PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

July 30, 2025

Cameron Yong
County of Orange
2301 N. Glassell Street
Orange, CA 92865-

Project Name: / WO # 4300
Physis Project ID: 2201001-250

Dear Cameron,

Enclosed are the analytical results for samples submitted to PHYSIS Environmental Laboratories, Inc. (PHYSIS) on 7/25/2025. A total of 3 samples were received for analysis in accordance with the attached chain of custody (COC). Per the COC, the samples were analyzed for:

Organics
Synthetic Pyrethroid Pesticides by EPA 625.1-MRM
Organophosphorus Pesticides by EPA 625.1
Neonicotinoids by EPA 625.1-MRM

Analytical results in this report apply only to samples submitted to PHYSIS in accordance with the COC and are intended to be considered in their entirety.

Please feel free to contact me at any time with any questions. PHYSIS appreciates the opportunity to provide you with our analytical and support services.

Regards,
Rachel Hansen
Rachel Hansen
310 345-6547
Extension
rachelhansen@physislabs.com

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PROJECT SAMPLE LIST

County of Orange / WO # 4300

PHYSIS Project ID: 2201001-250

Total Samples: 3

PHYSIS ID	Sample ID	Description	Date	Time	Matrix	Sample Type
134019	4300001	G S	7/25/2025	11:11	Samplewater	Non Specific
134020	4300002	G S	7/25/2025	11:35	Samplewater	Non Specific
134021	4300003	G S	7/25/2025	12:12	Samplewater	Non Specific

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ABBREVIATIONS and ACRONYMS

QM	Quality Manual
QA	Quality Assurance
QC	Quality Control
MDL	method detection limit
RL	reporting limit
R1	project sample
R2	project sample replicate
MS1	matrix spike
MS2	matrix spike replicate
B1	procedural blank
B2	procedural blank replicate
BS1	blank spike
BS2	blank spike replicate
LCS1	laboratory control spike
LCS2	laboratory control spike replicate
LCM1	laboratory control material
LCM2	laboratory control material replicate
CRM1	certified reference material
CRM2	certified reference material replicate
RPD	relative percent difference
LMW	low molecular weight
HMW	high molecular weight

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QUALITY ASSURANCE SUMMARY

LABORATORY BATCH: Physis' QM defines a laboratory batch as a group of 20 or fewer project samples of similar matrix, processed together under the same conditions and with the same reagents. QC samples are associated with each batch and were used to assess the validity of the sample analyses.

PROCEDURAL BLANK: Laboratory contamination introduced during method use is assessed through the preparation and analysis of procedural blanks is provided at a minimum frequency of one per batch.

ACCURACY: Accuracy of analytical measurements is the degree of closeness based on percent recovery calculations between measured values and the actual or true value and includes a combination of reproducibility error and systematic bias due to sampling and analytical operations. Accuracy of the project data was indicated by analysis of MS, BS, LCS, LCM, CRM, and/or surrogate spikes on a minimum frequency of one per batch. Physis' QM requires that 95% of the target compounds greater than 10 times the MDL be within the specified acceptance limits.

PRECISION: Precision is the agreement among a set of replicate measurements without assumption of knowledge of the true value and is based on RPD calculations between repeated values. Precision of the project data was determined by analysis of replicate MS1/MS2, BS1/BS2, LCS1/LCS2, LCM1/LCM2, CRM1/CRM2, surrogate spikes and/or replicate project sample analysis (R1/R2) on a minimum frequency of one per batch. Physis' QM requires that for 95% of the compounds greater than 10 times the MDL, the percent RPD should be within the specified acceptance range.

BLANK SPIKES: BS is the introduction of a known concentration of analyte into the procedural blank. BS demonstrates performance of the preparation and analytical methods on a clean matrix void of potential matrix related interferences. The BS is performed in laboratory deionized water, making these recoveries a better indicator of the efficiency of the laboratory method per se.

MATRIX SPIKES: MS is the introduction of a known concentration of analyte into a sample. MS samples demonstrate the effect a particular project sample matrix has on the accuracy of a measurement. Individually, MS samples also indicate the bias of analytical measurements due to chemical interferences inherent in the in the specific project sample spiked. Intrinsic target analyte concentration in the specific project sample can also significantly impact MS recovery.

CERTIFIED REFERENCE MATERIALS: CRMs are materials of various matrices for which analytical information has been determined and certified by a recognized authority. These are used to provide a quantitative assessment of the accuracy of an analytical method. CRMs provide evidence that the laboratory preparation and analysis produces results that are comparable to those obtained by an independent organization.

LABORATORY CONTROL MATERIAL: LCM is provided because a suitable natural seawater CRM is not available and can be used to indicate accuracy of the method. Physis' internal LCM is seawater collected at ~800 meters in the Southern California San Pedro Basin and can be used as a reference for background concentrations in clean, natural seawater for comparison to project samples.

LABORATORY CONTROL SPIKES: LCS is the introduction of a known concentration of analyte into Physis' LCM. LCS samples were employed to assess the effect the seawater matrix has on the accuracy of a measurement. LCS also indicate the bias of this method due to chemical interferences inherent in the in the seawater matrix. Intrinsic LCM concentration can also significantly impact LCS recovery.

SURROGATES: A surrogate is a pure analyte unlikely to be found in any project sample, behaves similarly to

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the target analyte and most often used with organic analytical procedures. Surrogates are added in known concentration to all samples and are measured to indicate overall efficiency of the method including processing and analyses.

HOLDING TIME: Method recommended holding times are the length of time a project sample can be stored under specific conditions after collection and prior to analysis without significantly affecting the analyte's concentration. Holding times can be extended if preservation techniques are employed to reduce biodegradation, volatilization, oxidation, sorption, precipitation, and other physical and chemical processes.

SAMPLE STORAGE/RETENTION: In order to maintain chemical integrity prior to analysis, all samples submitted to Physis are refrigerated (liquids) or frozen (solids) upon receipt unless otherwise recommended by applicable methods. Solid samples are retained for 1 year from collection while liquid samples are retained until method recommended holding times elapse.

TOTAL/DISSOLVED FRACTION: In some instances, the results for the dissolved fraction may be higher than the total fraction for a particular analyte (e.g. trace metals). This is typically caused by the analytical variation for each result and indicates that the target analyte is primarily in the dissolved phase, within the sample.

