



March 29, 2023
Project No. 404502001

Ms. Paula Hartman, Esq.
Principal
MIG
2055 Junction Avenue, Suite 205
San Jose, California 95131

Subject: Rice Straw and Substrate Characterization Report
Oceano Dunes State Vehicular Recreation Area
100 Pier Avenue
Oceano, California 93445

Dear Ms. Hartman:

Ninyo & Moore is pleased to submit this Rice Straw and Substrate Characterization Report which presents the rice straw and Substrate characterization activities and results at the Oceano Dunes State Vehicular Recreation Area located in Oceano, California (site, Figure 1). The site is part of approximately 705.5 coastal acres of dust control area, of which approximately 335 acres is vegetated. The site consists of two areas (northern and southern portions), totaling 27.3 acres, which have been treated with blown on rice straw that is cultivated in and shipped from the Sacramento Valley. The northern and southern portions of the site were treated with blown on rice straw in November 2022 (new), and the southern portion of the site was treated with blown on rice straw in April 2022 (old). A photo log is included in Appendix A and includes photographs of each sample location.

Our scope of services for the characterization was in response to a request from MIG to assess whether potential constituents of concern (COCs), including mercury and fungicides, were present above their appropriate screening criteria in the site blown on straw and underlying substrate, which consisted of coarse beach sand.

SCOPE OF SERVICES

Substrate and Rice Straw Sample Collection

Ninyo & Moore's scope of services for the characterization included the following activities:

- Ninyo & Moore was escorted on the site to collect the rice straw and substrate samples on February 24th, 2023 by Ben Wagner, Senior Environmental Scientist for California State Parks.
- Ninyo & Moore collected two sets of substrate samples from each of the five substrate sample locations (S-1 to S-5) from the surface and two sets of rice straw samples from each of the five rice straw sample locations (S-1-NS to S-3-NS, S-4-OS and S-5-NS) from the overlying rice straw (Figure 2). In the Northern portion of the site, the two sample sets were collected at three sample locations (S-1 to S-3 and S-1-NS to S-3-NS) (Figure 2). In the Southern portion of the site, the two sample sets were collected at two sample locations (S-4 and S-5, and S-4-OS and S-5-NS), one from the old blown on rice straw area (April 2022 application) and the other in the new blown on rice straw area (November 2022 application) (Figure 3).
- Substrate samples were collected from the surface using hand tools and placed directly into clean laboratory-supplied 8-oz glass sample jars. Rice straw samples were collected by hand and placed into clean laboratory-supplied 16-oz glass sample jars. A fresh pair of disposable nitrile gloves were worn by the sampler at each rice straw sample location and all hand tools used for sample collection were decontaminated between substrate sample locations. Subsequent to collection, all substrate and rice straw samples were labeled, logged on a chain-of-custody form, and placed in a cooler with ice pending shipment to an environmental laboratory.
- One set of substrate and rice straw samples was submitted by the sampler to Torrent Laboratories, a California-certified laboratory located in Milpitas, California, for mercury analysis using United States Environmental Protection Agency (EPA) Method 7471B. A second set of substrate and rice straw samples was shipped via courier to Environmental Micro Analytical (EMA), a California-certified laboratory located in Woodland, California, for fungicide analysis by LC/MS/MS screening and organochlorine pesticides (OCPs) by OC and Pyrethroid screening.

SUBSTRATE AND RICE STRAW ANALYTICAL RESULTS

Substrate Sample Analytical Results

All substrate samples were analyzed for mercury, OCPs, and fungicides, and the analytical results were compared to the San Francisco Bay Regional Water Quality Control Board (RWQCB) Residential and Construction Worker Shallow Soil Exposure Environmental Screening Levels (ESLs), dated January, 2019 (Rev. 2) for mercury and OCPs, the Code of Federal Regulations (CFR) Title 40, Chapter 1, Subchapter E, Part 180 Tolerances and Exemptions for Pesticide Chemical Residues in Food (November 1971) for the fungicide constituents, and to the Department of Toxic Substances Control (DTSC) HHRA Note Number 3 – DTSC-Modified Screening Levels – June 2020

Revised, for Residential Soil, Noncancer Endpoint. All of the screening levels are reflective of statewide standards. The analytical results are discussed below and summarized in Table 1. Copies of the laboratory analytical reports are included in Appendix B.

Mercury

- All substrate sample analytical results were below the laboratory reporting limits for mercury.

OCPs

- All substrate sample analytical results were below the laboratory reporting limits for OCPs.

Fungicides

- All of the substrate sample analytical results were below the laboratory reporting limits for fungicides.

Table 1 – Substrate Analytical Results - Mercury, OCPs, and Fungicides					
Sample ID	Depth	Date Collected	Mercury mg/kg	OCPs	Fungicides PPM
S-1			ND < 0.5	ND	ND
S-2	Surface	2/24/23	ND < 0.5	ND	ND
S-3	Surface	2/24/23	ND < 0.5	ND	
S-4	Surface	2/24/23	ND < 0.5	ND	ND
S-5	Surface	2/24/23	ND < 0.5	ND	ND
Screening Levels					
Residential ESLs ¹			13	Various	NE
Construction Worker ESLs ²			44	Various	NE
Federal Regulations ³			NE	NE	Various
DTSC HHRA Residential ESLs ⁴			1	Various	Various
Notes:					
mg/kg – milligrams per kilogram					
PPM - parts per million					
ND, ND < 0.5 – not detected at or above laboratory reporting limits					
NE – not established					
1. San Francisco Bay Regional Water Quality Control Board (RWQCB) Residential Shallow Soil Exposure Environmental Screening Levels (ESLs), July, 2019 (Rev.2)					
2. San Francisco Bay Regional Water Quality Control Board (RWQCB) Construction Worker Shallow Soil Exposure Environmental Screening Levels (ESLs), July, 2019 (Rev.2)					
3. Code of Federal Regulations (CFR) Title 40, Chapter 1, Subchapter E, Part 180 Tolerances and Exemptions for Pesticide Chemical Residues in Food (November 1971)					
4. Department of Toxic Substances Control (DTSC) HHRA Note Number 3 – DTSC-Modified Screening Levels – June 2020 Revised, for Residential Soil, Noncancer Endpoint.					

Rice Straw Sample Analytical Results

Rice straw samples were analyzed using similar analytical methods as the substrate samples, and were compared to the same regulatory screening criteria. The analytical results are discussed below and summarized in Table 2. Copies of the laboratory analytical reports are included in Appendix B.

Four of the straw samples (S-1-NS, S-2-NS, S-3-NS, and S-5-NS) were collected from the new rice straw areas, while one straw sample (S-4-OS) was collected from the old rice straw area.

Mercury

- All of the rice straw sample analytical results were below laboratory reporting limits for mercury.

OCPs

- All of the straw sample analytical results were below laboratory reporting limits for OCPs.

Fungicides

- All fungicide constituents, with the exception of Azoxystrobin and Propiconazole, were reported below laboratory reporting limits in all rice straw samples. Azoxystrobin and Propiconazole were detected above laboratory reporting limits in all of the rice straw samples, with the exception of Propiconazole, which was not detected above the laboratory reporting limit in the old (April 2022) sample (S-4-OS). Rice straw fungicide analytical results are presented in Table 2.

Table 2 – Straw Analytical Results - Mercury, OCPs, and Fungicides							
Sample ID	Depth	Date Collected	Mercury	OCPs	Azoxystrobin	Propiconazole	All Other Fungicides
			mg/kg	PPM			
S-1-NS	Surface	2/24/23	ND < 0.5	ND	0.09	0.04	ND
S-2-NS	Surface	2/24/23	ND < 0.5	ND	0.07	0.03	ND
S-3-NS	Surface	2/24/23	ND < 0.5	ND	0.14	0.05	ND
S-4-OS	Surface	2/24/23	ND < 0.5	ND	0.05	ND	ND
S-5-NS	Surface	2/24/23	ND < 0.5	ND	0.14	0.04	ND

Screening Levels						
Residential ESLs ¹	13	Various	NE	NE	NE	NE
Construction Worker ESLs ²	44	Various	NE	NE	NE	NE
Federal Regulations ³	NE	NE	5	20	Various	
DTSC HHRA Residential ESLs ⁴	1	Various	NE	6,300	NE	

Notes:
mg/kg – milligrams per kilogram
PPM – parts per million
ND, ND < 0.5 – not detected equal to or above laboratory reporting limits
NE – not established
1. San Francisco Bay Regional Water Quality Control Board (RWQCB) Residential Shallow Soil Exposure Environmental Screening Levels (ESLs), July, 2019 (Rev.2)
2. San Francisco Bay Regional Water Quality Control Board (RWQCB) Construction Worker Shallow Soil Exposure Environmental Screening Levels (ESLs), July, 2019 (Rev.2)
3. Code of Federal Regulations (CFR) Title 40, Chapter 1, Subchapter E, Part 180 Tolerances and Exemptions for Pesticide Chemical Residues in Food (November 1971)
4. Department of Toxic Substances Control (DTSC) HHRA Note Number 3 – DTSC-Modified Screening Levels – June 2020 Revised, for Residential Soil, Noncancer Endpoint.

SUMMARY AND CONCLUSIONS

Ninyo & Moore collected two sets of three substrate (S-1 to S-3) and two sets of three rice straw samples (S-1-NS to S-3-NS) from the northern portion of the site, and two sets of two substrate (S-4 and S-5) and two rice straw samples (S-4-OS, and S-5-NS) from the southern portion of the site. The northern and southern portions of the site were treated with blown on rice straw in November 2022 (new), and the southern portion of the site was treated with blown on rice straw in April 2022 (old). All samples were analyzed for mercury by Torrent Laboratory and OCPs and fungicides by EMA Laboratory.

The sample analytical results for all substrate samples were below the laboratory reporting limits for mercury, OCPs and fungicides. The rice straw analytical results were below the laboratory reporting limits for mercury and OCPs. The fungicide Azoxystrobin was detected in all rice straw samples above laboratory reporting limits, and the fungicide Propiconazole was detected above laboratory reporting limits in all of the new rice straw samples (S-1-NS to S-3-NS, and S-5-NS), but was below the laboratory reporting limit in the old sample (S-4-OS). The two fungicides reported in the rice straw samples were well below the most conservative screening levels used for comparison which were the tolerance levels established in the Code of Federal Regulations Tolerances and Exemptions for Pesticide Chemical Residues in Food (CFR Title 40, Chapter 1, Subchapter E, Part 180 Tolerances levels). The tolerance levels were created to establish an allowable amount of pesticides and fungicides on agricultural goods in the USA. According to a representative from the EMA Laboratory, the absence of Propiconazole in the old (April 2022) rice straw sample was possibly the result of the fungicide desorbing due to fluvial processes.

Based on the information presented in this report, no additional investigations are recommended.

Respectfully submitted,
NINYO & MOORE



Luke Swickard
Senior Staff Environmental Scientist



Brandon S. Wilken, PG 7564
Principal Geologist



Kris M. Larson, PG 8059
Principal Geologist

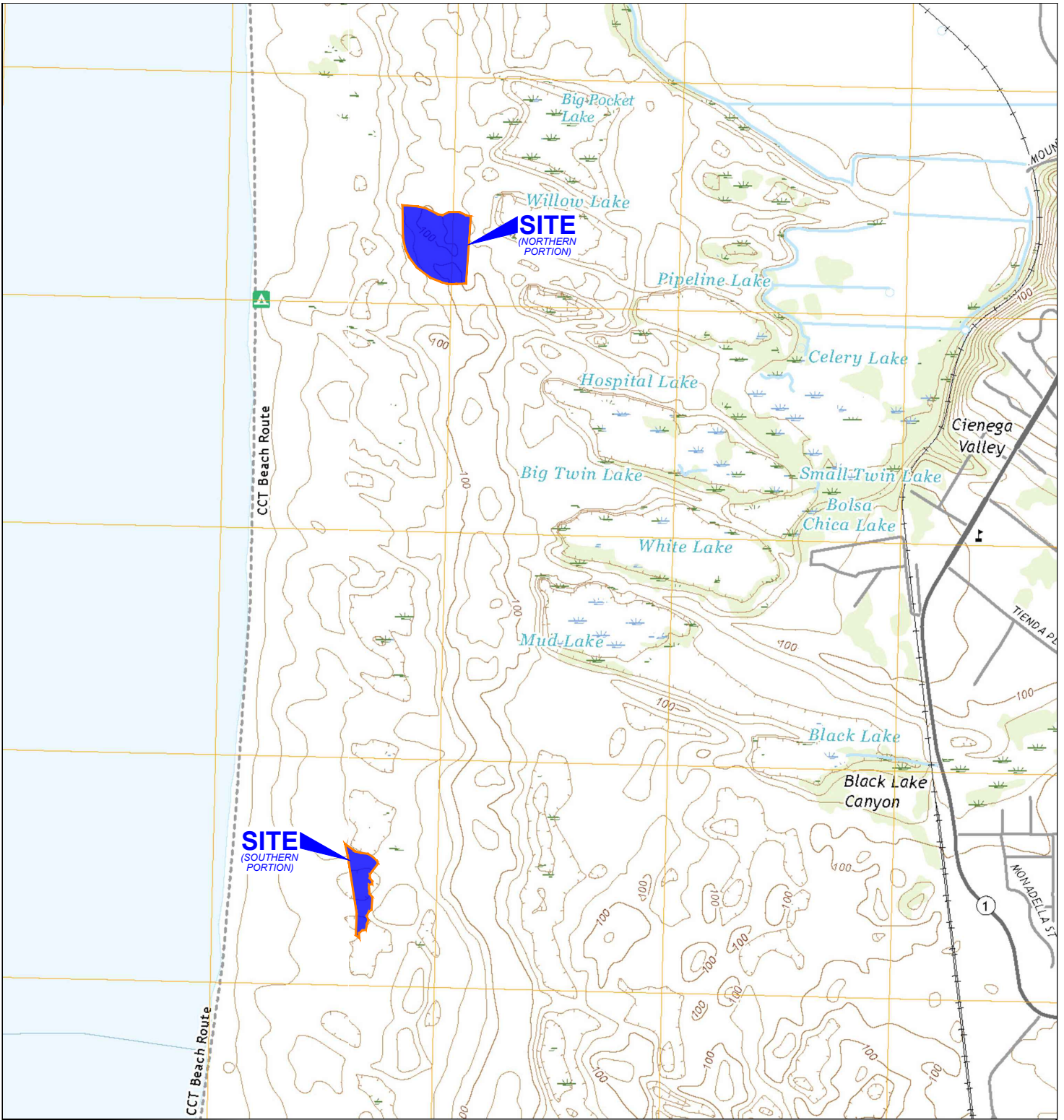


LIS/ KML/BSW/gvr

- Attachments: Figure 1 – Site Location
Figure 2 - Site Plan – Northern Portion
Figure 3 – Site Plan – Southern Portion
Appendix A – Photo Log
Appendix B – Laboratory Analytical Reports



404502001.dwg 03/21/2023 AEK



NOTE: DIMENSIONS, DIRECTIONS, AND LOCATIONS ARE APPROXIMATE | REFERENCE: USGS, 2018

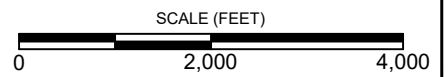


FIGURE 1

404502001.dwg 03/21/2023 AEK



LEGEND

--- SITE BOUNDARY

S-1/
S-1-NS ● SUBSTRATE AND RICE STRAW
SAMPLE POINT

NOTE: DIMENSIONS, DIRECTIONS, AND LOCATIONS ARE APPROXIMATE
REFERENCE: GOOGLE EARTH, 2023

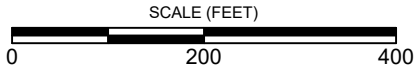
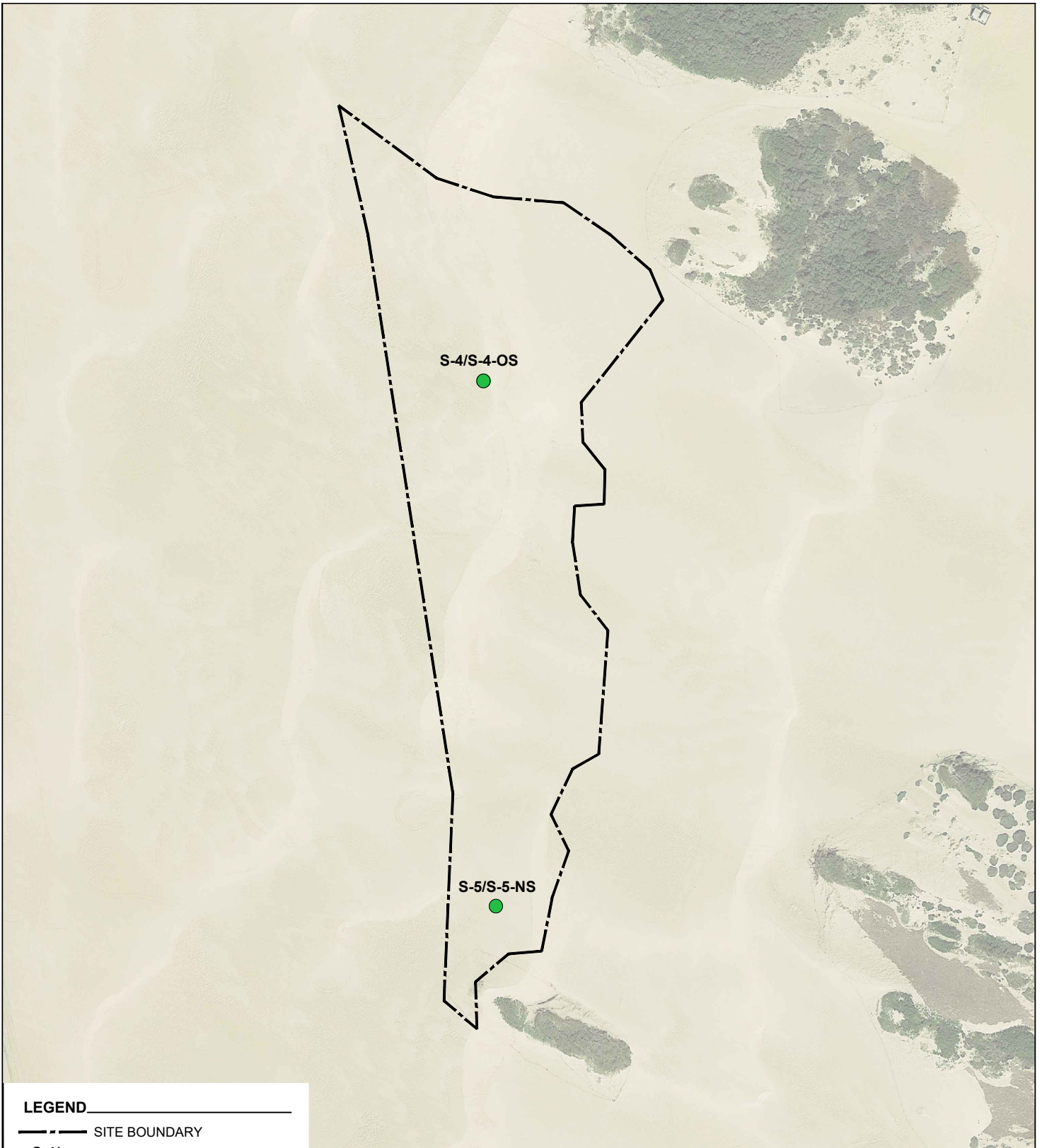


FIGURE 2

404502001.dwg 03/21/2023-AEK



LEGEND

--- SITE BOUNDARY

S-4/
S-4-OS ● SUBSTRATE AND RICE STRAW
SAMPLE POINT

NOTE: DIMENSIONS, DIRECTIONS, AND LOCATIONS ARE APPROXIMATE
REFERENCE: GOOGLE EARTH, 2023

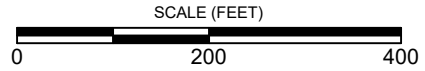


FIGURE 3

SITE PLAN - SOUTHERN PORTION

RICE STRAW AND SUBSTRATE CHARACTERIZATION
100 PIER AVENUE
OCEANO, CALIFORNIA
404502001 | 03/23





Photograph 1: View of S-1 and S-1-NS sample location.



