Department of Water County of Kaua'i

4398 Pua Loke Street, P. O. Box 1706
Lihue, Kauai, Hawaii 96766
FAX No.: 808-245-5813
email: dow@kauaiwater.org
Phone: 808-245-5400

MEMO

To: Gary L. Hooser
Councilmember

From: Kirk Saiki, P.E.
Manager - Chief Engineer

CC: Andrea A. Suzuki, Deputy County Attorney
Bernard P. Carvalho, Jr., Mayor County of Kaua'i
Nadine Nakamura, Managing Director

Date: March 29, 2016

RE: SECOND FOLLOW-UPREQUEST FOR DATA REGARDING TESTING FOR CHLORPYRIFOS

Thank you for your letter dated March 15, 2016 requesting a summarization of the Department of Water's (DOW) plan for action regarding testing for chlorpyrifos in Kaua'i's drinking water systems.

On March 9, 2016, after the release and recommendation of the Joint Fact-Finding Group Draft Final Report and in response to public concerns, the DOW decided to test four of our water sources that would be most susceptible to chlorpyrifos. These sources include two sites on the west side – Kapilimao, which is located in the Mana plain where a lot of agricultural activity occurs, and Waimea Well B, which is the primary water source for the Waimea community. The other two sites include Kilohana Wells A and B, which is located in an active agricultural area in Līhu'e, and the Waiahi Water Treatment Plant located at the Kapaia Reservoir. The Waiahi Water Treatment Plant is the DOW's only surface water source and would be most susceptible to contamination by drift.

In addition to testing these four water sources the DOW requested that the lab, Eurofins-Eaton Analytical, review reports from the DOW's last round of testing Phase 2-5 as required by EPA in November 2015 for all of our active sources. We asked the lab to determine whether there were any detectable levels of unreported EPA method 525 pesticides/herbicides, including chlorpyrifos, in the water sources of Waipao, Paua, Waimea A and Waimea B, which services Kekaha and Waimea residents. The lab screens for all EPA method 525 pesticides/herbicides, including chlorpyrifos, but does not provide a report unless detectable levels are found. In order to assuage any concerns, we asked for this additional review.

On March 24, 2016, we received all test results and reports from the lab. The results from the March 9, 2016 testing of the four sources showed that there were **no detectable levels of any of the 525 pesticides/herbicides, including chlorpyrifos**. These results are attached for your review. Please note that the last six chemicals listed in the test results for each source (1,3-Dimethyl-2-nitrobenzene, Acenaphithene-d10, Chrysene-d12, Perylene-d12, Pehenathrene-d10, and Triphenylphosphate) that show detectible levels are actually internal quality controls added by the lab to make sure that the test results are accurate.

The lab review of the November 2015 testing also showed **no detectable levels of any of the 525 pesticides/herbicides, including chlorpyrifos**.

These results support the DOH's determination, as stated in the DOW's prior response to your requests, that there is a low probability of groundwater contamination by chlorpyrifos due to:

1. Largest agricultural use is on corn.
2. Chlorpyrifos is applied to the plant not the ground; therefore, it has more potential to drift than fall to the ground.
3. Chlorpyrifos has a short half-life (51 days).
4. The CLERS Model, developed by University of Hawaii and DOH to predict the leaching potential of pesticides, shows the chance of groundwater contamination by chlorpyrifos on Kaua'i to be unlikely.

It is the DOW's top priority to provide safe drinking water for the people of Kaua'i. I hope that these additional testing results and reports relieve your concerns, and provide you with the same confidence that I have in our staff and in the quality of our drinking water.

If you have any questions, please do not hesitate to call me at 245-5408.

Attachments

eurofins | Eaton Analytical

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

ilac-MRA

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
AT-1807

Laboratory Report

for

Kauai County Water Department
Post Office Box 1706
Lihue, HI 96766
Attention: Carl Arume
Fax: 808-245-5813

Date of Issue
03/24/2016
EUROFINS EATON ANALYTICAL

NELAP ACCREDITED TNI LABORATORY
ORELAP 4034

Report: 579888
Project: PHASEII-PHASEV
Group: Triennial Phase II-V

DST: David S Tripp

Project Manager

* Accredited in accordance with TNI 2009 and ISO/IEC 17025:2005.
* Laboratory certifies that the test results meet all **TNI 2009 and ISO/IEC 17025:2005** requirements unless noted under the individual analysis.
* Following the cover page are State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.
* Test results relate only to the sample(s) tested.
* This report shall not be reproduced except in full, without the written approval of the laboratory.

eurofins | Eaton Analytical

STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	**Mississippi**	Certified
----------	--------	**Montana**	Cert 0035
Arizona	AZ0778	**Nebraska**	Certified
Arkansas	Certified	**Nevada**	CA00006-2016
California-Monrovia-ELAP	2813	**New Hampshire ***	2959
California-Colton- ELAP	2812	**New Jersey ***	CA 008
California-Folsom- ELAP	2820	**New Mexico**	Certified
California-Fresno- ELAP	2966	**New York ***	11320
Colorado	Certified	**North Carolina**	06701
Connecticut	PH-0107	**North Dakota**	R-009
Delaware	CA 006	**Oregon (Primary AB) ***	**ORELAP 4034**
Florida *	E871024	**Pennsylvania ***	68-565
Georgia	947	**Rhode Island**	LAO00326
Guam	15-003r	**South Carolina**	87016
Hawaii	Certified	**South Dakota**	Certified
Idaho	Certified	**Tennessee**	TN02839
Illinois *	200033	**Texas ***	T104704230-14-7
Indiana	C-CA-01	**Utah ***	CA000062015-8
Kansas *	E-10268	**Vermont**	VT0114
Kentucky	90107	**Virginia ***	460260
Louisiana *	LA16003	**Washington**	C838
Maine	CA0006	**West Virginia**	9943 C
Maryland	224	**----------**	**----------**
Commonwealth of Northern Marianas Is.	MP0004	**Wyoming**	8TMS-L
Massachusetts	M-CA006	**EPA Region 5**	Certified
Michigan	9906	**Los Angeles County Sanitation Districts**	10264

* NELAP/TNI Recognized Accreditation Bodies

ISO 17025 Accredited Method List

The tests listed below are accredited and meet the requirements of ISO 17025 as verified by the ANSI-ASQ National Accreditation Board/ANAB.

Refer to Certificate and scope of accreditation (AT 1807) found at: http://www.eatonanalytical.com

