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January 25, 2017

By Hand

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

RE: 18 Boyd Drive / Water Quality Testing

Dear Mr. Chair and Members of the Planning Board;

Reference is made to the above captioned matter and the attached letter from Jay Billings of even date along with the test results from the City. Please note the wells tested were the wells located closest to the Applicant's property but located on City Property between the location of the proposed subdivision and Well No. 2. In the words of Doug Gove, P.E. of AECOM, the City's expert, on January 23, 2017, "Please note that the lab expanded the list of contaminants analyzed to around 250. Results for both wells were clean."

We look forward to discuss this with you on Wednesday.

Respectfully submitted
Evergreen Commons LLC
By Its Attorney

A handwritten signature in black ink, appearing to be "J. Gove", written over a horizontal line.

cc: Board of Health

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



January 25, 2017

Ms. Lisa Mead
Blatman, Bobrowski, Mead and Talerman, LLC
30 Green Street
Newburyport, MA 01950

Re: Water Quality Testing Results
City of Newburyport Property and Evergreen Commons
Newburyport, MA

Dear Ms. Mead:

Northeast Geoscience, Inc. (NGI) has reviewed the results of laboratory testing of two groundwater samples collected by representatives of the City of Newburyport. Water samples were collected from observation wells B-4 and B-6 on the City of Newburyport Property adjacent to Well No. 2 and the Evergreen Valley Golf Course on December 21, 2016. The samples were submitted to Environmental Micro Analysis, Inc. of Woodland, CA for analysis for over 250 synthetic organic compounds which are herbicides, pesticides, fungicides and insecticides. The list includes products known to have been applied to Evergreen Valley Golf Course in 2014, 2015 and 2016. The list also includes 2,4-D and Dicamba, the two most widely used compounds in commercially available weed and feed products typically used in residential lawn care practices.

None of these compounds were detected in the water samples collected. It should also be noted that the laboratory achieved low detection limits (typically as low as 50 parts per trillion) for these compounds using a combination of gas chromatography, liquid chromatography and mass spectrometry methods. The results are consistent with the results of synthetic organic compound (SOC) testing of three groundwater samples from the golf course where no compounds were detected as reported in a letter from NGI to the Newburyport Planning Board dated October 11, 2016. This finding is also consistent with the results of SOC testing conducted by the City of Newburyport Well No. 2 in February and December 2015 where no compounds were detected.

Available results provide no evidence either turf management on the golf course or lawn care activities on existing lawns in the vicinity of Well No. 2 have resulted in detectable concentrations of these products in groundwater. This is not surprising when considering advances in the selection of turf and lawn care products that are designed to not be persistent or mobile in the environment. Please feel free to contact me with any questions.

Sincerely,
NORTHEAST GEOSCIENCE, INC.



Jay Billings
Hydrogeologist

Analytical Report

January 11, 2017

Client: Robert Kennedy
Aecom
250 Apollo Drive
Chelmsford, MA 01824
Phone: (978) 905-2100
Fax:
Email: robert.kennedy@aecom.com

Project No: Evergreen - Newburg Port

PO No: 6033343.09

Client Sample ID: B-4

Sample Date: 12/21/2016
EMA Sample No: 16122316-01
Date Received: 12/23/2016
Sample Matrix: Water

Analytical Method: FDA Import GC/MS/MS

Extraction Method: EPA 3510

Date Extracted: 12/28/2016

Date Completed: 12/30/2016

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>

Analyte	Amount µg/L	RL µg/L
Acephate	ND	0.15
Acetamiprid	ND	0.15
Acrinathrin	ND	0.05
Adiisopropylinaphthalene, 2,6- (DIPN,	ND	0.05
Alachlor	ND	0.05
Aldrin	ND	0.05
Allethrin	ND	0.05
Ametryn	ND	0.05
Aminocarb	ND	0.05
Atrazine	ND	0.05
Azinphos-methyl	ND	0.05
Azoxystrobin	ND	0.05
Benalaxyl	ND	0.05
Azoxystrobin	ND	0.05
Bendiocarb	ND	0.05
Benfluralin	ND	0.05
Benoxacor	ND	0.05
BHC-alpha (Benzene	ND	0.05
BHC-beta	ND	0.05
BHC-delta	ND	0.05
BHC-gamma (Lindane, gamma HCH)	ND	0.05
BifenoX	ND	0.05
Bifenthrin	ND	0.05
Bioresmethrin (resmethrin-trans)	ND	0.05
Bitertanol I	ND	0.05
Bitertanol II	ND	0.05
Boscalid	ND	0.05
Bromacil	ND	0.15
Bromophos-ethyl	ND	0.05
Bromophos-methyl	ND	0.05
Bromopropylate	ND	0.05
Bupirimate	ND	0.05
Buprofezin (z-isomer)	ND	0.05
Butachlor	ND	0.05
Butralin	ND	0.05
Butylate	ND	0.15
Cadusafos	ND	0.05
Captafol	ND	0.05
Captan	ND	0.15
Carbaryl	ND	0.05
Carbofuran	ND	0.05
Carbophenothion-ethyl	ND	0.05
Carbophenothion-methyl (methyl	ND	0.05
Carbosulfan	ND	0.15
Carboxin	ND	0.05
Chlorbenzilate	ND	0.05
Chlordane-alpha	ND	0.05
Chlordane-oxy	ND	0.05
Chlordane-trans (gamma)	ND	0.05
Chlordimeform	ND	0.05
Chlorfenapyr	ND	0.05
Chlorfenvinphos	ND	0.05
Chlorobenzilate	ND	0.05
Chloroneb	ND	0.05
Chlorothalonil	ND	0.15
Chlorpropham	ND	0.05
Chlorpyrifos-ethyl	ND	0.05
Chlorpyrifos-methyl	ND	0.05
Chlorthiophos	ND	0.05
Clomazone	ND	0.05
Coumaphos	ND	0.05
Crotoxypfos	ND	0.05

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Surrogate Level:

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Analyte	Amount µg/L	RL µg/L
Cyanazine	ND	0.05
Cyanofenphos	ND	0.05
Cyanophos	ND	0.05
Cycloate	ND	0.15
Cycluron	ND	0.05
Cyfluthrin (Total)	ND	0.05
Cyhalothrin (lambda)	ND	0.05
Cymiazole	ND	0.05
Cypermethrin (Total)	ND	0.05
Cyproconazole	ND	0.05
Cyprodinil	ND	0.05
DCPA (dacthal, Chlorthal-dimethyl)	ND	0.05
DDD-o,p'	ND	0.15
DDD-p,p'	ND	0.05
DDE-o,p'	ND	0.05
DDE-p,p'	ND	0.05
DDT-o,p'	ND	0.05
DDT-p,p'	ND	0.15
DEF (Tribufos)	ND	0.05
Deltamethrin	ND	0.05
Demeton-s-methyl	ND	0.15
Desmedipham	ND	0.05
Desmetryn	ND	0.05
Diallate I	ND	0.15
Diallate II	ND	0.05
Diazinon	ND	0.05
Diazinon-oxon (diazoxon)	ND	0.05
Dichlofenthion	ND	0.05
Dichlofluanid	ND	0.15
Dichlorobenzonitrile, 2,6- (Dichlobenil)	ND	0.15
Dichlorvos	ND	0.15
Dichloran (Dichloran)	ND	0.15
Dicofol-o,p'	ND	0.05
Dicofol-p,p' (Kelthane)	ND	0.05
Dicrotofos (Dicrotophos)	ND	0.05
Dieldrin	ND	0.05
Diethofencarb	ND	0.05
Difenoconazole I	ND	0.05
Difenoconazole II	ND	0.05
Dimethachlor	ND	0.05
Dimethoate	ND	0.05
Dimethomorph I	ND	0.05
Dimethomorph II	ND	0.05
Diniconazole	ND	0.05
Dinitramine	ND	0.15
Dioxacarb	ND	0.15
Dioxathion	ND	0.05
Diphenamid	ND	0.05
Diphenylamine	ND	0.05
Disulfoton	ND	0.05
Disulfoton Sulfone	ND	0.05