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PHYSIS QUALIFIER CODES

CODE	DEFINITION
#	see Case Narrative
ND	analyte not detected at or above the MDL
B	analyte was detected in the procedural blank greater than 10 times the MDL
E	analyte concentration exceeds the upper limit of the linear calibration range, reported value is estimated
H	sample received and/or analyzed past the recommended holding time
J	analyte was detected at a concentration below the RL and above the MDL, reported value is estimated
N	insufficient sample, analysis could not be performed
M	analyte was outside the specified accuracy and/or precision acceptance limits due to matrix interference. The associated B/BS were within limits, therefore the sample data was reported without further clarification
SH	analyte concentration in the project sample exceeded the spike concentration, therefore accuracy and/or precision acceptance limits do not apply
SL	analyte results were lower than 10 times the MDL, therefore accuracy and/or precision acceptance limits do not apply
NH	project sample was heterogeneous and sample homogeneity could not be readily achieved using routine laboratory practices, therefore accuracy and/or precision acceptance limits do not apply
Q	analyte was outside the specified QAPP acceptance limits for precision and/or accuracy but within Physis derived acceptance limits, therefore the sample data was reported without further clarification
R	Physis' QM allows for 5% of the target compounds greater than 10 times the MDL to be outside the specified acceptance limits for precision and/or accuracy. This is often due to random error and does not indicate any significant problems with the analysis of these project samples

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ANALYTICAL REPORT

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

PHYSIS Project ID: 2201001-250
Client: County of Orange
Project: / WO # 4300

Neonicotinoid Compounds

ANALYTE	Method	Units	RESULT	DF	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 134019-R1	**4300001 G S**		**Matrix: Samplewater**				**Sampled:**	**25-Jul-25 11:11**		**Received:**	**25-Jul-25**
(d3-Clothianidin)	EPA 625.1-MRM	% Recovery	89	1			Total		O-51086	28-Jul-25	29-Jul-25 16:10
(d3-Thiamethoxam)	EPA 625.1-MRM	% Recovery	67	1			Total		O-51086	28-Jul-25	29-Jul-25 16:10
Acetamiprid	EPA 625.1-MRM	ng/L	ND	1	10	20	Total		O-51086	28-Jul-25	29-Jul-25 16:10
Clothianidin	EPA 625.1-MRM	ng/L	ND	1	10	20	Total		O-51086	28-Jul-25	29-Jul-25 16:10
Dinotefuran	EPA 625.1-MRM	ng/L	103	1	6	12	Total		O-51086	28-Jul-25	29-Jul-25 16:10
Imidacloprid	EPA 625.1-MRM	ng/L	ND	1	2	4	Total		O-51086	28-Jul-25	29-Jul-25 16:10
Thiacloprid	EPA 625.1-MRM	ng/L	ND	1	2	4	Total		O-51086	28-Jul-25	29-Jul-25 16:10
Thiamethoxam	EPA 625.1-MRM	ng/L	44.9	1	2	4	Total		O-51086	28-Jul-25	29-Jul-25 16:10
Sample ID: 134020-R1	**4300002 G S**		**Matrix: Samplewater**				**Sampled:**	**25-Jul-25 11:35**		**Received:**	**25-Jul-25**
(d3-Clothianidin)	EPA 625.1-MRM	% Recovery	98	1			Total		O-51086	28-Jul-25	29-Jul-25 17:27
(d3-Thiamethoxam)	EPA 625.1-MRM	% Recovery	66	1			Total		O-51086	28-Jul-25	29-Jul-25 17:27
Acetamiprid	EPA 625.1-MRM	ng/L	ND	1	10	20	Total		O-51086	28-Jul-25	29-Jul-25 17:27
Clothianidin	EPA 625.1-MRM	ng/L	ND	1	10	20	Total		O-51086	28-Jul-25	29-Jul-25 17:27
Dinotefuran	EPA 625.1-MRM	ng/L	ND	1	6	12	Total		O-51086	28-Jul-25	29-Jul-25 17:27
Imidacloprid	EPA 625.1-MRM	ng/L	ND	1	2	4	Total		O-51086	28-Jul-25	29-Jul-25 17:27
Thiacloprid	EPA 625.1-MRM	ng/L	ND	1	2	4	Total		O-51086	28-Jul-25	29-Jul-25 17:27
Thiamethoxam	EPA 625.1-MRM	ng/L	159	1	2	4	Total		O-51086	28-Jul-25	29-Jul-25 17:27

Neonicotinoid Compounds

ANALYTE	Method	Units	RESULT	DF	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 134021-R1	**4300003 G S**		**Matrix: Samplewater**				**Sampled:**	**25-Jul-25 12:12**	**Received:**	**25-Jul-25**	
(d3-Clothianidin)	EPA 625.1-MRM	% Recovery	106	1			Total		O-51086	28-Jul-25	29-Jul-25 18:44
(d3-Thiamethoxam)	EPA 625.1-MRM	% Recovery	66	1			Total		O-51086	28-Jul-25	29-Jul-25 18:44
Acetamiprid	EPA 625.1-MRM	ng/L	ND	1	10	20	Total		O-51086	28-Jul-25	29-Jul-25 18:44
Clothianidin	EPA 625.1-MRM	ng/L	ND	1	10	20	Total		O-51086	28-Jul-25	29-Jul-25 18:44
Dinotefuran	EPA 625.1-MRM	ng/L	ND	1	6	12	Total		O-51086	28-Jul-25	29-Jul-25 18:44
Imidacloprid	EPA 625.1-MRM	ng/L	ND	1	2	4	Total		O-51086	28-Jul-25	29-Jul-25 18:44
Thiacloprid	EPA 625.1-MRM	ng/L	ND	1	2	4	Total		O-51086	28-Jul-25	29-Jul-25 18:44
Thiamethoxam	EPA 625.1-MRM	ng/L	173	1	2	4	Total		O-51086	28-Jul-25	29-Jul-25 18:44