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Environ-mental (Drinking Water)	Environ-mental (Waste Water)	Water as a Component of Food and Bev/Bev/ Bottled Water
1,4-Dioxane	EPA 522	x		x
2,3,7,8-TCDD	Modified EPA 1613B	x		x
Acrylamide	In House Method (2440)	x		x
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1		x	x
Ammonia	SM 4500-NH3 H		x	x
Anions and DBPs by IC	EPA 300.0	x	x	x
Anions and DBPs by IC	EPA 300.1	x		x
Asbestos	EPA 100.2	x	x	
Bicarbonate Alkalinity as HCO3	SM 2320B	x	x	x
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method (2447)	x		x
Carbamates	EPA 531.2	x		x
Carbonate as CO3	SM 2330B	x	x	x
Carbonyls	EPA 556	x		x
COD	EPA 410.4 / SM 5220D		x	
Chloramines	SM 4500-CL G	x	x	x
Chlorinated Acids	EPA 515.4	x		x
Chlorinated Acids	EPA 555	x		x
Chlorine Dioxide	SM 4500-CLO2 D	x		x
Chlorine -Total/Free/ Combined Residua	SM 4500-Cl G	x	x	x
Conductivity	EPA 120.1		x	
Conductivity	SM 2510B	x	x	x
Corrosivity (Langelier Index)	SM 2330B	x		x
Cryptosporidium	EPA 1622, 1623	x		x
Cyanide, Amenable	SM 4500-CN G	x	x	
Cyanide, Free	SM 4500CN F	x	x	x
Cyanide, Total	EPA 335.4	x	x	x
Cyanogen Chloride (screen)	In House Method (2470)	x		x
Diquat and Paraquat	EPA 549.2	x		x
DBP/HAA	SM 6251B	x		x
Dissolved Oxygen	SM 4500-O G		x	x
DOC	SM 5310C	x		x
E. Coli	(MTF/EC+MUG)	x		x
E. Coli	CFR 141.21(f)(6)(i)	x		x
E. Coli	SM 9223		x	
E. Coli (Enumeration)	SM 9221B.1/ SM 9221F	x		x
E. Coli (Enumeration)	SM 9223B	x		x
EDB/DCBP	EPA 504.1	x		
EDB/DBCP and DBP	EPA 551.1	x		x
EDTA and NTA	In House Method (2454)	x		x
Endothall	EPA 548.1	x		x
Endothall	In-house Method (2445)	x		x
Enterococci	SM 9230B	x	x	
Fecal Coliform	SM 9221 E (MTF/EC)	x		
Fecal Coliform	SM 9221C, E (MTF/EC)		x	
Fecal Coliform (Enumeration)	SM 9221E (MTF/EC)	x		x
Fecal Coliform with Chlorine Present	SM 9221E		x	
Fecal Streptococci	SM 9230B	x	x	
Fluoride	SM 4500-F C	x	x	x
Giardia	EPA 1623	x		x
Glyphosate	EPA 547	x		x
Gross Alpha/Beta	EPA 900.0	x	x	x
Gross Alpha Coprecipitation	SM 7110 C	x	x	x
Hardness	SM 2340B	x	x	x
Heterotrophic Bacteria	In House Method (2439)	x		x
Heterotrophic Bacteria	SM 9215 B	x		x
Hexavalent Chromium	EPA 218.6	x	x	x

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Environ-mental (Drinking Water)	Environ-mental (Waste Water)	Water as a Component of Food and Bev/Bev/ Bottled Water
Hexavalent Chromium	EPA 218.7	x		x
Hexavalent Chromium	SM 3500-Cr B		x	
Hormones	EPA 539	x		x
Hydroxide as OH Calc.	SM 2330B	x		x
Kjeldahl Nitrogen	EPA 351.2		x	
Legionella	CDC Legionella	x		x
Mercury	EPA 245.1	x	x	x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA (2360)	x		x
NDMA	EPA 521	x		x
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x	x
OCL, Pesticides/PCB	EPA 505	x		x
Ortho Phosphate	EPA 365.1	x	x	x
Ortho Phosphate	SM 4500P E			x
Ortho Phosphorous	SM 4500P E	x		
Oxyhalides Disinfection Byproducts	EPA 317.0	x		x
Perchlorate	EPA 331.0	x		x
Perchlorate (low and high)	EPA 314.0	x		x
Perfluorinated Alkyl Acids	EPA 537	x		x
pH	EPA 150.1	x		
pH	SM 4500-H+B	x	x	x
Phenylurea Pesticides/ Herbicides	In House Method, based on EPA 532 (2448)	x		x
Pseudomonas	IDEXX Pseudalert (2461)	x		x
Radium-226	GA Institute of Tech	x		x
Radium-228	GA Institute of Tech	x		x
Radon-222	SM 7500RN	x		x
Residue, Filterable	SM 2540C	x	x	x
Residue, Non-filterable	SM 2540D		x	
Residue, Total	SM 2540B		x	x
Residue, Volatile	EPA 160.4		x	
Semi-VOC	EPA 525.2	x		x
Semi-VOC	EPA 625		x	x
Silica	SM 4500-Si D	x	x	
Silica	SM 4500-SiO2 C	x	x	
Sulfide	SM 4500-$S^{=}$ D		x	
Sulfite	SM 4500-SO^{3}B	x	x	x
Surfactants	SM 5540C	x	x	x
Taste and Odor Analytes	SM 6040E	x		x
Total Coliform (P/A)	SM 9221 A, B	x		x
Total Coliform (Enumeration)	SM 9221 A, B, C	x		x
Total Coliform / E. coli	Colisure (2346)	x		x
Total Coliform	SM 9221B		x	
Total Coliform with Chlorine Present	SM 9221B		x	
Total Coliform / E.coli (P/A and Enumeration)	SM 9223	x		x
TOC	SM 5310C	x	x	x
TOX	SM 5320B		x	
Total Phenols	EPA 420.1		x	
Total Phenols	EPA 420.4	x	x	x
Total Phosphorous	SM 4500 P E		x	
Turbidity	EPA 180.1	x	x	x
Turbidity	SM 2130B	x	x	
Uranium by ICP/MS	EPA 200.8	x		x
UV 254	SM 5910B	x		
VOC	EPA 524.2/EPA 524.3	x		x
VOC	EPA 624		x	x
VOC	EPA SW 846 8260	x		x
VOC	In House Method (2411)	x		x
Yeast and Mold	SM 9610	x		x

750 Royal Oaks Dr., Ste 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (626) 386-1101 http://www.EatonAnalytical.com

Version 001 Issued: 09/04/2015

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Acknowledgement of Samples Received

Addr: **Kauai County Water Department**
Post Office Box 1706
Lihue, HI 96766

Client ID: KAUAI
Folder #: 579888
Project: PHASEII-PHASEV
Sample Group: Triennial Phase II-V

Attn: Carl Arume
Phone: 808-245-5446

Project Manager: David S Tripp
Phone: (626) 386-1158

The following samples were received from you on **March 11, 2016** at **12:56**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical.

Sample #	Sample ID	Sample Date
201603110268	HI0000400-017-TP080	03/09/2016 1355
	Facility ID: TP080 Sample Point ID: 017 PWSID: HI0000400 Static ID: Grove Farm SWTP	
	@525PLUS C	
201603110269	HI0000400-506-TP413	03/09/2016 1315
	Facility ID: TP413 Sample Point ID: 506 PWSID: HI0000400 Static ID: Kilohana A&B Chlor	
	@525PLUS C	
201603110270	HI0000406-005-TP004	03/09/2016 0915
	Facility ID: TP004 Sample Point ID: 005 PWSID: HI0000406 Static ID: Kapilimao Well	
	@525PLUS C	
201603110271	HI0000406-010-TP006	03/09/2016 0940
	Facility ID: TP006 Sample Point ID: 010 PWSID: HI0000406 Static ID: Waimea Well B	
	@525PLUS C	

Test Description

@525PLUS C -- Semivolatiles by GCMS

750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (626) 386-1101 www.EurofinsUS.com/Eaton

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CHAIN OF CUSTODY RECORD

579888

750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016-3629

Phone: 626 386 1100
Fax: 626 386 1101

800 566 LABS (800 566 5227)

Rush

EUROFINS EATON ANALYTICAL USE ONLY:

LOGIN COMMENTS: _____

SAMPLES CHECKED AGAINST COC BY: VP

SAMPLES LOGGED IN BY: SM

SAMPLES REC'D DAY OF COLLECTION? [ ] (check for yes)

SAMPLE TEMP RECEIVED AT:
[ ] Colton / No. California / Arizona _____ °C (Compliance: 4 ± 2 °C)
[✓] Monrovia 1.5 °C (Compliance: 4 ± 2 °C)

CONDITION OF BLUE ICE: Frozen X Partially Frozen _____ Thawed _____ Wet Ice _____ No Ice _____

METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx / UPS / DHL / Area Fast / Top Line / Other: _____

TO BE COMPLETED BY SAMPLER:

COMPANY/AGENCY NAME: **Kauai Department of Water**

PROJECT CODE: **Phase 2-5**

COMPLIANCE SAMPLES [X] (check for yes) - Requires state forms [ ]

NON-COMPLIANCE SAMPLES [ ] (check for yes)

REGULATION INVOLVED: _____

Type of samples (circle one): ROUTINE SPECIAL CONFIRMATION (eg. SDWA, Phase V, NPDES, FDA,...)