Photograph 2: View of S-2 and S-2-NS sample location.



Photograph 3: View of S-3 and S-3-NS sample location.



Photograph 4: View of S-4 and S-4-OS sample location.



Photograph 5: View of S-5 and S-5-NS sample location.



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ANALYTICAL REPORT



IEH
Laboratories &
Consulting Group

March 9, 2023

Client: Luke Swickard
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Project No: Oceano Dunes SVRA Rice Straw and
PO No: 404502001

Client Sample ID: S-1

EMA Sample No: 23022817-01

Date Received: 2/28/2023

Sample Matrix: Soil

Analytical Method: OC Screen

Extraction Method: CDFA

Date Extracted: 3/3/2023

Date Completed: 3/6/2023

Comments:

If the amount column displays: OC - See OC Screen, Pyr - See Pyrethroid Screen, ON - See ON Screen, OP - See OP Screen, CB - See CB screen, GC/MS - See GC/MS/MS Screen, LC/MS - See LC/MS/MS Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180 and/or MRLdatabase.com. Environmental Micro Analysis makes no claims as to the accuracy of tolerance numbers.
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Analyte	Amount ppm	RL ppm	Tolerance 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	
Chloroneb	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	
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	

Date: 03/09/23

Reviewed by:  Robert Hughes, Lab Manager

Page: 1 of 35



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Analyte

Bifenthrin
Cyfluthrin
Cypermethrin
Deltamethrin
Esfenvalerate
Fenpropathrin
Fluvalinate
lambda Cyhalothrin
Permethrin
Tralomethrin
Pyrethrins (Total)

Amount ppm	RL ppm	Tolerance ppm
ND	0.020	
ND	0.040	
ND	0.040	
ND	0.020	
ND	0.030	
ND	0.010	
ND	0.040	
ND	0.020	
ND	0.100	
ND	0.020	
ND	0.050	

Project No: Oceano Dunes SVRA Rice Straw and

PO No: 404502001

Client Sample ID: S-1

EMA Sample No: 23022817-01

Date Received: 2/28/2023

Sample Matrix: Soil

Analytical Method: Pyrethroid Screen

Extraction Method: CDFA

Date Extracted: 3/3/2023

Date Completed: 3/6/2023

Comments:

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Date: 03/09/23 Reviewed by:  Robert Hughes, Lab Manager



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Project No: Oceano Dunes SVRA Rice Straw and

PO No: 404502001

Client Sample ID: S-1

EMA Sample No: 23022817-01

Date Received: 2/28/2023

Sample Matrix: Soil

Analytical Method: LC/MS/MS A-Cu

Extraction Method: FDA 302

Date Extracted: 3/3/2023

Date Completed: 3/6/2023

Comments:

If the amount column displays: OC - See OC Screen, Pyr - See Pyrethroid Screen, ON - See ON Screen, OP - See OP Screen, CB - See CB screen, GC/MS - See GC/MS/MS Screen, LC/MS - See LC/MS/MS Screen
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Analyte	Amount ppm	RL ppm	Tolerance ppm
3-Hydroxycarbofuran	ND	0.010	
Acephate	ND	0.010	
Acetamiprid	ND	0.010	
Acetochlor	ND	0.010	
Acibenzolar-S-methyl	ND	0.010	
Alachlor	ND	0.010	
Alanycarb	ND	0.010	
Aldicarb	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	ND	0.010	
Azinphos-methyl	ND	0.010	
Azoxystrobin	ND	0.010	
BAP(6-benzylaminopurine)	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	ND	0.010	
Bupirimate	ND	0.010	
Buprofezin	ND	0.010	
Butachlor	ND	0.010	
Butafenacil	ND	0.010	
Butocarboxim	ND	0.010	
Butoxycarboxim	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	
Chlorimuron-ethyl	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	
Crotoxyphos	ND	0.010	
Cumyluron	ND	0.010	



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Sample Matrix: Soil

Analytical Method: LC/MS/MS Cy-Fe

Extraction Method: FDA 302

Date Extracted: 3/3/2023

Date Completed: 3/6/2023

Comments:

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Analyte	Amount ppm	RL ppm	Tolerance ppm
Cyanazine	ND	0.010	
Cyazofamid	ND	0.010	
Cycloxydim	ND	0.010	
Cyflumetofen	ND	0.010	
Cyflufenamid	ND	0.010	
Cyhexatin	ND	0.010	
Cymoxanil	ND	0.010	
Cyproconazole	ND	0.010	
Cyprodinil	ND	0.010	
Cyromazine	ND	0.010	
Daimuron	ND	0.010	
Diafenthiuron	ND	0.010	
Diazinon	ND	0.010	
Dichlorvos	ND	0.010	
Diclobutrazol	ND	0.010	
Dicofol	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	
Dinotefuran	ND	0.010	
Dioxacarb	ND	0.010	
Diuron	ND	0.010	
DMST	ND	0.010	
Dodine	ND	0.010	
Doramectin	ND	0.010	
Emamectin	ND	0.010	
EPN	ND	0.010	
Epoxiconazole	ND	0.010	
Eprinomectin	ND	0.010	
Esprocarb	ND	0.010	
Etaconazole	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	
Famphur	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	
Fensulfothion	ND	0.010	
Fenuron	ND	0.010	



The Leader in Pesticide Residue Analysis...

ANALYTICAL REPORT



IEH
Laboratories &
Consulting Group

March 9, 2023

Client: Luke Swickard
Ninyo & Moore
1401 Halyard Dr. Suite 110
West Sacramento, CA 95691
Phone: (530) 219-3575
Fax: (602) 243-2699
Email: lswickard@ninyoandmoore.com

Project No: Oceano Dunes SVRA Rice Straw and
PO No: 404502001

Client Sample ID: S-1

EMA Sample No: 23022817-01

Date Received: 2/28/2023

Sample Matrix: Soil

Analytical Method: LC/MS/MS FI-Mep

Extraction Method: FDA 302

Date Extracted: 3/3/2023

Date Completed: 3/6/2023

Comments:

If the amount column displays: OC - See OC Screen, Pyr - See Pyrethroid Screen, ON - See ON Screen, OP - See OP Screen, CB - See CB screen, GC/MS - See GC/MS/MS Screen, LC/MS - See LC/MS/MS Screen
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Analyte	Amount ppm	RL ppm	Tolerance ppm
Flonicamid	ND	0.010	
Fluazifop-butyl	ND	0.010	
Flubendiamide	ND	0.010	
Fludioxonil	ND	0.010	
Flufenacet	ND	0.010	
Flufenoxuron	ND	0.010	
Fluometuron	ND	0.010	
Fluopicolide	ND	0.010	
Fluopyram	ND	0.010	
Fluoxastrobin	ND	0.010	
Flupyradifurone	ND	0.010	
Fluquinconazole	ND	0.010	
Fluridone	ND	0.010	
Flusilazole	ND	0.010	
Flutolanil	ND	0.010	
Flutriafof	ND	0.010	
Fluxapyroxad	ND	0.010	
Fomesafen	ND	0.010	
Forchlorfenuron	ND	0.010	
Formetanate	ND	0.010	
Fuberidazole	ND	0.010	
Furalaxyl	ND	0.010	
Halofenozide	ND	0.010	
Hexaconazole	ND	0.010	
Hexaflumuron	ND	0.010	
Hexazinone	ND	0.010	
Hexythiazox	ND	0.010	
Hydramethylnon	ND	0.010	
Imazalil	ND	0.010	
Imibenconazole	ND	0.010	
Imidacloprid	ND	0.010	
Indaziflam	ND	0.010	
Indoxacarb	ND	0.010	
Ipconazole	ND	0.010	
Iprovalicarb	ND	0.010	
Isocarbamid	ND	0.010	
Isafenphos	ND	0.010	
Isoprocarb	ND	0.010	
Isoprothiolane	ND	0.010	
Isoproturon	ND	0.010	
Ivermectin	ND	0.010	
Karbutylate	ND	0.010	
Kresoxim-methyl	ND	0.010	
Lactofen	ND	0.010	
Linuron	ND	0.010	
Lufenuron	ND	0.010	
Malathion	ND	0.010	
Mandipropamid	ND	0.010	
Mefenacet	ND	0.010	
Mepanipyrim	ND	0.010	
Mepronil	ND	0.010	



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Project No: Oceano Dunes SVRA Rice Straw and
PO No: 404502001

Client Sample ID: S-1

EMA Sample No: 23022817-01

Date Received: 2/28/2023

Sample Matrix: Soil

Analytical Method: LC/MS/MS Met-Pr

Extraction Method: FDA 302

Date Extracted: 3/3/2023

Date Completed: 3/6/2023

Comments:

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Analyte	Amount ppm	RL ppm	Tolerance ppm
Metaflumizone	ND	0.010	
Metalaxyl & Mefenoxam	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	
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	
Nuarimol	ND	0.010	
Omethoate	ND	0.010	
Oxadixyl	ND	0.010	
Oxamyl	ND	0.010	
Paclobutrazol	ND	0.010	
Penconazole	ND	0.010	
Pencycuron	ND	0.010	
Pendimethalin	ND	0.010	
Penthiopyrad	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	
Profenofos	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	
Proquinazid	ND	0.010	



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PO No: 404502001

Client Sample ID: S-1

EMA Sample No: 23022817-01

Date Received: 2/28/2023

Sample Matrix: Soil

Analytical Method: LC/MS/MS Py-Z

Extraction Method: FDA 302

Date Extracted: 3/3/2023

Date Completed: 3/6/2023

Comments:

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Analyte	Amount ppm	RL ppm	Tolerance ppm
Pymetrozine	ND	0.010	
Pyracarbolid	ND	0.010	
Pyraclostrobin	ND	0.010	
Pyraflufen-ethyl	ND	0.010	
Pyrethrins	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	
Sedaxane	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	
Spinosyn	ND	0.010	
Spirodiclofen	ND	0.010	
Spiromesifin	ND	0.010	
Spirotetramat	ND	0.010	
Spiroxamine	ND	0.010	
Sulfoxaflor	ND	0.010	
Tebuconazole	ND	0.010	
Tebufenozide	ND	0.010	
Tebufenpyrad	ND	0.010	
Tebupirimfos	ND	0.010	
Tebuthiuron	ND	0.010	
Temephos	ND	0.010	
Tepraloxydim	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 (as Carbendazim)	ND	0.010	
Triadimefon	ND	0.010	
Triadimenol	ND	0.010	
Triazophos	ND	0.010	
Tricyclazole	ND	0.010	
Tridemorph	ND	0.010	
Trifloxystrobin	ND	0.010	
Triflumizole	ND	0.010	
Triflumuron	ND	0.010	
Triticonazole	ND	0.010	
Uniconazole	ND	0.010	
Vamidothion	ND	0.010	
Zoxamide	ND	0.010	



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Project No: Oceano Dunes SVRA Rice Straw and

PO No: 404502001

Client Sample ID: S-2

EMA Sample No: 23022817-02

Date Received: 2/28/2023

Sample Matrix: Soil

Analytical Method: OC Screen

Extraction Method: CDFA

Date Extracted: 3/3/2023

Date Completed: 3/6/2023

Comments:

If the amount column displays: OC - See OC Screen, Pyr - See Pyrethroid Screen, ON - See ON Screen, OP - See OP Screen, CB - See CB screen, GC/MS - See GC/MS/MS Screen, LC/MS - See LC/MS/MS Screen
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Analyte	Amount ppm	RL ppm	Tolerance 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	
Chloroneb	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	
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	



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ANALYTICAL REPORT



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West Sacramento, CA 95691
Phone: (530) 219-3575
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Analyte

Bifenthrin
Cyfluthrin
Cypermethrin
Deltamethrin
Esfenvalerate
Fenpropathrin
Fluvalinate
lambda Cyhalothrin
Permethrin
Tralomethrin
Pyrethrins (Total)

Amount **RL** **Tolerance**
ppm **ppm** **ppm**

ND 0.020
ND 0.040
ND 0.040
ND 0.020
ND 0.030
ND 0.010
ND 0.040
ND 0.020
ND 0.100
ND 0.020
ND 0.050

Project No: Oceano Dunes SVRA Rice Straw and

PO No: 404502001

Client Sample ID: S-2

EMA Sample No: 23022817-02

Date Received: 2/28/2023

Sample Matrix: Soil

Analytical Method: Pyrethroid Screen

Extraction Method: CDFA

Date Extracted: 3/3/2023

Date Completed: 3/6/2023

Comments:

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Date: 03/09/23 Reviewed by:  Robert Hughes, Lab Manager

Page: 9 of 35



The Leader in Pesticide Residue Analysis...

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PO No: 404502001

Client Sample ID: S-2

EMA Sample No: 23022817-02

Date Received: 2/28/2023

Sample Matrix: Soil

Analytical Method: LC/MS/MS A-Cu

Extraction Method: FDA 302

Date Extracted: 3/3/2023

Date Completed: 3/6/2023

Comments:

If the amount column displays: OC - See OC Screen, Pyr - See Pyrethroid Screen, ON - See ON Screen, OP - See OP Screen, CB - See CB screen, GC/MS - See GC/MS/MS Screen, LC/MS - See LC/MS/MS Screen
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Analyte	Amount ppm	RL ppm	Tolerance ppm
3-Hydroxycarbofuran	ND	0.010	
Acephate	ND	0.010	
Acetamiprid	ND	0.010	
Acetochlor	ND	0.010	
Acibenzolar-S-methyl	ND	0.010	
Alachlor	ND	0.010	
Alanycarb	ND	0.010	
Aldicarb	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	ND	0.010	
Azinphos-methyl	ND	0.010	
Azoxystrobin	ND	0.010	
BAP(6-benzylaminopurine)	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	ND	0.010	
Bupirimate	ND	0.010	
Buprofezin	ND	0.010	
Butachlor	ND	0.010	
Butafenacil	ND	0.010	
Butocarboxim	ND	0.010	
Butoxycarboxim	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	
Chlorimuron-ethyl	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	
Crotoxyphos	ND	0.010	
Cumyluron	ND	0.010	



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PO No: 404502001

Client Sample ID: S-2

EMA Sample No: 23022817-02

Date Received: 2/28/2023

Sample Matrix: Soil

Analytical Method: LC/MS/MS Cy-Fe

Extraction Method: FDA 302

Date Extracted: 3/3/2023

Date Completed: 3/6/2023

Comments:

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Analyte

Analyte	Amount ppm	RL ppm	Tolerance ppm
Cyanazine	ND	0.010	
Cyazofamid	ND	0.010	
Cycloxydim	ND	0.010	
Cyflufenamid	ND	0.010	
Cyhexatin	ND	0.010	
Cymoxanil	ND	0.010	
Cyproconazole	ND	0.010	
Cyprodinil	ND	0.010	
Cyromazine	ND	0.010	
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	
Dinotefuran	ND	0.010	
Dioxacarb	ND	0.010	
Diuron	ND	0.010	
DMST	ND	0.010	
Dodine	ND	0.010	
Doramectin	ND	0.010	
Emamectin	ND	0.010	
EPN	ND	0.010	
Epoxiconazole	ND	0.010	
Eprinomectin	ND	0.010	
Esprocarb	ND	0.010	
Etaconazole	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	
Famphur	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	
Fensulfothion	ND	0.010	
Fenuron	ND	0.010	



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PO No: 404502001

Client Sample ID: S-2

EMA Sample No: 23022817-02

Date Received: 2/28/2023

Sample Matrix: Soil

Analytical Method: LC/MS/MS FI-Mep

Extraction Method: FDA 302

Date Extracted: 3/3/2023

Date Completed: 3/6/2023

Comments:

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Analyte	Amount ppm	RL ppm	Tolerance ppm
Flonicamid	ND	0.010	
Fluazifop-butyl	ND	0.010	
Flubendiamide	ND	0.010	
Fludioxonil	ND	0.010	
Flufenacet	ND	0.010	
Flufenoxuron	ND	0.010	
Fluometuron	ND	0.010	
Fluopicolide	ND	0.010	
Fluopyram	ND	0.010	
Fluoxastrobin	ND	0.010	
Flupyradifurone	ND	0.010	
Fluquinconazole	ND	0.010	
Fluridone	ND	0.010	
Flusilazole	ND	0.010	
Flutolanil	ND	0.010	
Flutriafof	ND	0.010	
Fluxapyroxad	ND	0.010	
Fomesafen	ND	0.010	
Forchlorfenuron	ND	0.010	
Formetanate	ND	0.010	
Fuberidazole	ND	0.010	
Furalaxyl	ND	0.010	
Halofenozide	ND	0.010	
Hexaconazole	ND	0.010	
Hexaflumuron	ND	0.010	
Hexazinone	ND	0.010	
Hexythiazox	ND	0.010	
Hydramethylnon	ND	0.010	
Imazalil	ND	0.010	
Imibenconazole	ND	0.010	
Imidacloprid	ND	0.010	
Indaziflam	ND	0.010	
Indoxacarb	ND	0.010	
Ipconazole	ND	0.010	
Iprovalicarb	ND	0.010	
Isocarbamid	ND	0.010	
Isufenphos	ND	0.010	
Isoprocarb	ND	0.010	
Isoprothiolane	ND	0.010	
Isoproturon	ND	0.010	
Ivermectin	ND	0.010	
Karbutylate	ND	0.010	
Kresoxim-methyl	ND	0.010	
Lactofen	ND	0.010	
Linuron	ND	0.010	
Lufenuron	ND	0.010	
Malathion	ND	0.010	
Mandipropamid	ND	0.010	
Mefenacet	ND	0.010	
Mepanipyrim	ND	0.010	
Mepronil	ND	0.010	



The Leader in Pesticide Residue Analysis...