Organophosphorus Pesticides

ANALYTE	Method	Units	RESULT	DF	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 134019-R1 4300001 G S			**Matrix: Samplewater**				**Sampled: 25-Jul-25 11:11**			**Received: 25-Jul-25**	
(PCB030)	EPA 625.1	% Recovery	92	1			Total		O-51086	28-Jul-25	28-Jul-25 15:42
(PCB112)	EPA 625.1	% Recovery	103	1			Total		O-51086	28-Jul-25	28-Jul-25 15:42
(PCB198)	EPA 625.1	% Recovery	93	1			Total		O-51086	28-Jul-25	28-Jul-25 15:42
(TCMX)	EPA 625.1	% Recovery	83	1			Total		O-51086	28-Jul-25	28-Jul-25 15:42
Azinphos Methyl	EPA 625.1	ng/L	ND	1	5	10	Total		O-51086	28-Jul-25	28-Jul-25 15:42
Bolstar (Sulprofos)	EPA 625.1	ng/L	ND	1	2	4	Total		O-51086	28-Jul-25	28-Jul-25 15:42
Chlorpyrifos	EPA 625.1	ng/L	ND	1	0.5	1	Total		O-51086	28-Jul-25	28-Jul-25 15:42
Demeton	EPA 625.1	ng/L	ND	1	1	2	Total		O-51086	28-Jul-25	28-Jul-25 15:42
Diazinon	EPA 625.1	ng/L	ND	1	0.5	1	Total		O-51086	28-Jul-25	28-Jul-25 15:42
Dichlorvos	EPA 625.1	ng/L	ND	1	3	6	Total		O-51086	28-Jul-25	28-Jul-25 15:42
Dimethoate	EPA 625.1	ng/L	ND	1	5	10	Total		O-51086	28-Jul-25	28-Jul-25 15:42
Disulfoton	EPA 625.1	ng/L	ND	1	1	2	Total		O-51086	28-Jul-25	28-Jul-25 15:42
Ethoprop (Ethoprofos)	EPA 625.1	ng/L	ND	1	1	2	Total		O-51086	28-Jul-25	28-Jul-25 15:42
Ethyl Parathion	EPA 625.1	ng/L	ND	1	10	20	Total		O-51086	28-Jul-25	28-Jul-25 15:42
Fenchlorphos (Ronnel)	EPA 625.1	ng/L	ND	1	2	4	Total		O-51086	28-Jul-25	28-Jul-25 15:42
Fensulfothion	EPA 625.1	ng/L	ND	1	1	2	Total		O-51086	28-Jul-25	28-Jul-25 15:42
Fenthion	EPA 625.1	ng/L	ND	1	2	4	Total		O-51086	28-Jul-25	28-Jul-25 15:42
Malathion	EPA 625.1	ng/L	ND	1	2.5	5	Total		O-51086	28-Jul-25	28-Jul-25 15:42
Merphos	EPA 625.1	ng/L	ND	1	1	2	Total		O-51086	28-Jul-25	28-Jul-25 15:42
Methyl Parathion	EPA 625.1	ng/L	ND	1	1	2	Total		O-51086	28-Jul-25	28-Jul-25 15:42
Mevinphos (Phosdrin)	EPA 625.1	ng/L	ND	1	5	10	Total		O-51086	28-Jul-25	28-Jul-25 15:42
Phorate	EPA 625.1	ng/L	ND	1	5	10	Total		O-51086	28-Jul-25	28-Jul-25 15:42
Tetrachlorvinphos (Stirofos)	EPA 625.1	ng/L	ND	1	2	4	Total		O-51086	28-Jul-25	28-Jul-25 15:42
Tokuthion (Prothiofos)	EPA 625.1	ng/L	ND	1	3	6	Total		O-51086	28-Jul-25	28-Jul-25 15:42

Organophosphorus Pesticides

ANALYTE	Method	Units	RESULT	DF	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Trichloronate	EPA 625.1	ng/L	ND	1	1	2	Total		O-51086	28-Jul-25	28-Jul-25 15:42

Organophosphorus Pesticides

ANALYTE	Method	Units	RESULT	DF	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 134020-R1 4300002 G S			**Matrix: Samplewater**				**Sampled: 25-Jul-25 11:35**			**Received: 25-Jul-25**	
(PCB030)	EPA 625.1	% Recovery	91	1			Total		O-51086	28-Jul-25	28-Jul-25 17:27
(PCB112)	EPA 625.1	% Recovery	97	1			Total		O-51086	28-Jul-25	28-Jul-25 17:27
(PCB198)	EPA 625.1	% Recovery	92	1			Total		O-51086	28-Jul-25	28-Jul-25 17:27
(TCMX)	EPA 625.1	% Recovery	80	1			Total		O-51086	28-Jul-25	28-Jul-25 17:27
Azinphos Methyl	EPA 625.1	ng/L	ND	1	5	10	Total		O-51086	28-Jul-25	28-Jul-25 17:27
Bolstar (Sulprofos)	EPA 625.1	ng/L	ND	1	2	4	Total		O-51086	28-Jul-25	28-Jul-25 17:27
Chlorpyrifos	EPA 625.1	ng/L	ND	1	0.5	1	Total		O-51086	28-Jul-25	28-Jul-25 17:27
Demeton	EPA 625.1	ng/L	ND	1	1	2	Total		O-51086	28-Jul-25	28-Jul-25 17:27
Diazinon	EPA 625.1	ng/L	ND	1	0.5	1	Total		O-51086	28-Jul-25	28-Jul-25 17:27
Dichlorvos	EPA 625.1	ng/L	ND	1	3	6	Total		O-51086	28-Jul-25	28-Jul-25 17:27
Dimethoate	EPA 625.1	ng/L	ND	1	5	10	Total		O-51086	28-Jul-25	28-Jul-25 17:27
Disulfoton	EPA 625.1	ng/L	ND	1	1	2	Total		O-51086	28-Jul-25	28-Jul-25 17:27
Ethoprop (Ethoprofos)	EPA 625.1	ng/L	ND	1	1	2	Total		O-51086	28-Jul-25	28-Jul-25 17:27
Ethyl Parathion	EPA 625.1	ng/L	ND	1	10	20	Total		O-51086	28-Jul-25	28-Jul-25 17:27
Fenchlorphos (Ronnel)	EPA 625.1	ng/L	ND	1	2	4	Total		O-51086	28-Jul-25	28-Jul-25 17:27
Fensulfothion	EPA 625.1	ng/L	ND	1	1	2	Total		O-51086	28-Jul-25	28-Jul-25 17:27
Fenthion	EPA 625.1	ng/L	ND	1	2	4	Total		O-51086	28-Jul-25	28-Jul-25 17:27
Malathion	EPA 625.1	ng/L	ND	1	2.5	5	Total		O-51086	28-Jul-25	28-Jul-25 17:27
Merphos	EPA 625.1	ng/L	ND	1	1	2	Total		O-51086	28-Jul-25	28-Jul-25 17:27
Methyl Parathion	EPA 625.1	ng/L	ND	1	1	2	Total		O-51086	28-Jul-25	28-Jul-25 17:27
Mevinphos (Phosdrin)	EPA 625.1	ng/L	ND	1	5	10	Total		O-51086	28-Jul-25	28-Jul-25 17:27
Phorate	EPA 625.1	ng/L	ND	1	5	10	Total		O-51086	28-Jul-25	28-Jul-25 17:27
Tetrachlorvinphos (Stirofos)	EPA 625.1	ng/L	ND	1	2	4	Total		O-51086	28-Jul-25	28-Jul-25 17:27
Tokuthion (Prothiofos)	EPA 625.1	ng/L	ND	1	3	6	Total		O-51086	28-Jul-25	28-Jul-25 17:27