EEA CLIENT CODE: **KAUAI**

COC ID:

SAMPLE GROUP:

SEE ATTACHED BOTTLE ORDER FOR ANALYSES [ ] (check for yes), *OR*

list ANALYSES REQUIRED (enter number of bottles sent for each test for each sample)

TAT requested: rush by adv notice only — STD ___ 1 wk _X_ 3 day ___ 2 day ___ 1 day ___

SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX *	FIELD DATA	FIELD DATA	@525PLUS	CHLOPYRIFO	SAMPLER COMMENTS
3/9/16	1355	400-017	Grove Farm SWTP	FW			X	X	TP080
									CHLOPYRIFOS
3/9/16	1315	400-506	Kilohana A&B Chlor	FW			X	X	TP413
									CHLOPYRIFOS
3/9/16	915	406-005	Kapilimao Well	FW			X	X	TP004
									CHLOPYRIFOS
3/9/16	940	406-010	Waimea Well B	FW			X	X	TP006
									CHLOPYRIFOS

* **MATRIX TYPES:** **RSW** = Raw Surface Water, **RGW** = Raw Ground Water, **CFW** = Chlor(am)inated Finished Water, **FW** = Other Finished Water, **SEAW** = Sea Water, **WW** = Waste Water, **BW** = Bottled Water, **SW** = Storm Water, **SO** = Soil, **SL** = Sludge, **O** = Other - Please Identify

	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
SAMPLED BY:		Andrew Canavan	Kauai Department of Water	3/10/16	1230
RELINQUISHED BY:					
RECEIVED BY:		VICTOR PLASENCIA	EEA	3/11/16	12:56
RELINQUISHED BY:					
RECEIVED BY:					

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INTERNAL CHAIN OF CUSTODY RECORD

COMPANY NAME / EEA CLIENT CODE:	PROJECT CODE:

SAMPLES REC'D DAY OF COLLECTION? ☐

SAMPLE TEMP RECEIVED:

IR Gun ID = 461A (Observation= 1.8 °C) (Corr.Factor -0.3 °C) (Final = 1.5 °C)

TYPE OF ICE: Real X Synthetic ____ No Ice ____

CONDITION OF ICE: Frozen X Partially Frozen ____ Thawed ____ N/A ____

METHOD OF SHIPMENT: Pick-Up / Walk-In / (FedEx) / UPS / DHL / Area Fast / Top Line / Other: ____

Compliance Acceptance Criteria:

1) **Chemistry:** ≤6°C, not frozen (NELAP) (if received after 24 hrs of sample collection)

2) **Microbiology, Distribution:** < 10°C, not frozen (can be ≥10°C if received on ice the same day as sample collection, within 8 hours)

3) **Microbiology, Surface Water:** < 10°C (if received after 2 hours of sample collection)

If over temp is not confirmed, then record each temperature of each quadrant

1 = (Observation= ____ °C) (Corr.Factor ____ °C) (Final = ____ °C)	2 = (Observation= ____ °C) (Corr.Factor ____ °C) (Final = ____ °C)
3 = (Observation= ____ °C) (Corr.Factor ____ °C) (Final = ____ °C)	4 = (Observation= ____ °C) (Corr.Factor ____ °C) (Final = ____ °C)

4) UCMR3 : (non-GLEC) **524.3:** (Observation= ____ °C) (Corr.Factor ____ °C) (Final = ____ °C)

522: (Observation= ____ °C) (Corr.Factor ____ °C) (Final = ____ °C)

≤ 10°C if received within 48 hours of sample collection (not the same business day); ≤ 6°C if received after 48 hours of sample collection. Measure temperature for each method above.

5) LT2: **Giardia /Cryptosporidium:** <20 °C, not frozen (received after 8 hours of sample collection)

E. Coli: < 10°C, not frozen (if received after 2 hours of sample collection)

Giardia/Crypto: (Observation= ____ °C) (Corr.Factor ____ °C) (Final = ____ °C)

E.Coli: (Observation= ____ °C) (Corr.Factor ____ °C) (Final = ____ °C)

6) **Dioxin (1613 or 2,3,7,8 TCDD):** must be between 0-4 °C, not frozen (if received after 24 hrs of sample collection)

Note: If samples are over temp, let the ASMs know. ASMs will determine whether to proceed with analysis or not.

	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
RECEIVED BY:			Eurofins Eaton Analytical	3/11/16	1256

ORIGIN ID:LIHA (808) 245-5400
ANDREW CANAVAN
KAUAI COUNTY DEPT. OF WATER
4398 PUA LOKE ST.
P.O. BOX 1706
LIHUE, HI 96766
UNITED STATES US

SHIP DATE: 10MAR16
ACTWGT: 60.00 LB
CAD: 8085642/INET3730
DIMS: 24x14x14 IN

BILL RECIPIENT

TO **EUROFINS EATON ANALYTICAL**
EUROFINS EATON ANALYTICAL
750 ROYAL OAKS DR
STE 100
MONROVIA CA 91016
(626) 386-0084 REF:
INV:
PO: DEPT:

540J1/CF34/727F

FedEx Express

J151016020501uz

FRI - 11 MAR 3:00P
STANDARD OVERNIGHT

3 of 3

MPS# 0263 **7758 4575 3692**
Mstr# 7758 4575 4210

0201

WZ WHPA

91016
CA-US **BUR**

/templates/components/dotcom_label_contents/FoldInstr/en/Folding_instructions.html loading...
Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
/templates/components/dotcom_label_contents/TnCDom/us/en/TC_dom.html loading...

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory Report: 579888

Kauai County Water Department
Carl Arume
Post Office Box 1706
Lihue, HI 96766

Sample Received
11-Mar-2016 12:56
201603110268

SAFE DRINKING WATER BRANCH
PHASE II AND PHASE V CONTAMINANTS
SUMMARY FORM

Water System Name:

PWS ID No. HI0000400

Sample Location: HI0000400-017-TP080

Sample Date: 03/09/2016

Laboratory Name: Eurofins Eaton Analytical

Lab Report No. 201603110268

Contaminant	EPA Method	Detection Limit	Concentration
Benzo(a)pyrene (ug/L)	EPA 525.2	0.02	ND
Di-(2-Ethylhexyl)adipate (ug/L)	EPA 525.2	0.6	ND
Di(2-Ethylhexyl)phthalate (ug/L)	EPA 525.2	0.6	ND
Pentachlorophenol (ug/L)	EPA 525.2	1	ND

Group A, B, C -- Note: Surface water systems must take annual samples for cyanide

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1 800 566 LABS (1 800 566 5227)

Laboratory Report: 579888

Kauai County Water Department
Carl Arume
Post Office Box 1706
Lihue, HI 96766

Sample Received
11-Mar-2016 12:56
201603110269

SAFE DRINKING WATER BRANCH
PHASE II AND PHASE V CONTAMINANTS
SUMMARY FORM

Water System Name:

PWS ID No. HI0000400

Sample Location: HI0000400-506-TP413

Sample Date: 03/09/2016

Laboratory Name: Eurofins Eaton Analytical

Lab Report No. 201603110269

Contaminant	EPA Method	Detection Limit	Concentration
Benzo(a)pyrene (ug/L)	EPA 525.2	0.02	ND
Di-(2-Ethylhexyl)adipate (ug/L)	EPA 525.2	0.6	ND
Di(2-Ethylhexyl)phthalate (ug/L)	EPA 525.2	0.6	ND
Pentachlorophenol (ug/L)	EPA 525.2	1	ND

Group A, B, C -- Note: Surface water systems must take annual samples for cyanide

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Carl Arume
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Sample Received
11-Mar-2016 12:56
201603110270

SAFE DRINKING WATER BRANCH
PHASE II AND PHASE V CONTAMINANTS
SUMMARY FORM

Water System Name:

PWS ID No. HI0000406

Sample Location: HI0000406-005-TP004

Sample Date: 03/09/2016

Laboratory Name: Eurofins Eaton Analytical

Lab Report No. 201603110270

Contaminant	EPA Method	Detection Limit	Concentration
Benzo(a)pyrene (ug/L)	EPA 525.2	0.02	ND
Di-(2-Ethylhexyl)adipate (ug/L)	EPA 525.2	0.6	ND
Di(2-Ethylhexyl)phthalate (ug/L)	EPA 525.2	0.6	ND
Pentachlorophenol (ug/L)	EPA 525.2	1	ND

Group A, B, C -- Note: Surface water systems must take annual samples for cyanide

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Sample Received
11-Mar-2016 12:56
201603110271

SAFE DRINKING WATER BRANCH
PHASE II AND PHASE V CONTAMINANTS
SUMMARY FORM

Water System Name:

PWS ID No. HI0000406

Sample Location: HI0000406-010-TP006

Sample Date: 03/09/2016

Laboratory Name: Eurofins Eaton Analytical

Lab Report No. 201603110271

Contaminant	EPA Method	Detection Limit	Concentration
Benzo(a)pyrene (ug/L)	EPA 525.2	0.02	ND
Di-(2-Ethylhexyl)adipate (ug/L)	EPA 525.2	0.6	ND
Di(2-Ethylhexyl)phthalate (ug/L)	EPA 525.2	0.6	ND
Pentachlorophenol (ug/L)	EPA 525.2	1	ND

Group A, B, C -- Note: Surface water systems must take annual samples for cyanide

750 Royal Oaks Drive, Suite 100
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Laboratory Hits
Report: 579888

Kauai County Water Department
Carl Arume
Post Office Box 1706
Lihue, HI 96766

Samples Received on:
03/11/2016 12:56

Analyzed	Analyte	Sample ID	Result	HI Limit	Units	MRL

SUMMARY OF POSITIVE DATA ONLY

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Samples Received on:
03/11/2016 12:56

HI0000400-017-TP080 (201603110268) **Sampled on 03/09/2016 1355**

Facility ID: TP080
Sample Point ID: 017
PWSID: HI0000400
Static ID: Grove Farm SWTP

EPA 525.2 - Semivolatiles by GCMS

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	2,4-DDD	ND	ug/L	0.1	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	2,4-DDE	ND	ug/L	0.1	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	2,4-DDT	ND	ug/L	0.1	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	2,4-Dinitrotoluene	ND	ug/L	0.1	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	2,6-Dinitrotoluene	ND	ug/L	0.1	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	4,4-DDD	ND	ug/L	0.1	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	4,4-DDE	ND	ug/L	0.1	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	4,4-DDT	ND	ug/L	0.1	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Acenaphthene	ND	ug/L	0.1	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Acenaphthylene	ND (L4,R7)	ug/L	0.1	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Acetochlor	ND	ug/L	0.1	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Alachlor	ND	ug/L	0.05	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Aldrin	ND (L4)	ug/L	0.05	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Alpha-BHC	ND	ug/L	0.1	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	alpha-Chlordane	ND	ug/L	0.05	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Anthracene	ND	ug/L	0.02	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Atrazine	ND	ug/L	0.05	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Benz(a)Anthracene	ND	ug/L	0.05	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Benzo(a)pyrene	ND	ug/L	0.02	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Benzo(b)Fluoranthene	ND	ug/L	0.02	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Benzo(g,h,i)Perylene	ND	ug/L	0.05	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Benzo(k)Fluoranthene	ND	ug/L	0.02	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Beta-BHC	ND	ug/L	0.1	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Bromacil	ND	ug/L	0.2	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Butachlor	ND	ug/L	0.05	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Butylbenzylphthalate	ND	ug/L	0.5	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Caffeine by method 525mod	ND (LE)	ug/L	0.05	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Chlorobenzilate	ND	ug/L	0.1	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Chloroneb	ND	ug/L	0.1	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Chlorothalonil(Draconil,Bravo)	ND	ug/L	0.1	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Chlorpyrifos (Dursban)	ND	ug/L	0.05	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Chrysene	ND	ug/L	0.02	1

Rounding on totals after summation.
(c) - indicates calculated results

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3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Delta-BHC	ND	ug/L	0.1	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Di-(2-Ethylhexyl)adipate	ND	ug/L	0.6	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Di(2-Ethylhexyl)phthalate	ND	ug/L	0.6	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Diazinon (Qualitative)	ND	ug/L	0.1	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Dibenz(a,h)Anthracene	ND (LK)	ug/L	0.05	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Dichlorvos (DDVP)	ND	ug/L	0.05	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Dieldrin	ND	ug/L	0.2	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Diethylphthalate	ND	ug/L	0.5	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Dimethoate	ND (LK)	ug/L	0.1	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Dimethylphthalate	ND	ug/L	0.5	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Di-n-Butylphthalate	ND	ug/L	1	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Di-N-octylphthalate	ND	ug/L	0.1	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Endosulfan I (Alpha)	ND	ug/L	0.1	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Endosulfan II (Beta)	ND	ug/L	0.1	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Endosulfan Sulfate	ND	ug/L	0.1	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Endrin	ND	ug/L	0.2	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Endrin Aldehyde	ND	ug/L	0.1	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	EPTC	ND	ug/L	0.1	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Fluoranthene	ND	ug/L	0.1	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Fluorene	ND	ug/L	0.05	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	gamma-Chlordane	ND	ug/L	0.05	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Heptachlor	ND	ug/L	0.03	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Heptachlor Epoxide (isomer B)	ND	ug/L	0.05	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Hexachlorobenzene	ND	ug/L	0.05	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Hexachlorocyclopentadiene	ND (LE)	ug/L	0.05	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Indeno(1,2,3,c,d)Pyrene	ND	ug/L	0.05	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Isophorone	ND	ug/L	0.5	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Lindane	ND	ug/L	0.04	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Malathion	ND	ug/L	0.1	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Methoxychlor	ND	ug/L	0.1	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Metolachlor	ND	ug/L	0.05	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Metribuzin	ND	ug/L	0.05	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Molinate	ND	ug/L	0.1	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Naphthalene	ND	ug/L	0.3	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Parathion	ND	ug/L	0.1	1
3/16/2016	03/21/2016 18:55	899217	(EPA 525.2)	Pendimethalin	ND	ug/L	0.1	1