ANALYTICAL REPORT



IEH
Laboratories &
Consulting Group

March 9, 2023

Client: Luke Swickard
Ninyo & Moore
1401 Halyard Dr. Suite 110
West Sacramento, CA 95691
Phone: (530) 219-3575
Fax: (602) 243-2699
Email: lswickard@ninyoandmoore.com

Project No: Oceano Dunes SVRA Rice Straw and
PO No: 404502001

Client Sample ID: S-2

EMA Sample No: 23022817-02

Date Received: 2/28/2023

Sample Matrix: Soil

Analytical Method: LC/MS/MS Met-Pr

Extraction Method: FDA 302

Date Extracted: 3/3/2023

Date Completed: 3/6/2023

Comments:

If the amount column displays: OC - See OC Screen, Pyr - See Pyrethroid Screen, ON - See ON Screen, OP - See OP Screen, CB - See CB screen, GC/MS - See GC/MS/MS Screen, LC/MS - See LC/MS/MS Screen
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Analyte	Amount ppm	RL ppm	Tolerance ppm
Metaflumizone	ND	0.010	
Metalaxyl & Mefenoxam	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	
Methoprotiryne	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	
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	
Nuarimol	ND	0.010	
Omethoate	ND	0.010	
Oxadixyl	ND	0.010	
Oxamyl	ND	0.010	
Paclobutrazol	ND	0.010	
Penconazole	ND	0.010	
Pencycuron	ND	0.010	
Pendimethalin	ND	0.010	
Penthiopyrad	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	
Profenofos	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	
Proquinazid	ND	0.010	



The Leader in Pesticide Residue Analysis...

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Project No: Oceano Dunes SVRA Rice Straw and

PO No: 404502001

Client Sample ID: S-2

EMA Sample No: 23022817-02

Date Received: 2/28/2023

Sample Matrix: Soil

Analytical Method: LC/MS/MS Py-Z

Extraction Method: FDA 302

Date Extracted: 3/3/2023

Date Completed: 3/6/2023

Comments:

Analyte	Amount ppm	RL ppm	Tolerance ppm
Pymetrozine	ND	0.010	
Pyracarbolid	ND	0.010	
Pyraclostrobin	ND	0.010	
Pyraflufen-ethyl	ND	0.010	
Pyrethrins	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	
Sedaxane	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	
Spinosyn	ND	0.010	
Spirodiclofen	ND	0.010	
Spiromesifin	ND	0.010	
Spirotetramat	ND	0.010	
Spiroxamine	ND	0.010	
Sulfoxaflor	ND	0.010	
Tebuconazole	ND	0.010	
Tebufenpyrad	ND	0.010	
Tebupirimfos	ND	0.010	
Tebuthiuron	ND	0.010	
Temephos	ND	0.010	
Tepraloxydim	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 (as Carbendazim)	ND	0.010	
Triadimefon	ND	0.010	
Triadimenol	ND	0.010	
Triazophos	ND	0.010	
Tricyclazole	ND	0.010	
Tridemorph	ND	0.010	
Trifloxystrobin	ND	0.010	
Triflumizole	ND	0.010	
Triflumuron	ND	0.010	
Triticonazole	ND	0.010	
Uniconazole	ND	0.010	
Vamidothion	ND	0.010	
Zoxamide	ND	0.010	

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March 9, 2023

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Project No: Oceano Dunes SVRA Rice Straw and
PO No: 404502001

Client Sample ID: S-3

EMA Sample No: 23022817-03

Date Received: 2/28/2023

Sample Matrix: Soil

Analytical Method: OC Screen

Extraction Method: CDFA

Date Extracted: 3/3/2023

Date Completed: 3/6/2023

Comments:

If the amount column displays: OC - See OC Screen, Pyr - See Pyrethroid Screen, ON - See ON Screen, OP - See OP Screen, CB - See CB screen, GC/MS - See GC/MS/MS Screen, LC/MS - See LC/MS/MS Screen
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Analyte	Amount ppm	RL ppm	Tolerance 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	
Chloroneb	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	
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	

Date: 03/09/23

Reviewed by:  Robert Hughes, Lab Manager

Page: 15 of 35



The Leader in Pesticide Residue Analysis...

ANALYTICAL REPORT



IEH
Laboratories &
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March 9, 2023

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West Sacramento, CA 95691
Phone: (530) 219-3575
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Email: lswickard@ninyoandmoore.com

Analyte

Bifenthrin
Cyfluthrin
Cypermethrin
Deltamethrin
Esfenvalerate
Fenpropathrin
Fluvalinate
lambda Cyhalothrin
Permethrin
Tralomethrin
Pyrethrins (Total)

Amount ppm	RL ppm	Tolerance ppm
ND	0.020	
ND	0.040	
ND	0.040	
ND	0.020	
ND	0.030	
ND	0.010	
ND	0.040	
ND	0.020	
ND	0.100	
ND	0.020	
ND	0.050	

Project No: Oceano Dunes SVRA Rice Straw and

PO No: 404502001

Client Sample ID: S-3

EMA Sample No: 23022817-03

Date Received: 2/28/2023

Sample Matrix: Soil

Analytical Method: Pyrethroid Screen

Extraction Method: CDFA

Date Extracted: 3/3/2023

Date Completed: 3/6/2023

Comments:

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Date: 03/09/23 Reviewed by:  Robert Hughes, Lab Manager



The Leader in Pesticide Residue Analysis...

ANALYTICAL REPORT



IEH
Laboratories &
Consulting Group

March 9, 2023

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Project No: Oceano Dunes SVRA Rice Straw and
PO No: 404502001

Client Sample ID: S-3

EMA Sample No: 23022817-03

Date Received: 2/28/2023

Sample Matrix: Soil

Analytical Method: LC/MS/MS A-Cu

Extraction Method: FDA 302

Date Extracted: 3/3/2023

Date Completed: 3/6/2023

Comments:

If the amount column displays: OC - See OC Screen, Pyr - See Pyrethroid Screen, ON - See ON Screen, OP - See OP Screen, CB - See CB screen, GC/MS - See GC/MS/MS Screen, LC/MS - See LC/MS/MS Screen
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Analyte	Amount ppm	RL ppm	Tolerance ppm
3-Hydroxycarbofuran	ND	0.010	
Acephate	ND	0.010	
Acetamiprid	ND	0.010	
Acetochlor	ND	0.010	
Acibenzolar-S-methyl	ND	0.010	
Alachlor	ND	0.010	
Alanycarb	ND	0.010	
Aldicarb	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	ND	0.010	
Azinphos-methyl	ND	0.010	
Azoxystrobin	ND	0.010	
BAP(6-benzylaminopurine)	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	ND	0.010	
Bupirimate	ND	0.010	
Buprofezin	ND	0.010	
Butachlor	ND	0.010	
Butafenacil	ND	0.010	
Butocarboxim	ND	0.010	
Butoxycarboxim	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	
Chlorimuron-ethyl	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	
Crotoxyphos	ND	0.010	
Cumyluron	ND	0.010	



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March 9, 2023

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Project No: Oceano Dunes SVRA Rice Straw and
PO No: 404502001

Client Sample ID: S-3

EMA Sample No: 23022817-03

Date Received: 2/28/2023

Sample Matrix: Soil

Analytical Method: LC/MS/MS Cy-Fe

Extraction Method: FDA 302

Date Extracted: 3/3/2023

Date Completed: 3/6/2023

Comments:

If the amount column displays: OC - See OC Screen, Pyr - See Pyrethroid Screen, ON - See ON Screen, OP - See OP Screen, CB - See CB screen, GC/MS - See GC/MS/MS Screen, LC/MS - See LC/MS/MS Screen
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Analyte	Amount ppm	RL ppm	Tolerance ppm
Cyanazine	ND	0.010	
Cyazofamid	ND	0.010	
Cycloxydim	ND	0.010	
Cyflufenamid	ND	0.010	
Cyhexatin	ND	0.010	
Cymoxanil	ND	0.010	
Cyproconazole	ND	0.010	
Cyprodinil	ND	0.010	
Cyromazine	ND	0.010	
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	
Dinotefuran	ND	0.010	
Dioxacarb	ND	0.010	
Diuron	ND	0.010	
DMST	ND	0.010	
Dodine	ND	0.010	
Doramectin	ND	0.010	
Emamectin	ND	0.010	
EPN	ND	0.010	
Epoxiconazole	ND	0.010	
Eprinomectin	ND	0.010	
Esprocarb	ND	0.010	
Etaconazole	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	
Famphur	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	
Fensulfothion	ND	0.010	
Fenuron	ND	0.010	



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PO No: 404502001

Client Sample ID: S-3

EMA Sample No: 23022817-03

Date Received: 2/28/2023

Sample Matrix: Soil

Analytical Method: LC/MS/MS FI-Mep

Extraction Method: FDA 302

Date Extracted: 3/3/2023

Date Completed: 3/6/2023

Comments:

Analyte	Amount ppm	RL ppm	Tolerance ppm
Flonicamid	ND	0.010	
Fluazifop-butyl	ND	0.010	
Flubendiamide	ND	0.010	
Fludioxonil	ND	0.010	
Flufenacet	ND	0.010	
Flufenoxuron	ND	0.010	
Fluometuron	ND	0.010	
Fluopicolide	ND	0.010	
Fluopyram	ND	0.010	
Fluoxastrobin	ND	0.010	
Flupyradifurone	ND	0.010	
Fluquinconazole	ND	0.010	
Fluridone	ND	0.010	
Flusilazole	ND	0.010	
Flutolanil	ND	0.010	
Flutriafof	ND	0.010	
Fluxapyroxad	ND	0.010	
Fomesafen	ND	0.010	
Forchlorfenuron	ND	0.010	
Formetanate	ND	0.010	
Fuberidazole	ND	0.010	
Furalaxyl	ND	0.010	
Halofenozide	ND	0.010	
Hexaconazole	ND	0.010	
Hexaflumuron	ND	0.010	
Hexazinone	ND	0.010	
Hexythiazox	ND	0.010	
Hydramethylnon	ND	0.010	
Imazalil	ND	0.010	
Imibenconazole	ND	0.010	
Imidacloprid	ND	0.010	
Indaziflam	ND	0.010	
Indoxacarb	ND	0.010	
Ipconazole	ND	0.010	
Iprovalicarb	ND	0.010	
Isocarbamid	ND	0.010	
Isufenphos	ND	0.010	
Isoprocarb	ND	0.010	
Isoprothiolane	ND	0.010	
Isoproturon	ND	0.010	
Ivermectin	ND	0.010	
Karbutylate	ND	0.010	
Kresoxim-methyl	ND	0.010	
Lactofen	ND	0.010	
Linuron	ND	0.010	
Lufenuron	ND	0.010	
Malathion	ND	0.010	
Mandipropamid	ND	0.010	
Mefenacet	ND	0.010	
Mepanipyrim	ND	0.010	
Mepronil	ND	0.010	

If the amount column displays: OC - See OC Screen, Pyr - See Pyrethroid Screen, ON - See ON Screen, OP - See OP Screen, CB - See CB screen, GC/MS - See GC/MS/MS Screen, LC/MS - See LC/MS/MS Screen
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The Leader in Pesticide Residue Analysis...

ANALYTICAL REPORT



IEH
Laboratories &
Consulting Group

March 9, 2023

Client: Luke Swickard
Ninyo & Moore
1401 Halyard Dr. Suite 110
West Sacramento, CA 95691
Phone: (530) 219-3575
Fax: (602) 243-2699
Email: lswickard@ninyoandmoore.com

Project No: Oceano Dunes SVRA Rice Straw and
PO No: 404502001

Client Sample ID: S-3

EMA Sample No: 23022817-03

Date Received: 2/28/2023

Sample Matrix: Soil

Analytical Method: LC/MS/MS Met-Pr

Extraction Method: FDA 302

Date Extracted: 3/3/2023

Date Completed: 3/6/2023

Comments:

Analyte	Amount ppm	RL ppm	Tolerance ppm
Metaflumizone	ND	0.010	
Metalaxyl & Mefenoxam	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	
Methoprotiryne	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	
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	
Nuarimol	ND	0.010	
Omethoate	ND	0.010	
Oxadixyl	ND	0.010	
Oxamyl	ND	0.010	
Paclobutrazol	ND	0.010	
Penconazole	ND	0.010	
Pencycuron	ND	0.010	
Pendimethalin	ND	0.010	
Penthiopyrad	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	
Profenofos	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	
Proquinazid	ND	0.010	

If the amount column displays: OC - See OC Screen, Pyr - See Pyrethroid Screen, ON - See ON Screen, OP - See OP Screen, CB - See CB screen, GC/MS - See GC/MS/MS Screen, LC/MS - See LC/MS/MS Screen
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Project No: Oceano Dunes SVRA Rice Straw and

PO No: 404502001

Client Sample ID: S-3

EMA Sample No: 23022817-03

Date Received: 2/28/2023

Sample Matrix: Soil

Analytical Method: LC/MS/MS Py-Z

Extraction Method: FDA 302

Date Extracted: 3/3/2023

Date Completed: 3/6/2023

Comments:

Analyte	Amount ppm	RL ppm	Tolerance ppm
Pymetrozine	ND	0.010	
Pyracarbolid	ND	0.010	
Pyraclostrobin	ND	0.010	
Pyraflufen-ethyl	ND	0.010	
Pyrethrins	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	
Sedaxane	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	
Spinosyn	ND	0.010	
Spirodiclofen	ND	0.010	
Spiromesifin	ND	0.010	
Spirotetramat	ND	0.010	
Spiroxamine	ND	0.010	
Sulfoxaflor	ND	0.010	
Tebuconazole	ND	0.010	
Tebufenozide	ND	0.010	
Tebufenpyrad	ND	0.010	
Tebupirimfos	ND	0.010	
Tebuthiuron	ND	0.010	
Temephos	ND	0.010	
Tepraloxydim	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 (as Carbendazim)	ND	0.010	
Triadimefon	ND	0.010	
Triadimenol	ND	0.010	
Triazophos	ND	0.010	
Tricyclazole	ND	0.010	
Tridemorph	ND	0.010	
Trifloxystrobin	ND	0.010	
Triflumizole	ND	0.010	
Triflumuron	ND	0.010	
Triticonazole	ND	0.010	
Uniconazole	ND	0.010	
Vamidothion	ND	0.010	
Zoxamide	ND	0.010	

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Project No: Oceano Dunes SVRA Rice Straw and

PO No: 404502001

Client Sample ID: S-4

EMA Sample No: 23022817-04

Date Received: 2/28/2023

Sample Matrix: Soil

Analytical Method: OC Screen

Extraction Method: CDFA

Date Extracted: 3/3/2023

Date Completed: 3/6/2023

Comments:

If the amount column displays: OC - See OC Screen, Pyr - See Pyrethroid Screen, ON - See ON Screen, OP - See OP Screen, CB - See CB screen, GC/MS - See GC/MS/MS Screen, LC/MS - See LC/MS/MS Screen
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Analyte	Amount ppm	RL ppm	Tolerance 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	
Chloroneb	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	
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	

Date: 03/09/23

Reviewed by:

Robert Hughes, Lab Manager

Page: 22 of 35



The Leader in Pesticide Residue Analysis...

ANALYTICAL REPORT



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March 9, 2023

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Analyte

Bifenthrin
Cyfluthrin
Cypermethrin
Deltamethrin
Esfenvalerate
Fenpropathrin
Fluvalinate
lambda Cyhalothrin
Permethrin
Tralomethrin
Pyrethrins (Total)

Amount ppm	RL ppm	Tolerance ppm
ND	0.020	
ND	0.040	
ND	0.040	
ND	0.020	
ND	0.030	
ND	0.010	
ND	0.040	
ND	0.020	
ND	0.100	
ND	0.020	
ND	0.050	

Project No: Oceano Dunes SVRA Rice Straw and

PO No: 404502001

Client Sample ID: S-4

EMA Sample No: 23022817-04

Date Received: 2/28/2023

Sample Matrix: Soil

Analytical Method: Pyrethroid Screen

Extraction Method: CDFA

Date Extracted: 3/3/2023

Date Completed: 3/6/2023

Comments:

If the amount column displays: OC - See OC Screen, Pyr - See Pyrethroid Screen, ON - See ON Screen, OP - See OP Screen, CB - See CB screen, GC/MS - See GC/MS/MS Screen, LC/MS - See LC/MS/MS Screen
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Date: 03/09/23 Reviewed by:  Robert Hughes, Lab Manager

Page: 23 of 35



The Leader in Pesticide Residue Analysis...