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Analyte	Amount µg/L	RL µg/L
Edifenphos	ND	0.05
Endosulfan I (alpha Isomer)	ND	0.05
Endosulfan II (beta Isomer)	ND	0.05
Endosulfan Sulfate	ND	0.05
Endrin	ND	0.05
Endrin Aldehyde	ND	0.15
EPN	ND	0.05
Epoxiconazole	ND	0.05
Esfenvalerate (Fenvalerate A-alpha)	ND	0.05
Etaconazole I	ND	0.05
Ethalfuralin (Sonalan)	ND	0.05
Ethiofencarb	ND	0.05
Ethiolate	ND	0.15
Ethion	ND	0.05
Ethofumesate	ND	0.05
Ethoprophos (Ethoprop)	ND	0.15
Ethoxyquin	ND	0.15
Etoxazole	ND	0.05
Etrimfos	ND	0.05
Famoxadone	ND	0.05
Famphur	ND	0.05
Fenamidone	ND	0.15
Fenamiphos (Phenamiphos)	ND	0.05
Fenamiphos Sulfone	ND	0.05
Fenarimol	ND	0.05
Fenazaquin	ND	0.05
Fenbuconazole	ND	0.05
Fenfuram	ND	0.05
Fenhexamid	ND	0.05
Fenitrothion	ND	0.05
Fenobucarb	ND	0.05
Fenoxycarb	ND	0.05
Fenpropathrin	ND	0.05
Fenpropimorph	ND	0.05
Fensulfathion	ND	0.05
Fenthion	ND	0.05
Fenvalerate II	ND	0.05
Fipronil	ND	0.05
Flonicamid	ND	0.05
Fluchloralin	ND	0.05
Flucythrinate I	ND	0.05
Flucythrinate II	ND	0.05
Fludioxonil	ND	0.15
Fluopicolide	ND	0.05
Fluquiniconazole	ND	0.05
Flurenol-butyl	ND	0.05
Fluridone	ND	0.05
Flusilazole	ND	0.05
Flutolanil	ND	0.05
Flutriafol	ND	0.05
Fluvalinate I	ND	0.05
Folpet	ND	0.05
Fonofos	ND	0.05
Fuberidazole	ND	0.15
Furalaxyl	ND	0.05
Heptachlor	ND	0.05
Heptachlor exo-epoxide (Isomer B)	ND	0.05
Heptenophos	ND	0.05
Hexachlorobenzene	ND	0.15
Hexaconazole	ND	0.05
Hexythiazox	ND	0.15

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Analyte	Amount ug/L	RL ug/L
Imazalil	ND	0.15
Indoxacarb	ND	0.05
Iprobenfos	ND	0.15
Iprodione	ND	0.15
Isocarbamid (Isocarbamide)	ND	0.05
Isocarbophos	ND	0.05
Isodrin	ND	0.05
Isopropylphos	ND	0.05
Isopropylcarb	ND	0.05
Isopropalin	ND	0.05
Isopropylthiolane	ND	0.15
Isoproturon	ND	0.15
Kresoxim-methyl	ND	0.05
Lenacil	ND	0.05
Leptophos	ND	0.05
Linuron	ND	0.05
Malaoxon (metabolite of Malathion)	ND	0.05
Malathion	ND	0.05
Mecarbam	ND	0.05
Mepanipyrim	ND	0.05
Mepronil	ND	0.05
Metalaxyl	ND	0.05
Metaldehyde	ND	0.15
Methidathion	ND	0.05
Methiocarb	ND	0.05
Methoprene	ND	0.15
Methoprotetryne	ND	0.05
Methoxychlor, o,p'-	ND	0.05
Methoxychlor, p,p'-	ND	0.05
Metolachlor	ND	0.05
Metolcarb	ND	0.15
Metrafenone	ND	0.05
Metribuzin	ND	0.05
Mevinphos	ND	0.15
Mexacarbate	ND	0.05
MGK-264	ND	0.05
Mirex	ND	0.05
Molinate	ND	0.15
Monocrotophos	ND	0.15
Monolinuron	ND	0.05
Myclobutanil	ND	0.05
Naled	ND	0.15
Naphthaleneacetamide, 1-	ND	0.05
Napropamide	ND	0.05
Nicotine	ND	0.15
Nitrofen	ND	0.05
Nitrothal-isopropyl	ND	0.05
Nonachlor, cis-	ND	0.05
Nonachlor, Trans-	ND	0.05
Nuarimol	ND	0.05
Omethoate	ND	0.05
Oxadiazon	ND	0.05
Oxadixyl	ND	0.05
Oxyfluorfen	ND	0.15
Paclobutrazole	ND	0.15
Paraaxon-ethyl	ND	0.05
Paraaxon-methyl	ND	0.05
Parathion-ethyl	ND	0.05
Parathion-methyl	ND	0.05

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Date Completed: 12/30/2016

Surrogate:

Surrogate Level:

% Recovery:

Comments:

Analyte	Amount µg/L	RL µg/L
Penconazole	ND	0.05
Pendimethalin (Penoxaline)	ND	0.05
Pentachloroaniline	ND	0.05
Pentachloroanisole	ND	0.05
Pentachlorobenzonitrile	ND	0.05
Pentachlorothioanisole	ND	0.05
Peopiconazole	ND	0.05
Permethrin I	ND	0.05
Permethrin II (trans)	ND	0.05
Phenothrin I	ND	0.05
Phenothrin II	ND	0.05
Phenthoate	ND	0.05
Phenylphenol, 2-	ND	0.05
Phorate	ND	0.05
Phorate sulfone	ND	0.05
Phorate sulfoxide	ND	0.05
Phosalone	ND	0.05
Phosmet	ND	0.05
Phosmet oxon	ND	0.15
Phosphamidon I	ND	0.05
Phosphamidon II	ND	0.05
Piperonyl Butoxide	ND	0.05
Pirimicarb	ND	0.05
Pirimiphos-ethyl	ND	0.05
Pirimiphos-methyl	ND	0.05
Prochloraz	ND	0.05
Procymidone	ND	0.05
Prodiamine	ND	0.15
Profenofos	ND	0.05
Profluralin	ND	0.05
Promecarb	ND	0.05
Prometon	ND	0.05
Prometryn	ND	0.05
Pronamide (Propyzamide)	ND	0.05
Propachlor	ND	0.05
Propanil	ND	0.05
Propargite	ND	0.05
Propetamphos	ND	0.05
Propham	ND	0.15
Propiconazole I	ND	0.05
Propiconazole II	ND	0.05
Propoxur	ND	0.05
Pyracarbolid	ND	0.05
Pyraclostrobin	ND	0.15
Pyrazophos	ND	0.05
Pyridaben	ND	0.05
Pyridaphenthion	ND	0.05
Pyrifeno I	ND	0.05
Pyrifeno II	ND	0.05
Pyrimethanil	ND	0.05
Pyriproxyfen	ND	0.05
Quinalphos	ND	0.05
Quinoxifen	ND	0.05
Quintozone	ND	0.05
Resmethrin -cis (cismethrin)	ND	0.05
Ronnel (Fenchlorphos)	ND	0.05
Sebumeon	ND	0.05
Simazine	ND	0.05
Simetryn	ND	0.05