Rounding on totals after summation.
(c) - indicates calculated results

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3/16/2016	03/21/2016	18:55	899217	(EPA 525.2)	Pentachlorophenol	ND (LE,LK)	ug/L	1	1
3/16/2016	03/21/2016	18:55	899217	(EPA 525.2)	Permethrin (mixed isomers)	ND	ug/L	0.1	1
3/16/2016	03/21/2016	18:55	899217	(EPA 525.2)	Phenanthrene	ND	ug/L	0.04	1
3/16/2016	03/21/2016	18:55	899217	(EPA 525.2)	Propachlor	ND	ug/L	0.05	1
3/16/2016	03/21/2016	18:55	899217	(EPA 525.2)	Pyrene	ND	ug/L	0.05	1
3/16/2016	03/21/2016	18:55	899217	(EPA 525.2)	Simazine	ND	ug/L	0.05	1
3/16/2016	03/21/2016	18:55	899217	(EPA 525.2)	Terbacil	ND	ug/L	0.1	1
3/16/2016	03/21/2016	18:55	899217	(EPA 525.2)	Terbuthylazine	ND	ug/L	0.1	1
3/16/2016	03/21/2016	18:55	899217	(EPA 525.2)	Thiobencarb (ELAP)	ND	ug/L	0.2	1
3/16/2016	03/21/2016	18:55	899217	(EPA 525.2)	trans-Nonachlor	ND	ug/L	0.05	1
3/16/2016	03/21/2016	18:55	899217	(EPA 525.2)	Trifluralin	ND	ug/L	0.1	1
3/16/2016	03/21/2016	18:55	899217	(EPA 525.2)	1,3-Dimethyl-2-nitrobenzene	99	%		1
3/16/2016	03/21/2016	18:55	899217	(EPA 525.2)	Acenaphthene-d10	103	%		1
3/16/2016	03/21/2016	18:55	899217	(EPA 525.2)	Chrysene-d12	119	%		1
3/16/2016	03/21/2016	18:55	899217	(EPA 525.2)	Perylene-d12	89	%		1
3/16/2016	03/21/2016	18:55	899217	(EPA 525.2)	Phenanthrene-d10	107	%		1
3/16/2016	03/21/2016	18:55	899217	(EPA 525.2)	Triphenylphosphate	112	%		1

HI0000400-506-TP413 (201603110269) **Sampled on 03/09/2016 1315**

Facility ID: TP413
Sample Point ID: 506
PWSID: HI0000400
Static ID: Kilohana A&B Chlor

EPA 525.2 - Semivolatiles by GCMS

3/16/2016	03/21/2016	19:18	899217	(EPA 525.2)	2,4-DDD	ND	ug/L	0.1	1
3/16/2016	03/21/2016	19:18	899217	(EPA 525.2)	2,4-DDE	ND	ug/L	0.1	1
3/16/2016	03/21/2016	19:18	899217	(EPA 525.2)	2,4-DDT	ND	ug/L	0.1	1
3/16/2016	03/21/2016	19:18	899217	(EPA 525.2)	2,4-Dinitrotoluene	ND	ug/L	0.1	1
3/16/2016	03/21/2016	19:18	899217	(EPA 525.2)	2,6-Dinitrotoluene	ND	ug/L	0.1	1
3/16/2016	03/21/2016	19:18	899217	(EPA 525.2)	4,4-DDD	ND	ug/L	0.1	1
3/16/2016	03/21/2016	19:18	899217	(EPA 525.2)	4,4-DDE	ND	ug/L	0.1	1
3/16/2016	03/21/2016	19:18	899217	(EPA 525.2)	4,4-DDT	ND	ug/L	0.1	1
3/16/2016	03/21/2016	19:18	899217	(EPA 525.2)	Acenaphthene	ND	ug/L	0.1	1
3/16/2016	03/21/2016	19:18	899217	(EPA 525.2)	Acenaphthylene	ND (L4,R7)	ug/L	0.1	1
3/16/2016	03/21/2016	19:18	899217	(EPA 525.2)	Acetochlor	ND	ug/L	0.1	1
3/16/2016	03/21/2016	19:18	899217	(EPA 525.2)	Alachlor	ND	ug/L	0.05	1
3/16/2016	03/21/2016	19:18	899217	(EPA 525.2)	Aldrin	ND (L4)	ug/L	0.05	1
3/16/2016	03/21/2016	19:18	899217	(EPA 525.2)	Alpha-BHC	ND	ug/L	0.1	1
3/16/2016	03/21/2016	19:18	899217	(EPA 525.2)	alpha-Chlordane	ND	ug/L	0.05	1

Rounding on totals after summation.
(c) - indicates calculated results

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Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Anthracene	ND	ug/L	0.02	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Atrazine	ND	ug/L	0.05	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Benz(a)Anthracene	ND	ug/L	0.05	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Benzo(a)pyrene	ND	ug/L	0.02	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Benzo(b)Fluoranthene	ND	ug/L	0.02	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Benzo(g,h,i)Perylene	ND	ug/L	0.05	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Benzo(k)Fluoranthene	ND	ug/L	0.02	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Beta-BHC	ND	ug/L	0.1	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Bromacil	ND	ug/L	0.2	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Butachlor	ND	ug/L	0.05	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Butylbenzylphthalate	ND	ug/L	0.5	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Caffeine by method 525mod	ND (LE)	ug/L	0.05	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Chlorobenzilate	ND	ug/L	0.1	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Chloroneb	ND	ug/L	0.1	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Chlorothalonil(Draconil,Bravo)	ND	ug/L	0.1	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Chlorpyrifos (Dursban)	ND	ug/L	0.05	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Chrysene	ND	ug/L	0.02	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Delta-BHC	ND	ug/L	0.1	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Di-(2-Ethylhexyl)adipate	ND	ug/L	0.6	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Di(2-Ethylhexyl)phthalate	ND	ug/L	0.6	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Diazinon (Qualitative)	ND	ug/L	0.1	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Dibenz(a,h)Anthracene	ND (LK)	ug/L	0.05	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Dichlorvos (DDVP)	ND	ug/L	0.05	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Dieldrin	ND	ug/L	0.2	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Diethylphthalate	ND	ug/L	0.5	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Dimethoate	ND (LK)	ug/L	0.1	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Dimethylphthalate	ND	ug/L	0.5	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Di-n-Butylphthalate	ND	ug/L	1	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Di-N-octylphthalate	ND	ug/L	0.1	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Endosulfan I (Alpha)	ND	ug/L	0.1	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Endosulfan II (Beta)	ND	ug/L	0.1	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Endosulfan Sulfate	ND	ug/L	0.1	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Endrin	ND	ug/L	0.2	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Endrin Aldehyde	ND	ug/L	0.1	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	EPTC	ND	ug/L	0.1	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Fluoranthene	ND	ug/L	0.1	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Fluorene	ND	ug/L	0.05	1

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Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	gamma-Chlordane	ND	ug/L	0.05	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Heptachlor	ND	ug/L	0.03	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Heptachlor Epoxide (isomer B)	ND	ug/L	0.05	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Hexachlorobenzene	ND	ug/L	0.05	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Hexachlorocyclopentadiene	ND (LE)	ug/L	0.05	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Indeno(1,2,3,c,d)Pyrene	ND	ug/L	0.05	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Isophorone	ND	ug/L	0.5	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Lindane	ND	ug/L	0.04	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Malathion	ND	ug/L	0.1	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Methoxychlor	ND	ug/L	0.1	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Metolachlor	ND	ug/L	0.05	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Metribuzin	ND	ug/L	0.05	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Molinate	ND	ug/L	0.1	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Naphthalene	ND	ug/L	0.3	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Parathion	ND	ug/L	0.1	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Pendimethalin	ND	ug/L	0.1	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Pentachlorophenol	ND (LE,LK)	ug/L	1	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Permethrin (mixed isomers)	ND	ug/L	0.1	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Phenanthrene	ND	ug/L	0.04	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Propachlor	ND	ug/L	0.05	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Pyrene	ND	ug/L	0.05	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Simazine	ND	ug/L	0.05	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Terbacil	ND	ug/L	0.1	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Terbuthylazine	ND	ug/L	0.1	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Thiobencarb (ELAP)	ND	ug/L	0.2	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	trans-Nonachlor	ND	ug/L	0.05	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Trifluralin	ND	ug/L	0.1	1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	1,3-Dimethyl-2-nitrobenzene	99	%		1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Acenaphthene-d10	81	%		1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Chrysene-d12	91	%		1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Perylene-d12	89	%		1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Phenanthrene-d10	86	%		1
3/16/2016	03/21/2016 19:18	899217	(EPA 525.2)	Triphenylphosphate	108	%		1