Organophosphorus Pesticides

ANALYTE	Method	Units	RESULT	DF	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Trichloronate	EPA 625.1	ng/L	ND	1	1	2	Total		O-51086	28-Jul-25	28-Jul-25 17:27

Organophosphorus Pesticides

ANALYTE	Method	Units	RESULT	DF	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 134021-R1 4300003 G S			**Matrix: Samplewater**				**Sampled: 25-Jul-25 12:12**			**Received: 25-Jul-25**	
(PCB030)	EPA 625.1	% Recovery	89	1			Total		O-51086	28-Jul-25	28-Jul-25 19:12
(PCB112)	EPA 625.1	% Recovery	98	1			Total		O-51086	28-Jul-25	28-Jul-25 19:12
(PCB198)	EPA 625.1	% Recovery	92	1			Total		O-51086	28-Jul-25	28-Jul-25 19:12
(TCMX)	EPA 625.1	% Recovery	80	1			Total		O-51086	28-Jul-25	28-Jul-25 19:12
Azinphos Methyl	EPA 625.1	ng/L	ND	1	5	10	Total		O-51086	28-Jul-25	28-Jul-25 19:12
Bolstar (Sulprofos)	EPA 625.1	ng/L	ND	1	2	4	Total		O-51086	28-Jul-25	28-Jul-25 19:12
Chlorpyrifos	EPA 625.1	ng/L	ND	1	0.5	1	Total		O-51086	28-Jul-25	28-Jul-25 19:12
Demeton	EPA 625.1	ng/L	ND	1	1	2	Total		O-51086	28-Jul-25	28-Jul-25 19:12
Diazinon	EPA 625.1	ng/L	ND	1	0.5	1	Total		O-51086	28-Jul-25	28-Jul-25 19:12
Dichlorvos	EPA 625.1	ng/L	ND	1	3	6	Total		O-51086	28-Jul-25	28-Jul-25 19:12
Dimethoate	EPA 625.1	ng/L	ND	1	5	10	Total		O-51086	28-Jul-25	28-Jul-25 19:12
Disulfoton	EPA 625.1	ng/L	ND	1	1	2	Total		O-51086	28-Jul-25	28-Jul-25 19:12
Ethoprop (Ethoprofos)	EPA 625.1	ng/L	ND	1	1	2	Total		O-51086	28-Jul-25	28-Jul-25 19:12
Ethyl Parathion	EPA 625.1	ng/L	ND	1	10	20	Total		O-51086	28-Jul-25	28-Jul-25 19:12
Fenchlorphos (Ronnel)	EPA 625.1	ng/L	ND	1	2	4	Total		O-51086	28-Jul-25	28-Jul-25 19:12
Fensulfothion	EPA 625.1	ng/L	ND	1	1	2	Total		O-51086	28-Jul-25	28-Jul-25 19:12
Fenthion	EPA 625.1	ng/L	ND	1	2	4	Total		O-51086	28-Jul-25	28-Jul-25 19:12
Malathion	EPA 625.1	ng/L	ND	1	2.5	5	Total		O-51086	28-Jul-25	28-Jul-25 19:12
Merphos	EPA 625.1	ng/L	ND	1	1	2	Total		O-51086	28-Jul-25	28-Jul-25 19:12
Methyl Parathion	EPA 625.1	ng/L	ND	1	1	2	Total		O-51086	28-Jul-25	28-Jul-25 19:12
Mevinphos (Phosdrin)	EPA 625.1	ng/L	ND	1	5	10	Total		O-51086	28-Jul-25	28-Jul-25 19:12
Phorate	EPA 625.1	ng/L	ND	1	5	10	Total		O-51086	28-Jul-25	28-Jul-25 19:12
Tetrachlorvinphos (Stirofos)	EPA 625.1	ng/L	ND	1	2	4	Total		O-51086	28-Jul-25	28-Jul-25 19:12
Tokuthion (Prothiofos)	EPA 625.1	ng/L	ND	1	3	6	Total		O-51086	28-Jul-25	28-Jul-25 19:12

Organophosphorus Pesticides

ANALYTE	Method	Units	RESULT	DF	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Trichloronate	EPA 625.1	ng/L	ND	1	1	2	Total		O-51086	28-Jul-25	28-Jul-25 19:12

Pyrethroids

ANALYTE	Method	Units	RESULT	DF	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 134019-R1	**4300001 G S**		**Matrix: Samplewater**				**Sampled:**	**25-Jul-25**	**11:11**	**Received:**	**25-Jul-25**
(d5-Bifenthrin)	EPA 625.1-MRM	% Recovery	106	1			Total		O-51086	28-Jul-25	29-Jul-25 16:10
(d5-Fenvalerate)	EPA 625.1-MRM	% Recovery	73	1			Total		O-51086	28-Jul-25	29-Jul-25 16:10
Allethrin	EPA 625.1-MRM	ng/L	ND	1	0.5	1	Total		O-51086	28-Jul-25	29-Jul-25 16:10
Bifenthrin	EPA 625.1-MRM	ng/L	ND	1	0.5	1	Total		O-51086	28-Jul-25	29-Jul-25 16:10
Cyfluthrin	EPA 625.1-MRM	ng/L	ND	1	0.5	1	Total		O-51086	28-Jul-25	29-Jul-25 16:10
Cyhalothrin, Total Lambda	EPA 625.1-MRM	ng/L	ND	1	0.5	1	Total		O-51086	28-Jul-25	29-Jul-25 16:10
Cypermethrin	EPA 625.1-MRM	ng/L	ND	1	0.5	1	Total		O-51086	28-Jul-25	29-Jul-25 16:10
Danitol (Fenpropathrin)	EPA 625.1-MRM	ng/L	ND	1	0.3	1	Total		O-51086	28-Jul-25	29-Jul-25 16:10
Deltamethrin/Tralomethrin	EPA 625.1-MRM	ng/L	ND	1	0.5	1	Total		O-51086	28-Jul-25	29-Jul-25 16:10
Permethrin, cis-	EPA 625.1-MRM	ng/L	ND	1	2	4	Total		O-51086	28-Jul-25	29-Jul-25 16:10
Permethrin, trans-	EPA 625.1-MRM	ng/L	ND	1	1	2	Total		O-51086	28-Jul-25	29-Jul-25 16:10
Prallethrin	EPA 625.1-MRM	ng/L	ND	1	0.5	1	Total		O-51086	28-Jul-25	29-Jul-25 16:10