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Surrogate:

Surrogate Level:

% Recovery:

Analyte	Amount µg/L	RL µg/L
Spirodiclofen	ND	0.15
Spiromesifen	ND	0.15
Spiroxamine I	ND	0.05
Spiroxamine II	ND	0.05
Sulfotep	ND	0.05
Sulprofos	ND	0.15
Tebuconazole	ND	0.05
Tebuconazole	ND	0.05
Tebufenpyrad	ND	0.05
Tebupirimfos	ND	0.05
Tebutam	ND	0.05
Tebuthiuron	ND	0.05
Tecnazene (TCNB)	ND	0.05
Tefluthrin, cis-	ND	0.05
Terbacil	ND	0.05
Terbufos	ND	0.05
Terbumeton	ND	0.15
Terbutylazine	ND	0.15
Tetrachloraniline, 2,3,5,6-	ND	0.05
Tetrachlorvinphos, e-isomer	ND	0.05
Tetraconazole	ND	0.05
Tetradifon	ND	0.05
Tetrahydrophthalimide, cis-1,2,3,6-	ND	0.05
Tetrahydrophthalimide, cis-Delta 4-	ND	0.15
Tetramethrin I	ND	0.05
Tetramethrin II	ND	0.05
Thiabendazole	ND	0.15
Thiamethoxam	ND	0.05
Thionazin	ND	0.15
Tolclofos-methyl	ND	0.05
Tolylfluanid	ND	0.05
Triadimefon	ND	0.05
Triadimenol	ND	0.05
Triazophos	ND	0.05
Tricyclazole	ND	0.15
Trifloxystrobin	ND	0.05
Triflunizole	ND	0.05
Trifluralin	ND	0.05
Trimethacarb, 2,3,5-	ND	0.05
Trimethacarb, 3,4,5-	ND	0.05
Trimidol (Nuarimol)	ND	0.05
Triticonazole	ND	0.05
Vernolate	ND	0.15
Vinclozolin	ND	0.05

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Surrogate:

Surrogate Level:

% Recovery:

Comments:

Analyte	Amount µg/L	RL µg/L
3-Hydroxycarbofuran	ND	0.05
Acephate	ND	0.05
Acetamiprid	ND	0.05
Acetochlor	ND	0.05
Acibenzolar-S-methyl	ND	0.05
Alanycarb	ND	0.05
Aldicarb-sulfone	ND	0.05
Aldicarb-sulfoxide	ND	0.05
Ametryn	ND	0.05
Amicarbazone	ND	0.05
Aminocarb	ND	0.05
Aspon	ND	0.05
Atrazine	ND	0.05
Avermectin Ba	ND	0.05
Azinphos-methyl	ND	0.05
Azoxystrobin	ND	0.05
Benalaxyl	ND	0.05
Bendiocarb	ND	0.05
Bentfuracarb	ND	0.05
Bensulide	ND	0.05
Benzoximate	ND	0.05
Bifenazate	ND	0.05
Bitertanol	ND	0.05
Boscalid	ND	0.05
Bromuconazole (isomer)	ND	0.05
Bupirimate	ND	0.05
Buprofezin	ND	0.05
Butafenacil	ND	0.05
Butocarboxim	ND	0.05
Carbaryl	ND	0.05
Carbendazim	ND	0.05
Carbetamide	ND	0.05
Carbofuran	ND	0.05
Carbosulfan	ND	0.05
Carboxine	ND	0.05
Carfentrazone-ethyl	ND	0.05
Chlorantraniliprole	ND	0.05
Chlordimeform	ND	0.05
Chlorfenvinphos	ND	0.05
Chlorfluazuron	ND	0.05
Chloroxuron	ND	0.05
Chlorpyrifos	ND	0.05
Chlorpyrifos-methyl	ND	0.05
Chlortoluron	ND	0.05
Clethodim	ND	0.05
Clofentezine	ND	0.05
Clothianidin	ND	0.05
Coumaphos	ND	0.05
Cumyluron	ND	0.05
Cyanazine	ND	0.05
Cyazofamid	ND	0.05
Cycluron	ND	0.05
Cyflufenamid	ND	0.05
Cyhexatin	ND	0.05
Cymoxanil	ND	0.05
Cyproconazole (isomer)	ND	0.05
Cyprodinil	ND	0.05
Cyromazine	ND	0.05

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Analytical Report

January 11, 2017

Client: Robert Kennedy
Aecom
250 Apollo Drive
Chelmsford, MA 01824
Phone: (978) 905-2100
Fax:
Email: robert.kennedy@aecom.com

Project No: Evergreen - Newburg Port

PO No: 6033343.09

Client Sample ID: B-4

Sample Date: 12/21/2016

EMA Sample No: 16122316-01

Date Received: 12/23/2016

Sample Matrix: Water

Analytical Method: FDA Import LC/MS/MS

Extraction Method: EPA 3510

Date Extracted: 12/28/2016

Date Completed: 12/30/2016

Surrogate:

Surrogate Level:

% Recovery:

Comments:

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Analyte	Amount µg/L	RL µg/L
Daimuron	ND	0.05
Diafenthiuron	ND	0.05
Diazinon	ND	0.05
Dichlorvos	ND	0.05
Diclobutrazol	ND	0.05
Dicrotophos	ND	0.05
Diethofencarb	ND	0.05
Difenoconazole	ND	0.05
Diiflubenzuron	ND	0.05
Dimethenamide	ND	0.05
Dimethoate	ND	0.05
Dimethomorph	ND	0.05
Dimoxystrobin	ND	0.05
Diniconazole	ND	0.05
Dioxacarb	ND	0.05
Diuron	ND	0.05
DMST	ND	0.05
DNOC	ND	0.05
Dodina	ND	0.05
Doramectin	ND	0.05
Eamectin Ba	ND	0.05
Epoxiconazole	ND	0.05
Eprinomectin	ND	0.05
Esprocarb	ND	0.05
Ethidimuron	ND	0.05
Ethiofencarb	ND	0.05
Ethiofencarb-sulfoxide	ND	0.05
Ethion	ND	0.05
Ethiprole	ND	0.05
Ethirimol	ND	0.05
Ethofumesate	ND	0.05
Ethoprop	ND	0.05
Etobenzanid	ND	0.05
Etioazole	ND	0.05
Famoxadone	ND	0.05
Fenamidone	ND	0.05
Fenarimol	ND	0.05
Fenazaquin	ND	0.05
Fenbuconazole	ND	0.05
Fenbutatin Oxide	ND	0.05
Fenhexamid	ND	0.05
Fenobucarb	ND	0.05
Fenoxycarb	ND	0.05
Fenpropimorph	ND	0.05
Fenpyroximate	ND	0.05
Fenuron	ND	0.05
Flonicamid	ND	0.05
Fluazifop-butyl	ND	0.05
Flubendiamide	ND	0.05
Fludioxinil	ND	0.05
Flufenacet	ND	0.05
Flufenoxuron	ND	0.05
Fluometuron	ND	0.05
Flupicolide	ND	0.05
Fluoxastrobin	ND	0.05
Fluquinconazole	ND	0.05
Flusilazole	ND	0.05
Flutolanil	ND	0.05
Flutriafol	ND	0.05
Fomesafen	ND	0.05
Forchlorfenuron	ND	0.05
Formetanate	ND	0.05
Fuberidazole	ND	0.05
Furalaxyl	ND	0.05

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PO No: 6033343.09

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Extraction Method: EPA 3510

Date Extracted: 12/28/2016

Date Completed: 12/30/2016

Surrogate:

Surrogate Level:

% Recovery:

Comments:

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

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Analytical Report

January 11, 2017

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Email: robert.kennedy@aecom.com

