepaloxymid	ND	0.010
Terbumeton	ND	0.010
Terbutryn	ND	0.010
Tetraconazole	ND	0.010
Thiabendazole	ND	0.010
Thiacloprid	ND	0.010
Thiamethoxam	ND	0.010
Thidiazuron	ND	0.010
Thiobencarb	ND	0.010
Thiofanox	ND	0.010
Thiophanate-methyl (Carbendazim)	ND	0.010
Triadimefon	ND	0.010
Triadimenol	ND	0.010
Triazophos	ND	0.010
Tricyclazole	ND	0.010
Tridemorph	ND	0.010

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Analyte	Amount ppm	RL ppm
Trifloxystrobin	ND	0.010
Triflumizole	ND	0.010
Triflumuron	ND	0.010
Triflurosulfuron-methyl	ND	0.010
Triphenyl Phosphate	ND	0.010
Triticonazole	ND	0.010
Uniconazole	ND	0.010
Vamidothion	ND	0.010
Zoxamide	ND	0.010

Project No:

PO No:

Client Sample ID: S-2 (F)

Sample Date: 3/21/2017

EMA Sample No: 17032222-02a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import LC/MS/MS Trif-Z

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes
no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of
analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by
Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Analyte

Ferbam
Maneb (Dithane M-22)
Mancozeb
Metiram
Nabam
Thiram
Zineb
Ziram

Amount ppm	RL ppm
---------------	-----------

ND	0.030
ND	0.030
ND	0.030
ND	0.030
ND	0.030
ND	0.030
ND	0.030
ND	0.030

Project No:

PO No:

Client Sample ID: S-2 (F)

Sample Date: 3/21/2017

EMA Sample No: 17032222-02a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: EBDC Screen

Extraction Method: CDFA

Date Extracted: 3/31/2017

Date Completed: 3/31/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Analyte	Amount ppm	RL ppm
2, 4 - D	ND	0.250
2, 4 -DB	ND	0.250
2, 4, 5 - T	ND	0.130
2, 4, 5 -TP	ND	0.130
Dicamba	ND	0.130
Dichloroprop	ND	0.130
Bentazon	ND	0.250
MCPA	ND	0.250
MCPP	ND	0.250
Triclopyr	ND	0.250

Project No:

PO No:

Client Sample ID: S-2 (F)

Sample Date: 3/21/2017

EMA Sample No: 17032222-02a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: EPA 8151A (s)

Extraction Method: EPA 8151A

Date Extracted: 4/4/2017

Date Completed: 4/10/2017

Surrogate: DCAA

Surrogate Level: 0.2 mg/Kg

Recovery: 95.7

Comments:

R = Reported on another Screen

ND = None Detected at the Reporting Limit (RL)

Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.

Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.

Results relate only to items tested.

Samples are analyzed as received.

Reports should not be reproduced, except in full, without written consent by

Environmental Micro Analysis, Inc.

To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-2 (F)

Sample Date: 3/21/2017

EMA Sample No: 17032222-02a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: OC Screen

Extraction Method: CDFA

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate: Dibutylchloridate

Surrogate Level: 0.013 ppm

Recovery: 83.6

Comments:

Analyte	Amount ppm	RL ppm
a, b, d-BHC	ND	0.010
Alachlor	ND	0.020
Aldrin	ND	0.010
Benfluralin	ND	0.020
Bifenox	ND	0.050
Boscalid	ND	0.020
Bromacil	ND	0.040
Captan	ND	0.040
Captan	ND	0.020
Chlordane (sum of Isomers)	ND	0.020
Chlorfenapyr	ND	0.040
Chlorobenzilate	ND	0.040
Chlorothalonil	ND	0.010
Cyanazine	ND	0.100
Dacthal	ND	0.020
DDD	ND	0.020
DDE	ND	0.020
DDT	ND	0.020
Dichlobenil	ND	0.030
Dichlone	ND	0.050
Dicloran	ND	0.020
Dicofol	ND	0.050
Dieldrin	ND	0.010
Endosulfan alpha	ND	0.010
Endosulfan beta	ND	0.010
Endosulfan sulfate	ND	0.010
Endosulfans (Total)	ND	0.010
Endrin	ND	0.010
Ethalfuralin	ND	0.030
Fenhexamid	ND	0.030
Folpet	ND	0.050
Heptachlor	ND	0.010
Heptachlor epoxide	ND	0.020
Hexachlorobenzene	ND	0.010
Indoxacarb	ND	0.030
Iprodione	ND	0.050
Lindane (gamma-BHC)	ND	0.010
Linuron	ND	0.150
Methoxychlor	ND	0.050
Metribuzin	ND	0.020
Mirex	ND	0.020
Myclobutanil	ND	0.050
Oxadiazon	ND	0.050
Oxyfluorfen	ND	0.040
Pendimethalin	ND	0.050
Pentachloronitrobenzene (PCNB)	ND	0.020
Pentachloroaniline (PCA)	ND	0.010
Perthane	ND	0.100
Polychlorinated Biphenyls	ND	0.250
Procymidone	ND	0.020
Profluralin	ND	0.020
Pronamide	ND	0.050
Propanil	ND	0.050
Tetradifon	ND	0.020
Toxaphene	ND	0.250
Triadimefon	ND	0.020
Trifloxystrobin	ND	0.030
Triflumazole	ND	0.050
Trifluralin	ND	0.020
Vegadex (Diethyldithiocarbamic Acid)	ND	0.050
Vinclozolin	ND	0.020
Dithiopyr	ND	0.020
Norflurazon	ND	0.020

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Analyte	Amount ppm	RL ppm
Bifenthrin	ND	0.020
Cyfluthrin	ND	0.040
Cypermethrin	ND	0.040
Deltamethrin	ND	0.020
Esfenvalerate	ND	0.030
Fenpropathrin	ND	0.010
Fluvalinate	ND	0.040
lambda Cyhalothrin	ND	0.010
Permethrin	ND	0.100
Tralomethrin	ND	0.020
Pyrethrins (Total)	ND	0.050

Project No:

PO No:

Client Sample ID: S-2 (F)

Sample Date: 3/21/2017

EMA Sample No: 17032222-02a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: Pyrethroid Screen

Extraction Method: CDFA

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate: Dibutylchloridate

Surrogate Level: 0.013 ppm

Recovery: 83.6

Comments:

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes
no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of
analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by
Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: **Jay Billings**
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-2 (F)

Sample Date: 3/21/2017

EMA Sample No: 17032222-02b

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: OP Screen

Extraction Method: CDFA

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate: Triphenylphosphate

Surrogate Level: 0.067 ppm

Recovery: 104

Analyte	Amount ppm	RL ppm
Acephate	ND	0.020
Azinphos-methyl	ND	0.050
Bolstar	ND	0.030
Bensulide	ND	0.050
Carbofenthiol	ND	0.020
Chlorfenvinphos	ND	0.030
Chlorpyrifos	ND	0.020
Chlorpyrifos-methyl	ND	0.030
Ciodrin	ND	0.050
Coumaphos	ND	0.050
DEF	ND	0.050
Demeton (Systox) O/S Analogues	ND	0.040
Diazinon	ND	0.030
Dibrom	ND	0.050
Dichlorvos	ND	0.030
Dicrotophos	ND	0.020
Dimethoate	ND	0.020
Disulfoton	ND	0.020
EPN	ND	0.020
Ethion	ND	0.030
Ethoprop	ND	0.050
Fenamiphos	ND	0.020
Fenitrothion	ND	0.030
Fenthion	ND	0.020
Fonofos	ND	0.040
Isofenphos	ND	0.030
Malathion	ND	0.020
Metasystox-R	ND	0.050
Methamidophos	ND	0.030
Methidathion	ND	0.030
Methyl Parathion	ND	0.030
Mevinphos	ND	0.050
O-methoate	ND	0.050
Parathion	ND	0.040
Phorate	ND	0.050
Phosalone	ND	0.050
Phosmet	ND	0.030
Phosphamidon	ND	0.020
Pirimiphos-methyl	ND	0.050
Profenofos	ND	0.020
Propetamphos	ND	0.020
Ronnel	ND	0.030
Tetrachlorvinphos	ND	0.020
Thionazin	ND	0.020

Comments:

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-2 (F)

Sample Date: 3/21/2017

EMA Sample No: 17032222-02b

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: ON Screen

Extraction Method: CDFA

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate: Triphenylphosphate

Surrogate Level: 0.067 ppm

Recovery: 104

Analyte	Amount ppm	RL ppm
Acetamipride	ND	0.050
Atrazine	ND	0.030
Azoxystrobin	ND	0.030
Benthiocarb	ND	0.050
Cyanazine	ND	0.050
Cyromazine	ND	0.050
Cyprodinil	ND	0.050
Dimethomorph	ND	0.050
Diphenyl Amine	ND	0.050
Fenamidone	ND	0.050
Fenbuconazole	ND	0.050
Fipronil	ND	0.050
Fludioxinil	ND	0.050
Hexazinone	ND	0.050
Imazalil	ND	0.050
Kresoxim Methyl	ND	0.050
Metalaxyl	ND	0.050
Metolachlor	ND	0.050
Metribuzin	ND	0.050
Molinate	ND	0.050
Myclobutanil	ND	0.050
Prometon	ND	0.050
Prometryne	ND	0.050
Propamocarb	ND	0.050
Propiconazole	ND	0.050
Pymetrozine	ND	0.050
Pyraclostrobin	ND	0.050
Pyriproxifen	ND	0.050
Sethoxydim	ND	0.050
Simazine	ND	0.050
Tebuconazole	ND	0.050
Terbacil	ND	0.050
Thiabendazole	ND	0.050
Desethyl Atrazine	ND	0.050

Comments:

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@negeo.net

Project No:

PO No:

Client Sample ID: S-3 (G)

Sample Date: 3/21/2017

EMA Sample No: 17032222-03a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import GC/MS/MS A - Cx

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Acephate	ND	0.030
Acetamiprid	ND	0.030
Acrinathrin	ND	0.010
Adiisopropyl naphthalene, 2,6- (DIPN)	ND	0.010
Alachlor	ND	0.010
Aldrin	ND	0.010
Allethrin	ND	0.010
Ametryn	ND	0.010
Aminocarb	ND	0.010
Atrazine	ND	0.010
Azinphos-methyl	ND	0.010
Azoxystrobin	ND	0.010
Benalaxyl	ND	0.010
Azoxystrobin	ND	0.010
Bendiocarb	ND	0.010
Benfluralin	ND	0.010
Benoxacor	ND	0.010
BHC-alpha (Benzene)	ND	0.010
BHC-beta	ND	0.010
BHC-delta	ND	0.010
BHC-gamma (Lindane, gamma HCH)	ND	0.010
BifenoX	ND	0.010
Bifenthrin	ND	0.010
Bioresmethrin (resmethrin-trans)	ND	0.010
Bitertanol I	ND	0.010
Bitertanol II	ND	0.010
Boscalid	ND	0.010
Bromacil	ND	0.030
Bromophos-ethyl	ND	0.010
Bromophos-methyl	ND	0.010
Bromopropylate	ND	0.010
Bupirimate	ND	0.010
Buprofezin (z-isomer)	ND	0.010
Butachlor	ND	0.010
Butralin	ND	0.010
Butylate	ND	0.030
Cadusafos	ND	0.010
Captafol	ND	0.010
Captan	ND	0.030
Carbaryl	ND	0.010
Carbofuran	ND	0.010
Carbophenothion-ethyl	ND	0.010
Carbophenothion-methyl (methyl)	ND	0.010
Carbosulfan	ND	0.030
Carboxin	ND	0.010
Chlorbenzilate	ND	0.010
Chlordane-alpha	ND	0.010
Chlordane-oxy	ND	0.010
Chlordane-trans (gamma)	ND	0.010
Chlordimeform	ND	0.010
Chlorfenapyr	ND	0.010
Chlorfenvinphos	ND	0.010
Chlorobenzilate	ND	0.010
Chloroneb	ND	0.010
Chlorothalonil	ND	0.030
Chlorpropham	ND	0.010
Chlorpyrifos-ethyl	OP	0.010
Chlorpyrifos-methyl	ND	0.010
Chlorthiophos	ND	0.010
Clomazone	ND	0.010
Coumaphos	ND	0.010
Crotoxyphos	ND	0.010

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-3 (G)

Sample Date: 3/21/2017

EMA Sample No: 17032222-03a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import GC/MS/MS Cy - D

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Cyanazine	ND	0.010
Cyanofenphos	ND	0.010
Cyanophos	ND	0.010
Cycloate	ND	0.030
Cycluron	ND	0.010
Cyfluthrin (Total)	ND	0.010
Cyhalothrin (lambda)	ND	0.010
Cymiazole	ND	0.010
Cypermethrin (Total)	ND	0.010
Cyproconazole	ND	0.010
Cyprodinil	ND	0.010
DCPA (dacthal, Chlorthal-dimethyl)	ND	0.010
DDD-o,p'	ND	0.030
DDD-p,p'	ND	0.010
DDE-o,p'	ND	0.010
DDE-p,p'	0.03	0.010
DDT-o,p'	ND	0.010
DDT-p,p'	ND	0.030
DEF (Tribufos)	ND	0.010
Deltamethrin	ND	0.010
Demeton-s-methyl	ND	0.030
Desmedipham	ND	0.010
Desmetryn	ND	0.010
Diallate I	ND	0.030
Diallate II	ND	0.010
Diazinon	ND	0.010
Diazinon-oxon (diazoxon)	ND	0.010
Dichlofenthion	ND	0.010
Dichlofluanid	ND	0.030
Dichlorobenzonitrile, 2,6- (Dichlobenil)	ND	0.030
Dichlorvos	ND	0.030
Dichloran (Dichloran)	ND	0.030
Dicofol-o,p'	ND	0.010
Dicofol-p,p' (Kelthane)	ND	0.010
Dicrotophos (Dicrotophos)	ND	0.010
Dieldrin	ND	0.010
Diethofencarb	ND	0.010
Difenoconazole I	ND	0.010
Difenoconazole II	ND	0.010
Dimethachlor	ND	0.010
Dimethoate	ND	0.010
Dimethomorph I	ND	0.010
Dimethomorph II	ND	0.010
Diniconazole	ND	0.010
Dinitramine	ND	0.030
Dioxacarb	ND	0.030
Dioxathion	ND	0.010
Diphenamid	ND	0.010
Diphenylamine	ND	0.010
Disulfoton	ND	0.010
Disulfoton Sulfone	ND	0.010

R = Reported on another Screen

ND = None Detected at the Reporting Limit (RL)

Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.

Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.

Results relate only to items tested.

Samples are analyzed as received.

Reports should not be reproduced, except in full, without written consent by

Environmental Micro Analysis, Inc.

To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-3 (G)

Sample Date: 3/21/2017

EMA Sample No: 17032222-03a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import GC/MS/MS E - H

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Edifenphos	ND	0.010
Endosulfan I (alpha Isomer)	ND	0.010
Endosulfan II (beta Isomer)	ND	0.010
Endosulfan Sulfate	ND	0.010
Endrin	ND	0.010
Endrin Aldehyde	ND	0.030
EPN	ND	0.010
Epoxiconazole	ND	0.010
Esfenvalerate (Fenvalerate A-alpha)	ND	0.010
Etaconazole I	ND	0.010
Ethalfuralin (Sonalan)	ND	0.010
Ethiofencarb	ND	0.010
Ethiolate	ND	0.030
Ethion	ND	0.010
Ethofumesate	ND	0.010
Ethoprophos (Ethoprop)	ND	0.030
Ethoxyquin	ND	0.030
Etoxazole	ND	0.010
Etrifos	ND	0.010
Famoxadone	ND	0.010
Famphur	ND	0.010
Fenamidone	ND	0.030
Fenamiphos (Phenamiphos)	ND	0.010
Fenamiphos Sulfone	ND	0.010
Fenarimol	ND	0.010
Fenazaquin	ND	0.010
Fenbuconazole	ND	0.010
Fenfuram	ND	0.010
Fenhexamid	ND	0.010
Fenitrothion	ND	0.010
Fenobucarb	ND	0.010
Fenoxycarb	ND	0.010
Fenpropathrin	ND	0.010
Fenpropimorph	ND	0.010
Fensulfthion	ND	0.010
Fenthion	ND	0.010
Fenvalerate II	ND	0.010
Fipronil	ND	0.010
Fioncamid	ND	0.010
Fluchloralin	ND	0.010
Flucythrinate I	ND	0.010
Flucythrinate II	ND	0.010
Fludioxonil	ND	0.030
Fluopicolide	ND	0.010
Fluquiniconazole	ND	0.010
Flurenol-butyl	ND	0.010
Fluridone	ND	0.010
Flusilazole	ND	0.010
Flutolanil	ND	0.010
Flutriafol	ND	0.010
Fluvalinate I	ND	0.010
Folpet	ND	0.010
Fonofos	ND	0.010
Fuberidazole	ND	0.030
Furalaxyl	ND	0.010
Heptaclor	ND	0.010
Heptachlor exo-epoxide (Isomer B)	ND	0.010
Heptenophos	ND	0.010
Hexachlorobenzene	ND	0.030
Hexaconazole	ND	0.010
Hexythiazox	ND	0.030

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-3 (G)

Sample Date: 3/21/2017

EMA Sample No: 17032222-03a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import GC/MS/MS I - Pd

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Imazalil	ND	0.030
Indoxacarb	ND	0.010
Iprobenfos	ND	0.030
Iprodione	0.12	0.030
Isocarbamid (Isocarbamide)	ND	0.010
Isocarbophos	ND	0.010
Isodrin	ND	0.010
Isofenphos	ND	0.010
Isoprocab	ND	0.010
Isopropalin	ND	0.010
Isoprothiolane	ND	0.030
Isoproturon	ND	0.030
Kresoxim-methyl	ND	0.010
Lenacil	ND	0.010
Leptophos	ND	0.010
Linuron	ND	0.010
Malaoxon (metabolite of Malathion)	ND	0.010
Malathion	ND	0.010
Mecarbam	ND	0.010
Mepanipyrim	ND	0.010
Mepronil	ND	0.010
Metalaxyl	LC/MS	0.010
Metaldehyde	ND	0.030
Methidathion	ND	0.010
Methiocarb	ND	0.010
Methoprene	ND	0.030
Methoprotryne	ND	0.010
Methoxychlor, o,p'-	ND	0.010
Methoxychlor, p,p'-	ND	0.010
Metolachlor	ND	0.010
Metolcarb	ND	0.030
Metrafenone	ND	0.010
Metribuzin	ND	0.010
Mevinphos	ND	0.030
Mexacarbate	ND	0.010
MGK-264	ND	0.010
Mirex	ND	0.010
Molinate	ND	0.030
Monocrotophos	ND	0.030
Monolinuron	ND	0.010
Myclobutanil	LC/MS	0.010
Naled	ND	0.030
Naphthaleneacetamide, 1-	ND	0.010
Napropamide	ND	0.010
Nicotine	ND	1.000
Nitrofen	ND	0.010
Nitrothal-isopropyl	ND	0.010
Nonachlor, cis-	ND	0.010
Nonachlor, Trans-	ND	0.010
Nuarimol	ND	0.010
Omethoate	ND	0.010
Oxadiazon	ND	0.010
Oxadixyl	ND	0.010
Oxyflurofen	ND	0.030
Paclobutrazole	ND	0.030
Paraaxon-ethyl	ND	0.010
Paraaxon-methyl	ND	0.010
Parathion-ethyl	ND	0.010
Parathion-methyl	ND	0.010

R = Reported on another Screen

ND = None Detected at the Reporting Limit (RL)

Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.

Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.

Results relate only to items tested.

Samples are analyzed as received.

Reports should not be reproduced, except in full, without written consent by

Environmental Micro Analysis, Inc.

To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-3 (G)

Sample Date: 3/21/2017

EMA Sample No: 17032222-03a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import GC/MS/MS Pe - So

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Penconazole	ND	0.010
Pendimethalin (Penoxaline)	ND	0.010
Pentachloroaniline	0.21	0.010
Pentachloroanisole	ND	0.010
Pentachlorobenzonitrile	ND	0.010
Pentachlorothioanisole	0.04	0.010
Peopiconazole	ND	0.010
Permethrin I	ND	0.010
Permethrin II (trans)	ND	0.010
Phenothrin I	ND	0.010
Phenothrin II	ND	0.010
Phenthoate	ND	0.010
Phenylphenol, 2-	ND	0.010
Phorate	ND	0.010
Phorate sulfone	ND	0.010
Phorate sulfoxide	ND	0.010
Phosalone	ND	0.010
Phosmet	ND	0.010
Phosmet oxon	ND	0.030
Phosphamidon I	ND	0.010
Phosphamidon II	ND	0.010
Piperonyl Butoxide	ND	0.010
Pirimicarb	ND	0.010
Pirimiphos-ethyl	ND	0.010
Pirimiphos-methyl	ND	0.010
Prochloraz	ND	0.010
Procymidone	ND	0.010
Prodiamine	ND	0.030
Profenofos	ND	0.010
Profluralin	ND	0.010
Promecarb	ND	0.010
Prometon	ND	0.010
Prometryn	ND	0.010
Pronamide (Propyzamide)	ND	0.010
Propachlor	ND	0.010
Propanil	ND	0.010
Propargite	ND	0.010
Propetamphos	ND	0.010
Propham	ND	0.030
Propiconazole I	LC/MS	0.010
Propiconazole II	ND	0.010
Propoxur	ND	0.010
Pyracarbolid	ND	0.010
Pyraclostrobin	ND	0.030
Pyrazophos	ND	0.010
Pyridaben	ND	0.010
Pyridaphenthion	ND	0.010
Pyriphenox I	ND	0.010
Pyriphenox II	ND	0.010
Pyrimethanil	ND	0.010
Pyriproxyfen	ND	0.010
Quinalphos	ND	0.010
Quinoxifen	ND	0.010
Quintozone	ND	0.010
Resmethrin -cis (cismethrin)	ND	0.010
Ronnel (Fenclorophos)	ND	0.010
Sebumeon	ND	0.010
Simazine	ND	0.010
Simetryn	ND	0.010
Pentachlorobenzene	0.06	0.010

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-3 (G)

Sample Date: 3/21/2017

EMA Sample No: 17032222-03a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import GC/MS/MS Sp - Z

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Analyte

Amount
ppm

RL
ppm

Spiroclufen	ND	0.030
Spiromesifen	ND	0.030
Spiroxamine I	ND	0.010
Spiroxamine II	ND	0.010
Sulfotep	ND	0.010
Sulprofos	ND	0.030
Tebuconazole	LC/MS	0.010
Tebuconazole	ND	0.010
Tebupirimfos	ND	0.010
Tebutam	ND	0.010
Tebuthiuron	ND	0.010
Tecnazene (TCNB)	ND	0.010
Tefluthrin, cis-	ND	0.010
Terbacil	ND	0.010
Terbufos	ND	0.010
Terbutometon	ND	0.030
Terbutylazine	ND	0.030
Tetrachloraniline, 2,3,5,6-	ND	0.010
Tetrachlorvinphos, e-isomer	ND	0.010
Tetraconazole	ND	0.010
Tetradifon	ND	0.010
Tetrahydrophthalimide, cis-1,2,3,6-	ND	0.010
Tetrahydrophthalimide, cis-Delta 4-	ND	0.030
Tetramethrin I	ND	0.010
Tetramethrin II	ND	0.010
Thiabendazole	ND	0.030
Thiamethoxam	ND	0.010
Thionazin	ND	0.030
Tolclofos-methyl	ND	0.010
Tolylfluanid	ND	0.010
Triadimefon	LC/MS	0.010
Triadimenol	LC/MS	0.010
Triazophos	ND	0.010
Tricyclazole	ND	0.030
Trifloxystrobin	ND	0.010
Triflunizole	ND	0.010
Trifluralin	ND	0.010
Trimethacarb, 2,3,5-	ND	0.010
Trimethacarb, 3,4,5-	ND	0.010
Trimidol (Nuairimol)	ND	0.010
Triticonazole	ND	0.010
Vernolate	ND	0.030
Vinclozolin	ND	0.010

Comments:

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-3 (G)

Sample Date: 3/21/2017

EMA Sample No: 17032222-03a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import LC/MS/MS A-C

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
3-Hydroxycarbofuran	ND	0.010
Acephate	ND	0.010
Acetamidiprid	ND	0.010
Acetochlor	ND	0.010
Acibenzolar-S-methyl	ND	0.010
Alanycarb	ND	0.010
Aldicarb-sulfone	ND	0.010
Aldicarb-sulfoxide	ND	0.010
Ametryn	ND	0.010
Amicarbazone	ND	0.010
Aminocarb	ND	0.010
Aspon	ND	0.010
Atrazine	ND	0.010
Avermectin Ba	ND	0.010
Azinphos-methyl	ND	0.010
Azoxystrobin	ND	0.010
Benalaxyl	ND	0.010
Bendiocarb	ND	0.010
Benfuracarb	ND	0.010
Bensulide	ND	0.010
Benzoximate	ND	0.010
Bifenazate	ND	0.010
Bitertanol	ND	0.010
Boscalid	ND	0.010
Bromuconazole (isomer)	ND	0.010
Bupirimate	ND	0.010
Buprofezin	ND	0.010
Butafenacil	ND	0.010
Butocarboxim	ND	0.010
Carbaryl	ND	0.010
Carbendazim	0.01	0.010
Carbetamide	ND	0.010
Carbofuran	ND	0.010
Carbosulfan	ND	0.010
Carboxine	ND	0.010
Carfentrazone-ethyl	ND	0.010
Chlorantraniliprole	0.02	0.010
Chlordimeform	ND	0.010
Chlorfenvinphos	ND	0.010
Chlorfluazuron	ND	0.010
Chloroxuron	ND	0.010
Chlorpyrifos	OP	0.010
Chlorpyrifos-methyl	ND	0.010
Chlortoluron	ND	0.010
Clethodim	ND	0.010
Clofentezine	ND	0.010
Clothianidin	ND	0.010
Coumaphos	ND	0.010
Cumyluron	ND	0.010
Cyanazine	ND	0.010
Cyazofamid	ND	0.010
Cycluron	ND	0.010
Cyflufenamid	ND	0.010
Cyhexatin	ND	0.010
Cymoxanil	ND	0.010
Cyproconazole (isomer)	ND	0.010
Cyprodinil	ND	0.010
Cyromazine	ND	0.010