ANALYTICAL REPORT



IEH
Laboratories &
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March 9, 2023

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Email: lswickard@ninyoandmoore.com

Project No: Oceano Dunes SVRA Rice Straw and

PO No: 404502001

Client Sample ID: S-4

EMA Sample No: 23022817-04

Date Received: 2/28/2023

Sample Matrix: Soil

Analytical Method: LC/MS/MS A-Cu

Extraction Method: FDA 302

Date Extracted: 3/3/2023

Date Completed: 3/6/2023

Comments:

If the amount column displays: OC - See OC Screen, Pyr - See Pyrethroid Screen, ON - See ON Screen, OP - See OP Screen, CB - See CB screen, GC/MS - See GC/MS/MS Screen, LC/MS - See LC/MS/MS Screen
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Analyte	Amount ppm	RL ppm	Tolerance ppm
3-Hydroxycarbofuran	ND	0.010	
Acephate	ND	0.010	
Acetamiprid	ND	0.010	
Acetochlor	ND	0.010	
Acibenzolar-S-methyl	ND	0.010	
Alachlor	ND	0.010	
Alanycarb	ND	0.010	
Aldicarb	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	ND	0.010	
Azinphos-methyl	ND	0.010	
Azoxystrobin	ND	0.010	
BAP(6-benzylaminopurine)	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	ND	0.010	
Bupirimate	ND	0.010	
Buprofezin	ND	0.010	
Butachlor	ND	0.010	
Butafenacil	ND	0.010	
Butocarboxim	ND	0.010	
Butoxycarboxim	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	
Chlorimuron-ethyl	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	
Crotoxyphos	ND	0.010	
Cumyluron	ND	0.010	



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Project No: Oceano Dunes SVRA Rice Straw and

PO No: 404502001

Client Sample ID: S-4

EMA Sample No: 23022817-04

Date Received: 2/28/2023

Sample Matrix: Soil

Analytical Method: LC/MS/MS Cy-Fe

Extraction Method: FDA 302

Date Extracted: 3/3/2023

Date Completed: 3/6/2023

Comments:

If the amount column displays: OC - See OC Screen, Pyr - See Pyrethroid Screen, ON - See ON Screen, OP - See OP Screen, CB - See CB screen, GC/MS - See GC/MS/MS Screen, LC/MS - See LC/MS/MS Screen
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Analyte	Amount ppm	RL ppm	Tolerance ppm
Cyanazine	ND	0.010	
Cyazofamid	ND	0.010	
Cycloxydim	ND	0.010	
Cyflufenamid	ND	0.010	
Cyhexatin	ND	0.010	
Cymoxanil	ND	0.010	
Cyproconazole	ND	0.010	
Cyprodinil	ND	0.010	
Cyromazine	ND	0.010	
Daimuron	ND	0.010	
Diafenthuron	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	
Dinotefuran	ND	0.010	
Dioxacarb	ND	0.010	
Diuron	ND	0.010	
DMST	ND	0.010	
Dodine	ND	0.010	
Doramectin	ND	0.010	
Emamectin	ND	0.010	
EPN	ND	0.010	
Epoxiconazole	ND	0.010	
Eprinomectin	ND	0.010	
Esprocarb	ND	0.010	
Etaconazole	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	
Famphur	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	
Fensulfothion	ND	0.010	
Fenuron	ND	0.010	



The Leader in Pesticide Residue Analysis...

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Project No: Oceano Dunes SVRA Rice Straw and
PO No: 404502001

Client Sample ID: S-4

EMA Sample No: 23022817-04

Date Received: 2/28/2023

Sample Matrix: Soil

Analytical Method: LC/MS/MS FI-Mep

Extraction Method: FDA 302

Date Extracted: 3/3/2023

Date Completed: 3/6/2023

Comments:

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Analyte	Amount ppm	RL ppm	Tolerance ppm
Flonicamid	ND	0.010	
Fluazifop-butyl	ND	0.010	
Flubendiamide	ND	0.010	
Fludioxonil	ND	0.010	
Flufenacet	ND	0.010	
Flufenoxuron	ND	0.010	
Fluometuron	ND	0.010	
Fluopicolide	ND	0.010	
Fluopyram	ND	0.010	
Fluoxastrobin	ND	0.010	
Flupyradifurone	ND	0.010	
Fluquinconazole	ND	0.010	
Fluridone	ND	0.010	
Flusilazole	ND	0.010	
Flutolanil	ND	0.010	
Flutriafof	ND	0.010	
Fluxapyroxad	ND	0.010	
Fomesafen	ND	0.010	
Forchlorfenuron	ND	0.010	
Formetanate	ND	0.010	
Fuberidazole	ND	0.010	
Furalaxyl	ND	0.010	
Halofenozide	ND	0.010	
Hexaconazole	ND	0.010	
Hexaflumuron	ND	0.010	
Hexazinone	ND	0.010	
Hexythiazox	ND	0.010	
Hydramethylnon	ND	0.010	
Imazalil	ND	0.010	
Imibenconazole	ND	0.010	
Imidacloprid	ND	0.010	
Indaziflam	ND	0.010	
Indoxacarb	ND	0.010	
Ipconazole	ND	0.010	
Iprovalicarb	ND	0.010	
Isocarbamid	ND	0.010	
Isafenphos	ND	0.010	
Isoprocarb	ND	0.010	
Isoprothiolane	ND	0.010	
Isoproturon	ND	0.010	
Ivermectin	ND	0.010	
Karbutylate	ND	0.010	
Kresoxim-methyl	ND	0.010	
Lactofen	ND	0.010	
Linuron	ND	0.010	
Lufenuron	ND	0.010	
Malathion	ND	0.010	
Mandipropamid	ND	0.010	
Mefenacet	ND	0.010	
Mepanipyrim	ND	0.010	
Mepronil	ND	0.010	



The Leader in Pesticide Residue Analysis...

ANALYTICAL REPORT



IEH
Laboratories &
Consulting Group

March 9, 2023

Client: Luke Swickard
Ninyo & Moore
1401 Halyard Dr. Suite 110
West Sacramento, CA 95691
Phone: (530) 219-3575
Fax: (602) 243-2699
Email: lswickard@ninyoandmoore.com

Project No: Oceano Dunes SVRA Rice Straw and
PO No: 404502001

Client Sample ID: S-4

EMA Sample No: 23022817-04

Date Received: 2/28/2023

Sample Matrix: Soil

Analytical Method: LC/MS/MS Met-Pr

Extraction Method: FDA 302

Date Extracted: 3/3/2023

Date Completed: 3/6/2023

Comments:

If the amount column displays: OC - See OC Screen, Pyr - See Pyrethroid Screen, ON - See ON Screen, OP - See OP Screen, CB - See CB screen, GC/MS - See GC/MS/MS Screen, LC/MS - See LC/MS/MS Screen
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Analyte	Amount ppm	RL ppm	Tolerance ppm
Metaflumizone	ND	0.010	
Metalaxyl & Mefenoxam	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	
Methoprotetryne	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	
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	
Nuarimol	ND	0.010	
Omethoate	ND	0.010	
Oxadixyl	ND	0.010	
Oxamyl	ND	0.010	
Paclobutrazol	ND	0.010	
Penconazole	ND	0.010	
Pencycuron	ND	0.010	
Pendimethalin	ND	0.010	
Penthiopyrad	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	
Profenofos	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	
Proquinazid	ND	0.010	



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Project No: Oceano Dunes SVRA Rice Straw and
PO No: 404502001

Client Sample ID: S-4

EMA Sample No: 23022817-04

Date Received: 2/28/2023

Sample Matrix: Soil

Analytical Method: LC/MS/MS Py-Z

Extraction Method: FDA 302

Date Extracted: 3/3/2023

Date Completed: 3/6/2023

Comments:

If the amount column displays: OC - See OC Screen, Pyr - See Pyrethroid Screen, ON - See ON Screen, OP - See OP Screen, CB - See CB screen, GC/MS - See GC/MS/MS Screen, LC/MS - See LC/MS/MS Screen
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Analyte	Amount ppm	RL ppm	Tolerance ppm
Pymetrozine	ND	0.010	
Pyracarbolid	ND	0.010	
Pyraclostrobin	ND	0.010	
Pyraflufen-ethyl	ND	0.010	
Pyrethrins	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	
Sedaxane	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	
Spinosyn	ND	0.010	
Spirodiclofen	ND	0.010	
Spiromesifin	ND	0.010	
Spirotetramat	ND	0.010	
Spiroxamine	ND	0.010	
Sulfoxaflor	ND	0.010	
Tebuconazole	ND	0.010	
Tebufenpyrad	ND	0.010	
Tebupirimfos	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 (as Carbendazim)	ND	0.010	
Triadimefon	ND	0.010	
Triadimenol	ND	0.010	
Triazophos	ND	0.010	
Tricyclazole	ND	0.010	
Tridemorph	ND	0.010	
Trifloxystrobin	ND	0.010	
Triflumizole	ND	0.010	
Triflumuron	ND	0.010	
Triticonazole	ND	0.010	
Uniconazole	ND	0.010	
Vamidothion	ND	0.010	
Zoxamide	ND	0.010	



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Project No: Oceano Dunes SVRA Rice Straw and

PO No: 404502001

Client Sample ID: S-5

EMA Sample No: 23022817-05

Date Received: 2/28/2023

Sample Matrix: Soil

Analytical Method: OC Screen

Extraction Method: CDFA

Date Extracted: 3/3/2023

Date Completed: 3/6/2023

Comments:

If the amount column displays: OC - See OC Screen, Pyr - See Pyrethroid Screen, ON - See ON Screen, OP - See OP Screen, CB - See CB screen, GC/MS - See GC/MS/MS Screen, LC/MS - See LC/MS/MS Screen
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Analyte	Amount ppm	RL ppm	Tolerance 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	
Chloroneb	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	
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	



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Analyte

Bifenthrin
Cyfluthrin
Cypermethrin
Deltamethrin
Esfenvalerate
Fenpropathrin
Fluvalinate
lambda Cyhalothrin
Permethrin
Tralomethrin
Pyrethrins (Total)

Amount ppm	RL ppm	Tolerance ppm
ND	0.020	
ND	0.040	
ND	0.040	
ND	0.020	
ND	0.030	
ND	0.010	
ND	0.040	
ND	0.020	
ND	0.100	
ND	0.020	
ND	0.050	

Project No: Oceano Dunes SVRA Rice Straw and

PO No: 404502001

Client Sample ID: S-5

EMA Sample No: 23022817-05

Date Received: 2/28/2023

Sample Matrix: Soil

Analytical Method: Pyrethroid Screen

Extraction Method: CDFA

Date Extracted: 3/3/2023

Date Completed: 3/6/2023

Comments:

If the amount column displays: OC - See OC Screen, Pyr - See Pyrethroid Screen, ON - See ON Screen, OP - See OP Screen, CB - See CB screen, GC/MS - See GC/MS/MS Screen, LC/MS - See LC/MS/MS Screen
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Date: 03/09/23 Reviewed by:  Robert Hughes, Lab Manager



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ANALYTICAL REPORT



IEH
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March 9, 2023

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Project No: Oceano Dunes SVRA Rice Straw and
PO No: 404502001

Client Sample ID: S-5

EMA Sample No: 23022817-05

Date Received: 2/28/2023

Sample Matrix: Soil

Analytical Method: LC/MS/MS A-Cu

Extraction Method: FDA 302

Date Extracted: 3/3/2023

Date Completed: 3/6/2023

Comments:

If the amount column displays: OC - See OC Screen, Pyr - See Pyrethroid Screen, ON - See ON Screen, OP - See OP Screen, CB - See CB screen, GC/MS - See GC/MS/MS Screen, LC/MS - See LC/MS/MS Screen
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Analyte	Amount ppm	RL ppm	Tolerance ppm
3-Hydroxycarbofuran	ND	0.010	
Acephate	ND	0.010	
Acetamiprid	ND	0.010	
Acetochlor	ND	0.010	
Acibenzolar-S-methyl	ND	0.010	
Alachlor	ND	0.010	
Alanycarb	ND	0.010	
Aldicarb	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	ND	0.010	
Azinphos-methyl	ND	0.010	
Azoxystrobin	ND	0.010	
BAP(6-benzylaminopurine)	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	ND	0.010	
Bupirimate	ND	0.010	
Buprofezin	ND	0.010	
Butachlor	ND	0.010	
Butafenacil	ND	0.010	
Butocarboxim	ND	0.010	
Butoxycarboxim	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	
Chlorimuron-ethyl	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	
Crotoxyphos	ND	0.010	
Cumyluron	ND	0.010	



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Project No: Oceano Dunes SVRA Rice Straw and
PO No: 404502001

Client Sample ID: S-5

EMA Sample No: 23022817-05

Date Received: 2/28/2023

Sample Matrix: Soil

Analytical Method: LC/MS/MS Cy-Fe

Extraction Method: FDA 302

Date Extracted: 3/3/2023

Date Completed: 3/6/2023

Comments:

If the amount column displays: OC - See OC Screen, Pyr - See Pyrethroid Screen, ON - See ON Screen, OP - See OP Screen, CB - See CB screen, GC/MS - See GC/MS/MS Screen, LC/MS - See LC/MS/MS Screen
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Analyte

Analyte	Amount ppm	RL ppm	Tolerance ppm
Cyanazine	ND	0.010	
Cyazofamid	ND	0.010	
Cycloxydim	ND	0.010	
Cyflufenamid	ND	0.010	
Cyhexatin	ND	0.010	
Cymoxanil	ND	0.010	
Cyproconazole	ND	0.010	
Cyprodinil	ND	0.010	
Cyromazine	ND	0.010	
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	
Dinotefuran	ND	0.010	
Dioxacarb	ND	0.010	
Diuron	ND	0.010	
DMST	ND	0.010	
Dodine	ND	0.010	
Doramectin	ND	0.010	
Emamectin	ND	0.010	
EPN	ND	0.010	
Epoxiconazole	ND	0.010	
Eprinomectin	ND	0.010	
Esprocarb	ND	0.010	
Etaconazole	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	
Famphur	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	
Fensulfothion	ND	0.010	
Fenuron	ND	0.010	



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Project No: Oceano Dunes SVRA Rice Straw and

PO No: 404502001

Client Sample ID: S-5

EMA Sample No: 23022817-05

Date Received: 2/28/2023

Sample Matrix: Soil

Analytical Method: LC/MS/MS FI-Mep

Extraction Method: FDA 302

Date Extracted: 3/3/2023

Date Completed: 3/6/2023

Comments:

Analyte	Amount ppm	RL ppm	Tolerance ppm
Flonicamid	ND	0.010	
Fluazifop-butyl	ND	0.010	
Flubendiamide	ND	0.010	
Fludioxonil	ND	0.010	
Flufenacet	ND	0.010	
Flufenoxuron	ND	0.010	
Fluometuron	ND	0.010	
Fluopicolide	ND	0.010	
Fluopyram	ND	0.010	
Fluoxastrobin	ND	0.010	
Flupyradifurone	ND	0.010	
Fluquinconazole	ND	0.010	
Fluridone	ND	0.010	
Flusilazole	ND	0.010	
Flutolanil	ND	0.010	
Flutriafof	ND	0.010	
Fluxapyroxad	ND	0.010	
Fomesafen	ND	0.010	
Forchlorfenuron	ND	0.010	
Formetanate	ND	0.010	
Fuberidazole	ND	0.010	
Furalaxyl	ND	0.010	
Halofenozide	ND	0.010	
Hexaconazole	ND	0.010	
Hexaflumuron	ND	0.010	
Hexazinone	ND	0.010	
Hexythiazox	ND	0.010	
Hydramethylnon	ND	0.010	
Imazalil	ND	0.010	
Imibenconazole	ND	0.010	
Imidacloprid	ND	0.010	
Indaziflam	ND	0.010	
Indoxacarb	ND	0.010	
Ipconazole	ND	0.010	
Iprovalicarb	ND	0.010	
Isocarbamid	ND	0.010	
Isufenphos	ND	0.010	
Isoprocarb	ND	0.010	
Isoprothiolane	ND	0.010	
Isoproturon	ND	0.010	
Ivermectin	ND	0.010	
Karbutylate	ND	0.010	
Kresoxim-methyl	ND	0.010	
Lactofen	ND	0.010	
Linuron	ND	0.010	
Lufenuron	ND	0.010	
Malathion	ND	0.010	
Mandipropamid	ND	0.010	
Mefenacet	ND	0.010	
Mepanipyrim	ND	0.010	
Mepronil	ND	0.010	

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West Sacramento, CA 95691
Phone: (530) 219-3575
Fax: (602) 243-2699
Email: lswickard@ninyoandmoore.com

Project No: Oceano Dunes SVRA Rice Straw and
PO No: 404502001

Client Sample ID: S-5

EMA Sample No: 23022817-05

Date Received: 2/28/2023

Sample Matrix: Soil

Analytical Method: LC/MS/MS Met-Pr

Extraction Method: FDA 302

Date Extracted: 3/3/2023

Date Completed: 3/6/2023

Comments:

If the amount column displays: OC - See OC Screen, Pyr - See Pyrethroid Screen, ON - See ON Screen, OP - See OP Screen, CB - See CB screen, GC/MS - See GC/MS/MS Screen, LC/MS - See LC/MS/MS Screen
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Analyte	Amount ppm	RL ppm	Tolerance ppm
Metaflumizone	ND	0.010	
Metalaxyl & Mefenoxam	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	
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	
Nuarimol	ND	0.010	
Omethoate	ND	0.010	
Oxadixyl	ND	0.010	
Oxamyl	ND	0.010	
Paclobutrazol	ND	0.010	
Penconazole	ND	0.010	
Pencycuron	ND	0.010	
Pendimethalin	ND	0.010	
Penthiopyrad	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	
Profenofos	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	
Proquinazid	ND	0.010	



The Leader in Pesticide Residue Analysis...