Project No: Evergreen - Newburg Port

PO No: 6033343.09

Client Sample ID: B-4

Sample Date: 12/21/2016

EMA Sample No: 16122316-01

Date Received: 12/23/2016

Sample Matrix: Water

Analytical Method: FDA Import LC/MS/MS

Extraction Method: EPA 3510

Date Extracted: 12/28/2016

Date Completed: 12/30/2016

Surrogate:

Surrogate Level:

% Recovery:

Comments:

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Analyte	Amount µg/L	RL µg/L
Pencycuron	ND	0.05
Pendimethalin	ND	0.05
Phorate	ND	0.05
Phosmet	ND	0.05
Phoxim	ND	0.05
Picoxystrobin	ND	0.05
Piperonyl butoxide	ND	0.05
Pirimicarb	ND	0.05
Pirimiphos-methyl	ND	0.05
Prochloraz	ND	0.05
Promecarb	ND	0.05
Prometon	ND	0.05
Prometryn	ND	0.05
Propachlor	ND	0.05
Propamocarb	ND	0.05
Propargite	ND	0.05
Propazine	ND	0.05
Propham	ND	0.05
Propiconazole	ND	0.05
Propoxur	ND	0.05
Propyzamide	ND	0.05
Pymetrozin	ND	0.05
Pyracarbolid	ND	0.05
Pyraclostrobin	ND	0.05
Pyridaben	ND	0.05
Pyridaphenthion	ND	0.05
Pyrimethanil	ND	0.05
Pyriproxyfen	ND	0.05
Quinoxifen	ND	0.05
Sebutylazine	ND	0.05
Secbumeton	ND	0.05
Sethoxydim	ND	0.05
Siduron	ND	0.05
Simazine	ND	0.05
Simetryn	ND	0.05
Spinetoram-J +L	ND	0.05
Spinosad	ND	0.05
Spirodiclofen	ND	0.05
Spiromecifen	ND	0.05
Spirotetramat	ND	0.05
Spiroxamine	ND	0.05
Sulfentrazone	ND	0.05
Tebuconazole	ND	0.05
Tebufenozide	ND	0.05
Tebufenpyrad	ND	0.05
Tebuthiuron	ND	0.05
Temephos	ND	0.05
Tepraloxymid	ND	0.05
Terbumeton	ND	0.05
Terbutryn	ND	0.05
Tetraconazole	ND	0.05
Thiabendazole	ND	0.05
Thiacloprid	ND	0.05
Thiamethoxam	ND	0.05
Thidiazuron	ND	0.05
Thiobencarb	ND	0.05
Thiofanox	ND	0.05
Thiophanate-methyl (Carbendazim)	ND	0.05
Triadimefon	ND	0.05
Triadimenol	ND	0.05
Triazophos	ND	0.05
Tricyclazole	ND	0.05
Tridemorph	ND	0.05

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Analyte	Amount <u>µg/L</u>	RL <u>µg/L</u>
Trifloxystrobin	ND	0.05
Triflumizole	ND	0.05
Triflumuron	ND	0.05
Triflusulfuron-methyl	ND	0.05
Triphenyl Phosphate	ND	0.05
Triticonazole	ND	0.05
Uniconazole	ND	0.05
Vamidothion	ND	0.05
Zoxamide	ND	0.05

Project No: Evergreen - Newburg Port

PO No: 6033343.09

Client Sample ID: B-4

Sample Date: 12/21/2016

EMA Sample No: 16122316-01

Date Received: 12/23/2016

Sample Matrix: Water

Analytical Method: FDA Import LC/MS/MS

Extraction Method: EPA 3510

Date Extracted: 12/28/2016

Date Completed: 12/30/2016

Surrogate:

Surrogate Level:

% Recovery:

Comments:

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Analyte	Amount <u>ug/L</u>	RL <u>ug/L</u>
Ferbam	ND	30
Maneb (Dithane M-22)	ND	30
Mancozeb	ND	30
Metiram	ND	30
Nabam	ND	30
Thiram	ND	30
Zineb	ND	30
Ziram	ND	30

Project No: Evergreen - Newburg Port

PO No: 6033343.09

Client Sample ID: B-4

Sample Date: 12/21/2016
EMA Sample No: 16122316-01
Date Received: 12/23/2016
Sample Matrix: Water

Analytical Method: EBDC Screen

Extraction Method: CDFA

Date Extracted: 12/28/2016

Date Completed: 12/29/2016

Surrogate:

Surrogate Level:

% Recovery:

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Analytical Report

January 11, 2017

Client: Robert Kennedy
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Phone: (978) 905-2100
Fax:
Email: robert.kennedy@aecom.com

Analyte

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

Amount µg/L	RL µg/L
ND	0.25
ND	0.25
ND	0.13
ND	0.13
ND	0.13
ND	0.13
ND	0.13
ND	0.25
ND	0.25
ND	0.25
ND	0.25
ND	0.25

Project No: Evergreen - Newburg Port

PO No: 6033343.09

Client Sample ID: B-4

Sample Date: 12/21/2016

EMA Sample No: 16122316-01

Date Received: 12/23/2016

Sample Matrix: Water

Analytical Method: EPA 8151A (w)

Extraction Method: EPA 8151A

Date Extracted: 12/28/2016

Date Completed: 12/30/2016

Surrogate:

Surrogate Level:

% Recovery:

Comments:

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January 11, 2017

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Phone: (978) 905-2100
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Email: robert.kennedy@aecom.com

Project No: Evergreen - Newburg Port

PO No: 6033343.09

Client Sample ID: B-6

Sample Date: 12/21/2016

EMA Sample No: 16122316-02

Date Received: 12/23/2016

Sample Matrix: Water

Analytical Method: FDA Import GC/MS/MS

Extraction Method: EPA 3510

Date Extracted: 12/28/2016

Date Completed: 12/30/2016

Surrogate:

Surrogate Level:

% Recovery:

Comments:

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Analyte	Amount µg/L	RL µg/L
Acephate	ND	0.15
Acetamiprid	ND	0.15
Acrinathrin	ND	0.05
Adiisopropyl naphthalene, 2,6- (DIPN,	ND	0.05
Alachlor	ND	0.05
Aldrin	ND	0.05
Allethrin	ND	0.05
Ametryn	ND	0.05
Aminocarb	ND	0.05
Atrazine	ND	0.05
Azinphos-methyl	ND	0.05
Azoxystrobin	ND	0.05
Benalaxyl	ND	0.05
Azoxystrobin	ND	0.05
Bendiocarb	ND	0.05
Benfluralin	ND	0.05
Benoxacor	ND	0.05
BHC-alpha (Benzene	ND	0.05
BHC-beta	ND	0.05
BHC-delta	ND	0.05
BHC-gamma (Lindane, gamma HCH)	ND	0.05
Bifenox	ND	0.05
Bifenthrin	ND	0.05
Bioresmethrin (resmethrin-trans)	ND	0.05
Bitertanol I	ND	0.05
Bitertanol II	ND	0.05
Boscalid	ND	0.05
Bromacil	ND	0.15
Bromophos-ethyl	ND	0.05
Bromophos-methyl	ND	0.05
Bromopropylate	ND	0.05
Bupirimate	ND	0.05
Buprofezin (z-isomer)	ND	0.05
Butachlor	ND	0.05
Butralin	ND	0.05
Butylate	ND	0.15
Cadusafos	ND	0.05
Captan	ND	0.05
Captan	ND	0.15
Carbaryl	ND	0.05
Carbofuran	ND	0.05
Carbophenothion-ethyl	ND	0.05
Carbophenothion-methyl (methyl	ND	0.05
Carbosulfan	ND	0.15
Carboxin	ND	0.05
Chlorbenzilate	ND	0.05
Chlordane-alpha	ND	0.05
Chlordane-oxy	ND	0.05
Chlordane-trans (gamma)	ND	0.05
Chlordimeform	ND	0.05
Chlorfenapyr	ND	0.05
Chlorfenvinphos	ND	0.05
Chlorobenzilate	ND	0.05
Chloroneb	ND	0.05
Chlorothalonil	ND	0.15
Chlorpropham	ND	0.05
Chlorpyrifos-ethyl	ND	0.05
Chlorpyrifos-methyl	ND	0.05
Chlorthiophos	ND	0.05
Ciomazone	ND	0.05
Coumaphos	ND	0.05
Crotoxyphos	ND	0.05