Pyrethroids

ANALYTE	Method	Units	RESULT	DF	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 134020-R1	**4300002 G S**		**Matrix: Samplewater**				**Sampled:**	**25-Jul-25 11:35**		**Received:**	**25-Jul-25**
(d5-Bifenthrin)	EPA 625.1-MRM	% Recovery	94	1			Total		O-51086	28-Jul-25	29-Jul-25 17:27
(d5-Fenvalerate)	EPA 625.1-MRM	% Recovery	75	1			Total		O-51086	28-Jul-25	29-Jul-25 17:27
Allethrin	EPA 625.1-MRM	ng/L	ND	1	0.5	1	Total		O-51086	28-Jul-25	29-Jul-25 17:27
Bifenthrin	EPA 625.1-MRM	ng/L	ND	1	0.5	1	Total		O-51086	28-Jul-25	29-Jul-25 17:27
Cyfluthrin	EPA 625.1-MRM	ng/L	ND	1	0.5	1	Total		O-51086	28-Jul-25	29-Jul-25 17:27
Cyhalothrin, Total Lambda	EPA 625.1-MRM	ng/L	ND	1	0.5	1	Total		O-51086	28-Jul-25	29-Jul-25 17:27
Cypermethrin	EPA 625.1-MRM	ng/L	ND	1	0.5	1	Total		O-51086	28-Jul-25	29-Jul-25 17:27
Danitol (Fenpropathrin)	EPA 625.1-MRM	ng/L	ND	1	0.3	1	Total		O-51086	28-Jul-25	29-Jul-25 17:27
Deltamethrin/Tralomethrin	EPA 625.1-MRM	ng/L	ND	1	0.5	1	Total		O-51086	28-Jul-25	29-Jul-25 17:27
Permethrin, cis-	EPA 625.1-MRM	ng/L	ND	1	2	4	Total		O-51086	28-Jul-25	29-Jul-25 17:27
Permethrin, trans-	EPA 625.1-MRM	ng/L	ND	1	1	2	Total		O-51086	28-Jul-25	29-Jul-25 17:27
Prallethrin	EPA 625.1-MRM	ng/L	ND	1	0.5	1	Total		O-51086	28-Jul-25	29-Jul-25 17:27

Pyrethroids

ANALYTE	Method	Units	RESULT	DF	MDL	RL	Fraction	QA CODE	Batch ID	Date Processed	Date Analyzed
Sample ID: 134021-R1	**4300003 G S**		**Matrix: Samplewater**				**Sampled: 25-Jul-25 12:12**			**Received: 25-Jul-25**	
(d5-Bifenthrin)	EPA 625.1-MRM	% Recovery	71	1			Total		O-51086	28-Jul-25	29-Jul-25 18:44
(d5-Fenvalerate)	EPA 625.1-MRM	% Recovery	79	1			Total		O-51086	28-Jul-25	29-Jul-25 18:44
Allethrin	EPA 625.1-MRM	ng/L	ND	1	0.5	1	Total		O-51086	28-Jul-25	29-Jul-25 18:44
Bifenthrin	EPA 625.1-MRM	ng/L	ND	1	0.5	1	Total		O-51086	28-Jul-25	29-Jul-25 18:44
Cyfluthrin	EPA 625.1-MRM	ng/L	ND	1	0.5	1	Total		O-51086	28-Jul-25	29-Jul-25 18:44
Cyhalothrin, Total Lambda	EPA 625.1-MRM	ng/L	ND	1	0.5	1	Total		O-51086	28-Jul-25	29-Jul-25 18:44
Cypermethrin	EPA 625.1-MRM	ng/L	ND	1	0.5	1	Total		O-51086	28-Jul-25	29-Jul-25 18:44
Danitol (Fenpropathrin)	EPA 625.1-MRM	ng/L	ND	1	0.3	1	Total		O-51086	28-Jul-25	29-Jul-25 18:44
Deltamethrin/Tralomethrin	EPA 625.1-MRM	ng/L	ND	1	0.5	1	Total		O-51086	28-Jul-25	29-Jul-25 18:44
Permethrin, cis-	EPA 625.1-MRM	ng/L	ND	1	2	4	Total		O-51086	28-Jul-25	29-Jul-25 18:44
Permethrin, trans-	EPA 625.1-MRM	ng/L	ND	1	1	2	Total		O-51086	28-Jul-25	29-Jul-25 18:44
Prallethrin	EPA 625.1-MRM	ng/L	ND	1	0.5	1	Total		O-51086	28-Jul-25	29-Jul-25 18:44

QUALITY CONTROL REPORT

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

PHYSIS Project ID: 2201001-250
Client: County of Orange
Project: / WO # 4300

Neonicotinoid Compounds

QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODEc
Sample ID: 134018-B1	**QAQC Procedural Blank**					**Matrix: BlankMatrix**		**Sampled:**				**Received:**	
		Method: EPA 625.1-MRM				Batch ID: O-51086		Prepared: 28-Jul-25				Analyzed: 29-Jul-25	
(d3-Clothianidin)	Total	82	1			% Recovery	100		82	25 - 150%		PASS	
(d3-Thiamethoxam)	Total	75	1			% Recovery	100		75	25 - 150%		PASS	
Acetamiprid	Total	ND	1	10	20	ng/L							
Clothianidin	Total	ND	1	10	20	ng/L							
Dinotefuran	Total	ND	1	6	12	ng/L							
Imidacloprid	Total	ND	1	2	4	ng/L							
Thiacloprid	Total	ND	1	2	4	ng/L							
Thiamethoxam	Total	ND	1	2	4	ng/L							
Sample ID: 134018-BS1	**QAQC Procedural Blank**					**Matrix: BlankMatrix**		**Sampled:**				**Received:**	
		Method: EPA 625.1-MRM				Batch ID: O-51086		Prepared: 28-Jul-25				Analyzed: 29-Jul-25	
(d3-Clothianidin)	Total	89	1			% Recovery	100	0	89	25 - 150%		PASS	
(d3-Thiamethoxam)	Total	88	1			% Recovery	100	0	88	25 - 150%		PASS	
Acetamiprid	Total	2800	1	10	20	ng/L	2500	0	112	50 - 150%		PASS	
Clothianidin	Total	2520	1	10	20	ng/L	2500	0	101	0 - 125%		PASS	
Dinotefuran	Total	1450	1	6	12	ng/L	2500	0	58	0 - 125%		PASS	
Imidacloprid	Total	1480	1	2	4	ng/L	2500	0	59	50 - 150%		PASS	
Thiacloprid	Total	2100	1	2	4	ng/L	2500	0	84	50 - 150%		PASS	
Thiamethoxam	Total	2070	1	2	4	ng/L	2500	0	83	25 - 125%		PASS	