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@engeo.net

Project No:

PO No:

Client Sample ID: S-3 (G)

Sample Date: 3/21/2017

EMA Sample No: 17032222-03a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import LC/MS/MS D-F

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Daimuron	ND	0.010
Diafenthiuron	ND	0.010
Diazinon	ND	0.010
Dichlorvos	ND	0.010
Diclobutrazol	ND	0.010
Diclotophos	ND	0.010
Diethofencarb	ND	0.010
Difenoconazole	ND	0.010
Diffubenzuron	ND	0.010
Dimethenamide	ND	0.010
Dimethoate	ND	0.010
Dimethomorph	ND	0.010
Dimoxystrobin	ND	0.010
Diniconazole	ND	0.010
Dioxacarb	ND	0.010
Diuron	ND	0.010
DMST	ND	0.010
DNOC	ND	0.010
Dodine	ND	0.010
Doramectin	ND	0.010
Emamectin Ba	ND	0.010
Epoxiconazole	ND	0.010
Eprinomectin	ND	0.010
Esprocarb	ND	0.010
Ethidimuron	ND	0.010
Ethiofencarb	ND	0.010
Ethiofencarb-sulfoxide	ND	0.010
Ethion	ND	0.010
Ethiprole	ND	0.010
Ethirimol	ND	0.010
Ethofumesate	ND	0.010
Ethoprop	ND	0.010
Etobenzanid	ND	0.010
Etioazole	ND	0.010
Famoxadone	ND	0.010
Fenamidone	ND	0.010
Fenarimol	ND	0.010
Fenazaquin	ND	0.010
Fenbuconazole	ND	0.010
Fenbutatin Oxide	ND	0.010
Fenhexamid	ND	0.010
Fenobucarb	ND	0.010
Fenoxycarb	ND	0.010
Fenpropimorph	ND	0.010
Fenpyroximate	ND	0.010
Fenuron	ND	0.010
Flonicamid	ND	0.010
Fluazifop-butyl	ND	0.010
Flubendiamide	ND	0.010
Fludioxinil	ND	0.010
Flufenacet	ND	0.010
Flufenoxuron	ND	0.010
Fluometuron	ND	0.010
Fluopicolide	ND	0.010
Fluoxastrobin	ND	0.010
Fluquinconazole	ND	0.010
Flusilazole	ND	0.010
Flutolanil	ND	0.010
Flutriafol	ND	0.010
Fomesafen	ND	0.010
Forchlorfenuron	ND	0.010
Formetanate	ND	0.010
Fuberidazole	ND	0.010
Furalaxyl	ND	0.010

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-3 (G)

Sample Date: 3/21/2017

EMA Sample No: 17032222-03a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import LC/MS/MS H-O

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Halofenozide	ND	0.010
Hexaflumuron	ND	0.010
Hexazinone	ND	0.010
Hexythiazox	ND	0.010
Hydramethylnon	ND	0.010
Imazalil	ND	0.010
Imazapyr	ND	0.010
Imazethapyr	ND	0.010
Imibenconazole	ND	0.010
Imidacloprid	ND	0.010
Indoxacarb	ND	0.010
Ipconazole	ND	0.010
Iprovalicarb	ND	0.010
Isocarbamid	ND	0.010
Isofenphos	ND	0.010
Isoprocab	ND	0.010
Isoprothiolane	ND	0.010
Isoproturon	ND	0.010
Ivermectin	ND	0.010
Kresoxim-methyl	ND	0.010
Lactofen	ND	0.010
Linuron	ND	0.010
Malathion	ND	0.010
Mandipropamid	ND	0.010
Mefenacet	ND	0.010
Mepanipyrim	ND	0.010
Mepronil	ND	0.010
Metaflumizone	ND	0.010
Metalaxyl	0.04	0.010
Metconazole	ND	0.010
Methamidophos	ND	0.010
Methfuroxam	ND	0.010
Methidathion	ND	0.010
Methiocarb	ND	0.010
Methomyl	ND	0.010
Methoprotrene	ND	0.010
Methoxyfenozide	ND	0.010
Metobromuron	ND	0.010
Metolachlor	ND	0.010
Metoxuron	ND	0.010
Metrafenone	ND	0.010
Metribuzin	ND	0.010
Metsulfuron-methyl	ND	0.010
Mevinphos	ND	0.010
Mexacarbate	ND	0.010
Molinate	ND	0.010
Monocrotophos	ND	0.010
Monolinuron	ND	0.010
Moxidectin	ND	0.010
Myclobutanil	0.05	0.010
Napropamide	ND	0.010
Neburon	ND	0.010
Nitenpyram	ND	0.010
Novaluron	ND	0.010
Omethoate	ND	0.010
Oxamyl	ND	0.010
Oxadixyl	ND	0.010

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@engeo.net

Project No:

PO No:

Client Sample ID: S-3 (G)

Sample Date: 3/21/2017

EMA Sample No: 17032222-03a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import LC/MS/MS P-Trid

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Pencycuron	ND	0.010
Pendimethalin	ND	0.010
Phorate	ND	0.010
Phosmet	ND	0.010
Phoxim	ND	0.010
Picoxystrobin	ND	0.010
Piperonyl butoxide	ND	0.010
Pirimicarb	ND	0.010
Pirimiphos-methyl	ND	0.010
Prochloraz	ND	0.010
Promecarb	ND	0.010
Prometon	ND	0.010
Prometryn	ND	0.010
Propachlor	ND	0.010
Propamocarb	ND	0.010
Propargite	ND	0.010
Propazine	ND	0.010
Propham	ND	0.010
Propiconazole	0.04	0.010
Propoxur	ND	0.010
Propyzamide	ND	0.010
Pymetrozin	ND	0.010
Pyracarbolid	ND	0.010
Pyraclostrobin	ND	0.010
Pyridaben	ND	0.010
Pyridaphenthion	ND	0.010
Pyrimethanil	ND	0.010
Pyriproxyfen	ND	0.010
Quinoxifen	ND	0.010
Sebuthylazine	ND	0.010
Secbumeton	ND	0.010
Sethoxydim	ND	0.010
Siduron	ND	0.010
Simazine	ND	0.010
Simetryn	ND	0.010
Spinetoram-J +L	ND	0.010
Spinosad	ND	0.010
Spirodiclofen	ND	0.010
Spiromecifen	ND	0.010
Spirotetramat	ND	0.010
Spiroxamine	ND	0.010
Sulfentrazone	ND	0.010
Tebuconazole	0.09	0.010
Tebufozide	ND	0.010
Tebufofenpyrad	ND	0.010
Tebuithuron	ND	0.010
Temephos	ND	0.010
Tepraloxymid	ND	0.010
Terbumeton	ND	0.010
Terbutryn	ND	0.010
Tetraconazole	ND	0.010
Thiabendazole	ND	0.010
Thiacloprid	ND	0.010
Thiamethoxam	ND	0.010
Thidiazuron	ND	0.010
Thiobencarb	ND	0.010
Thiofanox	ND	0.010
Thiophanate-methyl (Carbendazim)	ND	0.010
Triadimefon	0.01	0.010
Triadimenol	0.09	0.010
Triazophos	ND	0.010
Tricyclazole	ND	0.010
Tridemorph	ND	0.010

R = Reported on another Screen

ND = None Detected at the Reporting Limit (RL)

Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.

Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.

Results relate only to items tested.

Samples are analyzed as received.

Reports should not be reproduced, except in full, without written consent by

Environmental Micro Analysis, Inc.

To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Analyte	Amount ppm	RL ppm
Trifloxystrobin	ND	0.010
Triflumizole	ND	0.010
Triflumuron	ND	0.010
Triflurosulfuron-methyl	ND	0.010
Triphenyl Phosphate	ND	0.010
Triticonazole	ND	0.010
Uniconazole	ND	0.010
Vamidothion	ND	0.010
Zoxamide	ND	0.010

Project No:

PO No:

Client Sample ID: S-3 (G)

Sample Date: 3/21/2017

EMA Sample No: 17032222-03a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import LC/MS/MS Trif-Z

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Analyte

Ferbam
Maneb (Dithane M-22)
Mancozeb
Metiram
Nabam
Thiram
Zineb
Ziram

Amount
ppm

RL
ppm
ND 0.030
ND 0.030
ND 0.030
ND 0.030
ND 0.030
ND 0.030
ND 0.030
ND 0.030

Project No:

PO No:

Client Sample ID: S-3 (G)

Sample Date: 3/21/2017

EMA Sample No: 17032222-03a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: EBDC Screen

Extraction Method: CDFA

Date Extracted: 3/31/2017

Date Completed: 3/31/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

R = Reported on another Screen

ND = None Detected at the Reporting Limit (RL)

Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.

Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.

Results relate only to items tested.

Samples are analyzed as received.

Reports should not be reproduced, except in full, without written consent by

Environmental Micro Analysis, Inc.

To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Analyte	Amount ppm	RL ppm
2, 4 - D	ND	0.250
2, 4 -DB	ND	0.250
2, 4, 5 - T	ND	0.130
2, 4, 5 -TP	ND	0.050
Dicamba	ND	0.130
Dichloroprop	ND	0.130
Bentazon	ND	0.250
MCPA	ND	0.250
MCPP	ND	0.250
Triclopyr	ND	0.250

Project No:

PO No:

Client Sample ID: S-3 (G)

Sample Date: 3/21/2017

EMA Sample No: 17032222-03a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: EPA 8151A (s)

Extraction Method: EPA 8151A

Date Extracted: 4/4/2017

Date Completed: 4/10/2017

Surrogate: DCAA

Surrogate Level: 0.2 mg/Kg

Recovery: 46.8

Comments:

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@negeo.net

Project No:

PO No:

Client Sample ID: S-3 (G)

Sample Date: 3/21/2017

EMA Sample No: 17032222-03a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: OC Screen

Extraction Method: CDFA

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate: Dibutylchloridate

Surrogate Level: 0.013 ppm

Recovery: 157

Comments:

Analyte	Amount ppm	RL ppm
a, b, d-BHC	ND	0.010
Alachlor	ND	0.020
Aldrin	ND	0.010
Benfluralin	ND	0.020
Bifenox	ND	0.050
Boscalid	ND	0.020
Bromacil	ND	0.040
Captafol	ND	0.040
Captan	ND	0.020
Chlordane (sum of Isomers)	ND	0.020
Chlorfenapyr	ND	0.040
Chlorobenzilate	ND	0.040
Chlorothalonil	ND	0.010
Cyanazine	ND	0.100
Dacthal	ND	0.020
DDD	ND	0.020
DDE	GC/MS	0.020
DDT	ND	0.020
Dichlobenil	ND	0.030
Dichlone	ND	0.050
Dicloran	ND	0.020
Dicofol	ND	0.050
Dieldrin	ND	0.010
Endosulfan alpha	ND	0.010
Endosulfan beta	ND	0.010
Endosulfan sulfate	ND	0.010
Endosulfans (Total)	ND	0.010
Endrin	ND	0.010
Ethalfuralin	ND	0.030
Fenhexamid	ND	0.030
Folpet	ND	0.050
Heptachlor	ND	0.010
Heptachlor epoxide	ND	0.020
Hexachlorobenzene	ND	0.010
Indoxacarb	ND	0.030
Iprodione	GC/MS	0.050
Lindane (gamma-BHC)	ND	0.010
Linuron	ND	0.150
Methoxychlor	ND	0.050
Metribuzin	ND	0.020
Mirex	ND	0.020
Myclobutanil	LC/MS	0.050
Oxadiazon	ND	0.050
Oxyfluorfen	ND	0.040
Pendimethalin	ND	0.050
Pentachloronitrobenzene (PCNB)	ND	0.020
Pentachloroaniline (PCA)	ND	0.010
Perthane	ND	0.100
Polychlorinated Biphenyls	ND	0.250
Procymidone	ND	0.020
Profluralin	ND	0.020
Pronamide	ND	0.050
Propanil	ND	0.050
Tetradifon	ND	0.020
Toxaphene	ND	0.250
Triadimefon	ND	0.020
Trifloxystrobin	ND	0.030
Triflumazole	ND	0.050
Trifluralin	ND	0.020
Vegadex (Diethyldithiocarbamic Acid)	ND	0.050
Vinclozolin	ND	0.020
Dithiopyr	ND	0.020
Norflurazon	ND	0.020

R = Reported on another Screen

ND = None Detected at the Reporting Limit (RL)

Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.

Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.

Results relate only to items tested.

Samples are analyzed as received.

Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.

To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@negeo.net

Analyte	Amount ppm	RL ppm
Bifenthrin	ND	0.020
Cyfluthrin	ND	0.040
Cypermethrin	ND	0.040
Deltamethrin	ND	0.020
Esfenvalerate	ND	0.030
Fenpropathrin	ND	0.010
Fluvalinate	ND	0.040
lambda Cyhalothrin	ND	0.010
Permethrin	ND	0.100
Tralomethrin	ND	0.020
Pyrethrins (Total)	ND	0.050

Project No:

PO No:

Client Sample ID: S-3 (G)

Sample Date: 3/21/2017

EMA Sample No: 17032222-03a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: Pyrethroid Screen

Extraction Method: CDFA

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate: Dibutylchloridate

Surrogate Level: 0.013 ppm

Recovery: 157

Comments:

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes
no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of
analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by
Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@engeo.net

Project No:

PO No:

Client Sample ID: S-3 (G)

Sample Date: 3/21/2017

EMA Sample No: 17032222-03b

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: OP Screen

Extraction Method: CDFA

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate: Triphenylphosphate

Surrogate Level: 0.067 ppm

Recovery: 117

Analyte	Amount ppm	RL ppm
Acephate	ND	0.020
Azinphos-methyl	ND	0.050
Bolstar	ND	0.030
Bensulide	ND	0.050
Carbofenthiol	ND	0.020
Chlorfenvinphos	ND	0.030
Chlorpyrifos	0.03	0.020
Chlorpyrifos-methyl	ND	0.030
Ciodrin	ND	0.050
Coumaphos	ND	0.050
DEF	ND	0.050
Demeton (Systox) O/S Analogues	ND	0.040
Diazinon	ND	0.030
Dibrom	ND	0.050
Dichlorvos	ND	0.030
Dicrotophos	ND	0.020
Dimethoate	ND	0.020
Disulfoton	ND	0.020
EPN	ND	0.020
Ethion	ND	0.030
Ethoprop	ND	0.050
Fenamiphos	ND	0.020
Fenitrothion	ND	0.030
Fenthion	ND	0.020
Fonofos	ND	0.040
Isofenphos	ND	0.030
Malathion	ND	0.020
Metasystox-R	ND	0.050
Methamidophos	ND	0.030
Methidathion	ND	0.030
Methyl Parathion	ND	0.030
Mevinphos	ND	0.050
O-methoate	ND	0.050
Parathion	ND	0.040
Phorate	ND	0.050
Phosalone	ND	0.050
Phosmet	ND	0.030
Phosphamidon	ND	0.020
Pyrimiphos-methyl	ND	0.050
Profenofos	ND	0.020
Propetamphos	ND	0.020
Ronnel	ND	0.030
Tetrachlorvinphos	ND	0.020
Thionazin	ND	0.020

Comments:

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-3 (G)

Sample Date: 3/21/2017

EMA Sample No: 17032222-03b

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: ON Screen

Extraction Method: CDFA

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate: Triphenylphosphate

Surrogate Level: 0.067 ppm

Recovery: 117

Analyte	Amount ppm	RL ppm
Acetamipride	ND	0.050
Atrazine	ND	0.030
Azoxystrobin	ND	0.030
Benthiocarb	ND	0.050
Cyanazine	ND	0.050
Cyromazine	ND	0.050
Cyprodinil	ND	0.050
Dimethomorph	ND	0.050
Diphenyl Amine	ND	0.050
Fenamidone	ND	0.050
Fenbuconazole	ND	0.050
Fipronil	ND	0.050
Fludioxinil	ND	0.050
Hexazinone	ND	0.050
Imazalil	ND	0.050
Kresoxim Methyl	ND	0.050
Metalaxyl	LC/MS	0.050
Metolachlor	ND	0.050
Metribuzin	ND	0.050
Molinate	ND	0.050
Myclobutanil	LC/MS	0.050
Prometon	ND	0.050
Prometryne	ND	0.050
Propamocarb	ND	0.050
Propiconazole	LC/MS	0.050
Pymetrozine	ND	0.050
Pyraclostrobin	ND	0.050
Pyriproxifen	ND	0.050
Sethoxydim	ND	0.050
Simazine	ND	0.050
Tebuconazole	LC/MS	0.050
Terbacil	ND	0.050
Thiabendazole	ND	0.050
Desethyl Atrazine	ND	0.050

Comments:

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngs.net

Project No:

PO No:

Client Sample ID: S-4 (S)

Sample Date: 3/21/2017

EMA Sample No: 17032222-04a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import GC/MS/MS A - Cx

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Acephate	ND	0.030
Acetamiprid	ND	0.030
Acrinathrin	ND	0.010
Adiisopropyl naphthalene, 2,6- (DIPN)	ND	0.010
Alachlor	ND	0.010
Aldrin	ND	0.010
Allethrin	ND	0.010
Ametryn	ND	0.010
Aminocarb	ND	0.010
Atrazine	ND	0.010
Azinphos-methyl	ND	0.010
Azoxystrobin	ND	0.010
Benalaxyl	ND	0.010
Azoxystrobin	ND	0.010
Bendiocarb	ND	0.010
Benfluralin	ND	0.010
Benoxacor	ND	0.010
BHC-alpha (Benzene)	ND	0.010
BHC-beta	ND	0.010
BHC-delta	ND	0.010
BHC-gamma (Lindane, gamma HCH)	ND	0.010
Bifenox	ND	0.010
Bifenthrin	ND	0.010
Bioresmethrin (resmethrin-trans)	ND	0.010
Bitertanol I	ND	0.010
Bitertanol II	ND	0.010
Boscalid	ND	0.010
Bromacil	ND	0.030
Bromophos-ethyl	ND	0.010
Bromophos-methyl	ND	0.010
Bromopropylate	ND	0.010
Bupirimate	ND	0.010
Buprofezin (z-isomer)	ND	0.010
Butachlor	ND	0.010
Butralin	ND	0.010
Butylate	ND	0.030
Cadusafos	ND	0.010
Captafol	ND	0.010
Captan	ND	0.030
Carbaryl	ND	0.010
Carbofuran	ND	0.010
Carbophenothion-ethyl	ND	0.010
Carbophenothion-methyl (methyl)	ND	0.010
Carbosulfan	ND	0.030
Carboxin	ND	0.010
Chlorbenzilate	ND	0.010
Chlordane-alpha	ND	0.010
Chlordane-oxy	ND	0.010
Chlordane-trans (gamma)	ND	0.010
Chlordimeform	ND	0.010
Chlorfenapyr	ND	0.010
Chlorfenvinphos	ND	0.010
Chlorobenzilate	ND	0.010
Chloroneb	ND	0.010
Chlorothalonil	ND	0.030
Chlorpropham	ND	0.010
Chlorpyrifos-ethyl	ND	0.010
Chlorpyrifos-methyl	ND	0.010
Chlorthiophos	ND	0.010
Clomazone	ND	0.010
Coumaphos	ND	0.010
Crotoxyphos	ND	0.010

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-4 (S)

Sample Date: 3/21/2017

EMA Sample No: 17032222-04a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import GC/MS/MS Cy - D

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Cyanazine	ND	0.010
Cyanofenphos	ND	0.010
Cyanophos	ND	0.010
Cycloate	ND	0.030
Cycluron	ND	0.010
Cyfluthrin (Total)	ND	0.010
Cyhalothrin (lambda)	ND	0.010
Cymiazole	ND	0.010
Cypermethrin (Total)	ND	0.010
Cyproconazole	ND	0.010
Cyprodinil	ND	0.010
DCPA (dacthal, Chlorthal-dimethyl)	ND	0.010
DDD-o,p'	ND	0.030
DDD-p,p'	ND	0.010
DDE-o,p'	ND	0.010
DDE-p,p'	ND	0.010
DDT-o,p'	ND	0.010
DDT-p,p'	ND	0.030
DEF (Tribufos)	ND	0.010
Deltamethrin	ND	0.010
Demeton-s-methyl	ND	0.030
Desmedipham	ND	0.010
Desmetryn	ND	0.010
Diallate I	ND	0.030
Diallate II	ND	0.010
Diazinon	ND	0.010
Diazinon-oxon (diazoxon)	ND	0.010
Dichlofenthion	ND	0.010
Dichlofluanid	ND	0.030
Dichlorobenzonitrile, 2,6- (Dichlobenil)	ND	0.030
Dichlorvos	ND	0.030
Dichloran (Dichloran)	ND	0.030
Dicofol-o,p'	ND	0.010
Dicofol-p,p' (Kelthane)	ND	0.010
Dicrotophos (Dicrotophos)	ND	0.010
Dieldrin	ND	0.010
Diethofencarb	ND	0.010
Difenoconazole I	ND	0.010
Difenoconazole II	ND	0.010
Dimethachlor	ND	0.010
Dimethoate	ND	0.010
Dimethomorph I	ND	0.010
Dimethomorph II	ND	0.010
Diniconazole	ND	0.010
Dinitramine	ND	0.030
Dioxacarb	ND	0.030
Dioxathion	ND	0.010
Diphenamid	ND	0.010
Diphenylamine	ND	0.010
Disulfoton	ND	0.010
Disulfoton Sulfone	ND	0.010

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-4 (S)

Sample Date: 3/21/2017

EMA Sample No: 17032222-04a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import GC/MS/MS E - H

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Edifenphos	ND	0.010
Endosulfan I (alpha Isomer)	ND	0.010
Endosulfan II (beta Isomer)	ND	0.010
Endosulfan Sulfate	ND	0.010
Endrin	ND	0.010
Endrin Aldehyde	ND	0.030
EPN	ND	0.010
Epoxiconazole	ND	0.010
Esfenvalerate (Fenvalerate A-alpha)	ND	0.010
Etaconazole I	ND	0.010
Ethalfuralin (Sonalan)	ND	0.010
Ethiofencarb	ND	0.010
Ethiolate	ND	0.030
Ethion	ND	0.010
Ethofumesate	ND	0.010
Ethoprophos (Ethoprop)	ND	0.030
Ethoxyquin	ND	0.030
Etoxazole	ND	0.010
Etrifos	ND	0.010
Famoxadone	ND	0.010
Famphur	ND	0.010
Fenamidone	ND	0.030
Fenamiphos (Phenamiphos)	ND	0.010
Fenamiphos Sulfone	ND	0.010
Fenarimol	ND	0.010
Fenazaquin	ND	0.010
Fenbuconazole	ND	0.010
Fenfuram	ND	0.010
Fenhexamid	ND	0.010
Fenitrothion	ND	0.010
Fenobucarb	ND	0.010
Fenoxycarb	ND	0.010
Fenpropathrin	ND	0.010
Fenpropimorph	ND	0.010
Fensulfathion	ND	0.010
Fenthion	ND	0.010
Fenvalerate II	ND	0.010
Fipronil	ND	0.010
Flonicamid	ND	0.010
Fluchloralin	ND	0.010
Flucythrinate I	ND	0.010
Flucythrinate II	ND	0.010
Fludioxonil	ND	0.030
Fluopicolide	ND	0.010
Fluquiniconazole	ND	0.010
Flurenol-butyl	ND	0.010
Fluridone	ND	0.010
Flusilazole	ND	0.010
Flutolanil	ND	0.010
Flutriafol	ND	0.010
Fluvalinate I	ND	0.010
Folpet	ND	0.010
Fonofos	ND	0.010
Fuberidazole	ND	0.030
Furalaxyl	ND	0.010
Heptachlor	ND	0.010
Heptachlor exo-epoxide (Isomer B)	ND	0.010
Heptenophos	ND	0.010
Hexachlorobenzene	ND	0.030
Hexaconazole	ND	0.010
Hexythiazox	ND	0.030

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-4 (S)

Sample Date: 3/21/2017

EMA Sample No: 17032222-04a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import GC/MS/MS I - Pd

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Imazalil	ND	0.030
Indoxacarb	ND	0.010
Iprobenfos	ND	0.030
Iprodione	ND	0.030
Isocarbamid (Isocarbamide)	ND	0.010
Isocarbophos	ND	0.010
Isodrin	ND	0.010
Isufenphos	ND	0.010
Isoprocarb	ND	0.010
Isopropalin	ND	0.010
Isoprothiolane	ND	0.030
Isoproturon	ND	0.030
Kresoxim-methyl	ND	0.010
Lenacil	ND	0.010
Leptophos	ND	0.010
Linuron	ND	0.010
Malaaxon (metabolite of Malathion)	ND	0.010
Malathion	ND	0.010
Mecarbam	ND	0.010
Mepanipyrim	ND	0.010
Mepronil	ND	0.010
Metalaxyl	ND	0.010
Metaldehyde	ND	0.030
Methidathion	ND	0.010
Methiocarb	ND	0.010
Methoprene	ND	0.030
Methoprotryne	ND	0.010
Methoxychlor, o,p'-	ND	0.010
Methoxychlor, p,p'-	ND	0.010
Metolachlor	ND	0.010
Metolcarb	ND	0.030
Metrafenone	ND	0.010
Metribuzin	ND	0.010
Mevinphos	ND	0.030
Mexacarbate	ND	0.010
MGK-264	ND	0.010
Mirex	ND	0.010
Molinate	ND	0.030
Monocrotophos	ND	0.030
Monolinuron	ND	0.010
Myclobutanil	ND	0.010
Naled	ND	0.030
Naphthaleneacetamide, 1-	ND	0.010
Napropamide	ND	0.010
Nicotine	ND	1.000
Nitrofen	ND	0.010
Nitrothal-isopropyl	ND	0.010
Nonachlor, cis-	ND	0.010
Nonachlor, Trans-	ND	0.010
Nuarimol	ND	0.010
Omethoate	ND	0.010
Oxadiazon	ND	0.010
Oxadixyl	ND	0.010
Oxyflurofen	ND	0.030
Paclobutrazole	ND	0.030
Paraaxon-ethyl	ND	0.010
Paraaxon-methyl	ND	0.010
Parathion-ethyl	ND	0.010
Parathion-methyl	ND	0.010