Analytical Report

January 11, 2017

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Project No: Evergreen - Newburg Port

PO No: 6033343.09

Client Sample ID: B-6

Sample Date: 12/21/2016

EMA Sample No: 16122316-02

Date Received: 12/23/2016

Sample Matrix: Water

Analytical Method: FDA Import GC/MS/MS

Extraction Method: EPA 3510

Date Extracted: 12/28/2016

Date Completed: 12/30/2016

Surrogate:

Surrogate Level:

% Recovery:

Comments:

Analyte	Amount µg/L	RL µg/L
Cyanazine	ND	0.05
Cyanofenphos	ND	0.05
Cyanophos	ND	0.05
Cycloate	ND	0.15
Cycluron	ND	0.05
Cyfluthrin (Total)	ND	0.05
Cyhalothrin (lambda)	ND	0.05
Cymiazole	ND	0.05
Cypermethrin (Total)	ND	0.05
Cyproconazole	ND	0.05
Cyprodinil	ND	0.05
DCEPA (dacthal, Chlorthal-dimethyl)	ND	0.05
DDD-o,p'	ND	0.15
DDD-p,p'	ND	0.05
DDE-o,p'	ND	0.05
DDE-p,p'	ND	0.05
DDT-o,p'	ND	0.05
DDT-p,p'	ND	0.15
DEF (Tribufos)	ND	0.05
Deltamethrin	ND	0.05
Demeton-s-methyl	ND	0.15
Desmedipham	ND	0.05
Desmetryn	ND	0.05
Diallate I	ND	0.15
Diallate II	ND	0.05
Diazinon	ND	0.05
Diazinon-oxon (diazoxon)	ND	0.05
Dichlofenthion	ND	0.05
Dichlofluanid	ND	0.15
Dichlorobenzonitrile, 2,6- (Dichlobenil)	ND	0.15
Dichlorvos	ND	0.15
Dichloran (Dichloran)	ND	0.15
Dicofol-o,p'	ND	0.05
Dicofol-p,p' (Kelthane)	ND	0.05
Dicrotophos (Dicrotophos)	ND	0.05
Dieldrin	ND	0.05
Diethofencarb	ND	0.05
Difenoconazole I	ND	0.05
Difenoconazole II	ND	0.05
Dimethachlor	ND	0.05
Dimethoate	ND	0.05
Dimethomorph I	ND	0.05
Dimethomorph II	ND	0.05
Diniconazole	ND	0.05
Dinitramine	ND	0.15
Dioxacarb	ND	0.15
Dioxathion	ND	0.05
Diphenamid	ND	0.05
Diphenylamine	ND	0.05
Disulfoton	ND	0.05
Disulfoton Sulfone	ND	0.05

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Project No: Evergreen - Newburg Port

PO No: 6033343.09

Client Sample ID: B-6

Sample Date: 12/21/2016

EMA Sample No: 16122316-02

Date Received: 12/23/2016

Sample Matrix: Water

Analytical Method: FDA Import GC/MS/MS

Extraction Method: EPA 3510

Date Extracted: 12/28/2016

Date Completed: 12/30/2016

Surrogate:

Surrogate Level:

% Recovery:

Comments:

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Analyte	Amount µg/L	RL µg/L
Edifenphos	ND	0.05
Endosulfan I (alpha Isomer)	ND	0.05
Endosulfan II (beta Isomer)	ND	0.05
Endosulfan Sulfate	ND	0.05
Endrin	ND	0.05
Endrin Aldehyde	ND	0.15
EPN	ND	0.05
Epoxiconazole	ND	0.05
Esfenvalerate (Fenvalerate A-alpha)	ND	0.05
Etaconazole I	ND	0.05
Ethalfuralin (Sonalan)	ND	0.05
Ethiofencarb	ND	0.05
Ethiolate	ND	0.15
Ethion	ND	0.05
Ethofumesate	ND	0.05
Ethoprophos (Ethoprop)	ND	0.15
Ethoxyquin	ND	0.15
Etoxazole	ND	0.05
Etrimfos	ND	0.05
Famoxadone	ND	0.05
Famphur	ND	0.05
Fenamidone	ND	0.15
Fenamiphos (Phenamiphos)	ND	0.05
Fenamiphos Sulfone	ND	0.05
Fenarimol	ND	0.05
Fenazaquin	ND	0.05
Fenbuconazole	ND	0.05
Fenfuram	ND	0.05
Fenhexamid	ND	0.05
Fenitrothion	ND	0.05
Fenobucarb	ND	0.05
Fenoxycarb	ND	0.05
Fenpropathrin	ND	0.05
Fenpropimorph	ND	0.05
Fensulfothion	ND	0.05
Fenthion	ND	0.05
Fenvalerate II	ND	0.05
Fipronil	ND	0.05
Flonicamid	ND	0.05
Fluchloralin	ND	0.05
Flucythrinate I	ND	0.05
Flucythrinate II	ND	0.05
Fludioxonil	ND	0.15
Fluopicolide	ND	0.05
Fluquiniconazole	ND	0.05
Flurenol-butyl	ND	0.05
Fluridone	ND	0.05
Flusilazole	ND	0.05
Flutolanil	ND	0.05
Flutriafoi	ND	0.05
Fluvalinate I	ND	0.05
Folpet	ND	0.05
Fonofos	ND	0.05
Fuberidazole	ND	0.15
Furalaxyl	ND	0.05
Heptachlor	ND	0.05
Heptachlor exo-epoxide (Isomer B)	ND	0.05
Heptenophos	ND	0.05
Hexachlorobenzene	ND	0.15
Hexaconazole	ND	0.05
Hexythiazox	ND	0.15

Analytical Report

January 11, 2017

Client: Robert Kennedy
Aecom
250 Apollo Drive
Chelmsford, MA 01824
Phone: (978) 905-2100
Fax:
Email: robert.kennedy@aecom.com

Project No: Evergreen - Newburg Port

PO No: 6033343.09

Client Sample ID: B-6

Sample Date: 12/21/2016

EMA Sample No: 16122316-02

Date Received: 12/23/2016

Sample Matrix: Water

Analytical Method: FDA Import GC/MS/MS

Extraction Method: EPA 3510

Date Extracted: 12/28/2016

Date Completed: 12/30/2016

Surrogate:

Surrogate Level:

% Recovery:

Comments:

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Analyte	Amount µg/L	RL µg/L
Imazalil	ND	0.15
Indoxacarb	ND	0.05
Iprobenfos	ND	0.15
Iprodione	ND	0.15
Isocarbamid (Isocarbamide)	ND	0.05
Isocarbophos	ND	0.05
Isodrin	ND	0.05
Isufenphos	ND	0.05
Isoprocarb	ND	0.05
Isopropalin	ND	0.05
Isoprothiolane	ND	0.15
Isoproturon	ND	0.15
Kresoxim-methyl	ND	0.05
Lenacil	ND	0.05
Leptophos	ND	0.05
Linuron	ND	0.05
Malaoxon (metabolite of Malathion)	ND	0.05
Malathion	ND	0.05
Mecarbam	ND	0.05
Mepanipyrim	ND	0.05
Mepronil	ND	0.05
Metalaxyl	ND	0.05
Metalddehyde	ND	0.15
Methidathion	ND	0.05
Methiocarb	ND	0.05
Methoprene	ND	0.15
Methoprotrene	ND	0.05
Methoxychlor, o,p'-	ND	0.05
Methoxychlor, p,p'-	ND	0.05
Metolachlor	ND	0.05
Metolcarb	ND	0.15
Metrafenone	ND	0.05
Metribuzin	ND	0.05
Mevinphos	ND	0.15
Mexacarbate	ND	0.05
MGK-264	ND	0.05
Mirex	ND	0.05
Molinate	ND	0.15
Monocrotophos	ND	0.15
Monolinuron	ND	0.05
Myclobutanil	ND	0.05
Naled	ND	0.15
Naphthaleneacetamide, 1-	ND	0.05
Napropamide	ND	0.05
Nicotine	ND	0.15
Nitrofen	ND	0.05
Nitrothal-isopropyl	ND	0.05
Nonachlor, cis-	ND	0.05
Nonachlor, Trans-	ND	0.05
Nuarimol	ND	0.05
Omethoate	ND	0.05
Oxadiazon	ND	0.05
Oxadixyl	ND	0.05
Oxyflurofen	ND	0.15
Paclobutrazole	ND	0.15
Paraoxon-ethyl	ND	0.05
Paraoxon-methyl	ND	0.05
Parathion-ethyl	ND	0.05
Parathion-methyl	ND	0.05

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Date Extracted: 12/28/2016

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Surrogate:

Surrogate Level:

% Recovery:

Comments:

Analyte	Amount µg/L	RL µg/L
Penconazole	ND	0.05
Pendimethalin (Penoxaline)	ND	0.05
Pentachloroaniline	ND	0.05
Pentachloroanisole	ND	0.05
Pentachlorobenzonitrile	ND	0.05
Pentachlorothioanisole	ND	0.05
Peopconazole	ND	0.05
Permethrin I	ND	0.05
Permethrin II (trans)	ND	0.05
Phenothrin I	ND	0.05
Phenothrin II	ND	0.05
Phenthoate	ND	0.05
Phenylphenol, 2-	ND	0.05
Phorate	ND	0.05
Phorate sulfone	ND	0.05
Phorate sulfoxide	ND	0.05
Phosalone	ND	0.05
Phosmet	ND	0.05
Phosmet oxon	ND	0.15
Phosphamidon I	ND	0.05
Phosphamidon II	ND	0.05
Piperonyl Butoxide	ND	0.05
Pirimicarb	ND	0.05
Pirimiphos-ethyl	ND	0.05
Pirimiphos-methyl	ND	0.05
Prochloraz	ND	0.05
Procymidone	ND	0.05
Prodiamine	ND	0.15
Profenofos	ND	0.05
Profluralin	ND	0.05
Promecarb	ND	0.05
Prometon	ND	0.05
Prometryn	ND	0.05
Pronamide (Propyzamide)	ND	0.05
Propachlor	ND	0.05
Propanil	ND	0.05
Propargite	ND	0.05
Propetamphos	ND	0.05
Propham	ND	0.15
Propiconazole I	ND	0.05
Propiconazole II	ND	0.05
Propoxur	ND	0.05
Pyracarbolid	ND	0.05
Pyraclostrobin	ND	0.15
Pyrazophos	ND	0.05
Pyridaben	ND	0.05
Pyridaphenthion	ND	0.05
Pyrifinex I	ND	0.05
Pyrifinex II	ND	0.05
Pyrimethanil	ND	0.05
Pyriproxyfen	ND	0.05
Quinalphos	ND	0.05
Quinoxifen	ND	0.05
Quintozene	ND	0.05
Resmethrin -cis (cismethrin)	ND	0.05
Ronnel (Fenchlorphos)	ND	0.05
Sebumeon	ND	0.05
Simazine	ND	0.05
Simetryn	ND	0.05

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Date Extracted: 12/28/2016

Date Completed: 12/30/2016

Surrogate:

Surrogate Level:

% Recovery:

Analyte	Amount µg/L	RL µg/L
Spirodiclofen	ND	0.15
Spiromesifen	ND	0.15
Spiroxamine I	ND	0.05
Spiroxamine II	ND	0.05
Sulfotep	ND	0.05
Sulprofos	ND	0.15
Tebuconazole	ND	0.05
Tebufenpyrad	ND	0.05
Tebupirimfos	ND	0.05
Tebutam	ND	0.05
Tebuthiuron	ND	0.05
Tecnazene (TCNB)	ND	0.05
Tefluthrin, cis-	ND	0.05
Terbacil	ND	0.05
Terbufos	ND	0.05
Terbumeton	ND	0.15
Terbuthylazine	ND	0.15
Tetrachloraniline, 2,3,5,6-	ND	0.05
Tetrachlorvinphos, e-isomer	ND	0.05
Tetraconazole	ND	0.05
Tetradifon	ND	0.05
Tetrahydrophthalimide, cis-1,2,3,6-	ND	0.05
Tetrahydrophthalimide, cis-Delta 4-	ND	0.15
Tetramethrin I	ND	0.05
Tetramethrin II	ND	0.05
Thiabendazole	ND	0.15
Thiamethoxam	ND	0.05
Thionazin	ND	0.15
Tolclofos-methyl	ND	0.05
Tolyfluanid	ND	0.05
Triadimefon	ND	0.05
Triadimenol	ND	0.05
Triazophos	ND	0.05
Tricyclazole	ND	0.15
Trifloxystrobin	ND	0.05
Triflunizole	ND	0.05
Trifluralin	ND	0.05
Trimethacarb, 2,3,5-	ND	0.05
Trimethacarb, 3,4,5-	ND	0.05
Trimidol (Nuarimol)	ND	0.05
Triticonazole	ND	0.05
Vernolate	ND	0.15
Vinclozolin	ND	0.05

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Analytical Report

January 11, 2017

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Aecom
250 Apollo Drive
Chelmsford, MA 01824
Phone: (978) 905-2100
Fax:
Email: robert.kennedy@aecom.com

Project No: Evergreen - Newburg Port

PO No: 6033343.09

Client Sample ID: B-6

Sample Date: 12/21/2016

EMA Sample No: 16122316-02

Date Received: 12/23/2016

Sample Matrix: Water

Analytical Method: FDA Import LC/MS/MS

Extraction Method: EPA 3510

Date Extracted: 12/28/2016

Date Completed: 12/30/2016

Surrogate:

Surrogate Level:

% Recovery:

Comments:

Analyte	Amount ug/L	RL ug/L
3-Hydroxycarbofuran	ND	0.05
Acephate	ND	0.05
Acetamiprid	ND	0.05
Acetochlor	ND	0.05
Acibenzolar-S-methyl	ND	0.05
Alanycarb	ND	0.05
Aldicarb-sulfone	ND	0.05
Aldicarb-sulfoxide	ND	0.05
Ametryn	ND	0.05
Amicarbazone	ND	0.05
Aminocarb	ND	0.05
Aspon	ND	0.05
Atrazine	ND	0.05
Avermectin Ba	ND	0.05
Azinphos-methyl	ND	0.05
Azoxystrobin	ND	0.05
Benalaxyl	ND	0.05
Bendiocarb	ND	0.05
Benfuracarb	ND	0.05
Bensulide	ND	0.05
Benzoximate	ND	0.05
Bifenazate	ND	0.05
Bitertanol	ND	0.05
Boscalid	ND	0.05
Bromuconazole (isomer)	ND	0.05
Bupirimate	ND	0.05
Buprofezin	ND	0.05
Butafenacil	ND	0.05
Butocarbexim	ND	0.05
Carbaryl	ND	0.05
Carbendazim	ND	0.05
Carbetamide	ND	0.05
Carbofuran	ND	0.05
Carbosulfan	ND	0.05
Carboxine	ND	0.05
Carfentrazone-ethyl	ND	0.05
Chlorantraniliprole	ND	0.05
Chlordimeform	ND	0.05
Chlorfenvinphos	ND	0.05
Chlorfluazuron	ND	0.05
Chloroxuron	ND	0.05
Chlorpyrifos	ND	0.05
Chlorpyrifos-methyl	ND	0.05
Chlortoluron	ND	0.05
Clethodim	ND	0.05
Clofentezine	ND	0.05
Clothianidin	ND	0.05
Coumaphos	ND	0.05
Cumyluron	ND	0.05
Cyanazine	ND	0.05
Cyazofamid	ND	0.05
Cycluron	ND	0.05
Cyflufenamid	ND	0.05
Cyhexatin	ND	0.05
Cymoxanil	ND	0.05
Cyproconazole (isomer)	ND	0.05
Cyprodinil	ND	0.05
Cyromazine	ND	0.05

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Analytical Report

January 11, 2017

Client: Robert Kennedy
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Phone: (978) 905-2100
Fax:
Email: robert.kennedy@aecom.com

Project No: Evergreen - Newburg Port

PO No: 6033343.09

Client Sample ID: B-6

Sample Date: 12/21/2016

EMA Sample No: 16122316-02

Date Received: 12/23/2016

Sample Matrix: Water

Analytical Method: FDA Import LC/MS/MS

Extraction Method: EPA 3510

Date Extracted: 12/28/2016

Date Completed: 12/30/2016

Surrogate:

Surrogate Level:

% Recovery:

Comments:

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Analyte	Amount µg/L	RL µg/L
Daimuron	ND	0.05
Diafenthiuron	ND	0.05
Diazinon	ND	0.05
Dichlorvos	ND	0.05
Diclobutrazol	ND	0.05
Diclotophos	ND	0.05
Diethofencarb	ND	0.05
Difenoconazole	ND	0.05
Diffubenzuron	ND	0.05
Dimethenamide	ND	0.05
Dimethoate	ND	0.05
Dimethomorph	ND	0.05
Dimoxystrobin	ND	0.05
Diniconazole	ND	0.05
Dioxacarb	ND	0.05
Diuron	ND	0.05
DMST	ND	0.05
DNOC	ND	0.05
Dodine	ND	0.05
Doramectin	ND	0.05
Emamectin Ba	ND	0.05
Epoxiconazole	ND	0.05
Eprinomectin	ND	0.05
Esprocarb	ND	0.05
Ethidimuron	ND	0.05
Ethiofencarb	ND	0.05
Ethiofencarb-sulfoxide	ND	0.05
Ethion	ND	0.05
Ethiprole	ND	0.05
Ethirimol	ND	0.05
Ethofumesate	ND	0.05
Ethoprop	ND	0.05
Etobenzanid	ND	0.05
Etoxazole	ND	0.05
Famoxadone	ND	0.05
Fenamidone	ND	0.05
Fenarimol	ND	0.05
Fenazaquin	ND	0.05
Fenbuconazole	ND	0.05
Fenbutatin Oxide	ND	0.05
Fenhexamid	ND	0.05
Fenobucarb	ND	0.05
Fenoxycarb	ND	0.05
Fenpropimorph	ND	0.05
Fenpyroximate	ND	0.05
Fenuron	ND	0.05
Flonicamid	ND	0.05
Fluazifop-butyl	ND	0.05
Flubendiamide	ND	0.05
Fludioxinil	ND	0.05
Flufenacet	ND	0.05
Flufenoxuron	ND	0.05
Fluometuron	ND	0.05
Fluopicolide	ND	0.05
Fluoxastrobin	ND	0.05
Fluquinconazole	ND	0.05
Flusilazole	ND	0.05
Flutolanil	ND	0.05
Flutriafol	ND	0.05
Fomesafen	ND	0.05
Forchlorfenuron	ND	0.05
Formetanate	ND	0.05
Fuberidazole	ND	0.05
Furalaxyl	ND	0.05

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Date Completed: 12/30/2016

Surrogate:

Surrogate Level:

% Recovery:

Comments:

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

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Date Extracted: 12/28/2016

Date Completed: 12/30/2016

Surrogate:

Surrogate Level:

% Recovery:

Comments:

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Analyte	Amount µg/L	RL µg/L
Pencycuron	ND	0.05
Pendimethalin	ND	0.05
Phorate	ND	0.05
Phosmet	ND	0.05
Phoxim	ND	0.05
Picoxystrobin	ND	0.05
Piperonyl butoxide	ND	0.05
Pirimicarb	ND	0.05
Pirimiphos-methyl	ND	0.05
Prochloraz	ND	0.05
Promecarb	ND	0.05
Prometon	ND	0.05
Prometryn	ND	0.05
Propachlor	ND	0.05
Propamocarb	ND	0.05
Propargite	ND	0.05
Propazine	ND	0.05
Propham	ND	0.05
Propiconazole	ND	0.05
Propoxur	ND	0.05
Propyzamide	ND	0.05
Pymetrozin	ND	0.05
Pyracarbolid	ND	0.05
Pyraclostrobin	ND	0.05
Pyridaben	ND	0.05
Pyridaphenthion	ND	0.05
Pyrimethanil	ND	0.05
Pyriproxyfen	ND	0.05
Quinoxifen	ND	0.05
Sebuthylazine	ND	0.05
Secbumeton	ND	0.05
Sethoxydim	ND	0.05
Siduron	ND	0.05
Simazine	ND	0.05
Simetryn	ND	0.05
Spinetoram-J +L	ND	0.05
Spinosad	ND	0.05
Spirodiclofen	ND	0.05
Spiromecifen	ND	0.05
Spirotetramat	ND	0.05
Spiroxamine	ND	0.05
Sulfentrazone	ND	0.05
Tebuconazole	ND	0.05
Tebufenozide	ND	0.05
Tebufenpyrad	ND	0.05
Tebuthiuron	ND	0.05
Temephos	ND	0.05
Tepraloxym	ND	0.05
Terbumeton	ND	0.05
Terbutryn	ND	0.05
Tetraconazole	ND	0.05
Thiabendazole	ND	0.05
Thiacloprid	ND	0.05
Thiamethoxam	ND	0.05
Thidiazuron	ND	0.05
Thiobencarb	ND	0.05
Thiofanox	ND	0.05
Thiophanate-methyl (Carbendazim)	ND	0.05
Triadimefon	ND	0.05
Triadimenol	ND	0.05
Triazophos	ND	0.05
Tricyclazole	ND	0.05
Tridemorph	ND	0.05

Analytical Report

January 11, 2017

Client: Robert Kennedy
Aecom
250 Apollo Drive
Chelmsford, MA 01824
Phone: (978) 905-2100
Fax:
Email: robert.kennedy@aecom.com

Analyte	Amount <u>µg/L</u>	RL <u>µg/L</u>
Trifloxystrobin	ND	0.05
Triflumizole	ND	0.05
Triflumuron	ND	0.05
Triflusulfuron-methyl	ND	0.05
Triphenyl Phosphate	ND	0.05
Triticonazole	ND	0.05
Uniconazole	ND	0.05
Vamidothion	ND	0.05
Zoxamide	ND	0.05