Neonicotinoid Compounds

QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODEc
Sample ID: 134018-BS2	**QAQC Procedural Blank**					**Matrix: BlankMatrix**		**Sampled:**				**Received:**		
	Method: EPA 625.1-MRM					Batch ID: O-51086		Prepared: 28-Jul-25				Analyzed: 29-Jul-25		
(d3-Clothianidin)	Total	103	1			% Recovery	100	0	103	25 - 150%	PASS	15	30	PASS
(d3-Thiamethoxam)	Total	94	1			% Recovery	100	0	94	25 - 150%	PASS	7	30	PASS
Acetamiprid	Total	2320	1	10	20	ng/L	2500	0	93	50 - 150%	PASS	19	30	PASS
Clothianidin	Total	2750	1	10	20	ng/L	2500	0	110	0 - 125%	PASS	9	30	PASS
Dinotefuran	Total	1270	1	6	12	ng/L	2500	0	51	0 - 125%	PASS	13	30	PASS
Imidacloprid	Total	1400	1	2	4	ng/L	2500	0	56	50 - 150%	PASS	5	30	PASS
Thiacloprid	Total	2200	1	2	4	ng/L	2500	0	88	50 - 150%	PASS	5	30	PASS
Thiamethoxam	Total	2250	1	2	4	ng/L	2500	0	90	25 - 125%	PASS	8	30	PASS

Organophosphorus Pesticides QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODEc
Sample ID: 134018-B1	**QAQC Procedural Blank**					**Matrix: BlankMatrix**	**Sampled:**					**Received:**	
	Method: EPA 625.1					Batch ID: O-51086		Prepared: 28-Jul-25				Analyzed: 28-Jul-25	
(PCB030)	Total	103	1			% Recovery	100	103	103	52 - 124%	PASS		
(PCB112)	Total	119	1			% Recovery	100	119	119	49 - 133%	PASS		
(PCB198)	Total	75	1			% Recovery	100	75	75	60 - 129%	PASS		
(TCMX)	Total	101	1			% Recovery	100	101	101	6 - 124%	PASS		
Azinphos Methyl	Total	ND	1	5	10	ng/L							
Bolstar (Sulprofos)	Total	ND	1	2	4	ng/L							
Chlorpyrifos	Total	ND	1	0.5	1	ng/L							
Demeton	Total	ND	1	1	2	ng/L							
Diazinon	Total	ND	1	0.5	1	ng/L							
Dichlorvos	Total	ND	1	3	6	ng/L							
Dimethoate	Total	ND	1	5	10	ng/L							
Disulfoton	Total	ND	1	1	2	ng/L							
Ethoprop (Ethoprofos)	Total	ND	1	1	2	ng/L							
Ethyl Parathion	Total	ND	1	10	20	ng/L							
Fenchlorphos (Ronnel)	Total	ND	1	2	4	ng/L							
Fensulfothion	Total	ND	1	1	2	ng/L							
Fenthion	Total	ND	1	2	4	ng/L							
Malathion	Total	ND	1	2.5	5	ng/L							
Merphos	Total	ND	1	1	2	ng/L							
Methyl Parathion	Total	ND	1	1	2	ng/L							
Mevinphos (Phosdrin)	Total	ND	1	5	10	ng/L							
Phorate	Total	ND	1	5	10	ng/L							
Tetrachlorvinphos (Stirofos)	Total	ND	1	2	4	ng/L							

Organophosphorus Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODEc
Tokuthion (Prothiofos)	Total	ND	1	3	6	ng/L							
Trichloronate	Total	ND	1	1	2	ng/L							

Organophosphorus Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODEc
Sample ID: 134018-BS1	**QAQC Procedural Blank**					**Matrix: BlankMatrix**		**Sampled:**				**Received:**	
	Method: EPA 625.1					Batch ID: O-51086		Prepared: 28-Jul-25				Analyzed: 28-Jul-25	
(PCB030)	Total	98	1			% Recovery	100	0	98	52 - 124%		PASS	
(PCB112)	Total	108	1			% Recovery	100	0	108	49 - 133%		PASS	
(PCB198)	Total	76	1			% Recovery	100	0	76	60 - 129%		PASS	
(TCMX)	Total	97	1			% Recovery	100	0	97	6 - 124%		PASS	
Azinphos Methyl	Total	400	1	5	10	ng/L	500	0	80	50 - 150%		PASS	
Bolstar (Sulprofos)	Total	474	1	2	4	ng/L	500	0	95	46 - 147%		PASS	
Chlorpyrifos	Total	515	1	0.5	1	ng/L	500	0	103	75 - 120%		PASS	
Demeton	Total	532	1	1	2	ng/L	500	0	106	0 - 140%		PASS	
Diazinon	Total	436	1	0.5	1	ng/L	500	0	87	65 - 125%		PASS	
Dichlorvos	Total	566	1	3	6	ng/L	500	0	113	58 - 131%		PASS	
Dimethoate	Total	600	1	5	10	ng/L	500	0	120	17 - 146%		PASS	
Disulfoton	Total	535	1	1	2	ng/L	500	0	107	23 - 136%		PASS	
Ethoprop (Ethoprofos)	Total	585	1	1	2	ng/L	500	0	117	63 - 125%		PASS	
Ethyl Parathion	Total	514	1	10	20	ng/L	500	0	103	50 - 150%		PASS	
Fenchlorphos (Ronnel)	Total	489	1	2	4	ng/L	500	0	98	75 - 128%		PASS	
Fensulfothion	Total	474	1	1	2	ng/L	500	0	95	0 - 173%		PASS	
Fenthion	Total	486	1	2	4	ng/L	500	0	97	57 - 133%		PASS	
Malathion	Total	538	1	2.5	5	ng/L	500	0	108	41 - 150%		PASS	
Merphos	Total	475	1	1	2	ng/L	500	0	95	0 - 139%		PASS	
Methyl Parathion	Total	486	1	1	2	ng/L	500	0	97	37 - 147%		PASS	
Mevinphos (Phosdrin)	Total	626	1	5	10	ng/L	500	0	125	28 - 132%		PASS	
Phorate	Total	497	1	5	10	ng/L	500	0	99	29 - 149%		PASS	
Tetrachlorvinphos (Stirofos)	Total	444	1	2	4	ng/L	500	0	89	57 - 138%		PASS	