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-4 (S)

Sample Date: 3/21/2017

EMA Sample No: 17032222-04a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import GC/MS/MS Pe - So

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Penconazole	ND	0.010
Pendimethalin (Penoxaline)	ND	0.010
Pentachloroaniline	ND	0.010
Pentachloroanisole	ND	0.010
Pentachlorobenzonitrile	ND	0.010
Pentachlorothioanisole	ND	0.010
Peopiconazole	ND	0.010
Permethrin I	ND	0.010
Permethrin II (trans)	ND	0.010
Phenothrin I	ND	0.010
Phenothrin II	ND	0.010
Phenthoate	ND	0.010
Phenylphenol, 2-	ND	0.010
Phorate	ND	0.010
Phorate sulfone	ND	0.010
Phorate sulfoxide	ND	0.010
Phosalone	ND	0.010
Phosmet	ND	0.010
Phosmet oxon	ND	0.030
Phosphamidon I	ND	0.010
Phosphamidon II	ND	0.010
Piperonyl Butoxide	ND	0.010
Pirimicarb	ND	0.010
Pirimiphos-ethyl	ND	0.010
Pirimiphos-methyl	ND	0.010
Prochloraz	ND	0.010
Procymidone	ND	0.010
Prodiamine	ND	0.030
Profenofos	ND	0.010
Profluralin	ND	0.010
Promecarb	ND	0.010
Prometon	ND	0.010
Prometryn	ND	0.010
Pronamide (Propyzamide)	ND	0.010
Propachlor	ND	0.010
Propanil	ND	0.010
Propargite	ND	0.010
Propetamphos	ND	0.010
Propham	ND	0.030
Propiconazole I	ND	0.010
Propiconazole II	ND	0.010
Propoxur	ND	0.010
Pyracarbolid	ND	0.010
Pyraclostrobin	ND	0.030
Pyrazophos	ND	0.010
Pyridaben	ND	0.010
Pyridaphenthion	ND	0.010
Pyrifinex I	ND	0.010
Pyrifinex II	ND	0.010
Pyrimethanil	ND	0.010
Pyriproxyfen	ND	0.010
Quinalphos	ND	0.010
Quinoxifen	ND	0.010
Quintozene	ND	0.010
Resmethrin -cis (cismethrin)	ND	0.010
Ronnel (Fenchlorphos)	ND	0.010
Sebumeton	ND	0.010
Simazine	ND	0.010
Simetryn	ND	0.010

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

April 26, 2017

Project No:

PO No:

Client Sample ID: S-4 (S)

Sample Date: 3/21/2017

EMA Sample No: 17032222-04a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import GC/MS/MS Sp - Z

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Spirodiclofen	ND	0.030
Spiromesifen	ND	0.030
Spiroxamine I	ND	0.010
Spiroxamine II	ND	0.010
Sulfotep	ND	0.010
Sulprofos	ND	0.030
Tebuconazole	ND	0.010
Tebufenpyrad	ND	0.010
Tebupirimfos	ND	0.010
Tebutam	ND	0.010
Tebuthiuron	ND	0.010
Tecnazene (TCNB)	ND	0.010
Tefluthrin, cis-	ND	0.010
Terbacil	ND	0.010
Terbufos	ND	0.010
Terbumeton	ND	0.030
Terbuthylazine	ND	0.030
Tetrachloraniline, 2,3,5,6-	ND	0.010
Tetrachlorvinphos, e-isomer	ND	0.010
Tetraconazole	ND	0.010
Tetradifon	ND	0.010
Tetrahydrophthalimide, cis-1,2,3,6-	ND	0.010
Tetrahydrophthalimide, cis-Delta 4-	ND	0.030
Tetramethrin I	ND	0.010
Tetramethrin II	ND	0.010
Thiabendazole	ND	0.030
Thiamethoxam	ND	0.010
Thionazin	ND	0.030
Tolclofos-methyl	ND	0.010
Tolyfluanid	ND	0.010
Triadimefon	ND	0.010
Triadimenol	ND	0.010
Triazophos	ND	0.010
Tricyclazole	ND	0.030
Trifloxystrobin	ND	0.010
Triflunizole	ND	0.010
Trifluralin	ND	0.010
Trimethacarb, 2,3,5-	ND	0.010
Trimethacarb, 3,4,5-	ND	0.010
Trimidal (Nuarimol)	ND	0.010
Triticonazole	ND	0.010
Vernolate	ND	0.030
Vinclozolin	ND	0.010

R = Reported on another Screen
 ND = None Detected at the Reporting Limit (RL)
 Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
 Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
 Results relate only to items tested.
 Samples are analyzed as received.
 Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
 To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-4 (S)

Sample Date: 3/21/2017

EMA Sample No: 17032222-04a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import LC/MS/MS A-C

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
3-Hydroxycarbofuran	ND	0.010
Acephate	ND	0.010
Acetamiprid	ND	0.010
Acetochlor	ND	0.010
Acibenzolar-S-methyl	ND	0.010
Alanycarb	ND	0.010
Aldicarb-sulfone	ND	0.010
Aldicarb-sulfoxide	ND	0.010
Ametryn	ND	0.010
Amicarbazone	ND	0.010
Aminocarb	ND	0.010
Aspon	ND	0.010
Atrazine	ND	0.010
Avermectin Ba	ND	0.010
Azinphos-methyl	ND	0.010
Azoxystrobin	ND	0.010
Benalaxyl	ND	0.010
Bendiocarb	ND	0.010
Benfuracarb	ND	0.010
Bensulide	0.02	0.010
Benzoximate	ND	0.010
Bifenazate	ND	0.010
Bitertanol	ND	0.010
Boscalid	ND	0.010
Bromuconazole (isomer)	ND	0.010
Bupirimate	ND	0.010
Buprofezin	ND	0.010
Butafenacil	ND	0.010
Butocarbexim	ND	0.010
Carbaryl	ND	0.010
Carbendazim	ND	0.010
Carbetamide	ND	0.010
Carbofuran	ND	0.010
Carbosulfan	ND	0.010
Carboxine	ND	0.010
Carfentrazone-ethyl	ND	0.010
Chlorantraniliprole	ND	0.010
Chlordimeform	ND	0.010
Chlorfenvinphos	ND	0.010
Chlorfluazuron	ND	0.010
Chloroxuron	ND	0.010
Chlorpyrifos	ND	0.010
Chlorpyrifos-methyl	ND	0.010
Chlortoluron	ND	0.010
Clethodim	ND	0.010
Clofentazine	ND	0.010
Clothianidin	ND	0.010
Coumaphos	ND	0.010
Cumyluron	ND	0.010
Cyanazine	ND	0.010
Cyazofamid	ND	0.010
Cycluron	ND	0.010
Cyflufenamid	ND	0.010
Cyhexatin	ND	0.010
Cymoxanil	ND	0.010
Cyproconazole (isomer)	ND	0.010
Cyprodinil	ND	0.010
Cyromazine	ND	0.010

R = Reported on another Screen

ND = None Detected at the Reporting Limit (RL)

Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.

Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.

Results relate only to items tested.

Samples are analyzed as received.

Reports should not be reproduced, except in full, without written consent by

Environmental Micro Analysis, Inc.

To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-4 (S)

Sample Date: 3/21/2017

EMA Sample No: 17032222-04a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import LC/MS/MS D-F

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Daimuron	ND	0.010
Diafenthion	ND	0.010
Diazinon	ND	0.010
Dichlorvos	ND	0.010
Diclobutrazol	ND	0.010
Dicrotophos	ND	0.010
Diethofencarb	ND	0.010
Difenoconazole	ND	0.010
Diiflubenzuron	ND	0.010
Dimethenamide	ND	0.010
Dimethoate	ND	0.010
Dimethomorph	ND	0.010
Dimoxystrobin	ND	0.010
Diniconazole	ND	0.010
Dioxacarb	ND	0.010
Diuron	ND	0.010
DMST	ND	0.010
DNOC	ND	0.010
Dodine	ND	0.010
Doramectin	ND	0.010
Emamectin Ba	ND	0.010
Epoxiconazole	ND	0.010
Eprinomectin	ND	0.010
Esprocarb	ND	0.010
Ethidimuron	ND	0.010
Ethiofencarb	ND	0.010
Ethiofencarb-sulfoxide	ND	0.010
Ethion	ND	0.010
Ethiprole	ND	0.010
Ethirimol	ND	0.010
Ethofumesate	ND	0.010
Ethoprop	ND	0.010
Etobenzanid	ND	0.010
Etoxadone	ND	0.010
Famoxadone	ND	0.010
Fenamidone	ND	0.010
Fenarimol	ND	0.010
Fenazaquin	ND	0.010
Fenbuconazole	ND	0.010
Fenbutatin Oxide	ND	0.010
Fenhexamid	ND	0.010
Fenobucarb	ND	0.010
Fenoxycarb	ND	0.010
Fenpropimorph	ND	0.010
Fenpyroximate	ND	0.010
Fenuron	ND	0.010
Flonicamid	ND	0.010
Fluazifop-butyl	ND	0.010
Flubendiamide	ND	0.010
Fludioxinil	ND	0.010
Flufenacet	ND	0.010
Flufenoxuron	ND	0.010
Fluometuron	ND	0.010
Fluopicolide	ND	0.010
Fluoxastrobin	ND	0.010
Fluquinconazole	ND	0.010
Flusilazole	ND	0.010
Flutolanil	ND	0.010
Flutriafol	ND	0.010
Fomesafen	ND	0.010
Forchlorfenuron	ND	0.010
Formetanate	ND	0.010
Fuberidazole	ND	0.010
Furalaxyl	ND	0.010

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: **Jay Billings**
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@nggeo.net

Project No:

PO No:

Client Sample ID: S-4 (S)

Sample Date: 3/21/2017

EMA Sample No: 17032222-04a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import LC/MS/MS H-O

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Halofenozide	ND	0.010
Hexaflumuron	ND	0.010
Hexazinone	ND	0.010
Hexythiazox	ND	0.010
Hydramethylnon	ND	0.010
Imazalil	ND	0.010
Imazapyr	ND	0.010
Imazethapyr	ND	0.010
Imibenconazole	ND	0.010
Imidacloprid	ND	0.010
Indoxacarb	ND	0.010
Ipconazole	ND	0.010
Iprovalicarb	ND	0.010
Isocarbamid	ND	0.010
Isofenphos	ND	0.010
Isoprocab	ND	0.010
Isoprothiolane	ND	0.010
Isoproturon	ND	0.010
Ivermectin	ND	0.010
Kresoxim-methyl	ND	0.010
Lactofen	ND	0.010
Linuron	ND	0.010
Malathion	ND	0.010
Mandipropamid	ND	0.010
Mefenacet	ND	0.010
Mepanipyrim	ND	0.010
Mepronil	ND	0.010
Metaflumizone	ND	0.010
Metalaxyl	ND	0.010
Metconazole	ND	0.010
Methamidophos	ND	0.010
Methfuroxam	ND	0.010
Methidathion	ND	0.010
Methiocarb	ND	0.010
Methomyl	ND	0.010
Methoprotryne	ND	0.010
Methoxyfenozide	ND	0.010
Metobromuron	ND	0.010
Metolachlor	ND	0.010
Metoxuron	ND	0.010
Metrafenone	ND	0.010
Metribuzin	ND	0.010
Metsulfuron-methyl	ND	0.010
Mevinphos	ND	0.010
Mexacarbate	ND	0.010
Molinate	ND	0.010
Monocrotophos	ND	0.010
Monolinuron	ND	0.010
Moxidectin	ND	0.010
Myclobutanil	ND	0.010
Napropamide	ND	0.010
Neburon	ND	0.010
Nitenpyram	ND	0.010
Novaluron	ND	0.010
Omethoate	ND	0.010
Oxamyl	ND	0.010
Oxadixyl	ND	0.010

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-4 (S)

Sample Date: 3/21/2017

EMA Sample No: 17032222-04a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import LC/MS/MS P-Trid

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Pencycuron	ND	0.010
Pendimethalin	ND	0.010
Phorate	ND	0.010
Phosmet	ND	0.010
Phoxim	ND	0.010
Picoxystrobin	ND	0.010
Piperonyl butoxide	ND	0.010
Pirimicarb	ND	0.010
Pirimiphos-methyl	ND	0.010
Prochloraz	ND	0.010
Promecarb	ND	0.010
Prometon	ND	0.010
Prometryn	ND	0.010
Propachlor	ND	0.010
Propamocarb	ND	0.010
Propargite	ND	0.010
Propazine	ND	0.010
Propham	ND	0.010
Propiconazole	ND	0.010
Propoxur	ND	0.010
Propyzamide	ND	0.010
Pymetrozin	ND	0.010
Pyracarbolid	ND	0.010
Pyraclostrobin	ND	0.010
Pyridaben	ND	0.010
Pyridaphenthion	ND	0.010
Pyrimethanil	ND	0.010
Pyriproxyfen	ND	0.010
Quinoxifen	ND	0.010
Sebuthylazine	ND	0.010
Secbumeton	ND	0.010
Sethoxydim	ND	0.010
Siduron	ND	0.010
Simazine	ND	0.010
Simetryn	ND	0.010
Spinetoram-J +L	ND	0.010
Spinosad	ND	0.010
Spirodiclofen	ND	0.010
Spiromecifen	ND	0.010
Spirotetramat	ND	0.010
Spiroxamine	ND	0.010
Sulfentrazone	ND	0.010
Tebuconazole	ND	0.010
Tebufenozide	ND	0.010
Tebufenpyrad	ND	0.010
Tebuthiuron	ND	0.010
Temephos	ND	0.010
Tepraloxdim	ND	0.010
Terbumeton	ND	0.010
Terbutryn	ND	0.010
Tetraconazole	ND	0.010
Thiabendazole	ND	0.010
Thiacloprid	ND	0.010
Thiamethoxam	ND	0.010
Thidiazuron	ND	0.010
Thiobencarb	ND	0.010
Thiofanox	ND	0.010
Thiophanate-methyl (Carbendazim)	ND	0.010
Triadimefon	ND	0.010
Triadimenol	ND	0.010
Triazophos	ND	0.010
Tricyclazole	ND	0.010
Tridemorph	ND	0.010

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes
no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of
analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by
Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@engeo.net

Analyte

Trifloxystrobin
Triflumizole
Triflumuron
Triflusulfuron-methyl
Triphenyl Phosphate
Triticonazole
Uniconazole
Vamidothion
Zoxamide

Amount
ppm

RL
ppm

ND 0.010
ND 0.010
ND 0.010
ND 0.010
ND 0.010
ND 0.010
ND 0.010
ND 0.010
ND 0.010

Project No:

PO No:

Client Sample ID: S-4 (S)

Sample Date: 3/21/2017

EMA Sample No: 17032222-04a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import LC/MS/MS Trif-Z

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Analyte

Ferbam
Maneb (Dithane M-22)
Mancozeb
Metiram
Nabam
Thiram
Zineb
Ziram

Amount ppm	RL ppm
ND	0.030
ND	0.030
ND	0.030
ND	0.030
ND	0.030
ND	0.030
ND	0.030
ND	0.030

Project No:

PO No:

Client Sample ID: S-4 (S)

Sample Date: 3/21/2017

EMA Sample No: 17032222-04a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: EBDC Screen

Extraction Method: CDFA

Date Extracted: 3/31/2017

Date Completed: 3/31/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Analyte	Amount ppm	RL ppm
2, 4 - D	ND	0.250
2, 4 -DB	ND	0.250
2, 4, 5 - T	ND	0.130
2, 4, 5 -TP	ND	0.130
Dicamba	ND	0.130
Dichloroprop	ND	0.130
Bentazon	ND	0.250
MCPA	ND	0.250
MCPP	ND	0.250
Triclopyr	ND	0.250

Project No:

PO No:

Client Sample ID: S-4 (S)

Sample Date: 3/21/2017

EMA Sample No: 17032222-04a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: EPA 8151A (s)

Extraction Method: EPA 8151A

Date Extracted: 4/4/2017

Date Completed: 4/10/2017

Surrogate: DCAA

Surrogate Level: 0.2 mg/Kg

Recovery: 71.0

Comments:

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes
no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of
analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by
Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-4 (S)

Sample Date: 3/21/2017

EMA Sample No: 17032222-04a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: OC Screen

Extraction Method: CDFA

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate: Dibutylchloridate

Surrogate Level: 0.013 ppm

Recovery: 110

Comments:

Analyte	Amount ppm	RL ppm
a, b, d-BHC	ND	0.010
Alachlor	ND	0.020
Aldrin	ND	0.010
Benfluralin	ND	0.020
Bifenox	ND	0.050
Boscalid	ND	0.020
Bromacil	ND	0.040
Captafol	ND	0.040
Captan	ND	0.020
Chlordane (sum of Isomers)	ND	0.020
Chlorfenapyr	ND	0.040
Chlorobenzilate	ND	0.040
Chlorothalonil	ND	0.010
Cyanazine	ND	0.100
Dacthal	ND	0.020
DDD	ND	0.020
DDE	ND	0.020
DDT	ND	0.020
Dichlobenil	ND	0.030
Dichlone	ND	0.050
Dicloran	ND	0.020
Dicofol	ND	0.050
Dieldrin	ND	0.010
Endosulfan alpha	ND	0.010
Endosulfan beta	ND	0.010
Endosulfan sulfate	ND	0.010
Endosulfans (Total)	ND	0.010
Endrin	ND	0.010
Ethafuralin	ND	0.030
Fenhexamid	ND	0.030
Folpet	ND	0.050
Heptachlor	ND	0.010
Heptachlor epoxide	ND	0.020
Hexachlorobenzene	ND	0.010
Indoxacarb	ND	0.030
Iprodione	ND	0.050
Lindane (gamma-BHC)	ND	0.010
Linuron	ND	0.150
Methoxychlor	ND	0.050
Metribuzin	ND	0.020
Mirex	ND	0.020
Myclobutanil	ND	0.050
Oxadiazon	ND	0.050
Oxyfluorfen	ND	0.040
Pendimethalin	ND	0.050
Pentachloronitrobenzene (PCNB)	ND	0.020
Pentachloroaniline (PCA)	ND	0.010
Perthane	ND	0.100
Polychlorinated Biphenyls	ND	0.250
Procymidone	ND	0.020
Profluralin	ND	0.020
Pronamide	ND	0.050
Propanil	ND	0.050
Tetradifon	ND	0.020
Toxaphene	ND	0.250
Triadimefon	ND	0.020
Trifloxystrobin	ND	0.030
Triflumazole	ND	0.050
Trifluralin	ND	0.020
Vegadex (Diethyldithiocarbamic Acid)	ND	0.050
Vinclozolin	ND	0.020
Dithiopyr	ND	0.020
Norfurazon	ND	0.020

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Analyte	Amount ppm	RL ppm
Bifenthrin	ND	0.020
Cyfluthrin	ND	0.040
Cypermethrin	ND	0.040
Deltamethrin	ND	0.020
Esfenvalerate	ND	0.030
Fenpropathrin	ND	0.010
Fluvalinate	ND	0.040
lambda Cyhalothrin	ND	0.010
Permethrin	ND	0.100
Tralomethrin	ND	0.020
Pyrethrins (Total)	ND	0.050

Project No:

PO No:

Client Sample ID: S-4 (S)

Sample Date: 3/21/2017

EMA Sample No: 17032222-04a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: Pyrethroid Screen

Extraction Method: CDFA

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate: Dibutylchloridate

Surrogate Level: 0.013 ppm

Recovery: 110

Comments:

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes
no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of
analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by
Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-4 (S)

Sample Date: 3/21/2017

EMA Sample No: 17032222-04b

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: OP Screen

Extraction Method: CDFA

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate: Triphenylphosphate

Surrogate Level: 0.067 ppm

Recovery: 118

Analyte	Amount ppm	RL ppm
Acephate	ND	0.020
Azinphos-methyl	ND	0.050
Bolstar	ND	0.030
Bensulide	LC/MS	0.050
Carbofenthiol	ND	0.020
Chlorfenvinphos	ND	0.030
Chlorpyrifos	ND	0.020
Chlorpyrifos-methyl	ND	0.030
Ciodrin	ND	0.050
Coumaphos	ND	0.050
DEF	ND	0.050
Demeton (Systox) O/S Analogues	ND	0.040
Diazinon	ND	0.030
Dibrom	ND	0.050
Dichlorvos	ND	0.030
Dicrotophos	ND	0.020
Dimethoate	ND	0.020
Disulfoton	ND	0.020
EPN	ND	0.020
Ethion	ND	0.030
Ethoprop	ND	0.050
Fenamiphos	ND	0.020
Fenitrothion	ND	0.030
Fenthion	ND	0.020
Fonofos	ND	0.040
Isofenphos	ND	0.030
Malathion	ND	0.020
Metasystox-R	ND	0.050
Methamidophos	ND	0.030
Methidathion	ND	0.030
Methyl Parathion	ND	0.030
Mevinphos	ND	0.050
O-methoate	ND	0.050
Parathion	ND	0.040
Phorate	ND	0.050
Phosalone	ND	0.050
Phosmet	ND	0.030
Phosphamidon	ND	0.020
Pyrimiphos-methyl	ND	0.050
Profenofos	ND	0.020
Propetamphos	ND	0.020
Ronnel	ND	0.030
Tetrachlorvinphos	ND	0.020
Thionazin	ND	0.020

Comments:

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-4 (S)

Sample Date: 3/21/2017

EMA Sample No: 17032222-04b

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: ON Screen

Extraction Method: CDFA

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate: Triphenylphosphate

Surrogate Level: 0.067 ppm

Recovery: 118

Analyte	Amount ppm	RL ppm
Acetamipride	ND	0.050
Atrazine	ND	0.030
Azoxystrobin	ND	0.030
Benthiocarb	ND	0.050
Cyanazine	ND	0.050
Cyromazine	ND	0.050
Cyprodinil	ND	0.050
Dimethomorph	ND	0.050
Diphenyl Amine	ND	0.050
Fenamidone	ND	0.050
Fenbuconazole	ND	0.050
Fipronil	ND	0.050
Fludioxinil	ND	0.050
Hexazinone	ND	0.050
Imazalil	ND	0.050
Kresoxim Methyl	ND	0.050
Metalaxyl	ND	0.050
Metolachlor	ND	0.050
Metribuzin	ND	0.050
Molinate	ND	0.050
Myclobutanil	ND	0.050
Prometon	ND	0.050
Prometryne	ND	0.050
Propamocarb	ND	0.050
Propiconazole	ND	0.050
Pymetrozine	ND	0.050
Pyraclostrobin	ND	0.050
Pyriproxifen	ND	0.050
Sethoxydim	ND	0.050
Simazine	ND	0.050
Tebuconazole	ND	0.050
Terbacil	ND	0.050
Thiabendazole	ND	0.050
Desethyl Atrazine	ND	0.050

Comments:

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-5 (S)

Sample Date: 3/21/2017

EMA Sample No: 17032222-05a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import GC/MS/MS A - Cx

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Acephate	ND	0.030
Acetamiprid	ND	0.030
Acrinathrin	ND	0.010
Adiisopropyl naphthalene, 2,6- (DIPN)	ND	0.010
Alachlor	ND	0.010
Aldrin	ND	0.010
Allethrin	ND	0.010
Ametryn	ND	0.010
Aminocarb	ND	0.010
Atrazine	ND	0.010
Azinphos-methyl	ND	0.010
Azoxystrobin	ND	0.010
Benalaxyl	ND	0.010
Azoxystrobin	ND	0.010
Bendiocarb	ND	0.010
Benfluralin	ND	0.010
Benoxacor	ND	0.010
BHC-alpha (Benzene)	ND	0.010
BHC-beta	ND	0.010
BHC-delta	ND	0.010
BHC-gamma (Lindane, gamma HCH)	ND	0.010
BifenoX	ND	0.010
Bifenthrin	ND	0.010
Bioresmethrin (resmethrin-trans)	ND	0.010
Bitertanol I	ND	0.010
Bitertanol II	ND	0.010
Boscalid	ND	0.010
Bromacil	ND	0.030
Bromophos-ethyl	ND	0.010
Bromophos-methyl	ND	0.010
Bromopropylate	ND	0.010
Bupirimate	ND	0.010
Buprofezin (z-isomer)	ND	0.010
Butachlor	ND	0.010
Butralin	ND	0.010
Butylate	ND	0.030
Cadusafos	ND	0.010
Captafol	ND	0.010
Captan	ND	0.030
Carbaryl	ND	0.010
Carbofuran	ND	0.010
Carbophenothion-ethyl	ND	0.010
Carbophenothion-methyl (methyl)	ND	0.010
Carbosulfan	ND	0.030
Carboxin	ND	0.010
Chlorbenzilate	ND	0.010
Chlordane-alpha	ND	0.010
Chlordane-oxy	ND	0.010
Chlordane-trans (gamma)	ND	0.010
Chlordimeform	ND	0.010
Chlorfenapyr	ND	0.010
Chlorfenvinphos	ND	0.010
Chlorobenzilate	ND	0.010
Chloroneb	ND	0.010
Chlorothalonil	ND	0.030
Chlorpropham	ND	0.010
Chlorpyrifos-ethyl	ND	0.010
Chlorpyrifos-methyl	ND	0.010
Chlorthiophos	ND	0.010
Clomazone	ND	0.010
Coumaphos	ND	0.010
Crotoxypfos	ND	0.010

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: **Jay Billings**
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-5 (S)

Sample Date: 3/21/2017

EMA Sample No: 17032222-05a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import GC/MS/MS Cy - D

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Cyanazine	ND	0.010
Cyanofenphos	ND	0.010
Cyanophos	ND	0.010
Cycloate	ND	0.030
Cycluron	ND	0.010
Cyfluthrin (Total)	ND	0.010
Cyhalothrin (lambda)	ND	0.010
Cymiazole	ND	0.010
Cypermethrin (Total)	ND	0.010
Cyproconazole	ND	0.010
Cyprodinil	ND	0.010
DCPA (dacthal, Chlorthal-dimethyl)	ND	0.010
DDD-o,p'	ND	0.030
DDD-p,p'	ND	0.010
DDE-o,p'	ND	0.010
DDE-p,p'	ND	0.010
DDT-o,p'	ND	0.010
DDT-p,p'	ND	0.030
DEF (Tribufos)	ND	0.010
Deltamethrin	ND	0.010
Demeton-s-methyl	ND	0.030
Desmedipham	ND	0.010
Desmetryn	ND	0.010
Diallate I	ND	0.030
Diallate II	ND	0.010
Diazinon	ND	0.010
Diazinon-oxon (diazoxon)	ND	0.010
Dichlofenthion	ND	0.010
Dichlofluanid	ND	0.030
Dichlorobenzonitrile, 2,6- (Dichlobenil)	ND	0.030
Dichlorvos	ND	0.030
Dichloran (Dichloran)	ND	0.030
Dicofol-o,p'	ND	0.010
Dicofol-p,p' (Kelthane)	ND	0.010
Dicrotofos (Dicrotophos)	ND	0.010
Dieldrin	ND	0.010
Diethofencarb	ND	0.010
Difenoconazole I	ND	0.010
Difenoconazole II	ND	0.010
Dimethachlor	ND	0.010
Dimethoate	ND	0.010
Dimethomorph I	ND	0.010
Dimethomorph II	ND	0.010
Diniconazole	ND	0.010
Dinitramine	ND	0.030
Dioxacarb	ND	0.030
Dioxathion	ND	0.010
Diphenamid	ND	0.010
Diphenylamine	ND	0.010
Disulfoton	ND	0.010
Disulfoton Sulfone	ND	0.010

R = Reported on another Screen

ND = None Detected at the Reporting Limit (RL)

Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.

Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.

Results relate only to items tested.

Samples are analyzed as received.

Reports should not be reproduced, except in full, without written consent by

Environmental Micro Analysis, Inc.

To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-5 (S)

Sample Date: 3/21/2017

EMA Sample No: 17032222-05a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import GC/MS/MS E - H

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Edifenphos	ND	0.010
Endosulfan I (alpha Isomer)	ND	0.010
Endosulfan II (beta Isomer)	ND	0.010
Endosulfan Sulfate	ND	0.010
Endrin	ND	0.010
Endrin Aldehyde	ND	0.030
EPN	ND	0.010
Epoxiconazole	ND	0.010
Esfenvalerate (Fenvalerate A-alpha)	ND	0.010
Etaconazole I	ND	0.010
Ethalfuralin (Sonalan)	ND	0.010
Ethiofencarb	ND	0.010
Ethiolate	ND	0.030
Ethion	ND	0.010
Ethofumesate	ND	0.010
Ethoprophos (Ethoprop)	ND	0.030
Ethoxyquin	ND	0.030
Etoxazole	ND	0.010
Etrifos	ND	0.010
Famoxadone	ND	0.010
Famphur	ND	0.010
Fenamidone	ND	0.030
Fenamiphos (Phenamiphos)	ND	0.010
Fenamiphos Sulfone	ND	0.010
Fenarimol	ND	0.010
Fenazaquin	ND	0.010
Fenbuconazole	ND	0.010
Fenfuram	ND	0.010
Fenhexamid	ND	0.010
Fenitrothion	ND	0.010
Fenobucarb	ND	0.010
Fenoxycarb	ND	0.010
Fenpropathrin	ND	0.010
Fenpropimorph	ND	0.010
Fensulfathion	ND	0.010
Fenthion	ND	0.010
Fenvalerate II	ND	0.010
Fipronil	ND	0.010
Flonicamid	ND	0.010
Fluchloralin	ND	0.010
Flucythrinate I	ND	0.010
Flucythrinate II	ND	0.010
Fludioxonil	ND	0.030
Fluopicolide	ND	0.010
Fluquiniconazole	ND	0.010
Flurenol-butyl	ND	0.010
Fluridone	ND	0.010
Flusilazole	ND	0.010
Flutolanil	ND	0.010
Flutriafol	ND	0.010
Fluvalinate I	ND	0.010
Folpet	ND	0.010
Fonofos	ND	0.010
Fuberidazole	ND	0.030
Furalaxyl	ND	0.010
Heptachlor	ND	0.010
Heptachlor exo-epoxide (Isomer B)	ND	0.010
Heptenophos	ND	0.010
Hexachlorobenzene	ND	0.030
Hexaconazole	ND	0.010
Hexythiazox	ND	0.030

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: **Jay Billings**
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-5 (S)

Sample Date: 3/21/2017

EMA Sample No: 17032222-05a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import GC/MS/MS I - Pd

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Imazalil	ND	0.030
Indoxacarb	ND	0.010
Iprobenfos	ND	0.030
Iprodione	ND	0.030
Isocarbamid (Isocarbamide)	ND	0.010
Isocarbophos	ND	0.010
Isodrin	ND	0.010
Isufenphos	ND	0.010
Isoprocarb	ND	0.010
Isopropalin	ND	0.010
Isoprothiolane	ND	0.030
Isoproturon	ND	0.030
Kresoxim-methyl	ND	0.010
Lenacil	ND	0.010
Leptophos	ND	0.010
Linuron	ND	0.010
Malaoxon (metabolite of Malathion)	ND	0.010
Malathion	ND	0.010
Mecarbam	ND	0.010
Mepanipyrim	ND	0.010
Mepronil	ND	0.010
Metalaxyl	ND	0.010
Metaldehyde	ND	0.030
Methidathion	ND	0.010
Methiocarb	ND	0.010
Methoprene	ND	0.030
Methoprotryne	ND	0.010
Methoxychlor, o,p'-	ND	0.010
Methoxychlor, p,p'-	ND	0.010
Metolachlor	ND	0.010
Metolcarb	ND	0.030
Metrafenone	ND	0.010
Metribuzin	ND	0.010
Mevinphos	ND	0.030
Mexacarbate	ND	0.010
MGK-264	ND	0.010
Mirex	ND	0.010
Molinate	ND	0.030
Monocrotophos	ND	0.030
Monolinuron	ND	0.010
Myclobutanil	ND	0.010
Naled	ND	0.030
Naphthaleneacetamide, 1-	ND	0.010
Napropamide	ND	0.010
Nicotine	ND	1.000
Nitrofen	ND	0.010
Nitrothal-isopropyl	ND	0.010
Nonachlor, cis-	ND	0.010
Nonachlor, Trans-	ND	0.010
Nuarimol	ND	0.010
Omethoate	ND	0.010
Oxadiazon	ND	0.010
Oxadixyl	ND	0.010
Oxyfluorfen	ND	0.030
Paclobutrazole	ND	0.030
Paraoxon-ethyl	ND	0.010
Paraoxon-methyl	ND	0.010
Parathion-ethyl	ND	0.010
Parathion-methyl	ND	0.010

R = Reported on another Screen

ND = None Detected at the Reporting Limit (RL)

Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.

Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.

Results relate only to items tested.

Samples are analyzed as received.

Reports should not be reproduced, except in full, without written consent by

Environmental Micro Analysis, Inc.

To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-5 (S)

Sample Date: 3/21/2017

EMA Sample No: 17032222-05a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import GC/MS/MS Pe - So

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Penconazole	ND	0.010
Pendimethalin (Penoxaline)	ND	0.010
Pentachloroaniline	ND	0.010
Pentachloroanisole	ND	0.010
Pentachlorobenzonitrile	ND	0.010
Pentachlorothioanisole	ND	0.010
Peopiconazole	ND	0.010
Permethrin I	ND	0.010
Permethrin II (trans)	ND	0.010
Phenothrin I	ND	0.010
Phenothrin II	ND	0.010
Phenthoate	ND	0.010
Phenylphenol, 2-	ND	0.010
Phorate	ND	0.010
Phorate sulfone	ND	0.010
Phorate sulfoxide	ND	0.010
Phosalone	ND	0.010
Phosmet	ND	0.010
Phosmet oxon	ND	0.030
Phosphamidon I	ND	0.010
Phosphamidon II	ND	0.010
Piperonyl Butoxide	ND	0.010
Pirimicarb	ND	0.010
Pirimiphos-ethyl	ND	0.010
Pirimiphos-methyl	ND	0.010
Prochloraz	ND	0.010
Procymidone	ND	0.010
Prodiamine	ND	0.030
Profenofos	ND	0.010
Profluralin	ND	0.010
Promecarb	ND	0.010
Prometon	ND	0.010
Prometryn	ND	0.010
Pronamide (Propyzamide)	ND	0.010
Propachlor	ND	0.010
Propanil	ND	0.010
Propargite	ND	0.010
Propetamphos	ND	0.010
Propham	ND	0.030
Propiconazole I	ND	0.010
Propiconazole II	ND	0.010
Propoxur	ND	0.010
Pyracarbolid	ND	0.010
Pyraclostrobin	ND	0.030
Pyrazophos	ND	0.010
Pyridaben	ND	0.010
Pyridaphenthion	ND	0.010
Pyrifenoxy I	ND	0.010
Pyrifenoxy II	ND	0.010
Pyrimethanil	ND	0.010
Pyriproxyfen	ND	0.010
Quinalphos	ND	0.010
Quinoxifen	ND	0.010
Quintozone	ND	0.010
Resmethrin -cis (cismethrin)	ND	0.010
Ronnel (Fenchlorphos)	ND	0.010
Sebumeton	ND	0.010
Simazine	ND	0.010
Simetryn	ND	0.010

R = Reported on another Screen

ND = None Detected at the Reporting Limit (RL)

Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.

Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.

Results relate only to items tested.

Samples are analyzed as received.

Reports should not be reproduced, except in full, without written consent by

Environmental Micro Analysis, Inc.

To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@engeo.net

Project No:

PO No:

Client Sample ID: S-5 (S)

Sample Date: 3/21/2017

EMA Sample No: 17032222-05a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import GC/MS/MS Sp - Z

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Analyte	Amount ppm	RL ppm
Spirodiclofen	ND	0.030
Spiromesifen	ND	0.030
Spiroxamine I	ND	0.010
Spiroxamine II	ND	0.010
Sulfotep	ND	0.010
Sulprofos	ND	0.030
Tebuconazole	ND	0.010
Tebufenpyrad	ND	0.010
Tebupirimfos	ND	0.010
Tebutam	ND	0.010
Tebuthiuron	ND	0.010
Tecnazene (TCNB)	ND	0.010
Tefluthrin, cis-	ND	0.010
Terbacil	ND	0.010
Terbufos	ND	0.010
Terbumeton	ND	0.030
Terbuthylazine	ND	0.030
Tetrachloraniline, 2,3,5,6-	ND	0.010
Tetrachlorvinphos, e-isomer	ND	0.010
Tetraconazole	ND	0.010
Tetradifon	ND	0.010
Tetrahydrophthalimide, cis-1,2,3,6-	ND	0.010
Tetrahydrophthalimide, cis-Delta 4-	ND	0.030
Tetramethrin I	ND	0.010
Tetramethrin II	ND	0.010
Thiabendazole	ND	0.030
Thiamethoxam	ND	0.010
Thionazin	ND	0.030
Tolclofos-methyl	ND	0.010
Tolyfluanid	ND	0.010
Triadimefon	ND	0.010
Triadimenol	ND	0.010
Triazophos	ND	0.010
Tricyclazole	ND	0.030
Trifloxystrobin	ND	0.010
Triflunizole	ND	0.010
Trifluralin	ND	0.010
Trimethacarb, 2,3,5-	ND	0.010
Trimethacarb, 3,4,5-	ND	0.010
Trimidal (Nuarimol)	ND	0.010
Triticonazole	ND	0.010
Vernolate	ND	0.030
Vinclozolin	ND	0.010

Comments:

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-5 (S)

Sample Date: 3/21/2017

EMA Sample No: 17032222-05a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import LC/MS/MS A-C

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
3-Hydroxycarbofuran	ND	0.010
Acephate	ND	0.010
Acetamiprid	ND	0.010
Acetochlor	ND	0.010
Acibenzolar-S-methyl	ND	0.010
Alanycarb	ND	0.010
Aldicarb-sulfone	ND	0.010
Aldicarb-sulfoxide	ND	0.010
Ametryn	ND	0.010
Amicarbazone	ND	0.010
Aminocarb	ND	0.010
Aspon	ND	0.010
Atrazine	ND	0.010
Avermectin Ba	ND	0.010
Azinphos-methyl	ND	0.010
Azoxystrobin	ND	0.010
Benalaxyl	ND	0.010
Bendiocarb	ND	0.010
Benfuracarb	ND	0.010
Bensulide	ND	0.010
Benzoximate	ND	0.010
Bifenazate	ND	0.010
Bitertanol	ND	0.010
Boscalid	ND	0.010
Bromuconazole (isomer)	ND	0.010
Bupirimate	ND	0.010
Buprofezin	ND	0.010
Butafenacil	ND	0.010
Butocarboxim	ND	0.010
Carbaryl	ND	0.010
Carbendazim	0.01	0.010
Carbetamide	ND	0.010
Carbofuran	ND	0.010
Carbosulfan	ND	0.010
Carboxine	ND	0.010
Carfentrazone-ethyl	ND	0.010
Chlorantraniliprole	ND	0.010
Chlordimeform	ND	0.010
Chlorfenvinphos	ND	0.010
Chlorfluazuron	ND	0.010
Chloroxuron	ND	0.010
Chlorpyrifos	ND	0.010
Chlorpyrifos-methyl	ND	0.010
Chlortoluron	ND	0.010
Clethodim	ND	0.010
Clofentezine	ND	0.010
Clothianidin	ND	0.010
Coumaphos	ND	0.010
Cumyluron	ND	0.010
Cyanazine	ND	0.010
Cyazofamid	ND	0.010
Cycluron	ND	0.010
Cyflufenamid	ND	0.010
Cyhexatin	ND	0.010
Cymoxanil	ND	0.010
Cyproconazole (isomer)	ND	0.010
Cyprodinil	ND	0.010
Cyromazine	ND	0.010

R = Reported on another Screen

ND = None Detected at the Reporting Limit (RL)

Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.

Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.

Results relate only to items tested.

Samples are analyzed as received.

Reports should not be reproduced, except in full, without written consent by

Environmental Micro Analysis, Inc.

To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@negeo.net

Project No:

PO No:

Client Sample ID: S-5 (S)

Sample Date: 3/21/2017

EMA Sample No: 17032222-05a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import LC/MS/MS D-F

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Daimuron	ND	0.010
Diafenthuron	ND	0.010
Diazinon	ND	0.010
Dichlorvos	ND	0.010
Diclobutrazol	ND	0.010
Dicofolophos	ND	0.010
Diethofencarb	ND	0.010
Difenoconazole	ND	0.010
Diflubenzuron	ND	0.010
Dimethenamide	ND	0.010
Dimethoate	ND	0.010
Dimethomorph	ND	0.010
Dimoxystrobin	ND	0.010
Diniconazole	ND	0.010
Dioxacarb	ND	0.010
Diuron	ND	0.010
DMST	ND	0.010
DNOC	ND	0.010
Dodine	ND	0.010
Doramectin	ND	0.010
Emamectin Ba	ND	0.010
Epoxiconazole	ND	0.010
Eprinomectin	ND	0.010
Esprocarb	ND	0.010
Ethidimuron	ND	0.010
Ethiofencarb	ND	0.010
Ethiofencarb-sulfoxide	ND	0.010
Ethion	ND	0.010
Ethiprole	ND	0.010
Ethirimol	ND	0.010
Ethofumesate	ND	0.010
Ethoprop	ND	0.010
Etobenzanid	ND	0.010
Etioazole	ND	0.010
Famoxadone	ND	0.010
Fenamidone	ND	0.010
Fenarimol	ND	0.010
Fenazaquin	ND	0.010
Fenbuconazole	ND	0.010
Fenbutatin Oxide	ND	0.010
Fenhexamid	ND	0.010
Fenobucarb	ND	0.010
Fenoxycarb	ND	0.010
Fenpropimorph	ND	0.010
Fenpyroximate	ND	0.010
Fenuron	ND	0.010
Flonicamid	ND	0.010
Fluazifop-butyl	ND	0.010
Flubendiamide	ND	0.010
Fludioxinil	ND	0.010
Flufenacet	ND	0.010
Flufenoxuron	ND	0.010
Fluometuron	ND	0.010
Fluopicolide	ND	0.010
Fluoxastrobin	ND	0.010
Fluquinconazole	ND	0.010
Flusilazole	ND	0.010
Flutolanil	ND	0.010
Flutriafol	ND	0.010
Fomesafen	ND	0.010
Forchlorfenuron	ND	0.010
Formetanate	ND	0.010
Fuberidazole	ND	0.010
Furalaxyl	ND	0.010

R = Reported on another Screen

ND = None Detected at the Reporting Limit (RL)

Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.

Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.

Results relate only to items tested.

Samples are analyzed as received.

Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.

To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-5 (S)

Sample Date: 3/21/2017

EMA Sample No: 17032222-05a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import LC/MS/MS H-O

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Halofenozide	ND	0.010
Hexaflumuron	ND	0.010
Hexazinone	ND	0.010
Hexythiazox	ND	0.010
Hydramethylnon	ND	0.010
Imazalil	ND	0.010
Imazapyr	ND	0.010
Imazethapyr	ND	0.010
Imibenconazole	ND	0.010
Imidacloprid	ND	0.010
Indoxacarb	ND	0.010
Ipconazole	ND	0.010
Iprovalicarb	ND	0.010
Isocarbamid	ND	0.010
Isofenphos	ND	0.010
Isoprocab	ND	0.010
Isoprothiolane	ND	0.010
Isoproturon	ND	0.010
Ivermectin	ND	0.010
Kresoxim-methyl	ND	0.010
Lactofen	ND	0.010
Linuron	ND	0.010
Malathion	ND	0.010
Mandipropamid	ND	0.010
Mefenacet	ND	0.010
Mepanipyrim	ND	0.010
Mepronil	ND	0.010
Metaflumizone	ND	0.010
Metalaxyl	ND	0.010
Metconazole	ND	0.010
Methamidophos	ND	0.010
Methfuroxam	ND	0.010
Methidathion	ND	0.010
Methiocarb	ND	0.010
Methomyl	ND	0.010
Methoprotryne	ND	0.010
Methoxyfenozide	ND	0.010
Metobromuron	ND	0.010
Metolachlor	ND	0.010
Metoxuron	ND	0.010
Metrafenone	ND	0.010
Metribuzin	ND	0.010
Metsulfuron-methyl	ND	0.010
Mevinphos	ND	0.010
Mexacarbate	ND	0.010
Molinate	ND	0.010
Monocrotophos	ND	0.010
Monolinuron	ND	0.010
Moxidectin	ND	0.010
Myclobutanil	ND	0.010
Napropamide	ND	0.010
Neburon	ND	0.010
Nitenpyram	ND	0.010
Novaluron	ND	0.010
Omethoate	ND	0.010
Oxamyl	ND	0.010
Oxadixyl	ND	0.010

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@geo.net

Project No:

PO No:

Client Sample ID: S-5 (S)

Sample Date: 3/21/2017

EMA Sample No: 17032222-05a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import LC/MS/MS P-Trid

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Pencycuron	ND	0.010
Pendimethalin	ND	0.010
Phorate	ND	0.010
Phosmet	ND	0.010
Phoxim	ND	0.010
Picoxystrobin	ND	0.010
Piperonyl butoxide	ND	0.010
Pirimicarb	ND	0.010
Pirimiphos-methyl	ND	0.010
Prochloraz	ND	0.010
Promecarb	ND	0.010
Prometon	ND	0.010
Prometryn	ND	0.010
Propachlor	ND	0.010
Propamocarb	ND	0.010
Propargite	ND	0.010
Propazine	ND	0.010
Propham	ND	0.010
Propiconazole	ND	0.010
Propoxur	ND	0.010
Propyzamide	ND	0.010
Pymetrozin	ND	0.010
Pyracarbolid	ND	0.010
Pyraclostrobin	ND	0.010
Pyridaben	ND	0.010
Pyridaphenthion	ND	0.010
Pyrimethanil	ND	0.010
Pyriproxyfen	ND	0.010
Quinoxifen	ND	0.010
Sebutylazine	ND	0.010
Secbumeton	ND	0.010
Sethoxydim	ND	0.010
Siduron	ND	0.010
Simazine	ND	0.010
Simetryn	ND	0.010
Spinetoram-J +L	ND	0.010
Spinosad	ND	0.010
Spirodiclofen	ND	0.010
Spiromecifen	ND	0.010
Spirotetramat	ND	0.010
Spiroxamine	ND	0.010
Sulfentrazone	ND	0.010
Tebuconazole	ND	0.010
Tebufozide	ND	0.010
Tebufofenpyrad	ND	0.010
Tebuithiuron	ND	0.010
Temephos	ND	0.010
Tepraloxymid	ND	0.010
Terbumeton	ND	0.010
Terbutryn	ND	0.010
Tetraconazole	ND	0.010
Thiabendazole	ND	0.010
Thiacloprid	ND	0.010
Thiamethoxam	ND	0.010
Thidiazuron	ND	0.010
Thiobencarb	ND	0.010
Thiofanox	ND	0.010
Thiophanate-methyl (Carbendazim)	ND	0.010
Triadimefon	ND	0.010
Triadimenol	ND	0.010
Triazophos	ND	0.010
Tricyclazole	ND	0.010
Tridemorph	ND	0.010

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Analyte

Analyte	Amount ppm	RL ppm
Trifloxystrobin	ND	0.010
Triflumizole	ND	0.010
Triflumuron	ND	0.010
Triflusulfuron-methyl	ND	0.010
Triphenyl Phosphate	ND	0.010
Triticonazole	ND	0.010
Uniconazole	ND	0.010
Vamidothion	ND	0.010
Zoxamide	ND	0.010

Project No:

PO No:

Client Sample ID: S-5 (S)

Sample Date: 3/21/2017

EMA Sample No: 17032222-05a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import LC/MS/MS Trif-Z

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes
no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of
analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by
Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Analyte	Amount ppm	RL ppm
Ferbam	ND	0.030
Maneb (Dithane M-22)	ND	0.030
Mancozeb	ND	0.030
Metiram	ND	0.030
Nabam	ND	0.030
Thiram	ND	0.030
Zineb	ND	0.030
Ziram	ND	0.030

Project No:

PO No:

Client Sample ID: S-5 (S)

Sample Date: 3/21/2017

EMA Sample No: 17032222-05a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: EBDC Screen

Extraction Method: CDFA

Date Extracted: 3/31/2017

Date Completed: 3/31/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes
no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of
analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by
Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Analyte

2, 4 - D
2, 4 -DB
2, 4, 5 - T
2, 4, 5 -TP
Dicamba
Dichloroprop
Bentazon
MCPA
MCPP
Triclopyr

Amount
ppm

RL
ppm

ND 0.250
ND 0.250
ND 0.130
ND 0.130
ND 0.130
ND 0.130
ND 0.250
ND 0.250
ND 0.250
ND 0.250

Project No:

PO No:

Client Sample ID: S-5 (S)

Sample Date: 3/21/2017

EMA Sample No: 17032222-05a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: EPA 8151A (s)

Extraction Method: EPA 8151A

Date Extracted: 4/4/2017

Date Completed: 4/10/2017

Surrogate: DCAA

Surrogate Level: 0.2 mg/Kg

Recovery: 67.8

Comments:

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@nggeo.net

Project No:

PO No:

Client Sample ID: S-5 (S)

Sample Date: 3/21/2017

EMA Sample No: 17032222-05a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: OC Screen

Extraction Method: CDFA

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate: Dibutylchloridate

Surrogate Level: 0.013 ppm

Recovery: 136

Comments:

Analyte	Amount ppm	RL ppm
a, b, d-BHC	ND	0.010
Alachlor	ND	0.020
Aldrin	ND	0.010
Benfluralin	ND	0.020
Bifenox	ND	0.050
Boscalid	ND	0.020
Bromacil	ND	0.040
Captafol	ND	0.040
Captan	ND	0.020
Chlordane (sum of Isomers)	ND	0.020
Chlorfenapyr	ND	0.040
Chlorobenzilate	ND	0.040
Chlorothalonil	ND	0.010
Cyanazine	ND	0.100
Dacthal	ND	0.020
DDD	ND	0.020
DDE	ND	0.020
DDT	ND	0.020
Dichlobenil	ND	0.030
Dichlone	ND	0.050
Dicloran	ND	0.020
Dicofol	ND	0.050
Dieldrin	ND	0.010
Endosulfan alpha	ND	0.010
Endosulfan beta	ND	0.010
Endosulfan sulfate	ND	0.010
Endosulfans (Total)	ND	0.010
Endrin	ND	0.010
Ethafuralin	ND	0.030
Fenhexamid	ND	0.030
Folpet	ND	0.050
Heptachlor	ND	0.010
Heptachlor epoxide	ND	0.020
Hexachlorobenzene	ND	0.010
Indoxacarb	ND	0.030
Iprodione	ND	0.050
Lindane (gamma-BHC)	ND	0.010
Linuron	ND	0.150
Methoxychlor	ND	0.050
Metribuzin	ND	0.020
Mirex	ND	0.020
Myclobutanil	ND	0.050
Oxadiazon	ND	0.050
Oxyfluorfen	ND	0.040
Pendimethalin	ND	0.050
Pentachloronitrobenzene (PCNB)	ND	0.020
Pentachloroaniline (PCA)	ND	0.010
Perthane	ND	0.100
Polychlorinated Biphenyls	ND	0.250
Procymidone	ND	0.020
Profluralin	ND	0.020
Pronamide	ND	0.050
Propanil	ND	0.050
Tetradifon	ND	0.020
Toxaphene	ND	0.250
Triadimefon	ND	0.020
Trifloxystrobin	ND	0.030
Triflumazole	ND	0.050
Trifluralin	ND	0.020
Vegadex (Diethyldithiocarbamic Acid)	ND	0.050
Vinclozolin	ND	0.020
Dithiopyr	ND	0.020
Norflurazon	ND	0.020