ANALYTICAL REPORT



IEH
Laboratories &
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March 9, 2023

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Project No: Oceano Dunes SVRA Rice Straw and

PO No: 404502001

Client Sample ID: S-5

EMA Sample No: 23022817-05

Date Received: 2/28/2023

Sample Matrix: Soil

Analytical Method: LC/MS/MS Py-Z

Extraction Method: FDA 302

Date Extracted: 3/3/2023

Date Completed: 3/6/2023

Comments:

Analyte	Amount ppm	RL ppm	Tolerance ppm
Pymetrozine	ND	0.010	
Pyracarbolid	ND	0.010	
Pyraclostrobin	ND	0.010	
Pyraflufen-ethyl	ND	0.010	
Pyrethrins	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	
Sedaxane	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	
Spinosyn	ND	0.010	
Spirodiclofen	ND	0.010	
Spiromesifin	ND	0.010	
Spirotetramat	ND	0.010	
Spiroxamine	ND	0.010	
Sulfoxaflor	ND	0.010	
Tebuconazole	ND	0.010	
Tebufenozide	ND	0.010	
Tebufenpyrad	ND	0.010	
Tebupirimfos	ND	0.010	
Tebuthiuron	ND	0.010	
Temephos	ND	0.010	
Tepraloxydim	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 (as Carbendazim)	ND	0.010	
Triadimefon	ND	0.010	
Triadimenol	ND	0.010	
Triazophos	ND	0.010	
Tricyclazole	ND	0.010	
Tridemorph	ND	0.010	
Trifloxystrobin	ND	0.010	
Triflumizole	ND	0.010	
Triflumuron	ND	0.010	
Triticonazole	ND	0.010	
Uniconazole	ND	0.010	
Vamidothion	ND	0.010	
Zoxamide	ND	0.010	

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Project No: Oceano Dunes SVRA Rice Straw and

PO No: 404502001

Client Sample ID: S-1-NS

EMA Sample No: 23022820-01

Date Received: 2/28/2023

Sample Matrix: Rice Straw

Analytical Method: OC Screen

Extraction Method: CDFA

Date Extracted: 3/2/2023

Date Completed: 3/6/2023

Comments:

If the amount column displays: OC - See OC Screen, Pyr - See Pyrethroid Screen, ON - See ON Screen, OP - See OP Screen, CB - See CB screen, GC/MS - See GC/MS/MS Screen, LC/MS - See LC/MS/MS Screen
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Analyte	Amount ppm	RL ppm	Tolerance 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	
Chloroneb	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	
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	

Date: 03/09/23

Reviewed by:  Robert Hughes, Lab Manager

Page: 1 of 35



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Analyte

Bifenthrin
Cyfluthrin
Cypermethrin
Deltamethrin
Esfenvalerate
Fenpropathrin
Fluvalinate
lambda Cyhalothrin
Permethrin
Tralomethrin
Pyrethrins (Total)

Amount ppm	RL ppm	Tolerance ppm
ND	0.020	
ND	0.040	
ND	0.040	
ND	0.020	
ND	0.030	
ND	0.010	
ND	0.040	
ND	0.020	
ND	0.100	
ND	0.020	
ND	0.050	

Project No: Oceano Dunes SVRA Rice Straw and

PO No: 404502001

Client Sample ID: S-1-NS

EMA Sample No: 23022820-01

Date Received: 2/28/2023

Sample Matrix: Rice Straw

Analytical Method: Pyrethroid Screen

Extraction Method: CDFA

Date Extracted: 3/2/2023

Date Completed: 3/6/2023

Comments:

If the amount column displays: OC - See OC Screen, Pyr - See Pyrethroid Screen, ON - See ON Screen, OP - See OP Screen, CB - See CB screen, GC/MS - See GC/MS/MS Screen, LC/MS - See LC/MS/MS Screen
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Project No: Oceano Dunes SVRA Rice Straw and

PO No: 404502001

Client Sample ID: S-1-NS

EMA Sample No: 23022820-01

Date Received: 2/28/2023

Sample Matrix: Rice Straw

Analytical Method: LC/MS/MS A-Cu

Extraction Method: FDA 302

Date Extracted: 3/2/2023

Date Completed: 3/6/2023

Comments:

*Tolerance on rice, grain.

Analyte	Amount ppm	RL ppm	Tolerance ppm
3-Hydroxycarbofuran	ND	0.010	
Acephate	ND	0.010	
Acetamiprid	ND	0.010	
Acetochlor	ND	0.010	
Acibenzolar-S-methyl	ND	0.010	
Alachlor	ND	0.010	
Alanycarb	ND	0.010	
Aldicarb	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	ND	0.010	
Azinphos-methyl	ND	0.010	
Azoxystrobin	0.09	0.010	5.0*
BAP(6-benzylaminopurine)	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	ND	0.010	
Bupirimate	ND	0.010	
Buprofezin	ND	0.010	
Butachlor	ND	0.010	
Butafenacil	ND	0.010	
Butocarboxim	ND	0.010	
Butoxycarboxim	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	
Chlorimuron-ethyl	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	
Crotoxyphos	ND	0.010	
Cumyluron	ND	0.010	

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Page: 3 of 35



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Project No: Oceano Dunes SVRA Rice Straw and

PO No: 404502001

Client Sample ID: S-1-NS

EMA Sample No: 23022820-01

Date Received: 2/28/2023

Sample Matrix: Rice Straw

Analytical Method: LC/MS/MS Cy-Fe

Extraction Method: FDA 302

Date Extracted: 3/2/2023

Date Completed: 3/6/2023

Comments:

If the amount column displays: OC - See OC Screen, Pyr - See Pyrethroid Screen, ON - See ON Screen, OP - See OP Screen, CB - See CB screen, GC/MS - See GC/MS/MS Screen, LC/MS - See LC/MS/MS Screen
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Analyte

Analyte	Amount ppm	RL ppm	Tolerance ppm
Cyanazine	ND	0.010	
Cyazofamid	ND	0.010	
Cycloxydim	ND	0.010	
Cyflufenamid	ND	0.010	
Cyhexatin	ND	0.010	
Cymoxanil	ND	0.010	
Cyproconazole	ND	0.010	
Cyprodinil	ND	0.010	
Cyromazine	ND	0.010	
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	
Dinotefuran	ND	0.010	
Dioxacarb	ND	0.010	
Diuron	ND	0.010	
DMST	ND	0.010	
Dodine	ND	0.010	
Doramectin	ND	0.010	
Emamectin	ND	0.010	
EPN	ND	0.010	
Epoxiconazole	ND	0.010	
Eprinomectin	ND	0.010	
Esprocarb	ND	0.010	
Etaconazole	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	
Famphur	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	
Fensulfothion	ND	0.010	
Fenuron	ND	0.010	

Date: 03/09/23 Reviewed by:  Robert Hughes, Lab Manager

Page: 4 of 35



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PO No: 404502001

Client Sample ID: S-1-NS

EMA Sample No: 23022820-01

Date Received: 2/28/2023

Sample Matrix: Rice Straw

Analytical Method: LC/MS/MS FI-Mep

Extraction Method: FDA 302

Date Extracted: 3/2/2023

Date Completed: 3/6/2023

Comments:

Analyte	Amount ppm	RL ppm	Tolerance ppm
Flonicamid	ND	0.010	
Fluazifop-butyl	ND	0.010	
Flubendiamide	ND	0.010	
Fludioxonil	ND	0.010	
Flufenacet	ND	0.010	
Flufenoxuron	ND	0.010	
Fluometuron	ND	0.010	
Fluopicolide	ND	0.010	
Fluopyram	ND	0.010	
Fluoxastrobin	ND	0.010	
Flupyradifurone	ND	0.010	
Fluquinconazole	ND	0.010	
Fluridone	ND	0.010	
Flusilazole	ND	0.010	
Flutolanil	ND	0.010	
Flutriafof	ND	0.010	
Fluxapyroxad	ND	0.010	
Fomesafen	ND	0.010	
Forchlorfenuron	ND	0.010	
Formetanate	ND	0.010	
Fuberidazole	ND	0.010	
Furalaxyl	ND	0.010	
Halofenozide	ND	0.010	
Hexaconazole	ND	0.010	
Hexaflumuron	ND	0.010	
Hexazinone	ND	0.010	
Hexythiazox	ND	0.010	
Hydramethylnon	ND	0.010	
Imazalil	ND	0.010	
Imibenconazole	ND	0.010	
Imidacloprid	ND	0.010	
Indaziflam	ND	0.010	
Indoxacarb	ND	0.010	
Ipconazole	ND	0.010	
Iprovalicarb	ND	0.010	
Isocarbamid	ND	0.010	
Isufenphos	ND	0.010	
Isoprocarb	ND	0.010	
Isoprothiolane	ND	0.010	
Isoproturon	ND	0.010	
Ivermectin	ND	0.010	
Karbutylate	ND	0.010	
Kresoxim-methyl	ND	0.010	
Lactofen	ND	0.010	
Linuron	ND	0.010	
Lufenuron	ND	0.010	
Malathion	ND	0.010	
Mandipropamid	ND	0.010	
Mefenacet	ND	0.010	
Mepanipyrim	ND	0.010	
Mepronil	ND	0.010	

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Project No: Oceano Dunes SVRA Rice Straw and
PO No: 404502001

Client Sample ID: S-1-NS

EMA Sample No: 23022820-01

Date Received: 2/28/2023

Sample Matrix: Rice Straw

Analytical Method: LC/MS/MS Met-Pr

Extraction Method: FDA 302

Date Extracted: 3/2/2023

Date Completed: 3/6/2023

Analyte

Analyte	Amount ppm	RL ppm	Tolerance ppm
Metaflumizone	ND	0.010	
Metalaxyl & Mefenoxam	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	
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	
Nuarimol	ND	0.010	
Omethoate	ND	0.010	
Oxadixyl	ND	0.010	
Oxamyl	ND	0.010	
Paclobutrazol	ND	0.010	
Penconazole	ND	0.010	
Pencycuron	ND	0.010	
Pendimethalin	ND	0.010	
Penthiopyrad	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	
Profenofos	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	7.0*
Propoxur	ND	0.010	
Propyzamide	ND	0.010	
Proquinazid	ND	0.010	

Comments:

*Tolerance on rice, grain. No tolerance is specified on rice straw.

If the amount column displays: OC - See OC Screen, Pyr - See Pyrethroid Screen, ON - See ON Screen, OP - See OP Screen, CB - See CB screen, GC/MS - See GC/MS/MS Screen, LC/MS - See LC/MS/MS Screen
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The Leader in Pesticide Residue Analysis...

ANALYTICAL REPORT



IEH
Laboratories &
Consulting Group

March 9, 2023

Client: Luke Swickard
Ninyo & Moore
1401 Halyard Dr. Suite 110
West Sacramento, CA 95691
Phone: (530) 219-3575
Fax:
Email: lswickard@ninyoandmoore.com

Project No: Oceano Dunes SVRA Rice Straw and

PO No: 404502001

Client Sample ID: S-1-NS

EMA Sample No: 23022820-01

Date Received: 2/28/2023

Sample Matrix: Rice Straw

Analytical Method: LC/MS/MS Py-Z

Extraction Method: FDA 302

Date Extracted: 3/2/2023

Date Completed: 3/6/2023

Analyte

Analyte	Amount ppm	RL ppm	Tolerance ppm
Pymetrozine	ND	0.010	
Pyracarbolid	ND	0.010	
Pyraclostrobin	ND	0.010	
Pyraflufen-ethyl	ND	0.010	
Pyrethrins	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	
Sedaxane	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	
Spinosyn	ND	0.010	
Spirodiclofen	ND	0.010	
Spiromesifin	ND	0.010	
Spirotetramat	ND	0.010	
Spiroxamine	ND	0.010	
Sulfoxaflo	ND	0.010	
Tebuconazole	ND	0.010	
Tebufenozide	ND	0.010	
Tebufenpyrad	ND	0.010	
Tebupirimfos	ND	0.010	
Tebuthiuron	ND	0.010	
Temephos	ND	0.010	
Tepraloxydim	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 (as Carbendazim)	ND	0.010	
Triadimefon	ND	0.010	
Triadimenol	ND	0.010	
Triazophos	ND	0.010	
Tricyclazole	ND	0.010	
Tridemorph	ND	0.010	
Trifloxystrobin	ND	0.010	
Triflumizole	ND	0.010	
Triflumuron	ND	0.010	
Triticonazole	ND	0.010	
Uniconazole	ND	0.010	
Vamidothion	ND	0.010	
Zoxamide	ND	0.010	

Comments:

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Page: 7 of 35



The Leader in Pesticide Residue Analysis...

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March 9, 2023

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Project No: Oceano Dunes SVRA Rice Straw and

PO No: 404502001

Client Sample ID: S-2-NS

EMA Sample No: 23022820-02

Date Received: 2/28/2023

Sample Matrix: Rice Straw

Analytical Method: OC Screen

Extraction Method: CDFA

Date Extracted: 3/2/2023

Date Completed: 3/6/2023

Comments:

If the amount column displays: OC - See OC Screen, Pyr - See Pyrethroid Screen, ON - See ON Screen, OP - See OP Screen, CB - See CB screen, GC/MS - See GC/MS/MS Screen, LC/MS - See LC/MS/MS Screen
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Analyte	Amount ppm	RL ppm	Tolerance 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	
Chloroneb	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	
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	

Date: 03/09/23

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Page: 8 of 35



The Leader in Pesticide Residue Analysis...

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Phone: (530) 219-3575
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Analyte

Bifenthrin
Cyfluthrin
Cypermethrin
Deltamethrin
Esfenvalerate
Fenpropathrin
Fluvalinate
lambda Cyhalothrin
Permethrin
Tralomethrin
Pyrethrins (Total)

Amount ppm	RL ppm	Tolerance ppm
ND	0.020	
ND	0.040	
ND	0.040	
ND	0.020	
ND	0.030	
ND	0.010	
ND	0.040	
ND	0.020	
ND	0.100	
ND	0.020	
ND	0.050	

Project No: Oceano Dunes SVRA Rice Straw and

PO No: 404502001

Client Sample ID: S-2-NS

EMA Sample No: 23022820-02

Date Received: 2/28/2023

Sample Matrix: Rice Straw

Analytical Method: Pyrethroid Screen

Extraction Method: CDFA

Date Extracted: 3/2/2023

Date Completed: 3/6/2023

Comments:

If the amount column displays: OC - See OC Screen, Pyr - See Pyrethroid Screen, ON - See ON Screen, OP - See OP Screen, CB - See CB screen, GC/MS - See GC/MS/MS Screen, LC/MS - See LC/MS/MS Screen
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March 9, 2023

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Project No: Oceano Dunes SVRA Rice Straw and

PO No: 404502001

Client Sample ID: S-2-NS

EMA Sample No: 23022820-02

Date Received: 2/28/2023

Sample Matrix: Rice Straw

Analytical Method: LC/MS/MS A-Cu

Extraction Method: FDA 302

Date Extracted: 3/2/2023

Date Completed: 3/6/2023

Comments:

*Tolerance on rice, grain. No tolerance is specified on rice straw.

Analyte	Amount ppm	RL ppm	Tolerance ppm
3-Hydroxycarbofuran	ND	0.010	
Acephate	ND	0.010	
Acetamiprid	ND	0.010	
Acetochlor	ND	0.010	
Acibenzolar-S-methyl	ND	0.010	
Alachlor	ND	0.010	
Alanycarb	ND	0.010	
Aldicarb	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	ND	0.010	
Azinphos-methyl	ND	0.010	
Azoxystrobin	0.07	0.010	5.0*
BAP(6-benzylaminopurine)	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	ND	0.010	
Bupirimate	ND	0.010	
Buprofezin	ND	0.010	
Butachlor	ND	0.010	
Butafenacil	ND	0.010	
Butocarboxim	ND	0.010	
Butoxycarboxim	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	
Chlorimuron-ethyl	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	
Crotoxyphos	ND	0.010	
Cumyluron	ND	0.010	

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Page: 10 of 35



The Leader in Pesticide Residue Analysis...

ANALYTICAL REPORT



IEH
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March 9, 2023

Client: Luke Swickard
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1401 Halyard Dr. Suite 110
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Phone: (530) 219-3575
Fax:
Email: lswickard@ninyoandmoore.com

Project No: Oceano Dunes SVRA Rice Straw and

PO No: 404502001

Client Sample ID: S-2-NS

EMA Sample No: 23022820-02

Date Received: 2/28/2023

Sample Matrix: Rice Straw

Analytical Method: LC/MS/MS Cy-Fe

Extraction Method: FDA 302

Date Extracted: 3/2/2023

Date Completed: 3/6/2023

Comments:

If the amount column displays: OC - See OC Screen, Pyr - See Pyrethroid Screen, ON - See ON Screen, OP - See OP Screen, CB - See CB screen, GC/MS - See GC/MS/MS Screen, LC/MS - See LC/MS/MS Screen
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Analyte

Analyte	Amount ppm	RL ppm	Tolerance ppm
Cyanazine	ND	0.010	
Cyazofamid	ND	0.010	
Cycloxydim	ND	0.010	
Cyflufenamid	ND	0.010	
Cyhexatin	ND	0.010	
Cymoxanil	ND	0.010	
Cyproconazole	ND	0.010	
Cyprodinil	ND	0.010	
Cyromazine	ND	0.010	
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	
Dinotefuran	ND	0.010	
Dioxacarb	ND	0.010	
Diuron	ND	0.010	
DMST	ND	0.010	
Dodine	ND	0.010	
Doramectin	ND	0.010	
Emamectin	ND	0.010	
EPN	ND	0.010	
Epoxiconazole	ND	0.010	
Eprinomectin	ND	0.010	
Esprocarb	ND	0.010	
Etaconazole	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	
Famphur	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	
Fensulfothion	ND	0.010	
Fenuron	ND	0.010	

Date: 03/09/23

Reviewed by:

Robert Hughes, Lab Manager

Page: 11 of 35



The Leader in Pesticide Residue Analysis...