Organophosphorus Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODEc
Tokuthion (Prothiofos)	Total	534	1	3	6	ng/L	500	0	107	74 - 136%	PASS			
Trichloronate	Total	475	1	1	2	ng/L	500	0	95	75 - 122%	PASS			

Organophosphorus Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	QA CODEc
Sample ID: 134018-BS2	**QAQC Procedural Blank**					**Matrix: BlankMatrix**		**Sampled:**				**Received:**		
		Method: EPA 625.1				Batch ID: O-51086		Prepared: 28-Jul-25				Analyzed: 28-Jul-25		
(PCB030)	Total	95	1			% Recovery	100	0	95	52 - 124%	PASS	3	30	PASS
(PCB112)	Total	102	1			% Recovery	100	0	102	49 - 133%	PASS	6	30	PASS
(PCB198)	Total	81	1			% Recovery	100	0	81	60 - 129%	PASS	6	30	PASS
(TCMX)	Total	97	1			% Recovery	100	0	97	6 - 124%	PASS	0	30	PASS
Azinphos Methyl	Total	397	1	5	10	ng/L	500	0	79	50 - 150%	PASS	1	30	PASS
Bolstar (Sulprofos)	Total	466	1	2	4	ng/L	500	0	93	46 - 147%	PASS	2	30	PASS
Chlorpyrifos	Total	502	1	0.5	1	ng/L	500	0	100	75 - 120%	PASS	3	30	PASS
Demeton	Total	525	1	1	2	ng/L	500	0	105	0 - 140%	PASS	1	30	PASS
Diazinon	Total	402	1	0.5	1	ng/L	500	0	80	65 - 125%	PASS	8	30	PASS
Dichlorvos	Total	571	1	3	6	ng/L	500	0	114	58 - 131%	PASS	1	30	PASS
Dimethoate	Total	598	1	5	10	ng/L	500	0	120	17 - 146%	PASS	0	30	PASS
Disulfoton	Total	513	1	1	2	ng/L	500	0	103	23 - 136%	PASS	4	30	PASS
Ethoprop (Ethoprofos)	Total	577	1	1	2	ng/L	500	0	115	63 - 125%	PASS	2	30	PASS
Ethyl Parathion	Total	488	1	10	20	ng/L	500	0	98	50 - 150%	PASS	5	30	PASS
Fenchlorphos (Ronnel)	Total	483	1	2	4	ng/L	500	0	97	75 - 128%	PASS	1	30	PASS
Fensulfothion	Total	487	1	1	2	ng/L	500	0	97	0 - 173%	PASS	2	30	PASS
Fenthion	Total	484	1	2	4	ng/L	500	0	97	57 - 133%	PASS	0	30	PASS
Malathion	Total	513	1	2.5	5	ng/L	500	0	103	41 - 150%	PASS	5	30	PASS
Merphos	Total	481	1	1	2	ng/L	500	0	96	0 - 139%	PASS	1	30	PASS
Methyl Parathion	Total	495	1	1	2	ng/L	500	0	99	37 - 147%	PASS	2	30	PASS
Mevinphos (Phosdrin)	Total	633	1	5	10	ng/L	500	0	127	28 - 132%	PASS	2	30	PASS
Phorate	Total	474	1	5	10	ng/L	500	0	95	29 - 149%	PASS	4	30	PASS
Tetrachlorvinphos (Stirofos)	Total	447	1	2	4	ng/L	500	0	89	57 - 138%	PASS	0	30	PASS

Organophosphorus Pesticides — QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS		QA CODEc
Tokuthion (Prothiofos)	Total	514	1	3	6	ng/L	500	0	103	74 - 136%	PASS	4	30	PASS	
Trichloronate	Total	472	1	1	2	ng/L	500	0	94	75 - 122%	PASS	1	30	PASS	

Pyrethroids

QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODEc
Sample ID: 134018-B1	**QAQC Procedural Blank**					**Matrix: BlankMatrix**	**Sampled:**					**Received:**	
	Method: EPA 625.1-MRM					Batch ID: O-51086		Prepared: 28-Jul-25				Analyzed: 29-Jul-25	
(d5-Bifenthrin)	Total	83	1			% Recovery	100	83	50 - 150%	PASS			
(d5-Fenvalerate)	Total	79	1			% Recovery	100	79	50 - 150%	PASS			
Allethrin	Total	ND	1	0.5	1	ng/L							
Bifenthrin	Total	ND	1	0.5	1	ng/L							
Cyfluthrin	Total	ND	1	0.5	1	ng/L							
Cyhalothrin, Total Lambda	Total	ND	1	0.5	1	ng/L							
Cypermethrin	Total	ND	1	0.5	1	ng/L							
Danitol (Fenpropathrin)	Total	ND	1	0.3	1	ng/L							
Deltamethrin/Tralomethrin	Total	ND	1	0.5	1	ng/L							
Permethrin, cis-	Total	ND	1	2	4	ng/L							
Permethrin, trans-	Total	ND	1	1	2	ng/L							
Prallethrin	Total	ND	1	0.5	1	ng/L							