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Analyte	Amount ppm	RL ppm
Bifenthrin	ND	0.020
Cyfluthrin	ND	0.040
Cypermethrin	ND	0.040
Deltamethrin	ND	0.020
Esfenvalerate	ND	0.030
Fenpropathrin	ND	0.010
Fluvalinate	ND	0.040
lambda Cyhalothrin	ND	0.010
Permethrin	ND	0.100
Tralomethrin	ND	0.020
Pyrethrins (Total)	ND	0.050

Project No:

PO No:

Client Sample ID: S-5 (S)

Sample Date: 3/21/2017

EMA Sample No: 17032222-05a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: Pyrethroid Screen

Extraction Method: CDFA

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate: Dibutylchlordeinate

Surrogate Level: 0.013 ppm

Recovery: 136

Comments:

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-5 (S)

Sample Date: 3/21/2017

EMA Sample No: 17032222-05b

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: OP Screen

Extraction Method: CDFA

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate: Triphenylphosphate

Surrogate Level: 0.067 ppm

Recovery: 103

Analyte	Amount ppm	RL ppm
Acephate	ND	0.020
Azinphos-methyl	ND	0.050
Bolstar	ND	0.030
Bensulide	ND	0.050
Carbofenthoion	ND	0.020
Chlorfenvinphos	ND	0.030
Chlorpyrifos	ND	0.020
Chlorpyrifos-methyl	ND	0.030
Ciodrin	ND	0.050
Coumaphos	ND	0.050
DEF	ND	0.050
Demeton (Systox) O/S Analogues	ND	0.040
Diazinon	ND	0.030
Dibrom	ND	0.050
Dichlorvos	ND	0.030
Dicrotophos	ND	0.020
Dimethoate	ND	0.020
Disulfoton	ND	0.020
EPN	ND	0.020
Ethion	ND	0.030
Ethoprop	ND	0.050
Fenamiphos	ND	0.020
Fenitrothion	ND	0.030
Fenthion	ND	0.020
Fonofos	ND	0.040
Isofenphos	ND	0.030
Malathion	ND	0.020
Metasystox-R	ND	0.050
Methamidophos	ND	0.030
Methidathion	ND	0.030
Methyl Parathion	ND	0.030
Mevinphos	ND	0.050
O-methoate	ND	0.050
Parathion	ND	0.040
Phorate	ND	0.050
Phosalone	ND	0.050
Phosmet	ND	0.030
Phosphamidon	ND	0.020
Pyrimiphos-methyl	ND	0.050
Profenofos	ND	0.020
Propetamphos	ND	0.020
Ronnel	ND	0.030
Tetrachlorvinphos	ND	0.020
Thionazin	ND	0.020

Comments:

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-5 (S)

Sample Date: 3/21/2017

EMA Sample No: 17032222-05b

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: ON Screen

Extraction Method: CDFA

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate: Triphenylphosphate

Surrogate Level: 0.067 ppm

Recovery: 103

Comments:

Analyte	Amount ppm	RL ppm
Acetamipride	ND	0.050
Atrazine	ND	0.030
Azoxystrobin	ND	0.030
Benthiocarb	ND	0.050
Cyanazine	ND	0.050
Cyromazine	ND	0.050
Cyprodinil	ND	0.050
Dimethomorph	ND	0.050
Diphenyl Amine	ND	0.050
Fenamidone	ND	0.050
Fenbuconazole	ND	0.050
Fipronil	ND	0.050
Fludioxinil	ND	0.050
Hexazinone	ND	0.050
Imazalil	ND	0.050
Kresoxim Methyl	ND	0.050
Metaxyl	ND	0.050
Metolachlor	ND	0.050
Metribuzin	ND	0.050
Molinate	ND	0.050
Myclobutanil	ND	0.050
Prometon	ND	0.050
Prometryne	ND	0.050
Propamocarb	ND	0.050
Propiconazole	ND	0.050
Pymetrozine	ND	0.050
Pyraclostrobin	ND	0.050
Pyriproxifen	ND	0.050
Sethoxydim	ND	0.050
Simazine	ND	0.050
Tebuconazole	ND	0.050
Terbacil	ND	0.050
Thiabendazole	ND	0.050
Desethyl Atrazine	ND	0.050

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-6 (T)

Sample Date: 3/21/2017

EMA Sample No: 17032222-06a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import GC/MS/MS A - Cx

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Acephate	ND	0.030
Acetamiprid	ND	0.030
Acrinathrin	ND	0.010
Adiisopropyl naphthalene, 2,6- (DIPN,	ND	0.010
Alachlor	ND	0.010
Aldrin	ND	0.010
Allethrin	ND	0.010
Ametryn	ND	0.010
Aminocarb	ND	0.010
Atrazine	ND	0.010
Azinphos-methyl	ND	0.010
Azoxystrobin	ND	0.010
Benalaxyl	ND	0.010
Azoxystrobin	ND	0.010
Bendiocarb	ND	0.010
Benfluralin	ND	0.010
Benoxacor	ND	0.010
BHC-alpha (Benzene	ND	0.010
BHC-beta	ND	0.010
BHC-delta	ND	0.010
BHC-gamma (Lindane, gamma HCH)	ND	0.010
BifenoX	ND	0.010
Bifenthrin	ND	0.010
Bioresmethrin (resmethrin-trans)	ND	0.010
Bitertanol I	ND	0.010
Bitertanol II	ND	0.010
Boscalid	ND	0.010
Bromacil	ND	0.030
Bromophos-ethyl	ND	0.010
Bromophos-methyl	ND	0.010
Bromopropylate	ND	0.010
Bupirimate	ND	0.010
Buprofezin (z-isomer)	ND	0.010
Butachlor	ND	0.010
Butralin	ND	0.010
Butylate	ND	0.030
Cadusafos	ND	0.010
Captafol	ND	0.010
Captan	ND	0.030
Carbaryl	ND	0.010
Carbofuran	ND	0.010
Carbophenothion-ethyl	ND	0.010
Carbophenothion-methyl (methyl	ND	0.010
Carbosulfan	ND	0.030
Carboxin	ND	0.010
Chlorbenzilate	ND	0.010
Chlordane-alpha	ND	0.010
Chlordane-oxy	ND	0.010
Chlordane-trans (gamma)	ND	0.010
Chlordimeform	ND	0.010
Chlorfenapyr	ND	0.010
Chlorfenvinphos	ND	0.010
Chlorobenzilate	ND	0.010
Chloroneb	ND	0.010
Chlorothalonil	ND	0.030
Chlorpropham	ND	0.010
Chlorpyrifos-ethyl	ND	0.010
Chlorpyrifos-methyl	ND	0.010
Chlorthiophos	ND	0.010
Clomazone	ND	0.010
Coumaphos	ND	0.010
Crotoxyphos	ND	0.010

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-6 (T)

Sample Date: 3/21/2017

EMA Sample No: 17032222-06a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import GC/MS/MS Cy - D

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Cyanazine	ND	0.010
Cyanofenphos	ND	0.010
Cyanophos	ND	0.010
Cycloate	ND	0.030
Cycluron	ND	0.010
Cyfluthrin (Total)	ND	0.010
Cyhalothrin (lambda)	ND	0.010
Cymiazole	ND	0.010
Cypermethrin (Total)	ND	0.010
Cyproconazole	ND	0.010
Cyprodinil	ND	0.010
DCPA (dacthal, Chlorthal-dimethyl)	ND	0.010
DDD-o,p'	ND	0.030
DDD-p,p'	ND	0.010
DDE-o,p'	ND	0.010
DDE-p,p'	ND	0.010
DDT-o,p'	ND	0.010
DDT-p,p'	ND	0.030
DEF (Tribufos)	ND	0.010
Deltamethrin	ND	0.010
Demeton-s-methyl	ND	0.030
Desmedipham	ND	0.010
Desmetryn	ND	0.010
Diallate I	ND	0.030
Diallate II	ND	0.010
Diazinon	ND	0.010
Diazinon-oxon (diazoxon)	ND	0.010
Dichlofenthion	ND	0.010
Dichlofluanid	ND	0.030
Dichlorobenzonitrile, 2,6- (Dichlobenil)	ND	0.030
Dichlorvos	ND	0.030
Dichloran (Dichloran)	ND	0.030
Dicofol-o,p'	ND	0.010
Dicofol-p,p' (Kelthane)	ND	0.010
Dicrotophos (Dicrotophos)	ND	0.010
Dieldrin	ND	0.010
Diethofencarb	ND	0.010
Difenoconazole I	ND	0.010
Difenoconazole II	ND	0.010
Dimethachlor	ND	0.010
Dimethoate	ND	0.010
Dimethomorph I	ND	0.010
Dimethomorph II	ND	0.010
Diniconazole	ND	0.010
Dinitramine	ND	0.030
Dioxacarb	ND	0.030
Dioxathion	ND	0.010
Diphenamid	ND	0.010
Diphenylamine	ND	0.010
Disulfoton	ND	0.010
Disulfoton Sulfone	ND	0.010

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@negeo.net

Project No:

PO No:

Client Sample ID: S-6 (T)

Sample Date: 3/21/2017
EMA Sample No: 17032222-06a
Date Received: 3/22/2017
Sample Matrix: Soil

Analytical Method: FDA Import GC/MS/MS E - H

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Edifenphos	ND	0.010
Endosulfan I (alpha Isomer)	ND	0.010
Endosulfan II (beta Isomer)	ND	0.010
Endosulfan Sulfate	ND	0.010
Endrin	ND	0.010
Endrin Aldehyde	ND	0.030
EPN	ND	0.010
Epoxiconazole	ND	0.010
Esfenvalerate (Fenvalerate A-alpha)	ND	0.010
Etaconazole I	ND	0.010
Ethalfuralin (Sonalan)	ND	0.010
Ethiofencarb	ND	0.010
Ethiolate	ND	0.030
Ethion	ND	0.010
Ethofumesate	ND	0.010
Ethoprophos (Ethoprop)	ND	0.030
Ethoxyquin	ND	0.030
Etoazole	ND	0.010
Etrifos	ND	0.010
Famoxadone	ND	0.010
Famphur	ND	0.010
Fenamidone	ND	0.030
Fenamiphos (Phenamiphos)	ND	0.010
Fenamiphos Sulfone	ND	0.010
Fenarimol	ND	0.010
Fenazaquin	ND	0.010
Fenbuconazole	ND	0.010
Fenfuram	ND	0.010
Fenhexamid	ND	0.010
Fenitrothion	ND	0.010
Fenobucarb	ND	0.010
Fenoxycarb	ND	0.010
Fenpropathrin	ND	0.010
Fenpropimorph	ND	0.010
Fensulfthion	ND	0.010
Fenthion	ND	0.010
Fenvalerate II	ND	0.010
Fipronil	ND	0.010
Fonicamid	ND	0.010
Fluchloralin	ND	0.010
Flucythrinate I	ND	0.010
Flucythrinate II	ND	0.010
Fludioxonil	ND	0.030
Fluopicolide	ND	0.010
Fluquinconazole	ND	0.010
Flurenol-butyl	ND	0.010
Fluridone	ND	0.010
Flusilazole	ND	0.010
Flutolanil	ND	0.010
Flutriafol	ND	0.010
Fluvalinate I	ND	0.010
Folpet	ND	0.010
Fonofos	ND	0.010
Fuberidazole	ND	0.030
Furalaxyl	ND	0.010
Heptaclor	ND	0.010
Heptachlor exo-epoxide (Isomer B)	ND	0.010
Heptenophos	ND	0.010
Hexachlorobenzene	ND	0.030
Hexaconazole	ND	0.010
Hexythiazox	ND	0.030

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes
no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of
analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by
Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-6 (T)

Sample Date: 3/21/2017

EMA Sample No: 17032222-06a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import GC/MS/MS I - Pd

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Imazalil	ND	0.030
Indoxacarb	ND	0.010
Iprobenfos	ND	0.030
Iprodione	ND	0.030
Isocarbamid (Isocarbamide)	ND	0.010
Isocarbophos	ND	0.010
Isodrin	ND	0.010
Isufenphos	ND	0.010
Isoprocab	ND	0.010
Isopropalin	ND	0.010
Isoprothiolane	ND	0.030
Isoproturon	ND	0.030
Kresoxim-methyl	ND	0.010
Lenacil	ND	0.010
Leptophos	ND	0.010
Linuron	ND	0.010
Malaaxon (metabolite of Malathion)	ND	0.010
Malathion	ND	0.010
Mecarbam	ND	0.010
Mepanipyrim	ND	0.010
Mepronil	ND	0.010
Metalaxyl	ND	0.010
Metaldehyde	ND	0.030
Methidathion	ND	0.010
Methiocarb	ND	0.010
Methoprene	ND	0.030
Methoprotiryne	ND	0.010
Methoxychlor, o,p'-	ND	0.010
Methoxychlor, p,p'-	ND	0.010
Metolachlor	ND	0.010
Metolcarb	ND	0.030
Metrafenone	ND	0.010
Metribuzin	ND	0.010
Mevinphos	ND	0.030
Mexacarbate	ND	0.010
MGK-264	ND	0.010
Mirex	ND	0.010
Molinate	ND	0.030
Monocrotophos	ND	0.030
Monolinuron	ND	0.010
Myclobutanil	ND	0.010
Naled	ND	0.030
Naphthaleneacetamide, 1-	ND	0.010
Napropamide	ND	0.010
Nicotine	ND	1.000
Nitrofen	ND	0.010
Nitrothal-isopropyl	ND	0.010
Nonachlor, cis-	ND	0.010
Nonachlor, Trans-	ND	0.010
Nuarimol	ND	0.010
Omethoate	ND	0.010
Oxadiazon	ND	0.010
Oxadixyl	ND	0.010
Oxyflurofen	ND	0.030
Paclobutrazole	ND	0.030
Paraaxon-ethyl	ND	0.010
Paraaxon-methyl	ND	0.010
Parathion-ethyl	ND	0.010
Parathion-methyl	ND	0.010

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes
no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of
analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by
Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@negeo.net

Project No:

PO No:

Client Sample ID: S-6 (T)

Sample Date: 3/21/2017

EMA Sample No: 17032222-06a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import GC/MS/MS Pe - So

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Penconazole	ND	0.010
Pendimethalin (Penoxaline)	ND	0.010
Pentachloroaniline	ND	0.010
Pentachloroanisole	ND	0.010
Pentachlorobenzonitrile	ND	0.010
Pentachlorothioanisole	ND	0.010
Peopiconazole	ND	0.010
Permethrin I	ND	0.010
Permethrin II (trans)	ND	0.010
Phenothrin I	ND	0.010
Phenothrin II	ND	0.010
Phenthoate	ND	0.010
Phenylphenol, 2-	ND	0.010
Phorate	ND	0.010
Phorate sulfone	ND	0.010
Phorate sulfoxide	ND	0.010
Phosalone	ND	0.010
Phosmet	ND	0.010
Phosmet oxon	ND	0.030
Phosphamidon I	ND	0.010
Phosphamidon II	ND	0.010
Piperonyl Butoxide	ND	0.010
Pirimicarb	ND	0.010
Pirimiphos-ethyl	ND	0.010
Pirimiphos-methyl	ND	0.010
Prochloraz	ND	0.010
Procymidone	ND	0.010
Prodiamine	ND	0.030
Profenofos	ND	0.010
Profluralin	ND	0.010
Promecarb	ND	0.010
Prometon	ND	0.010
Prometryn	ND	0.010
Pronamide (Propyzamide)	ND	0.010
Propachlor	ND	0.010
Propanil	ND	0.010
Propargite	ND	0.010
Propetamphos	ND	0.010
Propham	ND	0.030
Propiconazole I	ND	0.010
Propiconazole II	ND	0.010
Propoxur	ND	0.010
Pyracarbolid	ND	0.010
Pyraclostrobin	ND	0.030
Pyrazophos	ND	0.010
Pyridaben	ND	0.010
Pyridaphenthion	ND	0.010
PyrifenoX I	ND	0.010
PyrifenoX II	ND	0.010
Pyrimethanil	ND	0.010
Pyriproxyfen	ND	0.010
Quinalphos	ND	0.010
Quinoxifen	ND	0.010
Quintozene	ND	0.010
Resmethrin -cis (cismethrin)	ND	0.010
Ronnel (Fenchlorphos)	ND	0.010
Sebumeton	ND	0.010
Simazine	ND	0.010
Simetryn	ND	0.010

R = Reported on another Screen

ND = None Detected at the Reporting Limit (RL)

Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.

Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.

Results relate only to items tested.

Samples are analyzed as received.

Reports should not be reproduced, except in full, without written consent by

Environmental Micro Analysis, Inc.

To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-6 (T)

Sample Date: 3/21/2017

EMA Sample No: 17032222-06a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import GC/MS/MS Sp - Z

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Spirodiclofen	ND	0.030
Spiromesifen	ND	0.030
Spiroxamine I	ND	0.010
Spiroxamine II	ND	0.010
Sulfotep	ND	0.010
Sulprofos	ND	0.030
Tebuconazole	ND	0.010
Tebufenpyrad	ND	0.010
Tebupirimfos	ND	0.010
Tebutam	ND	0.010
Tebuthiuron	ND	0.010
Tecnazene (TCNB)	ND	0.010
Tefluthrin, cis-	ND	0.010
Terbacil	ND	0.010
Terbufos	ND	0.010
Terbumeton	ND	0.030
Terbutylazine	ND	0.030
Tetrachloraniline, 2,3,5,6-	ND	0.010
Tetrachlorvinphos, e-isomer	ND	0.010
Tetraconazole	ND	0.010
Tetradifon	ND	0.010
Tetrahydrophthalimide, cis-1,2,3,6-	ND	0.010
Tetrahydrophthalimide, cis-Delta 4-	ND	0.030
Tetramethrin I	ND	0.010
Tetramethrin II	ND	0.010
Thiabendazole	ND	0.030
Thiamethoxam	ND	0.010
Thionazin	ND	0.030
Tolclofos-methyl	ND	0.010
Tolylfluanid	ND	0.010
Triadimefon	ND	0.010
Triadimenol	ND	0.010
Triazophos	ND	0.010
Tricyclazole	ND	0.030
Trifloxystrobin	ND	0.010
Triflunizole	ND	0.010
Trifluralin	ND	0.010
Trimethacarb, 2,3,5-	ND	0.010
Trimethacarb, 3,4,5-	ND	0.010
Trimidal (Nuarimol)	ND	0.010
Triticonazole	ND	0.010
Vernolate	ND	0.030
Vinclozolin	ND	0.010

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-6 (T)

Sample Date: 3/21/2017

EMA Sample No: 17032222-06a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import LC/MS/MS A-C

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
3-Hydroxycarbofuran	ND	0.010
Acephate	ND	0.010
Acetamiprid	ND	0.010
Acetochlor	ND	0.010
Acibenzolar-S-methyl	ND	0.010
Alanycarb	ND	0.010
Aldicarb-sulfone	ND	0.010
Aldicarb-sulfoxide	ND	0.010
Ametryn	ND	0.010
Amicarbazone	ND	0.010
Aminocarb	ND	0.010
Aspon	ND	0.010
Atrazine	ND	0.010
Avermectin Ba	ND	0.010
Azinphos-methyl	ND	0.010
Azoxystrobin	ND	0.010
Benalaxyl	ND	0.010
Bendiocarb	ND	0.010
Benfuracarb	ND	0.010
Bensulide	ND	0.010
Benzoximate	ND	0.010
Bifenazate	ND	0.010
Bitertanol	ND	0.010
Boscalid	ND	0.010
Bromuconazole (isomer)	ND	0.010
Bupirimate	ND	0.010
Buprofezin	ND	0.010
Butafenacil	ND	0.010
Butocarboxim	ND	0.010
Carbaryl	ND	0.010
Carbendazim	ND	0.010
Carbetamide	ND	0.010
Carbofuran	ND	0.010
Carbosulfan	ND	0.010
Carboxine	ND	0.010
Carfentrazone-ethyl	ND	0.010
Chlorantraniliprole	ND	0.010
Chlordimeform	ND	0.010
Chlorfenvinphos	ND	0.010
Chlorfluazuron	ND	0.010
Chloroxuron	ND	0.010
Chlorpyrifos	ND	0.010
Chlorpyrifos-methyl	ND	0.010
Chlortoluron	ND	0.010
Clethodim	ND	0.010
Clofentezine	ND	0.010
Clothianidin	ND	0.010
Coumaphos	ND	0.010
Cumyluron	ND	0.010
Cyanazine	ND	0.010
Cyazofamid	ND	0.010
Cycluron	ND	0.010
Cyflufenamid	ND	0.010
Cyhexatin	ND	0.010
Cymoxanil	ND	0.010
Cyproconazole (isomer)	ND	0.010
Cyprodinil	ND	0.010
Cyromazine	ND	0.010

R = Reported on another Screen

ND = None Detected at the Reporting Limit (RL)

Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.

Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.

Results relate only to items tested.

Samples are analyzed as received.

Reports should not be reproduced, except in full, without written consent by

Environmental Micro Analysis, Inc.

To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@negeo.net

Project No:

PO No:

Client Sample ID: S-6 (T)

Sample Date: 3/21/2017

EMA Sample No: 17032222-06a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import LC/MS/MS D-F

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Daimuron	ND	0.010
Diafenthiuron	ND	0.010
Diazinon	ND	0.010
Dichlorvos	ND	0.010
Diclobutrazol	ND	0.010
Dicrotophos	ND	0.010
Diethofencarb	ND	0.010
Difenoconazole	ND	0.010
Diffubenzuron	ND	0.010
Dimethenamide	ND	0.010
Dimethoate	ND	0.010
Dimethomorph	ND	0.010
Dimoxystrobin	ND	0.010
Diniconazole	ND	0.010
Dioxacarb	ND	0.010
Diuron	ND	0.010
DMST	ND	0.010
DNOC	ND	0.010
Dodine	ND	0.010
Doramectin	ND	0.010
Emamectin Ba	ND	0.010
Epoxiconazole	ND	0.010
Eprinomectin	ND	0.010
Esprocarb	ND	0.010
Ethidimuron	ND	0.010
Ethiofencarb	ND	0.010
Ethiofencarb-sulfoxide	ND	0.010
Ethion	ND	0.010
Ethiprole	ND	0.010
Ethirimol	ND	0.010
Ethofumesate	ND	0.010
Ethoprop	ND	0.010
Etobenzanid	ND	0.010
Etoazole	ND	0.010
Famoxadone	ND	0.010
Fenamidone	ND	0.010
Fenarimol	ND	0.010
Fenazaquin	ND	0.010
Fenbuconazole	ND	0.010
Fenbutatin Oxide	ND	0.010
Fenhexamid	ND	0.010
Fenobucarb	ND	0.010
Fenoxycarb	ND	0.010
Fenpropimorph	ND	0.010
Fenpyroximate	ND	0.010
Fenuron	ND	0.010
Fionicamid	ND	0.010
Fluazifop-butyl	ND	0.010
Flubendiamide	ND	0.010
Fludioxinil	ND	0.010
Flufenacet	ND	0.010
Flufenoxuron	ND	0.010
Fluometuron	ND	0.010
Fluopicolide	ND	0.010
Fluoxastrobin	ND	0.010
Fluquinconazole	ND	0.010
Flusilazole	ND	0.010
Flutolanil	ND	0.010
Flutriafol	ND	0.010
Fomesafen	ND	0.010
Forchlorfenuron	ND	0.010
Formetanate	ND	0.010
Fuberidazole	ND	0.010
Furalaxyl	ND	0.010

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-6 (T)

Sample Date: 3/21/2017

EMA Sample No: 17032222-06a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import LC/MS/MS H-O

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Halofenozide	ND	0.010
Hexaflumuron	ND	0.010
Hexazinone	ND	0.010
Hexythiazox	ND	0.010
Hydramethylnon	ND	0.010
Imazalil	ND	0.010
Imazapyr	ND	0.010
Imazethapyr	ND	0.010
Imibenconazole	ND	0.010
Imidacloprid	ND	0.010
Indoxacarb	ND	0.010
Ipconazole	ND	0.010
Iprovalicarb	ND	0.010
Isocarbamid	ND	0.010
Isofenphos	ND	0.010
Isoprocarb	ND	0.010
Isoprothiolane	ND	0.010
Isoproturon	ND	0.010
Ivermectin	ND	0.010
Kresoxim-methyl	ND	0.010
Lactofen	ND	0.010
Linuron	ND	0.010
Malathion	ND	0.010
Mandipropamid	ND	0.010
Mefenacet	ND	0.010
Mepanipyrim	ND	0.010
Mepronil	ND	0.010
Metaflumizone	ND	0.010
Metalaxyl	ND	0.010
Metconazole	ND	0.010
Methamidophos	ND	0.010
Methfuroxam	ND	0.010
Methidathion	ND	0.010
Methiocarb	ND	0.010
Methomyl	ND	0.010
Methoprotryne	ND	0.010
Methoxyfenozide	ND	0.010
Metobromuron	ND	0.010
Metolachlor	ND	0.010
Metoxuron	ND	0.010
Metrafenone	ND	0.010
Metribuzin	ND	0.010
Metsulfuron-methyl	ND	0.010
Mevinphos	ND	0.010
Mexacarbate	ND	0.010
Molinate	ND	0.010
Monocrotophos	ND	0.010
Monolinuron	ND	0.010
Moxidectin	ND	0.010
Myclobutanil	ND	0.010
Napropamide	ND	0.010
Neburon	ND	0.010
Nitenpyram	ND	0.010
Novaluron	ND	0.010
Omethoate	ND	0.010
Oxamyl	ND	0.010
Oxadixyl	ND	0.010

R = Reported on another Screen

ND = None Detected at the Reporting Limit (RL)

Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.

Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.

Results relate only to items tested.

Samples are analyzed as received.

Reports should not be reproduced, except in full, without written consent by

Environmental Micro Analysis, Inc.

To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-6 (T)

Sample Date: 3/21/2017

EMA Sample No: 17032222-06a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import LC/MS/MS P-Trid

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Pencycuron	ND	0.010
Pendimethalin	ND	0.010
Phorate	ND	0.010
Phosmet	ND	0.010
Phoxim	ND	0.010
Picoxystrobin	ND	0.010
Piperonyl butoxide	ND	0.010
Pirimicarb	ND	0.010
Pirimiphos-methyl	ND	0.010
Prochloraz	ND	0.010
Promecarb	ND	0.010
Prometon	ND	0.010
Prometryn	ND	0.010
Propachlor	ND	0.010
Propamocarb	ND	0.010
Propargite	ND	0.010
Propazine	ND	0.010
Propham	ND	0.010
Propiconazole	ND	0.010
Propoxur	ND	0.010
Propyzamide	ND	0.010
Pymetrozin	ND	0.010
Pyracarbolid	ND	0.010
Pyraclostrobin	ND	0.010
Pyridaben	ND	0.010
Pyridaphenthion	ND	0.010
Pyrimethanil	ND	0.010
Pyriproxyfen	ND	0.010
Quinoxifen	ND	0.010
Sebuthylazine	ND	0.010
Secbumeton	ND	0.010
Sethoxydim	ND	0.010
Siduron	ND	0.010
Simazine	ND	0.010
Simetryn	ND	0.010
Spinetoram-J +L	ND	0.010
Spinosad	ND	0.010
Spirodiclofen	ND	0.010
Spiromecifen	ND	0.010
Spirotetramat	ND	0.010
Spiroxamine	ND	0.010
Sulfentrazone	ND	0.010
Tebuconazole	ND	0.010
Tebufenozide	ND	0.010
Tebufenpyrad	ND	0.010
Tebuthiuron	ND	0.010
Temephos	ND	0.010
Tepraloxym	ND	0.010
Terbumeton	ND	0.010
Terbutryn	ND	0.010
Tetraconazole	ND	0.010
Thiabendazole	ND	0.010
Thiacloprid	ND	0.010
Thiamethoxam	ND	0.010
Thidiazuron	ND	0.010
Thiobencarb	ND	0.010
Thiofanox	ND	0.010
Thiophanate-methyl (Carbendazim)	ND	0.010
Triadimefon	ND	0.010
Triadimenol	ND	0.010
Triazophos	ND	0.010
Tricyclazole	ND	0.010
Tridemorph	ND	0.010

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@negeo.net

Analyte	Amount ppm	RL ppm
Trifloxystrobin	ND	0.010
Triflumizole	ND	0.010
Triflumuron	ND	0.010
Triflurosulfuron-methyl	ND	0.010
Triphenyl Phosphate	ND	0.010
Triticonazole	ND	0.010
Uniconazole	ND	0.010
Vamidothion	ND	0.010
Zoxamide	ND	0.010

Project No:

PO No:

Client Sample ID: S-6 (T)

Sample Date: 3/21/2017

EMA Sample No: 17032222-06a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import LC/MS/MS Trif-Z

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes
no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of
analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by
Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Analyte

Ferbam
Maneb (Dithane M-22)
Mancozeb
Metiram
Nabam
Thiram
Zineb
Ziram

Amount ppm	RL ppm
---------------	-----------

ND	0.030
ND	0.030
ND	0.030
ND	0.030
ND	0.030
ND	0.030
ND	0.030
ND	0.030

Project No:

PO No:

Client Sample ID: S-6 (T)

Sample Date: 3/21/2017

EMA Sample No: 17032222-06a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: EBDC Screen

Extraction Method: CDFA

Date Extracted: 3/31/2017

Date Completed: 3/31/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Analyte

2, 4 - D
2, 4 -DB
2, 4, 5 - T
2, 4, 5 -TP
Dicamba
Dichloroprop
Bentazon
MCPA
MCP
Triclopyr

Amount
ppm

RL
ppm

ND 0.250
ND 0.250
ND 0.130
ND 0.050
ND 0.130
ND 0.130
ND 0.250
ND 0.250
ND 0.250
ND 0.250

Project No:

PO No:

Client Sample ID: S-6 (T)

Sample Date: 3/21/2017

EMA Sample No: 17032222-06a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: EPA 8151A (s)

Extraction Method: EPA 8151A

Date Extracted: 4/4/2017

Date Completed: 4/10/2017

Surrogate: DCAA

Surrogate Level: 0.2 mg/Kg

Recovery: 80.1

Comments:

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-6 (T)

Sample Date: 3/21/2017

EMA Sample No: 17032222-06a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: OC Screen

Extraction Method: CDFA

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate: Dibutylchloridate

Surrogate Level: 0.013 ppm

Recovery: 107

Comments:

Analyte	Amount ppm	RL ppm
a, b, d-BHC	ND	0.010
Alachlor	ND	0.020
Aldrin	ND	0.010
Benfluralin	ND	0.020
Bifenox	ND	0.050
Boscalid	ND	0.020
Bromacil	ND	0.040
Captan	ND	0.040
Chlordane (sum of Isomers)	ND	0.020
Chlorfenapyr	ND	0.040
Chlorobenzilate	ND	0.040
Chlorothalonil	ND	0.010
Cyanazine	ND	0.100
Dacthal	ND	0.020
DDD	ND	0.020
DDE	ND	0.020
DDT	ND	0.020
Dichlobenil	ND	0.030
Dichlone	ND	0.050
Dicloran	ND	0.020
Dicofol	ND	0.050
Dieldrin	ND	0.010
Endosulfan alpha	ND	0.010
Endosulfan beta	ND	0.010
Endosulfan sulfate	ND	0.010
Endosulfans (Total)	ND	0.010
Endrin	ND	0.010
Ethafuralin	ND	0.030
Fenhexamid	ND	0.030
Folpet	ND	0.050
Heptachlor	ND	0.010
Heptachlor epoxide	ND	0.020
Hexachlorobenzene	ND	0.010
Indoxacarb	ND	0.030
Iprodione	ND	0.050
Lindane (gamma-BHC)	ND	0.010
Linuron	ND	0.150
Methoxychlor	ND	0.050
Metribuzin	ND	0.020
Mirex	ND	0.020
Myclobutanil	ND	0.050
Oxadiazon	ND	0.050
Oxyfluorfen	ND	0.040
Pendimethalin	ND	0.050
Pentachloronitrobenzene (PCNB)	ND	0.020
Pentachloroaniline (PCA)	ND	0.010
Perthane	ND	0.100
Polychlorinated Biphenyls	ND	0.250
Procymidone	ND	0.020
Profluralin	ND	0.020
Pronamide	ND	0.050
Propanil	ND	0.050
Tetradifon	ND	0.020
Toxaphene	ND	0.250
Triadimefon	ND	0.020
Trifloxystrobin	ND	0.030
Triflumazole	ND	0.050
Trifluralin	ND	0.020
Vegadex (Diethyldithiocarbamic Acid)	ND	0.050
Vinclozolin	ND	0.020
Dithiopyr	ND	0.020
Norflurazon	ND	0.020

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Analyte	Amount ppm	RL ppm
Bifenthrin	ND	0.020
Cyfluthrin	ND	0.040
Cypermethrin	ND	0.040
Deltamethrin	ND	0.020
Esfenvalerate	ND	0.030
Fenpropathrin	ND	0.010
Fluvalinate	ND	0.040
lambda Cyhalothrin	ND	0.010
Permethrin	ND	0.100
Tralomethrin	ND	0.020
Pyrethrins (Total)	ND	0.050

Project No:

PO No:

Client Sample ID: S-6 (T)

Sample Date: 3/21/2017

EMA Sample No: 17032222-06a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: Pyrethroid Screen

Extraction Method: CDFA

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate: Dibutylchloridate

Surrogate Level: 0.013 ppm

Recovery: 107

Comments:

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes
no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of
analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by
Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-6 (T)

Sample Date: 3/21/2017

EMA Sample No: 17032222-06b

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: OP Screen

Extraction Method: CDFA

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate: Triphenylphosphate

Surrogate Level: 0.067 ppm

Recovery: 125

Analyte	Amount ppm	RL ppm
Acephate	ND	0.020
Azinphos-methyl	ND	0.050
Bolstar	ND	0.030
Bensulide	ND	0.050
Carbofenthiol	ND	0.020
Chlorfenvinphos	ND	0.030
Chlorpyrifos	ND	0.020
Chlorpyrifos-methyl	ND	0.030
Ciodrin	ND	0.050
Coumaphos	ND	0.050
DEF	ND	0.050
Demeton (Systox) O/S Analogues	ND	0.040
Diazinon	ND	0.030
Dibrom	ND	0.050
Dichlorvos	ND	0.030
Dicrotophos	ND	0.020
Dimethoate	ND	0.020
Disulfoton	ND	0.020
EPN	ND	0.020
Ethion	ND	0.030
Ethoprop	ND	0.050
Fenamiphos	ND	0.020
Fenitrothion	ND	0.030
Fenthion	ND	0.020
Fonofos	ND	0.040
Isofenphos	ND	0.030
Malathion	ND	0.020
Metasystox-R	ND	0.050
Methamidophos	ND	0.030
Methidathion	ND	0.030
Methyl Parathion	ND	0.030
Mevinphos	ND	0.050
O-methoate	ND	0.050
Parathion	ND	0.040
Phorate	ND	0.050
Phosalone	ND	0.050
Phosmet	ND	0.030
Phosphamidon	ND	0.020
Pyrimiphos-methyl	ND	0.050
Profenofos	ND	0.020
Propetamphos	ND	0.020
Ronnel	ND	0.030
Tetrachlorvinphos	ND	0.020
Thionazin	ND	0.020

Comments:

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-6 (T)

Sample Date: 3/21/2017

EMA Sample No: 17032222-06b

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: ON Screen

Extraction Method: CDFA

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate: Triphenylphosphate

Surrogate Level: 0.067 ppm

Recovery: 125

Comments:

Analyte	Amount ppm	RL ppm
Acetamipride	ND	0.050
Atrazine	ND	0.030
Azoxystrobin	ND	0.030
Benthiocarb	ND	0.050
Cyanazine	ND	0.050
Cyromazine	ND	0.050
Cyprodinil	ND	0.050
Dimethomorph	ND	0.050
Diphenyl Amine	ND	0.050
Fenamidone	ND	0.050
Fenbuconazole	ND	0.050
Fipronil	ND	0.050
Fludioxinil	ND	0.050
Hexazinone	ND	0.050
Imazalil	ND	0.050
Kresoxim Methyl	ND	0.050
Metalaxyl	ND	0.050
Metolachlor	ND	0.050
Metribuzin	ND	0.050
Molinate	ND	0.050
Myclobutanil	ND	0.050
Prometon	ND	0.050
Prometryne	ND	0.050
Propamocarb	ND	0.050
Propiconazole	ND	0.050
Pymetrozine	ND	0.050
Pyraclostrobin	ND	0.050
Pyriproxifen	ND	0.050
Sethoxydim	ND	0.050
Simazine	ND	0.050
Tebuconazole	ND	0.050
Terbacil	ND	0.050
Thiabendazole	ND	0.050
Desethyl Atrazine	ND	0.050

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes
no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of
analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by
Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-7 (G)

Sample Date: 3/21/2017

EMA Sample No: 17032222-07a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import GC/MS/MS A - Cx

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Acephate	ND	0.030
Acetamiprid	ND	0.030
Acrinathrin	ND	0.010
Adiisopropyl naphthalene, 2,6- (DIPN)	ND	0.010
Alachlor	ND	0.010
Aldrin	ND	0.010
Allethrin	ND	0.010
Ametryn	ND	0.010
Aminocarb	ND	0.010
Atrazine	ND	0.010
Azinphos-methyl	ND	0.010
Azoxystrobin	ND	0.010
Benalaxyl	ND	0.010
Azoxystrobin	ND	0.010
Bendiocarb	ND	0.010
Benfluralin	ND	0.010
Benoxacor	ND	0.010
BHC-alpha (Benzene)	ND	0.010
BHC-beta	ND	0.010
BHC-delta	ND	0.010
BHC-gamma (Lindane, gamma HCH)	ND	0.010
Bifeno	ND	0.010
Bifenthrin	ND	0.010
Bioresmethrin (resmethrin-trans)	ND	0.010
Bitertanol I	ND	0.010
Bitertanol II	ND	0.010
Boscalid	ND	0.010
Bromacil	ND	0.030
Bromophos-ethyl	ND	0.010
Bromophos-methyl	ND	0.010
Bromopropylate	ND	0.010
Bupirimate	ND	0.010
Buprofezin (z-isomer)	ND	0.010
Butachlor	ND	0.010
Butralin	ND	0.010
Butylate	ND	0.030
Cadusafos	ND	0.010
Captafol	ND	0.010
Captan	ND	0.030
Carbaryl	ND	0.010
Carbofuran	ND	0.010
Carbophenothion-ethyl	ND	0.010
Carbophenothion-methyl (methyl)	ND	0.010
Carbosulfan	ND	0.030
Carboxin	ND	0.010
Chlorbenzilate	ND	0.010
Chlordane-alpha	ND	0.010
Chlordane-oxy	ND	0.010
Chlordane-trans (gamma)	ND	0.010
Chlordimeform	ND	0.010
Chlorfenapyr	ND	0.010
Chlorfenvinphos	ND	0.010
Chlorobenzilate	ND	0.010
Chloroneb	ND	0.010
Chlorothalonil	ND	0.030
Chlorpropham	ND	0.010
Chlorpyrifos-ethyl	ND	0.010
Chlorpyrifos-methyl	ND	0.010
Chlorthiophos	ND	0.010
Clomazone	ND	0.010
Coumaphos	ND	0.010
Crotoxyphos	ND	0.010

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-7 (G)

Sample Date: 3/21/2017

EMA Sample No: 17032222-07a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import GC/MS/MS Cy - D

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Cyanazine	ND	0.010
Cyanofenphos	ND	0.010
Cyanophos	ND	0.010
Cycloate	ND	0.030
Cycluron	ND	0.010
Cyfluthrin (Total)	ND	0.010
Cyhalothrin (lambda)	ND	0.010
Cymiazole	ND	0.010
Cypermethrin (Total)	ND	0.010
Cyproconazole	ND	0.010
Cyprodinil	ND	0.010
DCPA (dacthal, Chlorthal-dimethyl)	ND	0.010
DDD-o,p'	ND	0.030
DDD-p,p'	ND	0.010
DDE-o,p'	ND	0.010
DDE-p,p'	ND	0.010
DDT-o,p'	ND	0.010
DDT-p,p'	ND	0.030
DEF (Tribufos)	ND	0.010
Deltamethrin	ND	0.010
Demeton-s-methyl	ND	0.030
Desmedipham	ND	0.010
Desmetryn	ND	0.010
Diallate I	ND	0.030
Diallate II	ND	0.010
Diazinon	ND	0.010
Diazinon-oxon (diazoxon)	ND	0.010
Dichlofenthion	ND	0.010
Dichlofluanid	ND	0.030
Dichlorobenzonitrile, 2,6- (Dichlobenil)	ND	0.030
Dichlorvos	ND	0.030
Dichloran (Dichloran)	ND	0.030
Dicofol-o,p'	ND	0.010
Dicofol-p,p' (Kelthane)	ND	0.010
Dicrototos (Dicrotophos)	ND	0.010
Dieldrin	ND	0.010
Diethofencarb	ND	0.010
Difenoconazole I	ND	0.010
Difenoconazole II	ND	0.010
Dimethachlor	ND	0.010
Dimethoate	ND	0.010
Dimethomorph I	ND	0.010
Dimethomorph II	ND	0.010
Diniconazole	ND	0.010
Dinitramine	ND	0.030
Dioxacarb	ND	0.030
Dioxathion	ND	0.010
Diphenamid	ND	0.010
Diphenylamine	ND	0.010
Disulfoton	ND	0.010
Disulfoton Sulfone	ND	0.010

R = Reported on another Screen

ND = None Detected at the Reporting Limit (RL)

Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.

Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.

Results relate only to items tested.

Samples are analyzed as received.

Reports should not be reproduced, except in full, without written consent by

Environmental Micro Analysis, Inc.

To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-7 (G)

Sample Date: 3/21/2017

EMA Sample No: 17032222-07a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import GC/MS/MS E - H

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Edifenphos	ND	0.010
Endosulfan I (alpha Isomer)	ND	0.010
Endosulfan II (beta Isomer)	ND	0.010
Endosulfan Sulfate	ND	0.010
Endrin	ND	0.010
Endrin Aldehyde	ND	0.030
EPN	ND	0.010
Epoxiconazole	ND	0.010
Esfenvalerate (Fenvalerate A-alpha)	ND	0.010
Etaconazole I	ND	0.010
Ethalfuralin (Sonalan)	ND	0.010
Ethiofencarb	ND	0.010
Ethiolate	ND	0.030
Ethion	ND	0.010
Ethofumesate	ND	0.010
Ethoprophos (Ethoprop)	ND	0.030
Ethoxyquin	ND	0.030
Etoxazole	ND	0.010
Etrifos	ND	0.010
Famoxadone	ND	0.010
Famphur	ND	0.010
Fenamidone	ND	0.030
Fenamiphos (Phenamiphos)	ND	0.010
Fenamiphos Sulfone	ND	0.010
Fenarimol	ND	0.010
Fenazaquin	ND	0.010
Fenbuconazole	ND	0.010
Fenfuram	ND	0.010
Fenhexamid	ND	0.010
Fenitrothion	ND	0.010
Fenobucarb	ND	0.010
Fenoxycarb	ND	0.010
Fenpropathrin	ND	0.010
Fenpropimorph	ND	0.010
Fensulfathion	ND	0.010
Fenthion	ND	0.010
Fenvalerate II	ND	0.010
Fipronil	ND	0.010
Flonicamid	ND	0.010
Fluchloralin	ND	0.010
Flucythrinate I	ND	0.010
Flucythrinate II	ND	0.010
Fludioxonil	ND	0.030
Fluopicolide	ND	0.010
Fluquiniconazole	ND	0.010
Flurenol-butyl	ND	0.010
Fluridone	ND	0.010
Flusilazole	ND	0.010
Flutolanil	ND	0.010
Flutriafol	ND	0.010
Fluvalinate I	ND	0.010
Folpet	ND	0.010
Fonofos	ND	0.010
Fuberidazole	ND	0.030
Furalaxyl	ND	0.010
Heptaclor	ND	0.010
Heptachlor exo-epoxide (Isomer B)	ND	0.010
Heptenophos	ND	0.010
Hexachlorobenzene	ND	0.030
Hexaconazole	ND	0.010
Hexythiazox	ND	0.030

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@nggeo.net

Project No:

PO No:

Client Sample ID: S-7 (G)

Sample Date: 3/21/2017

EMA Sample No: 17032222-07a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import GC/MS/MS I - Pd

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Imazalil	ND	0.030
Indoxacarb	ND	0.010
Iprobenfos	ND	0.030
Iprodione	ND	0.030
Isocarbamid (Isocarbamide)	ND	0.010
Isocarbophos	ND	0.010
Isodrin	ND	0.010
Isufenphos	ND	0.010
Isoprocarb	ND	0.010
Isopropalin	ND	0.010
Isoprothiolane	ND	0.030
Isoproturon	ND	0.030
Kresoxim-methyl	ND	0.010
Lenacil	ND	0.010
Leptophos	ND	0.010
Linuron	ND	0.010
Malaoxon (metabolite of Malathion)	ND	0.010
Malathion	ND	0.010
Mecarbam	ND	0.010
Mepanipyrim	ND	0.010
Mepronil	ND	0.010
Metalaxyl	ND	0.010
Metalddehyde	ND	0.030
Methidathion	ND	0.010
Methiocarb	ND	0.010
Methoprene	ND	0.030
Methoprotryne	ND	0.010
Methoxychlor, o,p'-	ND	0.010
Methoxychlor, p,p'-	ND	0.010
Metolachlor	ND	0.010
Metolcarb	ND	0.030
Metrafenone	ND	0.010
Metribuzin	ND	0.010
Mevinphos	ND	0.030
Mexacarbate	ND	0.010
MGK-264	ND	0.010
Mirex	ND	0.010
Molinate	ND	0.030
Monocrotophos	ND	0.030
Monolinuron	ND	0.010
Myclobutanil	ND	0.010
Naled	ND	0.030
Naphthaleneacetamide, 1-	ND	0.010
Napropamide	ND	0.010
Nicotine	ND	1.000
Nitrofen	ND	0.010
Nitrothal-isopropyl	ND	0.010
Nonachlor, cis-	ND	0.010
Nonachlor, Trans-	ND	0.010
Nuarimol	ND	0.010
Omethoate	ND	0.010
Oxadiazon	ND	0.010
Oxadixyl	ND	0.010
Oxyflurofen	ND	0.030
Paclobutrazole	ND	0.030
Paraoxon-ethyl	ND	0.010
Paraoxon-methyl	ND	0.010
Parathion-ethyl	ND	0.010
Parathion-methyl	ND	0.010

R = Reported on another Screen

ND = None Detected at the Reporting Limit (RL)

Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.

Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.

Results relate only to items tested.

Samples are analyzed as received.

Reports should not be reproduced, except in full, without written consent by

Environmental Micro Analysis, Inc.

To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-7 (G)

Sample Date: 3/21/2017

EMA Sample No: 17032222-07a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import GC/MS/MS Pe - So

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Penconazole	ND	0.010
Pendimethalin (Penoxaline)	ND	0.010
Pentachloroaniline	0.07	0.010
Pentachloroanisole	ND	0.010
Pentachlorobenzonitrile	ND	0.010
Pentachlorothioanisole	0.01	0.010
Peopiconazole	ND	0.010
Permethrin I	ND	0.010
Permethrin II (trans)	ND	0.010
Phenothrin I	ND	0.010
Phenothrin II	ND	0.010
Phenthoate	ND	0.010
Phenylphenol, 2-	ND	0.010
Phorate	ND	0.010
Phorate sulfone	ND	0.010
Phorate sulfoxide	ND	0.010
Phosalone	ND	0.010
Phosmet	ND	0.010
Phosmet oxon	ND	0.030
Phosphamidon I	ND	0.010
Phosphamidon II	ND	0.010
Piperonyl Butoxide	ND	0.010
Pirimicarb	ND	0.010
Pirimiphos-ethyl	ND	0.010
Pirimiphos-methyl	ND	0.010
Prochloraz	ND	0.010
Procymidone	ND	0.010
Prodiamine	ND	0.030
Profenofos	ND	0.010
Profluralin	ND	0.010
Promecarb	ND	0.010
Prometon	ND	0.010
Prometryn	ND	0.010
Pronamide (Propyzamide)	ND	0.010
Propachlor	ND	0.010
Propanil	ND	0.010
Propargite	ND	0.010
Propetamphos	ND	0.010
Propham	ND	0.030
Propiconazole I	LC/MS	0.010
Propiconazole II	ND	0.010
Propoxur	ND	0.010
Pyracarbolid	ND	0.010
Pyraclostrobin	ND	0.030
Pyrazophos	ND	0.010
Pyridaben	ND	0.010
Pyridaphenthion	ND	0.010
Pyrifenoxy I	ND	0.010
Pyrifenoxy II	ND	0.010
Pyrimethanil	ND	0.010
Pyriproxyfen	ND	0.010
Quinalphos	ND	0.010
Quinoxifen	ND	0.010
Quintozone	ND	0.010
Resmethrin -cis (cismethrin)	ND	0.010
Ronnel (Fenchlorphos)	ND	0.010
Sebumeon	ND	0.010
Simazine	ND	0.010
Simetryn	ND	0.010
Pentachlorobenzene	0.07	0.010

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: **Jay Billings**
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-7 (G)

Sample Date: 3/21/2017

EMA Sample No: 17032222-07a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import GC/MS/MS Sp - Z

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Analyte	Amount ppm	RL ppm
Spirodiclofen	ND	0.030
Spiromesifen	ND	0.030
Spiroxamine I	ND	0.010
Spiroxamine II	ND	0.010
Sulfotep	ND	0.010
Sulprofos	ND	0.030
Tebuconazole	LC/MS	0.010
Tebufenpyrad	ND	0.010
Tebupirimfos	ND	0.010
Tebutam	ND	0.010
Tebuthiuron	ND	0.010
Tecnazene (TCNB)	ND	0.010
Tefluthrin, cis-	ND	0.010
Terbacil	ND	0.010
Terbufos	ND	0.010
Terbumeton	ND	0.030
Terbuthylazine	ND	0.030
Tetrachloraniline, 2,3,5,6-	ND	0.010
Tetrachlorvinphos, e-isomer	ND	0.010
Tetraconazole	ND	0.010
Tetradifon	ND	0.010
Tetrahydrophthalimide, cis-1,2,3,6-	ND	0.010
Tetrahydrophthalimide, cis-Delta 4-	ND	0.030
Tetramethrin I	ND	0.010
Tetramethrin II	ND	0.010
Thiabendazole	ND	0.030
Thiamethoxam	ND	0.010
Thionazin	ND	0.030
Tolclofos-methyl	ND	0.010
Tolyfluanid	ND	0.010
Triadimefon	ND	0.010
Triadimenol	LC/MS	0.010
Triazophos	ND	0.010
Tricyclazole	ND	0.030
Trifloxystrobin	ND	0.010
Triflunizole	ND	0.010
Trifluralin	ND	0.010
Trimethacarb, 2,3,5-	ND	0.010
Trimethacarb, 3,4,5-	ND	0.010
Trimidal (Nuairimol)	ND	0.010
Triticonazole	ND	0.010
Vernolate	ND	0.030
Vinclozolin	ND	0.010

Comments:

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes
no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of
analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by
Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-7 (G)

Sample Date: 3/21/2017

EMA Sample No: 17032222-07a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import LC/MS/MS A-C