HI0000406-005-TP004 (201603110270) **Sampled on 03/09/2016 0915**

Rounding on totals after summation.
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Laboratory Data
Report: 579888

Kauai County Water Department
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Samples Received on:
03/11/2016 12:56

Facility ID: TP004
Sample Point ID: 005
PWSID: HI0000406
Static ID: Kapilimao Well

EPA 525.2 - Semivolatiles by GCMS

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	2,4-DDD	ND	ug/L	0.1	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	2,4-DDE	ND	ug/L	0.1	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	2,4-DDT	ND	ug/L	0.1	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	2,4-Dinitrotoluene	ND	ug/L	0.1	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	2,6-Dinitrotoluene	ND	ug/L	0.1	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	4,4-DDD	ND	ug/L	0.1	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	4,4-DDE	ND	ug/L	0.1	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	4,4-DDT	ND	ug/L	0.1	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Acenaphthene	ND	ug/L	0.1	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Acenaphthylene	ND (L4,R7)	ug/L	0.1	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Acetochlor	ND	ug/L	0.1	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Alachlor	ND	ug/L	0.05	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Aldrin	ND (L4)	ug/L	0.05	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Alpha-BHC	ND	ug/L	0.1	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	alpha-Chlordane	ND	ug/L	0.05	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Anthracene	ND	ug/L	0.02	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Atrazine	ND	ug/L	0.05	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Benz(a)Anthracene	ND	ug/L	0.05	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Benzo(a)pyrene	ND	ug/L	0.02	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Benzo(b)Fluoranthene	ND	ug/L	0.02	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Benzo(g,h,i)Perylene	ND	ug/L	0.05	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Benzo(k)Fluoranthene	ND	ug/L	0.02	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Beta-BHC	ND	ug/L	0.1	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Bromacil	ND	ug/L	0.2	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Butachlor	ND	ug/L	0.05	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Butylbenzylphthalate	ND	ug/L	0.5	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Caffeine by method 525mod	ND (LE)	ug/L	0.05	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Chlorobenzilate	ND	ug/L	0.1	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Chloroneb	ND	ug/L	0.1	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Chlorothalonil(Draconil,Bravo)	ND	ug/L	0.1	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Chlorpyrifos (Dursban)	ND	ug/L	0.05	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Chrysene	ND	ug/L	0.02	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Delta-BHC	ND	ug/L	0.1	1

Rounding on totals after summation.
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Samples Received on:
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Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Di-(2-Ethylhexyl)adipate	ND	ug/L	0.6	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Di(2-Ethylhexyl)phthalate	ND	ug/L	0.6	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Diazinon (Qualitative)	ND	ug/L	0.1	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Dibenz(a,h)Anthracene	ND (LK)	ug/L	0.05	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Dichlorvos (DDVP)	ND	ug/L	0.05	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Dieldrin	ND	ug/L	0.2	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Diethylphthalate	ND	ug/L	0.5	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Dimethoate	ND (LK)	ug/L	0.1	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Dimethylphthalate	ND	ug/L	0.5	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Di-n-Butylphthalate	ND	ug/L	1	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Di-N-octylphthalate	ND	ug/L	0.1	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Endosulfan I (Alpha)	ND	ug/L	0.1	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Endosulfan II (Beta)	ND	ug/L	0.1	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Endosulfan Sulfate	ND	ug/L	0.1	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Endrin	ND	ug/L	0.2	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Endrin Aldehyde	ND	ug/L	0.1	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	EPTC	ND	ug/L	0.1	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Fluoranthene	ND	ug/L	0.1	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Fluorene	ND	ug/L	0.05	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	gamma-Chlordane	ND	ug/L	0.05	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Heptachlor	ND	ug/L	0.03	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Heptachlor Epoxide (isomer B)	ND	ug/L	0.05	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Hexachlorobenzene	ND	ug/L	0.05	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Hexachlorocyclopentadiene	ND (LE)	ug/L	0.05	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Indeno(1,2,3,c,d)Pyrene	ND	ug/L	0.05	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Isophorone	ND	ug/L	0.5	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Lindane	ND	ug/L	0.04	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Malathion	ND	ug/L	0.1	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Methoxychlor	ND	ug/L	0.1	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Metolachlor	ND	ug/L	0.05	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Metribuzin	ND	ug/L	0.05	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Molinate	ND	ug/L	0.1	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Naphthalene	ND	ug/L	0.3	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Parathion	ND	ug/L	0.1	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Pendimethalin	ND	ug/L	0.1	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Pentachlorophenol	ND (LE,LK)	ug/L	1	1
3/16/2016	03/21/2016 19:42	899217	(EPA 525.2)	Permethrin (mixed isomers)	ND	ug/L	0.1	1

Rounding on totals after summation.
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Samples Received on:
03/11/2016 12:56

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
3/16/2016	03/21/2016	19:42	899217	(EPA 525.2)	Phenanthrene	ND	ug/L	0.04	1
3/16/2016	03/21/2016	19:42	899217	(EPA 525.2)	Propachlor	ND	ug/L	0.05	1
3/16/2016	03/21/2016	19:42	899217	(EPA 525.2)	Pyrene	ND	ug/L	0.05	1
3/16/2016	03/21/2016	19:42	899217	(EPA 525.2)	Simazine	ND	ug/L	0.05	1
3/16/2016	03/21/2016	19:42	899217	(EPA 525.2)	Terbacil	ND	ug/L	0.1	1
3/16/2016	03/21/2016	19:42	899217	(EPA 525.2)	Terbuthylazine	ND	ug/L	0.1	1
3/16/2016	03/21/2016	19:42	899217	(EPA 525.2)	Thiobencarb (ELAP)	ND	ug/L	0.2	1
3/16/2016	03/21/2016	19:42	899217	(EPA 525.2)	trans-Nonachlor	ND	ug/L	0.05	1
3/16/2016	03/21/2016	19:42	899217	(EPA 525.2)	Trifluralin	ND	ug/L	0.1	1
3/16/2016	03/21/2016	19:42	899217	(EPA 525.2)	1,3-Dimethyl-2-nitrobenzene	102	%		1
3/16/2016	03/21/2016	19:42	899217	(EPA 525.2)	Acenaphthene-d10	79	%		1
3/16/2016	03/21/2016	19:42	899217	(EPA 525.2)	Chrysene-d12	91	%		1
3/16/2016	03/21/2016	19:42	899217	(EPA 525.2)	Perylene-d12	76	%		1
3/16/2016	03/21/2016	19:42	899217	(EPA 525.2)	Phenanthrene-d10	82	%		1
3/16/2016	03/21/2016	19:42	899217	(EPA 525.2)	Triphenylphosphate	110	%		1