Pyrethroids

QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS	PRECISION %	PRECISION LIMITS	QA CODEc
Sample ID: 134018-BS1	**QAQC Procedural Blank**					**Matrix: BlankMatrix**		**Sampled:**				**Received:**	
		Method: EPA 625.1-MRM				Batch ID: O-51086		Prepared: 28-Jul-25				Analyzed: 29-Jul-25	
(d5-Bifenthrin)	Total	83	1			% Recovery	100	0	83	50 - 150%	PASS		
(d5-Fenvalerate)	Total	81	1			% Recovery	100	0	81	50 - 150%	PASS		
Allethrin	Total	554	1	0.5	1	ng/L	500	0	111	63 - 124%	PASS		
Bifenthrin	Total	515	1	0.5	1	ng/L	500	0	103	58 - 137%	PASS		
Cyfluthrin	Total	509	1	0.5	1	ng/L	500	0	102	55 - 140%	PASS		
Cyhalothrin, Total Lambda	Total	547	1	0.5	1	ng/L	500	0	79	59 - 138%	PASS		
Cypermethrin	Total	417	1	0.5	1	ng/L	500	0	83	56 - 139%	PASS		
Danitol (Fenpropathrin)	Total	349	1	0.3	1	ng/L	500	0	70	65 - 131%	PASS		
Deltamethrin/Tralomethrin	Total	398	1	0.5	1	ng/L	500	0	80	17 - 166%	PASS		
Permethrin, cis-	Total	175	1	2	4	ng/L	200	0	88	27 - 164%	PASS		
Permethrin, trans-	Total	235	1	1	2	ng/L	300	0	78	41 - 147%	PASS		
Prallethrin	Total	370	1	0.5	1	ng/L	500	0	74	58 - 122%	PASS		

PHYSIS
TERRA FAUNA FLORA AQUA AURA
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

PHYSIS Project ID: 2201001-250
Client: County of Orange
Project: / WO # 4300

Pyrethroids

QUALITY CONTROL REPORT

ANALYTE	FRACTION	RESULT	DF	MDL	RL	UNITS	SPIKE LEVEL	SOURCE RESULT	ACCURACY %	ACCURACY LIMITS		PRECISION %	PRECISION LIMITS	
Sample ID: 134018-BS2	**QAQC Procedural Blank**					**Matrix: BlankMatrix**		**Sampled:**				**Received:**		
		Method: EPA 625.1-MRM				Batch ID: O-51086		Prepared: 28-Jul-25				Analyzed: 29-Jul-25		
(d5-Bifenthrin)	Total	109	1			% Recovery	100	0	109	50 - 150%	PASS	27	30	PASS
(d5-Fenvalerate)	Total	94	1			% Recovery	100	0	94	50 - 150%	PASS	15	30	PASS
Allethrin	Total	459	1	0.5	1	ng/L	500	0	92	63 - 124%	PASS	19	30	PASS
Bifenthrin	Total	416	1	0.5	1	ng/L	500	0	83	58 - 137%	PASS	22	30	PASS
Cyfluthrin	Total	348	1	0.5	1	ng/L	500	0	109	55 - 140%	PASS	7	30	PASS
Cyhalothrin, Total Lambda	Total	369	1	0.5	1	ng/L	500	0	74	59 - 138%	PASS	7	30	PASS
Cypermethrin	Total	372	1	0.5	1	ng/L	500	0	74	56 - 139%	PASS	11	30	PASS
Danitol (Fenpropathrin)	Total	375	1	0.3	1	ng/L	500	0	75	65 - 131%	PASS	7	30	PASS
Deltamethrin/Tralomethrin	Total	323	1	0.5	1	ng/L	500	0	65	17 - 166%	PASS	21	30	PASS
Permethrin, cis-	Total	165	1	2	4	ng/L	200	0	82	27 - 164%	PASS	7	30	PASS
Permethrin, trans-	Total	265	1	1	2	ng/L	300	0	88	41 - 147%	PASS	12	30	PASS
Prallethrin	Total	314	1	0.5	1	ng/L	500	0	63	58 - 122%	PASS	16	30	PASS

CHAIN OF CUSTODY

CONTRACT LAB PHYSIS

Lab PA# MA-080-17010712

CONTACT Bryan Pastor (714) 955-0662

PNIR _____

Chain of Custody

Orange County Public Works
OC Watersheds
2245 N. Glassell St.
Orange, CA 92865
Phone (714) 955-0600
Fax (714) 955-0637

Workorder # 4300

DATE 07/25/2025

County Seals Intact Yes ___ No ___

Sample Ambient Cooled ___ Frozen

Handling _____

SAMPLE #	Date & Time	# Containers	Matrix	Description	Analyses Required	Remarks	Project #
4300001	07/25/2025 1111	3	FW	G S	NEONIC, OPP, PP		
4300002	07/25/2025 1135	3	FW	G S	NEONIC, OPP, PP		
4300003	07/25/2025 1212	3	FW	G S	NEONIC, OPP, PP		

24 HR RUSH PLEASE

	Signature	Print Name	Organization	Date	Time
Relinquished By		Siezen Groves	OCPW	7/25/25	1330
Received By		MARKO BAKIC	PHYSIS	7/25/25	1556
Relinquished By					
Received By					
Relinquished By					
Received By					

PHYSIS
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

PHYSIS
ENVIRONMENTAL LABORATORIES, INC.
Innovative Solutions for Nature

Project Iteration ID: 2201001-250
Client Name: County of Orange
Project Name: / WO # 4300
COC Page Number: 2 of 2
Bottle Label Color: NA

Sample Receipt Summary

Receiving Info

1. Initials Received By: MDB
2. Date Received: 2/25/25
3. Time Received: 1630
4. Client Name: OCPW
5. Courier Information: (Please circle)
   - Client
   - UPS
   - Area Fast
   - DRS
   - FedEx
   - GSO/GLS
   - Ontrac
   - PAMS

   (•) PHYSIS Driver:
   i. Start Time: N/C
   ii. End Time: _____
   iii. Total Mileage: _____
   iv. Number of Pickups: _____
6. Container Information: (Please put the # of containers or circle none)
   (•) 1 Cooler • ___ Styrofoam Cooler • ___ Boxes • None
   • ___ Carboy(s) • ___ Carboy Trash Can(s) • ___ Carboy Cap(s) • Other _____
7. What type of ice was used: (Please circle any that apply)
   (•) Wet Ice • Blue Ice • Dry Ice • Water • None
8. Randomly Selected Samples Temperature (°C): 2.6 Used I/R Thermometer # ____

Inspection Info

1. Initials Inspected By: MDB

Sample Integrity Upon Receipt:

1. COC(s) included and completely filled out..... (Yes) / No
2. All sample containers arrived intact..... (Yes) / No
3. All samples listed on COC(s) are present..... (Yes) / No
4. Information on containers consistent with information on COC(s)..... (Yes) / No
5. Correct containers and volume for all analyses indicated..... Yes / (No)
6. All samples received within method holding time..... (Yes) / No
7. Correct preservation used for all analyses indicated..... (Yes) / No
8. Name of sampler included on COC(s)..... Yes / (No)

Notes:
5. # containers = 2 rec'd, not "3" on COC