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
3-Hydroxycarbofuran	ND	0.010
Acephate	ND	0.010
Acetamiprid	ND	0.010
Acetochlor	ND	0.010
Acibenzolar-S-methyl	ND	0.010
Alanycarb	ND	0.010
Aldicarb-sulfone	ND	0.010
Aldicarb-sulfoxide	ND	0.010
Ametryn	ND	0.010
Amicarbazone	ND	0.010
Aminocarb	ND	0.010
Aspon	ND	0.010
Atrazine	ND	0.010
Avermectin Ba	ND	0.010
Azinphos-methyl	ND	0.010
Azoxystrobin	ND	0.010
Benalaxyl	ND	0.010
Bendiocarb	ND	0.010
Benfuracarb	ND	0.010
Bensulide	ND	0.010
Benzoximate	ND	0.010
Bifenazate	ND	0.010
Bitertanol	ND	0.010
Boscalid	ND	0.010
Bromuconazole (isomer)	ND	0.010
Bupirimate	ND	0.010
Buprofezin	ND	0.010
Butafenacil	ND	0.010
Butocarboxim	ND	0.010
Carbaryl	ND	0.010
Carbendazim	ND	0.010
Carbetamide	ND	0.010
Carbofuran	ND	0.010
Carbosulfan	ND	0.010
Carboxine	ND	0.010
Carfentrazone-ethyl	ND	0.010
Chlorantraniliprole	0.01	0.010
Chlordimeform	ND	0.010
Chlorfenvinphos	ND	0.010
Chlorfluazuron	ND	0.010
Chloroxuron	ND	0.010
Chlorpyrifos	ND	0.010
Chlorpyrifos-methyl	ND	0.010
Chlortoluron	ND	0.010
Clethodim	ND	0.010
Clofentezine	ND	0.010
Clothianidin	ND	0.010
Coumaphos	ND	0.010
Cumyluron	ND	0.010
Cyanazine	ND	0.010
Cyazofamid	ND	0.010
Cycluron	ND	0.010
Cyflufenamid	ND	0.010
Cyhexatin	ND	0.010
Cymoxanil	ND	0.010
Cyproconazole (isomer)	ND	0.010
Cyprodinil	ND	0.010
Cyromazine	ND	0.010

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-7 (G)

Sample Date: 3/21/2017

EMA Sample No: 17032222-07a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import LC/MS/MS D-F

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Daimuron	ND	0.010
Diafenthiuron	ND	0.010
Diazinon	ND	0.010
Dichlorvos	ND	0.010
Diclobutrazol	ND	0.010
Dicrotophos	ND	0.010
Diethofencarb	ND	0.010
Difenoconazole	ND	0.010
Diffubenzuron	ND	0.010
Dimethenamide	ND	0.010
Dimethoate	ND	0.010
Dimethomorph	ND	0.010
Dimoxystrobin	ND	0.010
Diniconazole	ND	0.010
Dioxacarb	ND	0.010
Diuron	ND	0.010
DMST	ND	0.010
DNOC	ND	0.010
Dodine	ND	0.010
Doramectin	ND	0.010
Emamectin Ba	ND	0.010
Epoxiconazole	ND	0.010
Eprinomectin	ND	0.010
Esprocarb	ND	0.010
Ethidimuron	ND	0.010
Ethiofencarb	ND	0.010
Ethiofencarb-sulfoxide	ND	0.010
Ethion	ND	0.010
Ethiprole	ND	0.010
Ethirimol	ND	0.010
Ethofumesate	ND	0.010
Ethoprop	ND	0.010
Etobenzanid	ND	0.010
Etoxazole	ND	0.010
Famoxadone	ND	0.010
Fenamidone	ND	0.010
Fenarimol	ND	0.010
Fenazaquin	ND	0.010
Fenbuconazole	ND	0.010
Fenbutatin Oxide	ND	0.010
Fenhexamid	ND	0.010
Fenobucarb	ND	0.010
Fenoxycarb	ND	0.010
Fenpropimorph	ND	0.010
Fenpyroximate	ND	0.010
Fenuron	ND	0.010
Flonicamid	ND	0.010
Fluazifop-butyl	ND	0.010
Flubendiamide	ND	0.010
Fludioxinil	ND	0.010
Flufenacet	ND	0.010
Flufenoxuron	ND	0.010
Fluometuron	ND	0.010
Fluopicolide	ND	0.010
Fluoxastrobin	ND	0.010
Fluquinconazole	ND	0.010
Flusilazole	ND	0.010
Flutolanil	ND	0.010
Flutriafol	ND	0.010
Fomesafen	ND	0.010
Forchlorfenuron	ND	0.010
Formetanate	ND	0.010
Fuberidazole	ND	0.010
Furalaxyl	ND	0.010

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-7 (G)

Sample Date: 3/21/2017

EMA Sample No: 17032222-07a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import LC/MS/MS H-O

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Halofenozide	ND	0.010
Hexaflumuron	ND	0.010
Hexazinone	ND	0.010
Hexythiazox	ND	0.010
Hydramethylnon	ND	0.010
Imazalil	ND	0.010
Imazapyr	ND	0.010
Imazethapyr	ND	0.010
Imibenconazole	ND	0.010
Imidacloprid	0.01	0.010
Indoxacarb	ND	0.010
Ipconazole	ND	0.010
Iprovalicarb	ND	0.010
Isocarbamid	ND	0.010
Isofenphos	ND	0.010
Isoprocab	ND	0.010
Isoprothiolane	ND	0.010
Isoproturon	ND	0.010
Ivermectin	ND	0.010
Kresoxim-methyl	ND	0.010
Lactofen	ND	0.010
Linuron	ND	0.010
Malathion	ND	0.010
Mandipropamid	ND	0.010
Mefenacet	ND	0.010
Mepanipyrim	ND	0.010
Mepronil	ND	0.010
Metaflumizone	ND	0.010
Metaxyl	ND	0.010
Metconazole	ND	0.010
Methamidophos	ND	0.010
Methfuroxam	ND	0.010
Methidathion	ND	0.010
Methiocarb	ND	0.010
Methomyl	ND	0.010
Methoprotrene	ND	0.010
Methoxyfenozide	ND	0.010
Metobromuron	ND	0.010
Metolachlor	ND	0.010
Metoxuron	ND	0.010
Metrafenone	ND	0.010
Metribuzin	ND	0.010
Metsulfuron-methyl	ND	0.010
Mevinphos	ND	0.010
Mexacarbate	ND	0.010
Molinate	ND	0.010
Monocrotophos	ND	0.010
Monolinuron	ND	0.010
Moxidectin	ND	0.010
Myclobutanil	ND	0.010
Napropamide	ND	0.010
Neburon	ND	0.010
Nitenpyram	ND	0.010
Novaluron	ND	0.010
Omethoate	ND	0.010
Oxamyl	ND	0.010
Oxadixyl	ND	0.010

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@engeo.net

Project No:

PO No:

Client Sample ID: S-7 (G)

Sample Date: 3/21/2017

EMA Sample No: 17032222-07a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import LC/MS/MS P-Trid

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Pencycuron	ND	0.010
Pendimethalin	ND	0.010
Phorate	ND	0.010
Phosmet	ND	0.010
Phoxim	ND	0.010
Picoxystrobin	ND	0.010
Piperonyl butoxide	ND	0.010
Pirimicarb	ND	0.010
Pirimiphos-methyl	ND	0.010
Prochloraz	ND	0.010
Promecarb	ND	0.010
Prometon	ND	0.010
Prometryn	ND	0.010
Propachlor	ND	0.010
Propamocarb	ND	0.010
Propargite	ND	0.010
Propazine	ND	0.010
Propham	ND	0.010
Propiconazole	0.02	0.010
Propoxur	ND	0.010
Propyzamide	ND	0.010
Pymetrozin	ND	0.010
Pyracarbolid	ND	0.010
Pyraclostrobin	ND	0.010
Pyridaben	ND	0.010
Pyridaphenthion	ND	0.010
Pyrimethanil	ND	0.010
Pyriproxyfen	ND	0.010
Quinoxifen	ND	0.010
Sebuthylazine	ND	0.010
Secbumeton	ND	0.010
Sethoxydim	ND	0.010
Siduron	ND	0.010
Simazine	ND	0.010
Simetryn	ND	0.010
Spinetoram-J +L	ND	0.010
Spinosad	ND	0.010
Spirodiclofen	ND	0.010
Spiromecifen	ND	0.010
Spirotetramat	ND	0.010
Spiroxamine	ND	0.010
Sulfentrazone	ND	0.010
Tebuconazole	0.03	0.010
Tebufenozide	ND	0.010
Tebufenpyrad	ND	0.010
Tebuthiuron	ND	0.010
Temephos	ND	0.010
Tepraloxymid	ND	0.010
Terbumeton	ND	0.010
Terbutryn	ND	0.010
Tetraconazole	ND	0.010
Thiabendazole	ND	0.010
Thiacloprid	ND	0.010
Thiamethoxam	ND	0.010
Thidiazuron	ND	0.010
Thiobencarb	ND	0.010
Thiofanox	ND	0.010
Thiophanate-methyl (Carbendazim)	ND	0.010
Triadimefon	ND	0.010
Triadimenol	0.03	0.010
Triazophos	ND	0.010
Tricyclazole	ND	0.010
Tridemorph	ND	0.010

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Analyte	Amount ppm	RL ppm
Trifloxystrobin	ND	0.010
Triflumizole	ND	0.010
Triflumuron	ND	0.010
Triflusulfuron-methyl	ND	0.010
Triphenyl Phosphate	ND	0.010
Triticonazole	ND	0.010
Uniconazole	ND	0.010
Vamidothion	ND	0.010
Zoxamide	ND	0.010

Project No:

PO No:

Client Sample ID: S-7 (G)

Sample Date: 3/21/2017

EMA Sample No: 17032222-07a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import LC/MS/MS Trif-Z

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes
no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of
analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by
Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Analyte

Ferbam
Maneb (Dithane M-22)
Mancozeb
Metiram
Nabam
Thiram
Zineb
Ziram

Amount
ppm

RL
ppm
ND 0.030
ND 0.030
ND 0.030
ND 0.030
ND 0.030
ND 0.030
ND 0.030
ND 0.030

Project No:

PO No:

Client Sample ID: S-7 (G)

Sample Date: 3/21/2017

EMA Sample No: 17032222-07a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: EBDC Screen

Extraction Method: CDFA

Date Extracted: 3/31/2017

Date Completed: 3/31/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes
no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of
analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by
Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Analyte

2, 4 - D
2, 4 -DB
2, 4, 5 - T
2, 4, 5 -TP
Dicamba
Dichloroprop
Bentazon
MCPA
MCP
Triclopyr

Amount
ppm

RL
ppm

ND 0.250
ND 0.250
ND 0.130
ND 0.130
ND 0.130
ND 0.130
ND 0.250
ND 0.250
ND 0.250
ND 0.250

Project No:

PO No:

Client Sample ID: S-7 (G)

Sample Date: 3/21/2017

EMA Sample No: 17032222-07a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: EPA 8151A (s)

Extraction Method: EPA 8151A

Date Extracted: 4/4/2017

Date Completed: 4/10/2017

Surrogate: DCAA

Surrogate Level: 0.2 mg/Kg

Recovery: 58.3

Comments:

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@negeo.net

Project No:

PO No:

Client Sample ID: S-7 (G)

Sample Date: 3/21/2017

EMA Sample No: 17032222-07a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: OC Screen

Extraction Method: CDFA

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate: Dibutylchlorodenate

Surrogate Level: 0.013 ppm

Recovery: NR

Comments:

Analyte	Amount ppm	RL ppm
a, b, d-BHC	ND	0.010
Alachlor	ND	0.020
Aldrin	ND	0.010
Benfluralin	ND	0.020
Bifenox	ND	0.050
Boscalid	ND	0.020
Bromacil	ND	0.040
Captafol	ND	0.040
Captan	ND	0.020
Chlordane (sum of Isomers)	ND	0.020
Chlorfenapyr	ND	0.040
Chlorobenzilate	ND	0.040
Chlorothalonil	ND	0.010
Cyanazine	ND	0.100
Dacthal	ND	0.020
DDD	ND	0.020
DDE	ND	0.020
DDT	ND	0.020
Dichlobenil	ND	0.030
Dichlone	ND	0.050
Dicloran	ND	0.020
Dicofol	ND	0.050
Dieldrin	ND	0.010
Endosulfan alpha	ND	0.010
Endosulfan beta	ND	0.010
Endosulfan sulfate	ND	0.010
Endosulfans (Total)	ND	0.010
Endrin	ND	0.010
Ethalfuralin	ND	0.030
Fenhexamid	ND	0.030
Folpet	ND	0.050
Heptachlor	ND	0.010
Heptachlor epoxide	ND	0.020
Hexachlorobenzene	ND	0.010
Indoxacarb	ND	0.030
Iprodione	ND	0.050
Lindane (gamma-BHC)	ND	0.010
Linuron	ND	0.150
Methoxychlor	ND	0.050
Metribuzin	ND	0.020
Mirex	ND	0.020
Myclobutanil	ND	0.050
Oxadiazon	ND	0.050
Oxyfluorfen	ND	0.040
Pendimethalin	ND	0.050
Pentachloronitrobenzene (PCNB)	ND	0.020
Pentachloroaniline (PCA)	ND	0.010
Perthane	ND	0.100
Polychlorinated Biphenyls	ND	0.250
Procymidone	ND	0.020
Profluralin	ND	0.020
Pronamide	ND	0.050
Propanil	ND	0.050
Tetradifon	ND	0.020
Toxaphene	ND	0.250
Triadimefon	ND	0.020
Trifloxystrobin	ND	0.030
Triflumazole	ND	0.050
Trifluralin	ND	0.020
Vegadex (Diethyldithiocarbamic Acid)	ND	0.050
Vinclozolin	ND	0.020
Dithiopyr	ND	0.020
Norflurazon	ND	0.020

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Analyte	Amount ppm	RL ppm
Bifenthrin	ND	0.020
Cyfluthrin	ND	0.040
Cypermethrin	ND	0.040
Deltamethrin	ND	0.020
Esfenvalerate	ND	0.030
Fenpropathrin	ND	0.010
Fluvalinate	ND	0.040
lambda Cyhalothrin	ND	0.010
Permethrin	ND	0.100
Tralomethrin	ND	0.020
Pyrethrins (Total)	ND	0.050

Project No:

PO No:

Client Sample ID: S-7 (G)

Sample Date: 3/21/2017

EMA Sample No: 17032222-07a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: Pyrethroid Screen

Extraction Method: CDFA

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate: Dibutylchloridate

Surrogate Level: 0.013 ppm

Recovery: NR

Comments:

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes
no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of
analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by
Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-7 (G)

Sample Date: 3/21/2017

EMA Sample No: 17032222-07b

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: OP Screen

Extraction Method: CDFA

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate: Triphenylphosphate

Surrogate Level: 0.067 ppm

Recovery: 125

Analyte	Amount ppm	RL ppm
Acephate	ND	0.020
Azinphos-methyl	ND	0.050
Bolstar	ND	0.030
Bensulide	ND	0.050
Carbofenthoion	ND	0.020
Chlorfenvinphos	ND	0.030
Chlorpyrifos	ND	0.020
Chlorpyrifos-methyl	ND	0.030
Ciodrin	ND	0.050
Coumaphos	ND	0.050
DEF	ND	0.050
Demeton (Systox) O/S Analogues	ND	0.040
Diazinon	ND	0.030
Dibrom	ND	0.050
Dichlorvos	ND	0.030
Dicrotophos	ND	0.020
Dimethoate	ND	0.020
Disulfoton	ND	0.020
EPN	ND	0.020
Ethion	ND	0.030
Ethoprop	ND	0.050
Fenamiphos	ND	0.020
Fenitrothion	ND	0.030
Fenthion	ND	0.020
Fonofos	ND	0.040
Isofenphos	ND	0.030
Malathion	ND	0.020
Metasystox-R	ND	0.050
Methamidophos	ND	0.030
Methidathion	ND	0.030
Methyl Parathion	ND	0.030
Mevinphos	ND	0.050
O-methoate	ND	0.050
Parathion	ND	0.040
Phorate	ND	0.050
Phosalone	ND	0.050
Phosmet	ND	0.030
Phosphamidon	ND	0.020
Pyrimiphos-methyl	ND	0.050
Profenofos	ND	0.020
Propetamphos	ND	0.020
Ronnel	ND	0.030
Tetrachlorvinphos	ND	0.020
Thionazin	ND	0.020

Comments:

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-7 (G)

Sample Date: 3/21/2017

EMA Sample No: 17032222-07b

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: ON Screen

Extraction Method: CDFA

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate: Triphenylphosphate

Surrogate Level: 0.067 ppm

Recovery: 125

Comments:

Analyte	Amount ppm	RL ppm
Acetamipride	ND	0.050
Atrazine	ND	0.030
Azoxystrobin	ND	0.030
Benthiocarb	ND	0.050
Cyanazine	ND	0.050
Cyromazine	ND	0.050
Cyprodinil	ND	0.050
Dimethomorph	ND	0.050
Diphenyl Amine	ND	0.050
Fenamidone	ND	0.050
Fenbuconazole	ND	0.050
Fipronil	ND	0.050
Fludioxinil	ND	0.050
Hexazinone	ND	0.050
Imazalil	ND	0.050
Kresoxim Methyl	ND	0.050
Metaxyl	ND	0.050
Metolachlor	ND	0.050
Metribuzin	ND	0.050
Molinate	ND	0.050
Myclobutanil	ND	0.050
Prometon	ND	0.050
Prometryne	ND	0.050
Propamocarb	ND	0.050
Propiconazole	LC/MS	0.050
Pymetrozine	ND	0.050
Pyraclostrobin	ND	0.050
Pyriproxifen	ND	0.050
Sethoxydim	ND	0.050
Simazine	ND	0.050
Tebuconazole	LC/MS	0.050
Terbacil	ND	0.050
Thiabendazole	ND	0.050
Desethyl Atrazine	ND	0.050

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@engeo.net

Project No:

PO No:

Client Sample ID: S-8 (F)

Sample Date: 3/21/2017

EMA Sample No: 17032222-08a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import GC/MS/MS A - Cx

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Acephate	ND	0.030
Acetamiprid	ND	0.030
Acrinathrin	ND	0.010
Adiisopropyl naphthalene, 2,6- (DIPN)	ND	0.010
Alachlor	ND	0.010
Aldrin	ND	0.010
Allethrin	ND	0.010
Ametryn	ND	0.010
Aminocarb	ND	0.010
Atrazine	ND	0.010
Azinphos-methyl	ND	0.010
Azoxystrobin	ND	0.010
Benalaxyl	ND	0.010
Azoxystrobin	ND	0.010
Bendiocarb	ND	0.010
Benfluralin	ND	0.010
Benoxacor	ND	0.010
BHC-alpha (Benzene)	ND	0.010
BHC-beta	ND	0.010
BHC-delta	ND	0.010
BHC-gamma (Lindane, gamma HCH)	ND	0.010
Bifenox	ND	0.010
Bifenthrin	ND	0.010
Bioresmethrin (resmethrin-trans)	ND	0.010
Bitertanol I	ND	0.010
Bitertanol II	ND	0.010
Boscalid	ND	0.010
Bromacil	ND	0.030
Bromophos-ethyl	ND	0.010
Bromophos-methyl	ND	0.010
Bromopropylate	ND	0.010
Bupirimate	ND	0.010
Buprofezin (z-isomer)	ND	0.010
Butachlor	ND	0.010
Butralin	ND	0.010
Butylate	ND	0.030
Cadusafos	ND	0.010
Captafol	ND	0.010
Captan	ND	0.030
Carbaryl	ND	0.010
Carbofuran	ND	0.010
Carbophenothion-ethyl	ND	0.010
Carbophenothion-methyl (methyl)	ND	0.010
Carbosulfan	ND	0.030
Carboxin	ND	0.010
Chlorbenzilate	ND	0.010
Chlordane-alpha	ND	0.010
Chlordane-oxy	ND	0.010
Chlordane-trans (gamma)	ND	0.010
Chlordimeform	ND	0.010
Chlorfenapyr	ND	0.010
Chlorfenvinphos	ND	0.010
Chlorobenzilate	ND	0.010
Chloroneb	ND	0.010
Chlorothalonil	ND	0.030
Chlorpropham	ND	0.010
Chlorpyrifos-ethyl	ND	0.010
Chlorpyrifos-methyl	ND	0.010
Chlorthiophos	ND	0.010
Clomazone	ND	0.010
Coumaphos	ND	0.010
Crotoxyphos	ND	0.010

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-8 (F)

Sample Date: 3/21/2017

EMA Sample No: 17032222-08a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import GC/MS/MS Cy - D

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Cyanazine	ND	0.010
Cyanofenphos	ND	0.010
Cyanophos	ND	0.010
Cycloate	ND	0.030
Cycluron	ND	0.010
Cyfluthrin (Total)	ND	0.010
Cyhalothrin (lambda)	ND	0.010
Cymiazole	ND	0.010
Cypermethrin (Total)	ND	0.010
Cyproconazole	ND	0.010
Cyprodinil	ND	0.010
DCPA (dacthal, Chlorthal-dimethyl)	ND	0.010
DDD-o,p'	ND	0.030
DDD-p,p'	ND	0.010
DDE-o,p'	ND	0.010
DDE-p,p'	ND	0.010
DDT-o,p'	ND	0.010
DDT-p,p'	ND	0.030
DEF (Tribufos)	ND	0.010
Deltamethrin	ND	0.010
Demeton-s-methyl	ND	0.030
Desmedipham	ND	0.010
Desmetryn	ND	0.010
Diallate I	ND	0.030
Diallate II	ND	0.010
Diazinon	ND	0.010
Diazinon-oxon (diazoxon)	ND	0.010
Dichlofenthion	ND	0.010
Dichlofluanid	ND	0.030
Dichlorobenzonitrile, 2,6- (Dichlobenil)	ND	0.030
Dichlorvos	ND	0.030
Dichloran (Dichloran)	ND	0.030
Dicofol-o,p'	ND	0.010
Dicofol-p,p' (Kelthane)	ND	0.010
Dicrototos (Dicrotophos)	ND	0.010
Dieldrin	ND	0.010
Diethofencarb	ND	0.010
Difenoconazole I	ND	0.010
Difenoconazole II	ND	0.010
Dimethachlor	ND	0.010
Dimethoate	ND	0.010
Dimethomorph I	ND	0.010
Dimethomorph II	ND	0.010
Diniconazole	ND	0.010
Dinitramine	ND	0.030
Dioxacarb	ND	0.030
Dioxathion	ND	0.010
Diphenamid	ND	0.010
Diphenylamine	ND	0.010
Disulfoton	ND	0.010
Disulfoton Sulfone	ND	0.010

R = Reported on another Screen

ND = None Detected at the Reporting Limit (RL)

Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.

Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.

Results relate only to items tested.

Samples are analyzed as received.

Reports should not be reproduced, except in full, without written consent by

Environmental Micro Analysis, Inc.