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Project No: Oceano Dunes SVRA Rice Straw and
PO No: 404502001

Client Sample ID: S-2-NS

EMA Sample No: 23022820-02

Date Received: 2/28/2023

Sample Matrix: Rice Straw

Analytical Method: LC/MS/MS FI-Mep

Extraction Method: FDA 302

Date Extracted: 3/2/2023

Date Completed: 3/6/2023

Comments:

Analyte	Amount ppm	RL ppm	Tolerance ppm
Flonicamid	ND	0.010	
Fluazifop-butyl	ND	0.010	
Flubendiamide	ND	0.010	
Fludioxonil	ND	0.010	
Flufenacet	ND	0.010	
Flufenoxuron	ND	0.010	
Fluometuron	ND	0.010	
Fluopicolide	ND	0.010	
Fluopyram	ND	0.010	
Fluoxastrobin	ND	0.010	
Flupyradifurone	ND	0.010	
Fluquinconazole	ND	0.010	
Fluridone	ND	0.010	
Flusilazole	ND	0.010	
Flutolanil	ND	0.010	
Flutriafof	ND	0.010	
Fluxapyroxad	ND	0.010	
Fomesafen	ND	0.010	
Forchlorfenuron	ND	0.010	
Formetanate	ND	0.010	
Fuberidazole	ND	0.010	
Furalaxyl	ND	0.010	
Halofenozide	ND	0.010	
Hexaconazole	ND	0.010	
Hexaflumuron	ND	0.010	
Hexazinone	ND	0.010	
Hexythiazox	ND	0.010	
Hydramethylnon	ND	0.010	
Imazalil	ND	0.010	
Imibenconazole	ND	0.010	
Imidacloprid	ND	0.010	
Indaziflam	ND	0.010	
Indoxacarb	ND	0.010	
Ipconazole	ND	0.010	
Iprovalicarb	ND	0.010	
Isocarbamid	ND	0.010	
Isufenphos	ND	0.010	
Isoprocarb	ND	0.010	
Isoprothiolane	ND	0.010	
Isoproturon	ND	0.010	
Ivermectin	ND	0.010	
Karbutylate	ND	0.010	
Kresoxim-methyl	ND	0.010	
Lactofen	ND	0.010	
Linuron	ND	0.010	
Lufenuron	ND	0.010	
Malathion	ND	0.010	
Mandipropamid	ND	0.010	
Mefenacet	ND	0.010	
Mepanipyrim	ND	0.010	
Mepronil	ND	0.010	

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Email: lswickard@ninyoandmoore.com

Project No: Oceano Dunes SVRA Rice Straw and
PO No: 404502001

Client Sample ID: S-2-NS

EMA Sample No: 23022820-02

Date Received: 2/28/2023

Sample Matrix: Rice Straw

Analytical Method: LC/MS/MS Met-Pr

Extraction Method: FDA 302

Date Extracted: 3/2/2023

Date Completed: 3/6/2023

Comments:

*Tolerance on rice, grain. No tolerance is specified on rice straw.

Analyte	Amount ppm	RL ppm	Tolerance ppm
Metaflumizone	ND	0.010	
Metalaxyl & Mefenoxam	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	
Methoprotiryne	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	
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	
Nuarimol	ND	0.010	
Omethoate	ND	0.010	
Oxadixyl	ND	0.010	
Oxamyl	ND	0.010	
Paclobutrazol	ND	0.010	
Penconazole	ND	0.010	
Pencycuron	ND	0.010	
Pendimethalin	ND	0.010	
Penthiopyrad	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	
Profenofos	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	0.03	0.010	7.0*
Propoxur	ND	0.010	
Propyzamide	ND	0.010	
Proquinazid	ND	0.010	

If the amount column displays: OC - See OC Screen, Pyr - See Pyrethroid Screen, ON - See ON Screen, OP - See OP Screen, CB - See CB screen, GC/MS - See GC/MS/MS Screen, LC/MS - See LC/MS/MS Screen
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The Leader in Pesticide Residue Analysis...

ANALYTICAL REPORT



IEH
Laboratories &
Consulting Group

March 9, 2023

Client: Luke Swickard
Ninyo & Moore
1401 Halyard Dr. Suite 110
West Sacramento, CA 95691
Phone: (530) 219-3575
Fax:
Email: lswickard@ninyoandmoore.com

Project No: Oceano Dunes SVRA Rice Straw and

PO No: 404502001

Client Sample ID: S-2-NS

EMA Sample No: 23022820-02

Date Received: 2/28/2023

Sample Matrix: Rice Straw

Analytical Method: LC/MS/MS Py-Z

Extraction Method: FDA 302

Date Extracted: 3/2/2023

Date Completed: 3/6/2023

Comments:

Analyte	Amount ppm	RL ppm	Tolerance ppm
Pymetrozine	ND	0.010	
Pyracarbolid	ND	0.010	
Pyraclostrobin	ND	0.010	
Pyraflufen-ethyl	ND	0.010	
Pyrethrins	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	
Sedaxane	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	
Spinosyn	ND	0.010	
Spirodiclofen	ND	0.010	
Spiromesifin	ND	0.010	
Spirotetramat	ND	0.010	
Spiroxamine	ND	0.010	
Sulfoxaflor	ND	0.010	
Tebuconazole	ND	0.010	
Tebufenozide	ND	0.010	
Tebufenpyrad	ND	0.010	
Tebupirimfos	ND	0.010	
Tebuthiuron	ND	0.010	
Temephos	ND	0.010	
Tepraloxydim	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 (as Carbendazim)	ND	0.010	
Triadimefon	ND	0.010	
Triadimenol	ND	0.010	
Triazophos	ND	0.010	
Tricyclazole	ND	0.010	
Tridemorph	ND	0.010	
Trifloxystrobin	ND	0.010	
Triflumizole	ND	0.010	
Triflumuron	ND	0.010	
Triticonazole	ND	0.010	
Uniconazole	ND	0.010	
Vamidothion	ND	0.010	
Zoxamide	ND	0.010	

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Email: lswickard@ninyoandmoore.com

Project No: Oceano Dunes SVRA Rice Straw and
PO No: 404502001

Client Sample ID: S-3-NS

EMA Sample No: 23022820-03

Date Received: 2/28/2023

Sample Matrix: Rice Straw

Analytical Method: OC Screen

Extraction Method: CDFA

Date Extracted: 3/2/2023

Date Completed: 3/6/2023

Comments:

If the amount column displays: OC - See OC Screen, Pyr - See Pyrethroid Screen, ON - See ON Screen, OP - See OP Screen, CB - See CB screen, GC/MS - See GC/MS/MS Screen, LC/MS - See LC/MS/MS Screen
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Analyte	Amount ppm	RL ppm	Tolerance 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	
Chloroneb	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	
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	



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Analyte

Bifenthrin
Cyfluthrin
Cypermethrin
Deltamethrin
Esfenvalerate
Fenpropathrin
Fluvalinate
lambda Cyhalothrin
Permethrin
Tralomethrin
Pyrethrins (Total)

Amount ppm	RL ppm	Tolerance ppm
ND	0.020	
ND	0.040	
ND	0.040	
ND	0.020	
ND	0.030	
ND	0.010	
ND	0.040	
ND	0.020	
ND	0.100	
ND	0.020	
ND	0.050	

Project No: Oceano Dunes SVRA Rice Straw and

PO No: 404502001

Client Sample ID: S-3-NS

EMA Sample No: 23022820-03

Date Received: 2/28/2023

Sample Matrix: Rice Straw

Analytical Method: Pyrethroid Screen

Extraction Method: CDFA

Date Extracted: 3/2/2023

Date Completed: 3/6/2023

Comments:

If the amount column displays: OC - See OC Screen, Pyr - See Pyrethroid Screen, ON - See ON Screen, OP - See OP Screen, CB - See CB screen, GC/MS - See GC/MS/MS Screen, LC/MS - See LC/MS/MS Screen
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Date: 03/09/23 Reviewed by:  Robert Hughes, Lab Manager

Page: 16 of 35



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March 9, 2023

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Project No: Oceano Dunes SVRA Rice Straw and

PO No: 404502001

Client Sample ID: S-3-NS

EMA Sample No: 23022820-03

Date Received: 2/28/2023

Sample Matrix: Rice Straw

Analytical Method: LC/MS/MS A-Cu

Extraction Method: FDA 302

Date Extracted: 3/2/2023

Date Completed: 3/6/2023

Comments:

*Tolerance on rice, grain. No tolerance is specified on rice straw.

Analyte	Amount ppm	RL ppm	Tolerance ppm
3-Hydroxycarbofuran	ND	0.010	
Acephate	ND	0.010	
Acetamiprid	ND	0.010	
Acetochlor	ND	0.010	
Acibenzolar-S-methyl	ND	0.010	
Alachlor	ND	0.010	
Alanycarb	ND	0.010	
Aldicarb	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	ND	0.010	
Azinphos-methyl	ND	0.010	
Azoxystrobin	0.14	0.010	5.0*
BAP(6-benzylaminopurine)	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	ND	0.010	
Bupirimate	ND	0.010	
Buprofezin	ND	0.010	
Butachlor	ND	0.010	
Butafenacil	ND	0.010	
Butocarboxim	ND	0.010	
Butoxycarboxim	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	
Chlorimuron-ethyl	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	
Crotoxyphos	ND	0.010	
Cumyluron	ND	0.010	

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Date: 03/09/23

Reviewed by:

Robert Hughes, Lab Manager

Page: 17 of 35



The Leader in Pesticide Residue Analysis...

ANALYTICAL REPORT



IEH
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March 9, 2023

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Ninyo & Moore
1401 Halyard Dr. Suite 110
West Sacramento, CA 95691
Phone: (530) 219-3575
Fax:
Email: lswickard@ninyoandmoore.com

Project No: Oceano Dunes SVRA Rice Straw and

PO No: 404502001

Client Sample ID: S-3-NS

EMA Sample No: 23022820-03

Date Received: 2/28/2023

Sample Matrix: Rice Straw

Analytical Method: LC/MS/MS Cy-Fe

Extraction Method: FDA 302

Date Extracted: 3/2/2023

Date Completed: 3/6/2023

Comments:

If the amount column displays: OC - See OC Screen, Pyr - See Pyrethroid Screen, ON - See ON Screen, OP - See OP Screen, CB - See CB screen, GC/MS - See GC/MS/MS Screen, LC/MS - See LC/MS/MS Screen
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Analyte	Amount ppm	RL ppm	Tolerance ppm
Cyanazine	ND	0.010	
Cyazofamid	ND	0.010	
Cycloxydim	ND	0.010	
Cyflufenamid	ND	0.010	
Cyhexatin	ND	0.010	
Cymoxanil	ND	0.010	
Cyproconazole	ND	0.010	
Cyprodinil	ND	0.010	
Cyromazine	ND	0.010	
Daimuron	ND	0.010	
Diafenthuron	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	
Dinotefuran	ND	0.010	
Dioxacarb	ND	0.010	
Diuron	ND	0.010	
DMST	ND	0.010	
Dodine	ND	0.010	
Doramectin	ND	0.010	
Emamectin	ND	0.010	
EPN	ND	0.010	
Epoxiconazole	ND	0.010	
Eprinomectin	ND	0.010	
Esprocarb	ND	0.010	
Etaconazole	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	
Famphur	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	
Fensulfothion	ND	0.010	
Fenuron	ND	0.010	

Date: 03/09/23 Reviewed by:  Robert Hughes, Lab Manager



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Project No: Oceano Dunes SVRA Rice Straw and

PO No: 404502001

Client Sample ID: S-3-NS

EMA Sample No: 23022820-03

Date Received: 2/28/2023

Sample Matrix: Rice Straw

Analytical Method: LC/MS/MS FI-Mep

Extraction Method: FDA 302

Date Extracted: 3/2/2023

Date Completed: 3/6/2023

Comments:

Analyte	Amount ppm	RL ppm	Tolerance ppm
Flonicamid	ND	0.010	
Fluazifop-butyl	ND	0.010	
Flubendiamide	ND	0.010	
Fludioxonil	ND	0.010	
Flufenacet	ND	0.010	
Flufenoxuron	ND	0.010	
Fluometuron	ND	0.010	
Fluopicolide	ND	0.010	
Fluopyram	ND	0.010	
Fluoxastrobin	ND	0.010	
Flupyradifurone	ND	0.010	
Fluquinconazole	ND	0.010	
Fluridone	ND	0.010	
Flusilazole	ND	0.010	
Flutolanil	ND	0.010	
Flutriafof	ND	0.010	
Fluxapyroxad	ND	0.010	
Fomesafen	ND	0.010	
Forchlorfenuron	ND	0.010	
Formetanate	ND	0.010	
Fuberidazole	ND	0.010	
Furalaxyl	ND	0.010	
Halofenozide	ND	0.010	
Hexaconazole	ND	0.010	
Hexaflumuron	ND	0.010	
Hexazinone	ND	0.010	
Hexythiazox	ND	0.010	
Hydramethylnon	ND	0.010	
Imazalil	ND	0.010	
Imibenconazole	ND	0.010	
Imidacloprid	ND	0.010	
Indaziflam	ND	0.010	
Indoxacarb	ND	0.010	
Ipconazole	ND	0.010	
Iprovalicarb	ND	0.010	
Isocarbamid	ND	0.010	
Isafenphos	ND	0.010	
Isoprocarb	ND	0.010	
Isoprothiolane	ND	0.010	
Isoproturon	ND	0.010	
Ivermectin	ND	0.010	
Karbutylate	ND	0.010	
Kresoxim-methyl	ND	0.010	
Lactofen	ND	0.010	
Linuron	ND	0.010	
Lufenuron	ND	0.010	
Malathion	ND	0.010	
Mandipropamid	ND	0.010	
Mefenacet	ND	0.010	
Mepanipyrim	ND	0.010	
Mepronil	ND	0.010	

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Project No: Oceano Dunes SVRA Rice Straw and
PO No: 404502001

Client Sample ID: S-3-NS

EMA Sample No: 23022820-03

Date Received: 2/28/2023

Sample Matrix: Rice Straw

Analytical Method: LC/MS/MS Met-Pr

Extraction Method: FDA 302

Date Extracted: 3/2/2023

Date Completed: 3/6/2023

Comments:

*Tolerance on rice, grain. No tolerance is specified on rice straw.

Analyte	Amount ppm	RL ppm	Tolerance ppm
Metaflumizone	ND	0.010	
Metalaxyl & Mefenoxam	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	
Methoprotiryne	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	
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	
Nuarimol	ND	0.010	
Omethoate	ND	0.010	
Oxadixyl	ND	0.010	
Oxamyl	ND	0.010	
Paclobutrazol	ND	0.010	
Penconazole	ND	0.010	
Pencycuron	ND	0.010	
Pendimethalin	ND	0.010	
Penthiopyrad	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	
Profenofos	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	0.05	0.010	7.0*
Propoxur	ND	0.010	
Propyzamide	ND	0.010	
Proquinazid	ND	0.010	

If the amount column displays: OC - See OC Screen, Pyr - See Pyrethroid Screen, ON - See ON Screen, OP - See OP Screen, CB - See CB screen, GC/MS - See GC/MS/MS Screen, LC/MS - See LC/MS/MS Screen
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The Leader in Pesticide Residue Analysis...

ANALYTICAL REPORT



IEH
Laboratories &
Consulting Group

March 9, 2023

Client: Luke Swickard
Ninyo & Moore
1401 Halyard Dr. Suite 110
West Sacramento, CA 95691
Phone: (530) 219-3575
Fax:
Email: lswickard@ninyoandmoore.com

Project No: Oceano Dunes SVRA Rice Straw and

PO No: 404502001

Client Sample ID: S-3-NS

EMA Sample No: 23022820-03

Date Received: 2/28/2023

Sample Matrix: Rice Straw

Analytical Method: LC/MS/MS Py-Z

Extraction Method: FDA 302

Date Extracted: 3/2/2023

Date Completed: 3/6/2023

Comments:

Analyte	Amount ppm	RL ppm	Tolerance ppm
Pymetrozine	ND	0.010	
Pyracarbolid	ND	0.010	
Pyraclostrobin	ND	0.010	
Pyraflufen-ethyl	ND	0.010	
Pyrethrins	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	
Sedaxane	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	
Spinosyn	ND	0.010	
Spirodiclofen	ND	0.010	
Spiromesifin	ND	0.010	
Spirotetramat	ND	0.010	
Spiroxamine	ND	0.010	
Sulfoxaflor	ND	0.010	
Tebuconazole	ND	0.010	
Tebufenozide	ND	0.010	
Tebufenpyrad	ND	0.010	
Tebupirimfos	ND	0.010	
Tebuthiuron	ND	0.010	
Temephos	ND	0.010	
Tepraloxydim	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 (as Carbendazim)	ND	0.010	
Triadimefon	ND	0.010	
Triadimenol	ND	0.010	
Triazophos	ND	0.010	
Tricyclazole	ND	0.010	
Tridemorph	ND	0.010	
Trifloxystrobin	ND	0.010	
Triflumizole	ND	0.010	
Triflumuron	ND	0.010	
Triticonazole	ND	0.010	
Uniconazole	ND	0.010	
Vamidothion	ND	0.010	
Zoxamide	ND	0.010	

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1401 Halyard Dr. Suite 110
West Sacramento, CA 95691
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Email: lswickard@ninyoandmoore.com

Project No: Oceano Dunes SVRA Rice Straw and

PO No: 404502001

Client Sample ID: S-4-OS

EMA Sample No: 23022820-04

Date Received: 2/28/2023

Sample Matrix: Rice Straw

Analytical Method: OC Screen

Extraction Method: CDFA

Date Extracted: 3/2/2023

Date Completed: 3/6/2023

Comments:

If the amount column displays: OC - See OC Screen, Pyr - See Pyrethroid Screen, ON - See ON Screen, OP - See OP Screen, CB - See CB screen, GC/MS - See GC/MS/MS Screen, LC/MS - See LC/MS/MS Screen
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Analyte	Amount ppm	RL ppm	Tolerance 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	
Chloroneb	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	
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	

Date: 03/09/23

Reviewed by:  Robert Hughes, Lab Manager

Page: 22 of 35



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ANALYTICAL REPORT



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March 9, 2023

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Analyte

Bifenthrin
Cyfluthrin
Cypermethrin
Deltamethrin
Esfenvalerate
Fenpropathrin
Fluvalinate
lambda Cyhalothrin
Permethrin
Tralomethrin
Pyrethrins (Total)

Amount ppm	RL ppm	Tolerance ppm
ND	0.020	
ND	0.040	
ND	0.040	
ND	0.020	
ND	0.030	
ND	0.010	
ND	0.040	
ND	0.020	
ND	0.100	
ND	0.020	
ND	0.050	

Project No: Oceano Dunes SVRA Rice Straw and

PO No: 404502001

Client Sample ID: S-4-OS

EMA Sample No: 23022820-04

Date Received: 2/28/2023

Sample Matrix: Rice Straw

Analytical Method: Pyrethroid Screen

Extraction Method: CDFA

Date Extracted: 3/2/2023

Date Completed: 3/6/2023

Comments:

If the amount column displays: OC - See OC Screen, Pyr - See Pyrethroid Screen, ON - See ON Screen, OP - See OP Screen, CB - See CB screen, GC/MS - See GC/MS/MS Screen, LC/MS - See LC/MS/MS Screen
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Date: 03/09/23 Reviewed by:  Robert Hughes, Lab Manager



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March 9, 2023

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Project No: Oceano Dunes SVRA Rice Straw and

PO No: 404502001

Client Sample ID: S-4-OS

EMA Sample No: 23022820-04

Date Received: 2/28/2023

Sample Matrix: Rice Straw

Analytical Method: LC/MS/MS A-Cu

Extraction Method: FDA 302

Date Extracted: 3/2/2023

Date Completed: 3/6/2023

Comments:

*Tolerance on rice, grain. No tolerance is specified on rice straw.