HI0000406-010-TP006 (201603110271) **Sampled on 03/09/2016 0940**

Facility ID: TP006
Sample Point ID: 010
PWSID: HI0000406
Static ID: Waimea Well B

EPA 525.2 - Semivolatiles by GCMS

3/16/2016	03/21/2016	20:06	899217	(EPA 525.2)	2,4-DDD	ND	ug/L	0.1	1
3/16/2016	03/21/2016	20:06	899217	(EPA 525.2)	2,4-DDE	ND	ug/L	0.1	1
3/16/2016	03/21/2016	20:06	899217	(EPA 525.2)	2,4-DDT	ND	ug/L	0.1	1
3/16/2016	03/21/2016	20:06	899217	(EPA 525.2)	2,4-Dinitrotoluene	ND	ug/L	0.1	1
3/16/2016	03/21/2016	20:06	899217	(EPA 525.2)	2,6-Dinitrotoluene	ND	ug/L	0.1	1
3/16/2016	03/21/2016	20:06	899217	(EPA 525.2)	4,4-DDD	ND	ug/L	0.1	1
3/16/2016	03/21/2016	20:06	899217	(EPA 525.2)	4,4-DDE	ND	ug/L	0.1	1
3/16/2016	03/21/2016	20:06	899217	(EPA 525.2)	4,4-DDT	ND	ug/L	0.1	1
3/16/2016	03/21/2016	20:06	899217	(EPA 525.2)	Acenaphthene	ND	ug/L	0.1	1
3/16/2016	03/21/2016	20:06	899217	(EPA 525.2)	Acenaphthylene	ND (L4,R7)	ug/L	0.1	1
3/16/2016	03/21/2016	20:06	899217	(EPA 525.2)	Acetochlor	ND	ug/L	0.1	1
3/16/2016	03/21/2016	20:06	899217	(EPA 525.2)	Alachlor	ND	ug/L	0.05	1
3/16/2016	03/21/2016	20:06	899217	(EPA 525.2)	Aldrin	ND (L4)	ug/L	0.05	1
3/16/2016	03/21/2016	20:06	899217	(EPA 525.2)	Alpha-BHC	ND	ug/L	0.1	1
3/16/2016	03/21/2016	20:06	899217	(EPA 525.2)	alpha-Chlordane	ND	ug/L	0.05	1
3/16/2016	03/21/2016	20:06	899217	(EPA 525.2)	Anthracene	ND	ug/L	0.02	1
3/16/2016	03/21/2016	20:06	899217	(EPA 525.2)	Atrazine	ND	ug/L	0.05	1

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Samples Received on:
03/11/2016 12:56

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Benz(a)Anthracene	ND	ug/L	0.05	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Benzo(a)pyrene	ND	ug/L	0.02	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Benzo(b)Fluoranthene	ND	ug/L	0.02	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Benzo(g,h,i)Perylene	ND	ug/L	0.05	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Benzo(k)Fluoranthene	ND	ug/L	0.02	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Beta-BHC	ND	ug/L	0.1	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Bromacil	ND	ug/L	0.2	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Butachlor	ND	ug/L	0.05	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Butylbenzylphthalate	ND	ug/L	0.5	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Caffeine by method 525mod	ND (LE)	ug/L	0.05	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Chlorobenzilate	ND	ug/L	0.1	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Chloroneb	ND	ug/L	0.1	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Chlorothalonil(Draconil,Bravo)	ND	ug/L	0.1	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Chlorpyrifos (Dursban)	ND	ug/L	0.05	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Chrysene	ND	ug/L	0.02	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Delta-BHC	ND	ug/L	0.1	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Di-(2-Ethylhexyl)adipate	ND	ug/L	0.6	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Di(2-Ethylhexyl)phthalate	ND	ug/L	0.6	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Diazinon (Qualitative)	ND	ug/L	0.1	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Dibenz(a,h)Anthracene	ND (LK)	ug/L	0.05	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Dichlorvos (DDVP)	ND	ug/L	0.05	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Dieldrin	ND	ug/L	0.2	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Diethylphthalate	ND	ug/L	0.5	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Dimethoate	ND (LK)	ug/L	0.1	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Dimethylphthalate	ND	ug/L	0.5	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Di-n-Butylphthalate	ND	ug/L	1	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Di-N-octylphthalate	ND	ug/L	0.1	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Endosulfan I (Alpha)	ND	ug/L	0.1	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Endosulfan II (Beta)	ND	ug/L	0.1	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Endosulfan Sulfate	ND	ug/L	0.1	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Endrin	ND	ug/L	0.2	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Endrin Aldehyde	ND	ug/L	0.1	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	EPTC	ND	ug/L	0.1	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Fluoranthene	ND	ug/L	0.1	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Fluorene	ND	ug/L	0.05	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	gamma-Chlordane	ND	ug/L	0.05	1

Rounding on totals after summation.
(c) - indicates calculated results

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Laboratory Data
Report: 579888

Kauai County Water Department
Carl Arume
Post Office Box 1706
Lihue, HI 96766

Samples Received on:
03/11/2016 12:56

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Heptachlor	ND	ug/L	0.03	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Heptachlor Epoxide (isomer B)	ND	ug/L	0.05	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Hexachlorobenzene	ND	ug/L	0.05	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Hexachlorocyclopentadiene	ND (LE)	ug/L	0.05	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Indeno(1,2,3,c,d)Pyrene	ND	ug/L	0.05	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Isophorone	ND	ug/L	0.5	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Lindane	ND	ug/L	0.04	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Malathion	ND	ug/L	0.1	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Methoxychlor	ND	ug/L	0.1	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Metolachlor	ND	ug/L	0.05	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Metribuzin	ND	ug/L	0.05	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Molinate	ND	ug/L	0.1	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Naphthalene	ND	ug/L	0.3	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Parathion	ND	ug/L	0.1	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Pendimethalin	ND	ug/L	0.1	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Pentachlorophenol	ND (LE,LK)	ug/L	1	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Permethrin (mixed isomers)	ND	ug/L	0.1	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Phenanthrene	ND	ug/L	0.04	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Propachlor	ND	ug/L	0.05	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Pyrene	ND	ug/L	0.05	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Simazine	ND	ug/L	0.05	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Terbacil	ND	ug/L	0.1	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Terbuthylazine	ND	ug/L	0.1	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Thiobencarb (ELAP)	ND	ug/L	0.2	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	trans-Nonachlor	ND	ug/L	0.05	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Trifluralin	ND	ug/L	0.1	1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	1,3-Dimethyl-2-nitrobenzene	100	%		1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Acenaphthene-d10	74	%		1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Chrysene-d12	78	%		1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Perylene-d12	90	%		1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Phenanthrene-d10	76	%		1
3/16/2016	03/21/2016 20:06	899217	(EPA 525.2)	Triphenylphosphate	108	%		1

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Folder Comments

Chlorpyrifos included per client request - 032216dst.

Flags Legend:

L4 - The associated blank spike recovery was below method acceptance limits.

LE - MRL Check recovery was above laboratory acceptance limits.

LK - The associated blank spike recovery was above method acceptance limits. This target analyte was not detected in the sample.

R7 - LFB/LFBD RPD exceeded the laboratory acceptance limit. Recovery met acceptance criteria.

The Comments Report may be blank if there are no comments for this report.