Project No: Evergreen - Newburg Port

PO No: 6033343.09

Client Sample ID: B-6

Sample Date: 12/21/2016
EMA Sample No: 16122316-02
Date Received: 12/23/2016
Sample Matrix: Water

Analytical Method: FDA Import LC/MS/MS

Extraction Method: EPA 3510

Date Extracted: 12/28/2016

Date Completed: 12/30/2016

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.
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Analytical Report

January 11, 2017

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Phone: (978) 905-2100
Fax:
Email: robert.kennedy@aecom.com

Analyte	Amount ug/L	RL ug/L
Ferbam	ND	30
Maneb (Dithane M-22)	ND	30
Mancozeb	ND	30
Metiram	ND	30
Nabam	ND	30
Thiram	ND	30
Zineb	ND	30
Ziram	ND	30

Project No: Evergreen - Newburg Port

PO No: 6033343.09

Client Sample ID: B-6

Sample Date: 12/21/2016
EMA Sample No: 16122316-02
Date Received: 12/23/2016
Sample Matrix: Water

Analytical Method: EBDC Screen

Extraction Method: CDFA

Date Extracted: 12/28/2016

Date Completed: 12/29/2016

Surrogate:

Surrogate Level:

% Recovery:

Comments:

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ND = None Detected at the Reporting Limit (RL)
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Analytical Report

January 11, 2017

Client: Robert Kennedy
Aecom
250 Apollo Drive
Chelmsford, MA 01824
Phone: (978) 905-2100
Fax:
Email: robert.kennedy@aecom.com

Analyte	Amount µg/L	RL µg/L
2, 4 - D	ND	0.25
2, 4 -DB	ND	0.25
2, 4, 5 - T	ND	0.13
2, 4, 5 -TP	ND	0.13
Dicamba	ND	0.13
Dichloroprop	ND	0.13
Dinoseb	ND	0.13
Bentazon	ND	0.25
MCPA	ND	0.25
MCPP	ND	0.25
Triclopyr	ND	0.25

Project No: Evergreen - Newburg Port

PO No: 6033343.09

Client Sample ID: B-6

Sample Date: 12/21/2016

EMA Sample No: 16122316-02

Date Received: 12/23/2016

Sample Matrix: Water

Analytical Method: EPA 8151A (w)

Extraction Method: EPA 8151A

Date Extracted: 12/28/2016

Date Completed: 12/30/2016

Surrogate:

Surrogate Level:

% Recovery:

Comments:

R = Reported on another Screen
ND = None Detected at the Reporting Limit (RL)
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Environmental Micro Analysis, Inc.

460 N. East Street, Woodland, CA 95776
Phone: (530) 666-6890 Fax (530) 666-2987
E-Mail emalab@emalab.com Website: www.emalab.com
ELAP Certificate #2819
ISO 17025:2005 #: AT-1752

Client:

QUALITY CONTROL REPORT

Robert Kennedy
Aecom
250 Apollo Drive
Chelmsford , MA 01824

EMA Data Set: 16122316

Date Analyzed: 12/30/2016

Matrix: Water

Sample Spiked: 16122316-00

Test: EPA 8141A (W)

<u>Spike Compound</u>	<u>Spike Level</u>	<u>Units</u>	<u>Recovery in Percent</u>	
			<u>Spike</u>	<u>Duplicate</u>
Diazinon	2.50	µg/L	87.1	94.3
Methyl Parathion	2.50	µg/L	85.1	90.9
Tetrachlorvinphos	2.50	µg/L	82.7	89.0
Azinphos Methyl	2.50	µg/L	106.7	108.1

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Client:

QUALITY CONTROL REPORT

Robert Kennedy
Aecom
250 Apollo Drive
Chelmsford , MA 01824

EMA Data Set: 16122316

Date Analyzed: 12/30/2016

Matrix: Water

Sample Spiked: 16122316-00

Test: EPA 8081A (w)

<u>Spike Compound</u>	<u>Spike Level</u>	<u>Units</u>	<u>Recovery in Percent</u>	
			<u>Spike</u>	<u>Duplicate</u>
Dichlobenil	0.5	$\mu\text{g/L}$	54.8	53.5
alpha-BHC	0.5	$\mu\text{g/L}$	81.8	83.9
Lindane	0.5	$\mu\text{g/L}$	78.8	80.6
Heptachlor	0.5	$\mu\text{g/L}$	67.0	69.3
4,4'-DDT	0.5	$\mu\text{g/L}$	91.8	93.8

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Client:

QUALITY CONTROL REPORT

Robert Kennedy
Aecom
250 Apollo Drive
Chelmsford , MA 01824

EMA Data Set: 16122316

Date Analyzed: 12/30/2016

Matrix: Water

Sample Spiked: 16122316-00

Test: GCMSMS

<u>Spike Compound</u>	<u>Spike Level</u>	<u>Units</u>	<u>Recovery in Percent</u>	
			<u>Spike</u>	<u>Duplicate</u>
Bifenthrin	2.5	$\mu\text{g/L}$	109.0	106.7
a-BHC	0.5	$\mu\text{g/L}$	70.1	80.5
Methyl Parathion	2.50	$\mu\text{g/L}$	99.1	99.5
Metaxyl	25	$\mu\text{g/L}$	108.1	109.0
Azinphos Methyl	2.50	$\mu\text{g/L}$	121.3	124.3
Methiocarb	2.5	$\mu\text{g/L}$	101.4	100.7

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Client:

QUALITY CONTROL REPORT

Robert Kennedy
Aecom
250 Apollo Drive
Chelmsford , MA 01824

EMA Data Set: 16122316

Date Analyzed: 12/30/2016

Matrix: Water

Sample Spiked: 16122316-00

Test: LCMSMS Screen

<u>Spike Compound</u>	<u>Spike Level</u>	<u>Units</u>	<u>Recovery in Percent</u>	
			<u>Spike</u>	<u>Duplicate</u>
Abamectin	0.25	$\mu\text{g/L}$	84.1	93.6
Imidacloprid	0.25	$\mu\text{g/L}$	100.6	126.6
Methoxyfenozide	0.25	$\mu\text{g/L}$	115.7	135.5
Spinetoram	0.25	$\mu\text{g/L}$	102.7	107.8
Spinosad	0.25	$\mu\text{g/L}$	116.2	109.7
Spirotetramat	0.25	$\mu\text{g/L}$	134.2	109.8

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Client:

QUALITY CONTROL REPORT

Robert Kennedy
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250 Apollo Drive
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EMA Data Set: 16122316

Date Analyzed: 12/29/2016

Matrix: Water

Sample Spiked: 16122316-00

Test: Glyphosate

<u>Spike Compound</u>	<u>Spike Level</u>	<u>Units</u>	<u>Recovery in Percent</u>	
			<u>Spike</u>	<u>Duplicate</u>
Glyphosate	100	$\mu\text{g/L}$	92.1	95.3

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Client:

QUALITY CONTROL REPORT

Robert Kennedy
Aecom
250 Apollo Drive
Chelmsford , MA 01824

EMA Data Set: 16122316

Date Analyzed: 1/3/2017

Matrix: Water

Sample Spiked: 16122316-00

Test: EPA 8151A (w)

<u>Spike Compound</u>	<u>Spike Level</u>	<u>Units</u>	<u>Recovery in Percent</u>	
			<u>Spike</u>	<u>Duplicate</u>
Dichloroprop	2	µg/L	73.4	72.2
2,4,5-TP	1.0	µg/L	92.2	75.9
2,4,5-T	1.0	µg/L	98.1	85.3
Bentazone	2.0	µg/L	128.1	124.2