Analyte	Amount ppm	RL ppm	Tolerance ppm
3-Hydroxycarbofuran	ND	0.010	
Acephate	ND	0.010	
Acetamiprid	ND	0.010	
Acetochlor	ND	0.010	
Acibenzolar-S-methyl	ND	0.010	
Alachlor	ND	0.010	
Alanycarb	ND	0.010	
Aldicarb	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	ND	0.010	
Azinphos-methyl	ND	0.010	
Azoxystrobin	0.05	0.010	5.0*
BAP(6-benzylaminopurine)	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	ND	0.010	
Bupirimate	ND	0.010	
Buprofezin	ND	0.010	
Butachlor	ND	0.010	
Butafenacil	ND	0.010	
Butocarboxim	ND	0.010	
Butoxycarboxim	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	
Chlorimuron-ethyl	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	
Crotoxyphos	ND	0.010	
Cumyluron	ND	0.010	

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March 9, 2023

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West Sacramento, CA 95691
Phone: (530) 219-3575
Fax:
Email: lswickard@ninyoandmoore.com

Project No: Oceano Dunes SVRA Rice Straw and

PO No: 404502001

Client Sample ID: S-4-OS

EMA Sample No: 23022820-04

Date Received: 2/28/2023

Sample Matrix: Rice Straw

Analytical Method: LC/MS/MS Cy-Fe

Extraction Method: FDA 302

Date Extracted: 3/2/2023

Date Completed: 3/6/2023

Comments:

If the amount column displays: OC - See OC Screen, Pyr - See Pyrethroid Screen, ON - See ON Screen, OP - See OP Screen, CB - See CB screen, GC/MS - See GC/MS/MS Screen, LC/MS - See LC/MS/MS Screen
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Analyte

Analyte	Amount ppm	RL ppm	Tolerance ppm
Cyanazine	ND	0.010	
Cyazofamid	ND	0.010	
Cycloxydim	ND	0.010	
Cyflurum	ND	0.010	
Cyflufenamid	ND	0.010	
Cyhexatin	ND	0.010	
Cymoxanil	ND	0.010	
Cyproconazole	ND	0.010	
Cyprodinil	ND	0.010	
Cyromazine	ND	0.010	
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	
Dinotefuran	ND	0.010	
Dioxacarb	ND	0.010	
Diuron	ND	0.010	
DMST	ND	0.010	
Dodine	ND	0.010	
Doramectin	ND	0.010	
Emamectin	ND	0.010	
EPN	ND	0.010	
Epoxiconazole	ND	0.010	
Eprinomectin	ND	0.010	
Esprocarb	ND	0.010	
Etaconazole	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	
Famphur	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	
Fensulfothion	ND	0.010	
Fenuron	ND	0.010	

Date: 03/09/23 Reviewed by:  Robert Hughes, Lab Manager

Page: 25 of 35



The Leader in Pesticide Residue Analysis...

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Project No: Oceano Dunes SVRA Rice Straw and

PO No: 404502001

Client Sample ID: S-4-OS

EMA Sample No: 23022820-04

Date Received: 2/28/2023

Sample Matrix: Rice Straw

Analytical Method: LC/MS/MS FI-Mep

Extraction Method: FDA 302

Date Extracted: 3/2/2023

Date Completed: 3/6/2023

Comments:

Analyte	Amount ppm	RL ppm	Tolerance ppm
Flonicamid	ND	0.010	
Fluazifop-butyl	ND	0.010	
Flubendiamide	ND	0.010	
Fludioxonil	ND	0.010	
Flufenacet	ND	0.010	
Flufenoxuron	ND	0.010	
Fluometuron	ND	0.010	
Fluopicolide	ND	0.010	
Fluopyram	ND	0.010	
Fluoxastrobin	ND	0.010	
Flupyradifurone	ND	0.010	
Fluquinconazole	ND	0.010	
Fluridone	ND	0.010	
Flusilazole	ND	0.010	
Flutolanil	ND	0.010	
Flutriafof	ND	0.010	
Fluxapyroxad	ND	0.010	
Fomesafen	ND	0.010	
Forchlorfenuron	ND	0.010	
Formetanate	ND	0.010	
Fuberidazole	ND	0.010	
Furalaxyl	ND	0.010	
Halofenozide	ND	0.010	
Hexaconazole	ND	0.010	
Hexaflumuron	ND	0.010	
Hexazinone	ND	0.010	
Hexythiazox	ND	0.010	
Hydramethylnon	ND	0.010	
Imazalil	ND	0.010	
Imibenconazole	ND	0.010	
Imidacloprid	ND	0.010	
Indaziflam	ND	0.010	
Indoxacarb	ND	0.010	
Ipconazole	ND	0.010	
Iprovalicarb	ND	0.010	
Isocarbamid	ND	0.010	
Isufenphos	ND	0.010	
Isoprocarb	ND	0.010	
Isoprothiolane	ND	0.010	
Isoproturon	ND	0.010	
Ivermectin	ND	0.010	
Karbutylate	ND	0.010	
Kresoxim-methyl	ND	0.010	
Lactofen	ND	0.010	
Linuron	ND	0.010	
Lufenuron	ND	0.010	
Malathion	ND	0.010	
Mandipropamid	ND	0.010	
Mefenacet	ND	0.010	
Mepanipyrim	ND	0.010	
Mepronil	ND	0.010	

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Project No: Oceano Dunes SVRA Rice Straw and
PO No: 404502001

Client Sample ID: S-4-OS

EMA Sample No: 23022820-04

Date Received: 2/28/2023

Sample Matrix: Rice Straw

Analytical Method: LC/MS/MS Met-Pr

Extraction Method: FDA 302

Date Extracted: 3/2/2023

Date Completed: 3/6/2023

Comments:

If the amount column displays: OC - See OC Screen, Pyr - See Pyrethroid Screen, ON - See ON Screen, OP - See OP Screen, CB - See CB screen, GC/MS - See GC/MS/MS Screen, LC/MS - See LC/MS/MS Screen
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Analyte	Amount ppm	RL ppm	Tolerance ppm
Metaflumizone	ND	0.010	
Metalaxyl & Mefenoxam	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	
Methoprotetryne	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	
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	
Nuarimol	ND	0.010	
Omethoate	ND	0.010	
Oxadixyl	ND	0.010	
Oxamyl	ND	0.010	
Paclobutrazol	ND	0.010	
Penconazole	ND	0.010	
Pencycuron	ND	0.010	
Pendimethalin	ND	0.010	
Penthiopyrad	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	
Profenofos	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	
Proquinazid	ND	0.010	



The Leader in Pesticide Residue Analysis...

ANALYTICAL REPORT



IEH
Laboratories &
Consulting Group

March 9, 2023

Client: Luke Swickard
Ninyo & Moore
1401 Halyard Dr. Suite 110
West Sacramento, CA 95691
Phone: (530) 219-3575
Fax:
Email: lswickard@ninyoandmoore.com

Project No: Oceano Dunes SVRA Rice Straw and

PO No: 404502001

Client Sample ID: S-4-OS

EMA Sample No: 23022820-04

Date Received: 2/28/2023

Sample Matrix: Rice Straw

Analytical Method: LC/MS/MS Py-Z

Extraction Method: FDA 302

Date Extracted: 3/2/2023

Date Completed: 3/6/2023

Comments:

Analyte	Amount ppm	RL ppm	Tolerance ppm
Pymetrozine	ND	0.010	
Pyracarbolid	ND	0.010	
Pyraclostrobin	ND	0.010	
Pyraflufen-ethyl	ND	0.010	
Pyrethrins	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	
Sedaxane	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	
Spinosyn	ND	0.010	
Spirodiclofen	ND	0.010	
Spiromesifin	ND	0.010	
Spirotetramat	ND	0.010	
Spiroxamine	ND	0.010	
Sulfoxaflo	ND	0.010	
Tebuconazole	ND	0.010	
Tebufenozide	ND	0.010	
Tebufenpyrad	ND	0.010	
Tebupirimfos	ND	0.010	
Tebuthiuron	ND	0.010	
Temephos	ND	0.010	
Tepraloxydim	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 (as Carbendazim)	ND	0.010	
Triadimefon	ND	0.010	
Triadimenol	ND	0.010	
Triazophos	ND	0.010	
Tricyclazole	ND	0.010	
Tridemorph	ND	0.010	
Trifloxystrobin	ND	0.010	
Triflumizole	ND	0.010	
Triflumuron	ND	0.010	
Triticonazole	ND	0.010	
Uniconazole	ND	0.010	
Vamidothion	ND	0.010	
Zoxamide	ND	0.010	

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March 9, 2023

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1401 Halyard Dr. Suite 110
West Sacramento, CA 95691
Phone: (530) 219-3575
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Project No: Oceano Dunes SVRA Rice Straw and

PO No: 404502001

Client Sample ID: S-5-NS

EMA Sample No: 23022820-05

Date Received: 2/28/2023

Sample Matrix: Rice Straw

Analytical Method: OC Screen

Extraction Method: CDFA

Date Extracted: 3/2/2023

Date Completed: 3/6/2023

Comments:

If the amount column displays: OC - See OC Screen, Pyr - See Pyrethroid Screen, ON - See ON Screen, OP - See OP Screen, CB - See CB screen, GC/MS - See GC/MS/MS Screen, LC/MS - See LC/MS/MS Screen
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Analyte	Amount ppm	RL ppm	Tolerance 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	
Chloroneb	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	
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	



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Analyte

Bifenthrin
Cyfluthrin
Cypermethrin
Deltamethrin
Esfenvalerate
Fenpropathrin
Fluvalinate
lambda Cyhalothrin
Permethrin
Tralomethrin
Pyrethrins (Total)

Amount ppm	RL ppm	Tolerance ppm
ND	0.020	
ND	0.040	
ND	0.040	
ND	0.020	
ND	0.030	
ND	0.010	
ND	0.040	
ND	0.020	
ND	0.100	
ND	0.020	
ND	0.050	

Project No: Oceano Dunes SVRA Rice Straw and

PO No: 404502001

Client Sample ID: S-5-NS

EMA Sample No: 23022820-05

Date Received: 2/28/2023

Sample Matrix: Rice Straw

Analytical Method: Pyrethroid Screen

Extraction Method: CDFA

Date Extracted: 3/2/2023

Date Completed: 3/6/2023

Comments:

If the amount column displays: OC - See OC Screen, Pyr - See Pyrethroid Screen, ON - See ON Screen, OP - See OP Screen, CB - See CB screen, GC/MS - See GC/MS/MS Screen, LC/MS - See LC/MS/MS Screen
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Date: 03/09/23 Reviewed by:  Robert Hughes, Lab Manager



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ANALYTICAL REPORT



IEH
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March 9, 2023

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Project No: Oceano Dunes SVRA Rice Straw and

PO No: 404502001

Client Sample ID: S-5-NS

EMA Sample No: 23022820-05

Date Received: 2/28/2023

Sample Matrix: Rice Straw

Analytical Method: LC/MS/MS A-Cu

Extraction Method: FDA 302

Date Extracted: 3/2/2023

Date Completed: 3/6/2023

Comments:

*Tolerance on rice, grain. No tolerance is specified on rice straw.

Analyte	Amount ppm	RL ppm	Tolerance ppm
3-Hydroxycarbofuran	ND	0.010	
Acephate	ND	0.010	
Acetamiprid	ND	0.010	
Acetochlor	ND	0.010	
Acibenzolar-S-methyl	ND	0.010	
Alachlor	ND	0.010	
Alanycarb	ND	0.010	
Aldicarb	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	ND	0.010	
Azinphos-methyl	ND	0.010	
Azoxystrobin	0.14	0.010	5.0*
BAP(6-benzylaminopurine)	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	ND	0.010	
Bupirimate	ND	0.010	
Buprofezin	ND	0.010	
Butachlor	ND	0.010	
Butafenacil	ND	0.010	
Butocarboxim	ND	0.010	
Butoxycarboxim	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	
Chlorimuron-ethyl	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	
Crotoxyphos	ND	0.010	
Cumyluron	ND	0.010	

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ANALYTICAL REPORT



IEH
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March 9, 2023

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Phone: (530) 219-3575
Fax:
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Project No: Oceano Dunes SVRA Rice Straw and

PO No: 404502001

Client Sample ID: S-5-NS

EMA Sample No: 23022820-05

Date Received: 2/28/2023

Sample Matrix: Rice Straw

Analytical Method: LC/MS/MS Cy-Fe

Extraction Method: FDA 302

Date Extracted: 3/2/2023

Date Completed: 3/6/2023

Comments:

If the amount column displays: OC - See OC Screen, Pyr - See Pyrethroid Screen, ON - See ON Screen, OP - See OP Screen, CB - See CB screen, GC/MS - See GC/MS/MS Screen, LC/MS - See LC/MS/MS Screen
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Analyte

Analyte	Amount ppm	RL ppm	Tolerance ppm
Cyanazine	ND	0.010	
Cyazofamid	ND	0.010	
Cycloxydim	ND	0.010	
Cyflurum	ND	0.010	
Cyflufenamid	ND	0.010	
Cyhexatin	ND	0.010	
Cymoxanil	ND	0.010	
Cyproconazole	ND	0.010	
Cyprodinil	ND	0.010	
Cyromazine	ND	0.010	
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	
Dinotefuran	ND	0.010	
Dioxacarb	ND	0.010	
Diuron	ND	0.010	
DMST	ND	0.010	
Dodine	ND	0.010	
Doramectin	ND	0.010	
Emamectin	ND	0.010	
EPN	ND	0.010	
Epoxiconazole	ND	0.010	
Eprinomectin	ND	0.010	
Esprocarb	ND	0.010	
Etaconazole	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	
Famphur	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	
Fensulfothion	ND	0.010	
Fenuron	ND	0.010	

Date: 03/09/23 Reviewed by:  Robert Hughes, Lab Manager

Page: 32 of 35



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Project No: Oceano Dunes SVRA Rice Straw and

PO No: 404502001

Client Sample ID: S-5-NS

EMA Sample No: 23022820-05

Date Received: 2/28/2023

Sample Matrix: Rice Straw

Analytical Method: LC/MS/MS FI-Mep

Extraction Method: FDA 302

Date Extracted: 3/2/2023

Date Completed: 3/6/2023

Comments:

Analyte	Amount ppm	RL ppm	Tolerance ppm
Flonicamid	ND	0.010	
Fluazifop-butyl	ND	0.010	
Flubendiamide	ND	0.010	
Fludioxonil	ND	0.010	
Flufenacet	ND	0.010	
Flufenoxuron	ND	0.010	
Fluometuron	ND	0.010	
Fluopicolide	ND	0.010	
Fluopyram	ND	0.010	
Fluoxastrobin	ND	0.010	
Flupyradifurone	ND	0.010	
Fluquinconazole	ND	0.010	
Fluridone	ND	0.010	
Flusilazole	ND	0.010	
Flutolanil	ND	0.010	
Flutriafof	ND	0.010	
Fluxapyroxad	ND	0.010	
Fomesafen	ND	0.010	
Forchlorfenuron	ND	0.010	
Formetanate	ND	0.010	
Fuberidazole	ND	0.010	
Furalaxyl	ND	0.010	
Halofenozide	ND	0.010	
Hexaconazole	ND	0.010	
Hexaflumuron	ND	0.010	
Hexazinone	ND	0.010	
Hexythiazox	ND	0.010	
Hydramethylnon	ND	0.010	
Imazalil	ND	0.010	
Imibenconazole	ND	0.010	
Imidacloprid	ND	0.010	
Indaziflam	ND	0.010	
Indoxacarb	ND	0.010	
Ipconazole	ND	0.010	
Iprovalicarb	ND	0.010	
Isocarbamid	ND	0.010	
Isufenphos	ND	0.010	
Isoprocarb	ND	0.010	
Isoprothiolane	ND	0.010	
Isoproturon	ND	0.010	
Ivermectin	ND	0.010	
Karbutylate	ND	0.010	
Kresoxim-methyl	ND	0.010	
Lactofen	ND	0.010	
Linuron	ND	0.010	
Lufenuron	ND	0.010	
Malathion	ND	0.010	
Mandipropamid	ND	0.010	
Mefenacet	ND	0.010	
Mepanipyrim	ND	0.010	
Mepronil	ND	0.010	

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Project No: Oceano Dunes SVRA Rice Straw and
PO No: 404502001

Client Sample ID: S-5-NS

EMA Sample No: 23022820-05

Date Received: 2/28/2023

Sample Matrix: Rice Straw

Analytical Method: LC/MS/MS Met-Pr

Extraction Method: FDA 302

Date Extracted: 3/2/2023

Date Completed: 3/6/2023

Comments:

*Tolerance on rice, grain. No tolerance is specified on rice straw.