To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@engeo.net

Project No:

PO No:

Client Sample ID: S-8 (F)

Sample Date: 3/21/2017

EMA Sample No: 17032222-08a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import GC/MS/MS E - H

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Edifenphos	ND	0.010
Endosulfan I (alpha Isomer)	ND	0.010
Endosulfan II (beta Isomer)	ND	0.010
Endosulfan Sulfate	ND	0.010
Endrin	ND	0.010
Endrin Aldehyde	ND	0.030
EPN	ND	0.010
Epoxiconazole	ND	0.010
Esfenvalerate (Fenvalerate A-alpha)	ND	0.010
Etaconazole I	ND	0.010
Ethalfuralin (Sonalan)	ND	0.010
Ethiofencarb	ND	0.010
Ethiolate	ND	0.030
Ethion	ND	0.010
Ethofumesate	ND	0.010
Ethoprophos (Ethoprop)	ND	0.030
Ethoxyquin	ND	0.030
Etoxazole	ND	0.010
Etrifos	ND	0.010
Famoxadone	ND	0.010
Famphur	ND	0.010
Fenamidone	ND	0.030
Fenamiphos (Phenamiphos)	ND	0.010
Fenamiphos Sulfone	ND	0.010
Fenarimol	ND	0.010
Fenazaquin	ND	0.010
Fenbuconazole	ND	0.010
Fenfuram	ND	0.010
Fenhexamid	ND	0.010
Fenitrothion	ND	0.010
Fenobucarb	ND	0.010
Fenoxycarb	ND	0.010
Fenpropathrin	ND	0.010
Fenpropimorph	ND	0.010
Fensulfothion	ND	0.010
Fenthion	ND	0.010
Fenvalerate II	ND	0.010
Fipronil	ND	0.010
Flonicamid	ND	0.010
Fluchloralin	ND	0.010
Flucythrinate I	ND	0.010
Flucythrinate II	ND	0.010
Fludioxonil	ND	0.030
Fluopicolide	ND	0.010
Fluquiniconazole	ND	0.010
Flurenol-butyl	ND	0.010
Fluridone	ND	0.010
Flusilazole	ND	0.010
Flutolanil	ND	0.010
Flutriafol	ND	0.010
Fluvalinate I	ND	0.010
Folpet	ND	0.010
Fonofos	ND	0.010
Fuberidazole	ND	0.030
Furalaxyl	ND	0.010
Heptachlor	ND	0.010
Heptachlor exo-epoxide (Isomer B)	ND	0.010
Heptenophos	ND	0.010
Hexachlorobenzene	ND	0.030
Hexaconazole	ND	0.010
Hexythiazox	ND	0.030

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: **Jay Billings**
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-8 (F)

Sample Date: 3/21/2017

EMA Sample No: 17032222-08a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import GC/MS/MS I - Pd

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Imazalil	ND	0.030
Indoxacarb	ND	0.010
Iprobenfos	ND	0.030
Iprodione	ND	0.030
Isocarbamid (Isocarbamide)	ND	0.010
Isocarbophos	ND	0.010
Isodrin	ND	0.010
Isufenphos	ND	0.010
Isoprocarb	ND	0.010
Isopropalin	ND	0.010
Isoprothiolane	ND	0.030
Isoproturon	ND	0.030
Kresoxim-methyl	ND	0.010
Lenacil	ND	0.010
Leptophos	ND	0.010
Linuron	ND	0.010
Malaoxon (metabolite of Malathion)	ND	0.010
Malathion	ND	0.010
Mecarbam	ND	0.010
Mepanipyrim	ND	0.010
Mepronil	ND	0.010
Metalaxyl	ND	0.010
Metalddehyde	ND	0.030
Methidathion	ND	0.010
Methiocarb	ND	0.010
Methoprene	ND	0.030
Methoprotryne	ND	0.010
Methoxychlor, o,p'-	ND	0.010
Methoxychlor, p,p'-	ND	0.010
Metolachlor	ND	0.010
Metolcarb	ND	0.030
Metrafenone	ND	0.010
Metribuzin	ND	0.010
Mevinphos	ND	0.030
Mexacarbate	ND	0.010
MGK-264	ND	0.010
Mirex	ND	0.010
Molinate	ND	0.030
Monocrotophos	ND	0.030
Monolinuron	ND	0.010
Myclobutanil	ND	0.010
Naled	ND	0.030
Naphthaleneacetamide, 1-	ND	0.010
Napropamide	ND	0.010
Nicotine	ND	1.000
Nitrofen	ND	0.010
Nitrothal-isopropyl	ND	0.010
Nonachlor, cis-	ND	0.010
Nonachlor, Trans-	ND	0.010
Nuarimol	ND	0.010
Omethoate	ND	0.010
Oxadiazon	ND	0.010
Oxadixyl	ND	0.010
Oxyflurofen	ND	0.030
Paclobutrazole	ND	0.030
Paraoxon-ethyl	ND	0.010
Paraoxon-methyl	ND	0.010
Parathion-ethyl	ND	0.010
Parathion-methyl	ND	0.010

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes
no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of
analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by
Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-8 (F)

Sample Date: 3/21/2017

EMA Sample No: 17032222-08a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import GC/MS/MS Pe - So

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Penconazole	ND	0.010
Pendimethalin (Penoxaline)	ND	0.010
Pentachloroaniline	ND	0.010
Pentachloroanisole	ND	0.010
Pentachlorobenzonitrile	ND	0.010
Pentachlorothioanisole	ND	0.010
Peopiconazole	ND	0.010
Permethrin I	ND	0.010
Permethrin II (trans)	ND	0.010
Phenothrin I	ND	0.010
Phenothrin II	ND	0.010
Phenthoate	ND	0.010
Phenylphenol, 2-	ND	0.010
Phorate	ND	0.010
Phorate sulfone	ND	0.010
Phorate sulfoxide	ND	0.010
Phosalone	ND	0.010
Phosmet	ND	0.010
Phosmet oxon	ND	0.030
Phosphamidon I	ND	0.010
Phosphamidon II	ND	0.010
Piperonyl Butoxide	ND	0.010
Pirimicarb	ND	0.010
Pirimiphos-ethyl	ND	0.010
Pirimiphos-methyl	ND	0.010
Prochloraz	ND	0.010
Procymidone	ND	0.010
Prodiamine	ND	0.030
Profenofos	ND	0.010
Profluralin	ND	0.010
Promecarb	ND	0.010
Prometon	ND	0.010
Prometryn	ND	0.010
Pronamide (Propyzamide)	ND	0.010
Propachlor	ND	0.010
Propanil	ND	0.010
Propargite	ND	0.010
Propetamphos	ND	0.010
Propham	ND	0.030
Propiconazole I	ND	0.010
Propiconazole II	ND	0.010
Propoxur	ND	0.010
Pyracarbolid	ND	0.010
Pyraclostrobin	ND	0.030
Pyrazophos	ND	0.010
Pyridaben	ND	0.010
Pyridaphenthion	ND	0.010
Pyrifinox I	ND	0.010
Pyrifinox II	ND	0.010
Pyrimethanil	ND	0.010
Pyriproxyfen	ND	0.010
Quinalphos	ND	0.010
Quinoxifen	ND	0.010
Quintozene	ND	0.010
Resmethrin -cis (cismethrin)	ND	0.010
Ronnel (Fenchlorphos)	ND	0.010
Sebumeon	ND	0.010
Simazine	ND	0.010
Simetryn	ND	0.010

R = Reported on another Screen

ND = None Detected at the Reporting Limit (RL)

Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.

Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.

Results relate only to items tested.

Samples are analyzed as received.

Reports should not be reproduced, except in full, without written consent by

Environmental Micro Analysis, Inc.

To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-8 (F)

Sample Date: 3/21/2017

EMA Sample No: 17032222-08a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import GC/MS/MS Sp - Z

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

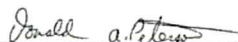
Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Spirodiclofen	ND	0.030
Spiromesifen	ND	0.030
Spiroxamine I	ND	0.010
Spiroxamine II	ND	0.010
Sulfotep	ND	0.010
Sulprofos	ND	0.030
Tebuconazole	ND	0.010
Tebufenpyrad	ND	0.010
Tebupirimfos	ND	0.010
Tebutam	ND	0.010
Tebuthiuron	ND	0.010
Tecnazene (TCNB)	ND	0.010
Tefluthrin, cis-	ND	0.010
Terbacil	ND	0.010
Terbufos	ND	0.010
Terbumeton	ND	0.030
Terbuthylazine	ND	0.030
Tetrachloraniline, 2,3,5,6-	ND	0.010
Tetrachlorvinphos, e-isomer	ND	0.010
Tetraconazole	ND	0.010
Tetradifon	ND	0.010
Tetrahydrophthalimide, cis-1,2,3,6-	ND	0.010
Tetrahydrophthalimide, cis-Delta 4-	ND	0.030
Tetramethrin I	ND	0.010
Tetramethrin II	ND	0.010
Thiabendazole	ND	0.030
Thiamethoxam	ND	0.010
Thionazin	ND	0.030
Tolclofos-methyl	ND	0.010
Tolylfluanid	ND	0.010
Triadimefon	ND	0.010
Triadimenol	ND	0.010
Triazophos	ND	0.010
Tricyclazole	ND	0.030
Trifloxystrobin	ND	0.010
Triflunizole	ND	0.010
Trifluralin	ND	0.010
Trimethacarb, 2,3,5-	ND	0.010
Trimethacarb, 3,4,5-	ND	0.010
Trimidal (Nuarimol)	ND	0.010
Triticonazole	ND	0.010
Vernolate	ND	0.030
Vinclozolin	ND	0.010

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes
no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of
analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by
Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>



Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-8 (F)

Sample Date: 3/21/2017

EMA Sample No: 17032222-08a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import LC/MS/MS A-C

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
3-Hydroxycarbofuran	ND	0.010
Acephate	ND	0.010
Acetamiprid	ND	0.010
Acetochlor	ND	0.010
Acibenzolar-S-methyl	ND	0.010
Alanycarb	ND	0.010
Aldicarb-sulfone	ND	0.010
Aldicarb-sulfoxide	ND	0.010
Ametryn	ND	0.010
Amicarbazone	ND	0.010
Aminocarb	ND	0.010
Aspon	ND	0.010
Atrazine	ND	0.010
Avermectin Ba	ND	0.010
Azinphos-methyl	ND	0.010
Azoxystrobin	ND	0.010
Benalaxyl	ND	0.010
Bendiocarb	ND	0.010
Benfuracarb	ND	0.010
Bensulide	ND	0.010
Benzoximate	ND	0.010
Bifenazate	ND	0.010
Bitertanol	ND	0.010
Boscalid	ND	0.010
Bromuconazole (isomer)	ND	0.010
Bupirimate	ND	0.010
Buprofezin	ND	0.010
Butafenacil	ND	0.010
Butocarbexim	ND	0.010
Carbaryl	ND	0.010
Carbendazim	ND	0.010
Carbetamide	ND	0.010
Carbofuran	ND	0.010
Carbosulfan	ND	0.010
Carboxine	ND	0.010
Carfentrazone-ethyl	ND	0.010
Chlorantraniliprole	ND	0.010
Chlordimeform	ND	0.010
Chlorfenvinphos	ND	0.010
Chlorfluazuron	ND	0.010
Chloroxuron	ND	0.010
Chlorpyrifos	ND	0.010
Chlorpyrifos-methyl	ND	0.010
Chlortoluron	ND	0.010
Clethodim	ND	0.010
Clofentezine	ND	0.010
Clothianidin	ND	0.010
Coumaphos	ND	0.010
Cumyluron	ND	0.010
Cyanazine	ND	0.010
Cyazofamid	ND	0.010
Cycluron	ND	0.010
Cyflufenamid	ND	0.010
Cyhexatin	ND	0.010
Cymoxanil	ND	0.010
Cyproconazole (isomer)	ND	0.010
Cyprodinil	ND	0.010
Cyromazine	ND	0.010

R = Reported on another Screen

ND = None Detected at the Reporting Limit (RL)

Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.

Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.

Results relate only to items tested.

Samples are analyzed as received.

Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.

To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@negeo.net

Project No:

PO No:

Client Sample ID: S-8 (F)

Sample Date: 3/21/2017

EMA Sample No: 17032222-08a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import LC/MS/MS D-F

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Daimuron	ND	0.010
Diafenthiuron	ND	0.010
Diazinon	ND	0.010
Dichlorvos	ND	0.010
Diclobutrazol	ND	0.010
Dicrotophos	ND	0.010
Diethofencarb	ND	0.010
Difenoconazole	ND	0.010
Diflubenzuron	ND	0.010
Dimethenamide	ND	0.010
Dimethoate	ND	0.010
Dimethomorph	ND	0.010
Dimoxystrobin	ND	0.010
Diniconazole	ND	0.010
Dioxacarb	ND	0.010
Diuron	ND	0.010
DMST	ND	0.010
DNOC	ND	0.010
Dodine	ND	0.010
Doramectin	ND	0.010
Emamectin Ba	ND	0.010
Epoxiconazole	ND	0.010
Eprinomectin	ND	0.010
Esprocarb	ND	0.010
Ethidimuron	ND	0.010
Ethiofencarb	ND	0.010
Ethiofencarb-sulfoxide	ND	0.010
Ethion	ND	0.010
Ethiprole	ND	0.010
Ethirimol	ND	0.010
Ethofumesate	ND	0.010
Ethoprop	ND	0.010
Etobenzanid	ND	0.010
Etoxazole	ND	0.010
Famoxadone	ND	0.010
Fenamidone	ND	0.010
Fenarimol	ND	0.010
Fenazaquin	ND	0.010
Fenbuconazole	ND	0.010
Fenbutatin Oxide	ND	0.010
Fenhexamid	ND	0.010
Fenobucarb	ND	0.010
Fenoxycarb	ND	0.010
Fenpropimorph	ND	0.010
Fenpyroximate	ND	0.010
Fenuron	ND	0.010
Flonicamid	ND	0.010
Fluazifop-butyl	ND	0.010
Flubendiamide	ND	0.010
Fludioxinil	ND	0.010
Flufenacet	ND	0.010
Flufenoxuron	ND	0.010
Fluometuron	ND	0.010
Fluopicolide	ND	0.010
Fluoxastrobin	ND	0.010
Fluquinconazole	ND	0.010
Flusilazole	ND	0.010
Flutolanil	ND	0.010
Flutriafol	ND	0.010
Fomesafen	ND	0.010
Forchlorfenuron	ND	0.010
Formetanate	ND	0.010
Fuberidazole	ND	0.010
Furalaxyl	ND	0.010

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@engeo.net

Project No:

PO No:

Client Sample ID: S-8 (F)

Sample Date: 3/21/2017

EMA Sample No: 17032222-08a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import LC/MS/MS H-O

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Halofenozide	ND	0.010
Hexaflumuron	ND	0.010
Hexazinone	ND	0.010
Hexythiazox	ND	0.010
Hydramethylnon	ND	0.010
Imazalil	ND	0.010
Imazapyr	ND	0.010
Imazethapyr	ND	0.010
Imibenconazole	ND	0.010
Imidacloprid	ND	0.010
Indoxacarb	ND	0.010
Ipconazole	ND	0.010
Iprovalicarb	ND	0.010
Isocarbamid	ND	0.010
Isofenphos	ND	0.010
Isoprocarb	ND	0.010
Isoprothiolane	ND	0.010
Isoproturon	ND	0.010
Ivermectin	ND	0.010
Kresoxim-methyl	ND	0.010
Lactofen	ND	0.010
Linuron	ND	0.010
Malathion	ND	0.010
Mandipropamid	ND	0.010
Mefenacet	ND	0.010
Mepanipyrim	ND	0.010
Mepronil	ND	0.010
Metaflumizone	ND	0.010
Metalaxyl	ND	0.010
Metconazole	ND	0.010
Methamidophos	ND	0.010
Methfuroxam	ND	0.010
Methidathion	ND	0.010
Methiocarb	ND	0.010
Methomyl	ND	0.010
Methoprotryne	ND	0.010
Methoxyfenozide	ND	0.010
Metobromuron	ND	0.010
Metolachlor	ND	0.010
Metoxuron	ND	0.010
Metrafenone	ND	0.010
Metribuzin	ND	0.010
Metsulfuron-methyl	ND	0.010
Mevinphos	ND	0.010
Mexacarbate	ND	0.010
Molinate	ND	0.010
Monocrotophos	ND	0.010
Monolinuron	ND	0.010
Moxidectin	ND	0.010
Myclobutanil	ND	0.010
Napropamide	ND	0.010
Neburon	ND	0.010
Nitenpyram	ND	0.010
Novaluron	ND	0.010
Omethoate	ND	0.010
Oxamyl	ND	0.010
Oxadixyl	ND	0.010

R = Reported on another Screen

ND = None Detected at the Reporting Limit (RL)

Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.

Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.

Results relate only to items tested.

Samples are analyzed as received.

Reports should not be reproduced, except in full, without written consent by

Environmental Micro Analysis, Inc.

To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-8 (F)

Sample Date: 3/21/2017

EMA Sample No: 17032222-08a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import LC/MS/MS P-Trid

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

Analyte	Amount ppm	RL ppm
Pencycuron	ND	0.010
Pendimethalin	ND	0.010
Phorate	ND	0.010
Phosmet	ND	0.010
Phoxim	ND	0.010
Picoxystrobin	ND	0.010
Piperonyl butoxide	ND	0.010
Pirimicarb	ND	0.010
Pirimiphos-methyl	ND	0.010
Prochloraz	ND	0.010
Promecarb	ND	0.010
Prometon	ND	0.010
Prometryn	ND	0.010
Propachlor	ND	0.010
Propamocarb	ND	0.010
Propargite	ND	0.010
Propazine	ND	0.010
Propham	ND	0.010
Propiconazole	ND	0.010
Propoxur	ND	0.010
Propyzamide	ND	0.010
Pymetrozin	ND	0.010
Pyracarbolid	ND	0.010
Pyraclostrobin	ND	0.010
Pyridaben	ND	0.010
Pyridaphenthion	ND	0.010
Pyrimethanil	ND	0.010
Pyriproxyfen	ND	0.010
Quinoxifen	ND	0.010
Sebuthylazine	ND	0.010
Secbumeton	ND	0.010
Sethoxydim	ND	0.010
Siduron	ND	0.010
Simazine	ND	0.010
Simetryn	ND	0.010
Spinetoram-J +L	ND	0.010
Spinosad	ND	0.010
Spirodiclofen	ND	0.010
Spiromecifen	ND	0.010
Spirotetramat	ND	0.010
Spiroxamine	ND	0.010
Sulfentrazone	ND	0.010
Tebuconazole	ND	0.010
Tebufenozide	ND	0.010
Tebufenpyrad	ND	0.010
Tebuthiuron	ND	0.010
Temephos	ND	0.010
Tepraloxym	ND	0.010
Terbumeton	ND	0.010
Terbutryn	ND	0.010
Tetraconazole	ND	0.010
Thiabendazole	ND	0.010
Thiacloprid	ND	0.010
Thiamethoxam	ND	0.010
Thidiazuron	ND	0.010
Thiobencarb	ND	0.010
Thiofanox	ND	0.010
Thiophanate-methyl (Carbendazim)	ND	0.010
Triadimefon	ND	0.010
Triadimenol	ND	0.010
Triazophos	ND	0.010
Tricyclazole	ND	0.010
Tridemorph	ND	0.010

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes
no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of
analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by
Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Analyte	Amount ppm	RL ppm
Trifloxystrobin	ND	0.010
Triflumizole	ND	0.010
Triflumuron	ND	0.010
Triflurosulfuron-methyl	ND	0.010
Triphenyl Phosphate	ND	0.010
Triticonazole	ND	0.010
Uniconazole	ND	0.010
Vamidothion	ND	0.010
Zoxamide	ND	0.010

Project No:

PO No:

Client Sample ID: S-8 (F)

Sample Date: 3/21/2017

EMA Sample No: 17032222-08a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: FDA Import LC/MS/MS Trif-Z

Extraction Method: FDA 302

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes
no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of
analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by
Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Analyte

Ferbam
Maneb (Dithane M-22)
Mancozeb
Metiram
Nabam
Thiram
Zineb
Ziram

Amount ppm	RL ppm
ND	0.030
ND	0.030
ND	0.030
ND	0.030
ND	0.030
ND	0.030
ND	0.030
ND	0.030

Project No:

PO No:

Client Sample ID: S-8 (F)

Sample Date: 3/21/2017

EMA Sample No: 17032222-08a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: EBDC Screen

Extraction Method: CDFA

Date Extracted: 3/31/2017

Date Completed: 3/31/2017

Surrogate:

Surrogate Level:

Recovery:

Comments:

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@engeo.net

Analyte

2, 4 - D
2, 4 -DB
2, 4, 5 - T
2, 4, 5 -TP
Dicamba
Dichloroprop
Bentazon
MCPA
MCP
Triclopyr

Amount
ppm

RL
ppm

ND 0.250
ND 0.250
ND 0.130
ND 0.130
ND 0.130
ND 0.130
ND 0.250
ND 0.250
ND 0.250
ND 0.250

Project No:

PO No:

Client Sample ID: S-8 (F)

Sample Date: 3/21/2017

EMA Sample No: 17032222-08a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: EPA 8151A (s)

Extraction Method: EPA 8151A

Date Extracted: 4/4/2017

Date Completed: 4/10/2017

Surrogate: DCAA

Surrogate Level: 0.2 mg/Kg

Recovery: 55.7

Comments:

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes
no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of
analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by
Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-8 (F)

Sample Date: 3/21/2017

EMA Sample No: 17032222-08a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: OC Screen

Extraction Method: CDFA

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate: Dibutylchloridate

Surrogate Level: 0.013 ppm

Recovery: 126

Comments:

Analyte	Amount ppm	RL ppm
a, b, d-BHC	ND	0.010
Alachlor	ND	0.020
Aldrin	ND	0.010
Benfluralin	ND	0.020
Bifenox	ND	0.050
Boscalid	ND	0.020
Bromacil	ND	0.040
Captan	ND	0.040
Captan	ND	0.020
Chlordane (sum of Isomers)	ND	0.020
Chlorfenapyr	ND	0.040
Chlorobenzilate	ND	0.040
Chlorothalonil	ND	0.010
Cyanazine	ND	0.100
Dacthal	ND	0.020
DDD	ND	0.020
DDE	ND	0.020
DDT	ND	0.020
Dichlobenil	ND	0.030
Dichlone	ND	0.050
Dicloran	ND	0.020
Dicofol	ND	0.050
Dieldrin	ND	0.010
Endosulfan alpha	ND	0.010
Endosulfan beta	ND	0.010
Endosulfan sulfate	ND	0.010
Endosulfans (Total)	ND	0.010
Endrin	ND	0.010
Ethafuralin	ND	0.030
Fenhexamid	ND	0.030
Folpet	ND	0.050
Heptachlor	ND	0.010
Heptachlor epoxide	ND	0.020
Hexachlorobenzene	ND	0.010
Indoxacarb	ND	0.030
Iprodione	ND	0.050
Lindane (gamma-BHC)	ND	0.010
Linuron	ND	0.150
Methoxychlor	ND	0.050
Metribuzin	ND	0.020
Mirex	ND	0.020
Myclobutanil	ND	0.050
Oxadiazon	ND	0.050
Oxyfluorfen	ND	0.040
Pendimethalin	ND	0.050
Pentachloronitrobenzene (PCNB)	ND	0.020
Pentachloroaniline (PCA)	ND	0.010
Perthane	ND	0.100
Polychlorinated Biphenyls	ND	0.250
Procymidone	ND	0.020
Profluralin	ND	0.020
Pronamide	ND	0.050
Propanil	ND	0.050
Tetradifon	ND	0.020
Toxaphene	ND	0.250
Triadimefon	ND	0.020
Trifloxystrobin	ND	0.030
Triflumazole	ND	0.050
Trifluralin	ND	0.020
Vegadex (Diethyldithiocarbamic Acid)	ND	0.050
Vinclozolin	ND	0.020
Dithiopyr	ND	0.020
Norflurazon	ND	0.020

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Analyte	Amount ppm	RL ppm
Bifenthrin	ND	0.020
Cyfluthrin	ND	0.040
Cypermethrin	ND	0.040
Deltamethrin	ND	0.020
Esfenvalerate	ND	0.030
Fenpropathrin	ND	0.010
Fluvalinate	ND	0.040
lambda Cyhalothrin	ND	0.010
Permethrin	ND	0.100
Tralomethrin	ND	0.020
Pyrethrins (Total)	ND	0.050

Project No:

PO No:

Client Sample ID: S-8 (F)

Sample Date: 3/21/2017

EMA Sample No: 17032222-08a

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: Pyrethroid Screen

Extraction Method: CDFA

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate: Dibutylchloridate

Surrogate Level: 0.013 ppm

Recovery: 126

Comments:

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes
no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of
analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by
Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-8 (F)

Sample Date: 3/21/2017

EMA Sample No: 17032222-08b

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: OP Screen

Extraction Method: CDFA

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate: Triphenylphosphate

Surrogate Level: 0.067 ppm

Recovery: 116

Analyte	Amount ppm	RL ppm
Acephate	ND	0.020
Azinphos-methyl	ND	0.050
Bolstar	ND	0.030
Bensulide	ND	0.050
Carbofenthoion	ND	0.020
Chlorfenvinphos	ND	0.030
Chlorpyrifos	ND	0.020
Chlorpyrifos-methyl	ND	0.030
Ciodrin	ND	0.050
Coumaphos	ND	0.050
DEF	ND	0.050
Demeton (Systox) O/S Analogues	ND	0.040
Diazinon	ND	0.030
Dibrom	ND	0.050
Dichlorvos	ND	0.030
Dicrotophos	ND	0.020
Dimethoate	ND	0.020
Disulfoton	ND	0.020
EPN	ND	0.020
Ethion	ND	0.030
Ethoprop	ND	0.050
Fenamiphos	ND	0.020
Fenitrothion	ND	0.030
Fenthion	ND	0.020
Fonofos	ND	0.040
Isofenphos	ND	0.030
Malathion	ND	0.020
Metasystox-R	ND	0.050
Methamidophos	ND	0.030
Methidathion	ND	0.030
Methyl Parathion	ND	0.030
Mevinphos	ND	0.050
O-methoate	ND	0.050
Parathion	ND	0.040
Phorate	ND	0.050
Phosalone	ND	0.050
Phosmet	ND	0.030
Phosphamidon	ND	0.020
Pyrimiphos-methyl	ND	0.050
Profenofos	ND	0.020
Propetamphos	ND	0.020
Ronnel	ND	0.030
Tetrachlorvinphos	ND	0.020
Thionazin	ND	0.020

Comments:

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>

Analytical Report Revised

April 26, 2017

Client: Jay Billings
Northeast Geoscience
97 Walnut Street
Clinton, MA 01510
Phone: (978) 365-9045
Fax: (978) 365-9378
Email: jbillings@ngeo.net

Project No:

PO No:

Client Sample ID: S-8 (F)

Sample Date: 3/21/2017

EMA Sample No: 17032222-08b

Date Received: 3/22/2017

Sample Matrix: Soil

Analytical Method: ON Screen

Extraction Method: CDFA

Date Extracted: 4/4/2017

Date Completed: 4/5/2017

Surrogate: Triphenylphosphate

Surrogate Level: 0.067 ppm

Recovery: 116

Analyte	Amount ppm	RL ppm
Acetamipride	ND	0.050
Atrazine	ND	0.030
Azoxystrobin	ND	0.030
Benthiocarb	ND	0.050
Cyanazine	ND	0.050
Cyromazine	ND	0.050
Cyprodinil	ND	0.050
Dimethomorph	ND	0.050
Diphenyl Amine	ND	0.050
Fenamidone	ND	0.050
Fenbuconazole	ND	0.050
Fipronil	ND	0.050
Fludioxinil	ND	0.050
Hexazinone	ND	0.050
Imazalil	ND	0.050
Kresoxim Methyl	ND	0.050
Metalaxyl	ND	0.050
Metolachlor	ND	0.050
Metribuzin	ND	0.050
Molinate	ND	0.050
Myclobutanil	ND	0.050
Prometon	ND	0.050
Prometryne	ND	0.050
Propamocarb	ND	0.050
Propiconazole	ND	0.050
Pymetrozine	ND	0.050
Pyraclostrobin	ND	0.050
Pyriproxifen	ND	0.050
Sethoxydim	ND	0.050
Simazine	ND	0.050
Tebuconazole	ND	0.050
Terbacil	ND	0.050
Thiabendazole	ND	0.050
Desethyl Atrazine	ND	0.050

Comments:

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180. Environmental Micro Analysis, Inc. makes
no claims as to the accuracy of tolerance numbers.
Excess sample and extracts are stored for a minimum of 30 days from the date of
analytical report. Special storage arrangements possible.
Results relate only to items tested.
Samples are analyzed as received.
Reports should not be reproduced, except in full, without written consent by
Environmental Micro Analysis, Inc.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>