Analyte	Amount ppm	RL ppm	Tolerance ppm
Metaflumizone	ND	0.010	
Metalaxyl & Mefenoxam	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	
Methoprotiryne	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	
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	
Nuarimol	ND	0.010	
Omethoate	ND	0.010	
Oxadixyl	ND	0.010	
Oxamyl	ND	0.010	
Paclobutrazol	ND	0.010	
Penconazole	ND	0.010	
Pencycuron	ND	0.010	
Pendimethalin	ND	0.010	
Penthiopyrad	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	
Profenofos	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	7.0*
Propoxur	ND	0.010	
Propyzamide	ND	0.010	
Proquinazid	ND	0.010	

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Phone: (530) 219-3575
Fax:
Email: lswickard@ninyoandmoore.com

Project No: Oceano Dunes SVRA Rice Straw and

PO No: 404502001

Client Sample ID: S-5-NS

EMA Sample No: 23022820-05

Date Received: 2/28/2023

Sample Matrix: Rice Straw

Analytical Method: LC/MS/MS Py-Z

Extraction Method: FDA 302

Date Extracted: 3/2/2023

Date Completed: 3/6/2023

Comments:

Analyte	Amount ppm	RL ppm	Tolerance ppm
Pymetrozine	ND	0.010	
Pyracarbolid	ND	0.010	
Pyraclostrobin	ND	0.010	
Pyraflufen-ethyl	ND	0.010	
Pyrethrins	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	
Sedaxane	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	
Spinosyn	ND	0.010	
Spirodiclofen	ND	0.010	
Spiromesifin	ND	0.010	
Spirotetramat	ND	0.010	
Spiroxamine	ND	0.010	
Sulfoxaflor	ND	0.010	
Tebuconazole	ND	0.010	
Tebufenozide	ND	0.010	
Tebufenpyrad	ND	0.010	
Tebupirimfos	ND	0.010	
Tebuthiuron	ND	0.010	
Temephos	ND	0.010	
Tepraloxydim	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 (as Carbendazim)	ND	0.010	
Triadimefon	ND	0.010	
Triadimenol	ND	0.010	
Triazophos	ND	0.010	
Tricyclazole	ND	0.010	
Tridemorph	ND	0.010	
Trifloxystrobin	ND	0.010	
Triflumizole	ND	0.010	
Triflumuron	ND	0.010	
Triticonazole	ND	0.010	
Uniconazole	ND	0.010	
Vamidothion	ND	0.010	
Zoxamide	ND	0.010	

If the amount column displays: OC - See OC Screen, Pyr - See Pyrethroid Screen, ON - See ON Screen, OP - See OP Screen, CB - See CB screen, GC/MS - See GC/MS/MS Screen, LC/MS - See LC/MS/MS Screen
ND = None Detected at the Reporting Limit (RL)
Tolerance data taken from 40 CFR § 180 and/or MRLdatabase.com. Environmental Micro Analysis 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.
To see the scope of our ISO 17025 accreditation go to <http://emalab.com/ISO17025.pdf>



Ninyo & Moore
2020 Challenger Drive, Suite 103
Alameda, California 94501
Tel: 510-343-3000
RE: Oceano Dunes SVRA Oceano, CA

Work Order No.: 2302232

Dear Luke Swickard:

Torrent Laboratory, Inc. received 10 sample(s) on February 27, 2023 for the analyses presented in the following Report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.

A handwritten signature in blue ink that reads "Kathie Evans". The signature is written in a cursive style and is positioned above a horizontal line.

Kathie Evans
Project Manager

March 06, 2023

Date



Date: 3/6/2023

Client: Ninyo & Moore

Project: Oceano Dunes SVRA Oceano, CA

Work Order: 2302232

CASE NARRATIVE

Unless otherwise indicated in the following narrative, no issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.

This report shall not be reproduced, except in full, without the written approval of Torrent Laboratory, Inc.

Analytical Comments for method SW7471B, 2302232-001A MS/MSD, QC Preparation Batch ID 1149051, Note: The % recoveries for Mercury are outside of laboratory control limits (high bias - sample is ND) but % RPD is within limits. The associated LCS/LCSD is within both % Recovery and % RPD limits. No corrective action required.



Sample Result Summary

Report prepared for: Luke Swickard
Ninyo & Moore

Date Received: 02/27/23

Date Reported: 03/06/23

2302232-001

S-1

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
All compounds were non-detectable for this sample.						

S-1-NS 2302232-002

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
All compounds were non-detectable for this sample.						

S-2 2302232-003

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
All compounds were non-detectable for this sample.						

S-2-NS 2302232-004

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
All compounds were non-detectable for this sample.						

S-3 2302232-005

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
All compounds were non-detectable for this sample.						

S-3-NS 2302232-006

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
All compounds were non-detectable for this sample.						

S-4 2302232-007

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
All compounds were non-detectable for this sample.						

S-4-05 2302232-008

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
All compounds were non-detectable for this sample.						

S-5 2302232-009

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
All compounds were non-detectable for this sample.						



Sample Result Summary

Report prepared for: Luke Swickard
Ninyo & Moore

Date Received: 02/27/23

Date Reported: 03/06/23

S-S-NS

2302232-010

Parameters:

Analysis
Method

DF

MDL

PQL

Results

Unit

All compounds were non-detectable for this sample.



SAMPLE RESULTS

Report prepared for: Luke Swickard
Ninyo & Moore

Date/Time Received: 02/27/23, 12:31 pm
Date Reported: 03/06/23

Client Sample ID:	S-1	Lab Sample ID:	2302232-001A
Project Name/Location:	Oceano Dunes SVRA Oceano, CA	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	02/24/23 / 10:45		
SDG:			

Prep Method: 7471BP	Prep Batch Date/Time: 2/28/23	10:25:00AM
Prep Batch ID: 1149051	Prep Analyst:	AJNG

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.083	0.50	ND		mg/Kg	02/28/23	16:14	ERR	472908

Client Sample ID:	S-1-NS	Lab Sample ID:	2302232-002A
Project Name/Location:	Oceano Dunes SVRA Oceano, CA	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	02/24/23 / 10:50		
SDG:			

Prep Method: 7471BP	Prep Batch Date/Time: 2/28/23	10:25:00AM
Prep Batch ID: 1149051	Prep Analyst:	AJNG

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.083	0.50	ND		mg/Kg	02/28/23	16:20	ERR	472908

Client Sample ID:	S-2	Lab Sample ID:	2302232-003A
Project Name/Location:	Oceano Dunes SVRA Oceano, CA	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	02/24/23 / 10:55		
SDG:			

Prep Method: 7471BP	Prep Batch Date/Time: 2/28/23	10:25:00AM
Prep Batch ID: 1149051	Prep Analyst:	AJNG

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.083	0.50	ND		mg/Kg	02/28/23	16:23	ERR	472908



SAMPLE RESULTS

Report prepared for: Luke Swickard
Ninyo & Moore

Date/Time Received: 02/27/23, 12:31 pm
Date Reported: 03/06/23

Client Sample ID:	S-2-NS	Lab Sample ID:	2302232-004A
Project Name/Location:	Oceano Dunes SVRA Oceano, CA	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	02/24/23 / 10:58		
SDG:			

Prep Method: 7471BP	Prep Batch Date/Time: 2/28/23	10:25:00AM
Prep Batch ID: 1149051	Prep Analyst:	AJNG

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.083	0.50	ND		mg/Kg	02/28/23	16:25	ERR	472908

Client Sample ID:	S-3	Lab Sample ID:	2302232-005A
Project Name/Location:	Oceano Dunes SVRA Oceano, CA	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	02/24/23 / 11:19		
SDG:			

Prep Method: 7471BP	Prep Batch Date/Time: 2/28/23	10:25:00AM
Prep Batch ID: 1149051	Prep Analyst:	AJNG

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.083	0.50	ND		mg/Kg	02/28/23	16:27	ERR	472908

Client Sample ID:	S-3-NS	Lab Sample ID:	2302232-006A
Project Name/Location:	Oceano Dunes SVRA Oceano, CA	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	02/24/23 / 11:25		
SDG:			

Prep Method: 7471BP	Prep Batch Date/Time: 2/28/23	10:25:00AM
Prep Batch ID: 1149051	Prep Analyst:	AJNG

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.083	0.50	ND		mg/Kg	02/28/23	16:29	ERR	472908



SAMPLE RESULTS

Report prepared for: Luke Swickard
Ninyo & Moore

Date/Time Received: 02/27/23, 12:31 pm
Date Reported: 03/06/23

Client Sample ID:	S-4	Lab Sample ID:	2302232-007A
Project Name/Location:	Oceano Dunes SVRA Oceano, CA	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	02/24/23 / 11:45		
SDG:			

Prep Method: 7471BP	Prep Batch Date/Time: 2/28/23	10:25:00AM
Prep Batch ID: 1149051	Prep Analyst:	AJNG

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.083	0.50	ND		mg/Kg	02/28/23	16:31	ERR	472908

Client Sample ID:	S-4-05	Lab Sample ID:	2302232-008A
Project Name/Location:	Oceano Dunes SVRA Oceano, CA	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	02/24/23 / 11:30		
SDG:			

Prep Method: 7471BP	Prep Batch Date/Time: 2/28/23	10:25:00AM
Prep Batch ID: 1149051	Prep Analyst:	AJNG

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.083	0.50	ND		mg/Kg	02/28/23	16:38	ERR	472908

Client Sample ID:	S-5	Lab Sample ID:	2302232-009A
Project Name/Location:	Oceano Dunes SVRA Oceano, CA	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	02/24/23 / 12:15		
SDG:			

Prep Method: 7471BP	Prep Batch Date/Time: 2/28/23	10:25:00AM
Prep Batch ID: 1149051	Prep Analyst:	AJNG

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.083	0.50	ND		mg/Kg	02/28/23	16:40	ERR	472908



SAMPLE RESULTS

Report prepared for: Luke Swickard
Ninyo & Moore

Date/Time Received: 02/27/23, 12:31 pm
Date Reported: 03/06/23

Client Sample ID:	S-S-NS	Lab Sample ID:	2302232-010A
Project Name/Location:	Oceano Dunes SVRA Oceano, CA	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	02/24/23 / 12:20		
SDG:			

Prep Method: 7471BP	Prep Batch Date/Time: 2/28/23	10:25:00AM
Prep Batch ID: 1149051	Prep Analyst:	AJNG

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.083	0.50	ND		mg/Kg	02/28/23	16:42	ERR	472908



MB Summary Report

Work Order:	2302232	Prep Method:	7471BP	Prep Date:	02/28/23	Prep Batch:	1149051
Matrix:	Soil	Analytical Method:	SW7471B	Analyzed Date:	2/28/2023	Analytical Batch:	472908
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Mercury	0.083	0.50	ND		



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	2302232	Prep Method:	7471BP	Prep Date:	02/28/23	Prep Batch:	1149051
Matrix:	Soil	Analytical Method:	SW7471B	Analyzed Date:	2/28/2023	Analytical Batch:	472908
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Mercury	0.047	0.50	ND	1.25	105	103	2.30	80 - 120	20	



MS/MSD Summary Report

Raw values are used in quality control assessment.

Work Order:	2302232	Prep Method:	7471BP	Prep Date:	02/28/23	Prep Batch:	1149051
Matrix:	Soil	Analytical Method:	SW7471B	Analyzed Date:	2/28/2023	Analytical Batch:	472908
Spiked Sample:	2302232-001A						
Units:	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Mercury	0.047	0.50	ND	1.25	122	129	5.75	80 - 120	20	S



Laboratory Qualifiers and Definitions

DEFINITIONS:

Accuracy/Bias (% Recovery) - The closeness of agreement between an observed value and an accepted reference value.
Blank (Method/Preparation Blank) -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.
Duplicate - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)
Laboratory Control Sample (LCS ad LCSD) - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
Matrix - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)
Matrix Spike (MS/MSD) - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
Method Detection Limit (MDL) - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
Practical Quantitation Limit/Reporting Limit/Limit of Quantitation (PQL/RL/LOQ) - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs/RLs/LODs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
Precision (%RPD) - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
Surrogate (S) or (Surr) - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis
Tentatively Identified Compound (TIC) - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.
Units: the unit of measure used to express the reported result - mg/L and mg/Kg (equivalent to PPM - parts per million in liquid and solid), ug/L and ug/Kg (equivalent to PPB - parts per billion in liquid and solid), ug/m3 , mg/m3 , ppbv and ppmv (all units of measure for reporting concentrations in air), % (equivalent to 10000 ppm or 1,000,000 ppb), ug/Wipe (concentration found on the surface of a single Wipe usually taken over a 100cm ² surface)

LABORATORY QUALIFIERS

<p>B - Indicates when the analyte is found in the associated method or preparation blank</p> <p>D - Surrogate is not recoverable due to the necessary dilution of the sample</p> <p>E - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.</p> <p>H- Indicates that the recommended holding time for the analyte or compound has been exceeded</p> <p>J- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative</p> <p>NA - Not Analyzed</p> <p>N/A - Not Applicable</p> <p>ND - Not Detected at a concentration greater than the PQL/RL or, if reported to the MDL, at greater than the MDL.</p> <p>NR - Not recoverable - a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added</p> <p>R- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts</p> <p>S- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative</p> <p>X -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.</p>



Sample Receipt Checklist

Client Name: Ninyo & Moore

Date and Time Received: 2/27/2023 12:31:00PM

Project Name: Oceano Dunes SVRA Oceano, CA

Received By: Tammy Thach

Work Order No.: 2302232

Physically Logged By: limbat

Checklist Completed By: limbat

Carrier Name: FedEx

Chain of Custody (COC) Information

Chain of custody present? Yes
Chain of custody signed when relinquished and received? Yes
Chain of custody agrees with sample labels? Yes
Custody seals intact on sample bottles? Not Present

Sample Receipt Information

Custody seals intact on shipping container/cooler? Not Present
Shipping Container/Cooler In Good Condition? Yes
Samples in proper container/bottle? Yes
Samples containers intact? Yes
Sufficient sample volume for indicated test? Yes

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes
Container/Temp Blank temperature in compliance? Yes Temperature: 3.0 °C
Water-VOA vials have zero headspace? No VOA vials submitted
Water-pH acceptable upon receipt? N/A
pH Checked by: n/a pH Adjusted by: n/a

Comments:



Login Summary Report

Client ID: TL5144 Ninyo & Moore
Project Name: Oceano Dunes SVRA Oceano, CA
Project # :
Report Due Date: 3/6/2023

QC Level: II
TAT Requested: 5+ day:5
Date Received: 2/27/2023
Time Received: 12:31 pm

Comments:

Work Order # : 2302232

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
2302232-001A	S-1	02/24/23 10:45	Soil	08/23/23			Hg_S_7471B	
2302232-002A	S-1-NS	02/24/23 10:50	Soil	08/23/23			Hg_S_7471B	
2302232-003A	S-2	02/24/23 10:55	Soil	08/23/23			Hg_S_7471B	
2302232-004A	S-2-NS	02/24/23 10:58	Soil	08/23/23			Hg_S_7471B	
2302232-005A	S-3	02/24/23 11:19	Soil	08/23/23			Hg_S_7471B	
2302232-006A	S-3-NS	02/24/23 11:25	Soil	08/23/23			Hg_S_7471B	
2302232-007A	S-4	02/24/23 11:45	Soil	08/23/23			Hg_S_7471B	
2302232-008A	S-4-05	02/24/23 11:30	Soil	08/23/23			Hg_S_7471B	
2302232-009A	S-5	02/24/23 12:15	Soil	08/23/23			Hg_S_7471B	
2302232-010A	S-S-NS	02/24/23 12:20	Soil	08/23/23			Hg_S_7471B	



483 Sinclair Frontage Road
 Milpitas, CA 95035
 Phone: 408.263.5258
 FAX: 408.263.8293
 www.torrentlab.com

CHAIN OF CUSTODY

LAB WORK ORDER NO

2302232

• NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY •

Company Name: Ninyo & Moore			Location of Sampling: Oceano Dunes SVRA Oceano, CA		
Address: 1401 Halyard Dr			Purpose: Mercury analysis		
City: West Sacramento	State: CA	Zip Code: 95691	Special Instructions / Comments:		
Telephone: 530 219 3575		FAX:			
REPORT TO: Luke Swickard		SAMPLER: Connor Escobar		P.O. #: 404502001	
				EMAIL: lswickard@ninyoandmoore.com	

TURNAROUND TIME:		SAMPLE TYPE:		REPORT FORMAT:	
<input type="checkbox"/> 10 Work Days	<input type="checkbox"/> 3 Work Days	<input type="checkbox"/> Storm Water	<input type="checkbox"/> Air	<input type="checkbox"/> QC Level IV	Mercury by 7471B
<input checked="" type="checkbox"/> 7 Work Days	<input type="checkbox"/> 2 Work Days	<input type="checkbox"/> Waste Water	<input checked="" type="checkbox"/> Other	<input type="checkbox"/> EDF	
<input type="checkbox"/> 5 Work Days	<input type="checkbox"/> 1 Work Day	<input type="checkbox"/> Ground Water		<input type="checkbox"/> Excel / EDD	
<input type="checkbox"/> Noon - Nxt Day	<input type="checkbox"/> 2 - 8 Hours	<input checked="" type="checkbox"/> Soil			

ANALYSIS REQUESTED

LAB ID	CLIENT'S SAMPLE I.D.	DATE / TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE	REMARKS
001A	S-1	2/24/23 @1045	Soil	1	8oz	✓
002A	S-1-NS	2/24/23 @1050	Straw	1	8oz	✓
003A	S-2	2/24/23 @1055	Soil	1	8oz	✓
004A	S-2-NS	2/24/23 @1058	Straw	1	8oz	✓
005A	S-3	2/24/23 @1119	Soil	1	8oz	✓
006A	S-3-NS S-3-NS	2/24/23 @1125	Straw	1	8oz	✓
007A	S-4	2/24/23 @1145	Soil	1	8oz	✓
008A	S-4-NS S-4-NS	2/24/23 @1150	Straw	1	8oz	✓
009A	S-5	2/24/23 @1215	Soil	1	8oz	✓
010A	S-5-NS S-5-NS	2/24/23 @1220	Straw	1	8oz	✓

1	Relinquished By: <i>[Signature]</i>	Print: Connor Escobar	Date: 2/25/23	Time: 1300	Received By: <i>[Signature]</i>	Print: TAMMY T.	Date: 02/27/2023	Time: 12:31
2	Relinquished By:	Print:	Date:	Time:	Received By:	Print:	Date:	Time:

Were Samples Received in Good Condition? Yes NO Samples on Ice? Yes NO Method of Shipment Fedex Sample seals intact? Yes NO N/A

NOTE: Samples are discarded by the laboratory 30 days from date of receipt unless other arrangements are made. Page 1 of 1

Log In By: _____ Date: _____ Log In Reviewed By: _____ Date: _____

Temp: 2.5° #3