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QC Ref # 899217 - Semivolatiles by GCMS **Analysis Date: 03/21/2016**

201603110268	HI0000400-017-TP080	Analyzed by: KAM
201603110269	HI0000400-506-TP413	Analyzed by: KAM
201603110270	HI0000406-005-TP004	Analyzed by: KAM
201603110271	HI0000406-010-TP006	Analyzed by: KAM

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Laboratory QC
Report: 579888

Kauai County Water Department

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 899217 - Semivolatiles by GCMS by EPA 525.2						**Analysis Date: 03/21/2016**			
LCS1	1,3-Dimethyl-2-nitrobenzene (S)			100	%	100	(70-130)		
LCS2	1,3-Dimethyl-2-nitrobenzene (S)			99.5	%	99	(70-130)		
MBLK	1,3-Dimethyl-2-nitrobenzene (S)			99.9	%	100	(70-130)		
MRL_CHK	1,3-Dimethyl-2-nitrobenzene (S)			99.3	%	99	(70-130)		
MS_201603110135	1,3-Dimethyl-2-nitrobenzene (S)			98.1	%	98	(70-130)		
LCS1	2,4-DDD		2	1.97	ug/L	99	(70-130)		
LCS2	2,4-DDD		2	2.00	ug/L	100	(70-130)	20	1.5
MBLK	2,4-DDD			<0.1	ug/L				
MRL_CHK	2,4-DDD		0.1	0.121	ug/L	121	(50-150)		
MS_201603110135	2,4-DDD	ND	2	1.88	ug/L	94	(70-130)		
LCS1	2,4-DDE		2	2.11	ug/L	106	(70-130)		
LCS2	2,4-DDE		2	2.10	ug/L	105	(70-130)	20	0.48
MBLK	2,4-DDE			<0.1	ug/L				
MRL_CHK	2,4-DDE		0.1	0.0930	ug/L	93	(50-150)		
MS_201603110135	2,4-DDE	ND	2	2.03	ug/L	101	(70-130)		
LCS1	2,4-DDT		2	2.19	ug/L	110	(70-130)		
LCS2	2,4-DDT		2	2.24	ug/L	112	(70-130)	20	2.3
MBLK	2,4-DDT			<0.1	ug/L				
MRL_CHK	2,4-DDT		0.1	0.0900	ug/L	90	(50-150)		
MS_201603110135	2,4-DDT	ND	2	2.10	ug/L	105	(70-130)		
LCS1	2,4-Dinitrotoluene		2	2.34	ug/L	117	(70-130)		
LCS2	2,4-Dinitrotoluene		2	2.37	ug/L	119	(70-130)	20	1.3
MBLK	2,4-Dinitrotoluene			<0.05	ug/L				
MRL_CHK	2,4-Dinitrotoluene		0.1	0.0950	ug/L	95	(50-150)		
MS_201603110135	2,4-Dinitrotoluene	ND	2	2.25	ug/L	112	(70-130)		
LCS1	2,6-Dinitrotoluene		2	2.25	ug/L	113	(70-130)		
LCS2	2,6-Dinitrotoluene		2	2.25	ug/L	112	(70-130)	20	0.0
MBLK	2,6-Dinitrotoluene			<0.05	ug/L				
MRL_CHK	2,6-Dinitrotoluene		0.1	0.0990	ug/L	99	(50-150)		
MS_201603110135	2,6-Dinitrotoluene	ND	2	2.13	ug/L	107	(70-130)		
LCS1	4,4-DDD		2	2.23	ug/L	111	(70-130)		
LCS2	4,4-DDD		2	2.26	ug/L	113	(70-130)	20	1.8
MBLK	4,4-DDD			<0.05	ug/L				
MRL_CHK	4,4-DDD		0.1	0.0980	ug/L	98	(50-150)		
MS_201603110135	4,4-DDD	ND	2	2.16	ug/L	108	(70-130)		
LCS1	4,4-DDE		2	2.03	ug/L	101	(70-130)		

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
(I) - Indicates internal standard compound.

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Report: 579888

Kauai County Water Department

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	4,4-DDE		2	2.01	ug/L	101	(70-130)	20	0.99
MBLK	4,4-DDE			<0.05	ug/L				
MRL_CHK	4,4-DDE		0.1	0.0930	ug/L	93	(50-150)		
MS_201603110135	4,4-DDE	ND	2	2.01	ug/L	100	(70-130)		
LCS1	4,4-DDT		2	2.26	ug/L	113	(70-130)		
LCS2	4,4-DDT		2	2.30	ug/L	115	(70-130)	20	1.8
MBLK	4,4-DDT			<0.05	ug/L				
MRL_CHK	4,4-DDT		0.1	0.0860	ug/L	86	(50-150)		
MS_201603110135	4,4-DDT	ND	2	2.20	ug/L	110	(70-130)		
LCS1	Acenaphthene		2	2.04	ug/L	102	(70-130)		
LCS2	Acenaphthene		2	2.03	ug/L	102	(70-130)	20	0.49
MBLK	Acenaphthene			<0.05	ug/L				
MRL_CHK	Acenaphthene		0.1	0.0960	ug/L	96	(50-150)		
MS_201603110135	Acenaphthene	ND	2	1.93	ug/L	97	(70-130)		
LCS1	Acenaphthene-d10 (I)			80.2	%	80	(50-150)		
LCS2	Acenaphthene-d10 (I)			94.0	%	94	(50-150)		
MBLK	Acenaphthene-d10 (I)			90.1	%	90	(50-150)		
MRL_CHK	Acenaphthene-d10 (I)			91.7	%	92	(50-150)		
MS_201603110135	Acenaphthene-d10 (I)			63.7	%	64	(50-150)		
LCS1	Acenaphthylene		2	1.25	ug/L	**63**	(70-130)		
LCS2	Acenaphthylene		2	1.58	ug/L	79	(70-130)	20	**23**
MBLK	Acenaphthylene			<0.05	ug/L				
MRL_CHK	Acenaphthylene		0.1	0.0540	ug/L	54	(50-150)		
MS_201603110135	Acenaphthylene	ND	2	1.33	ug/L	**67**	(70-130)		
LCS1	Acetochlor		2	2.28	ug/L	114	(70-130)		
LCS2	Acetochlor		2	2.30	ug/L	115	(70-130)	20	0.87
MBLK	Acetochlor			<0.05	ug/L				
MRL_CHK	Acetochlor		0.05	0.0490	ug/L	98	(50-150)		
MS_201603110135	Acetochlor	ND	2	2.06	ug/L	103	(70-130)		
LCS1	Alachlor		2	2.18	ug/L	109	(70-130)		
LCS2	Alachlor		2	2.08	ug/L	104	(70-130)	20	4.7
MBLK	Alachlor			<0.025	ug/L				
MRL_CHK	Alachlor		0.05	0.0440	ug/L	88	(50-150)		
MS_201603110135	Alachlor	ND	2	1.93	ug/L	97	(70-130)		
LCS1	Aldrin		2	1.11	ug/L	**56**	(70-130)		
LCS2	Aldrin		2	1.32	ug/L	**66**	(70-130)	20	17
MBLK	Aldrin			<0.025	ug/L				
MRL_CHK	Aldrin		0.05	0.0310	ug/L	62	(50-150)		

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Report: 579888

Kauai County Water Department

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201603110135	Aldrin	ND	2	1.30	ug/L	**65**	(70-130)		
LCS1	Alpha-BHC		2	2.13	ug/L	107	(70-130)		
LCS2	Alpha-BHC		2	2.13	ug/L	106	(70-130)	20	0.0
MBLK	Alpha-BHC			<0.05	ug/L				
MRL_CHK	Alpha-BHC		0.1	0.0880	ug/L	88	(50-150)		
MS_201603110135	Alpha-BHC	ND	2	2.05	ug/L	102	(70-130)		
LCS1	alpha-Chlordane		2	2.02	ug/L	101	(70-130)		
LCS2	alpha-Chlordane		2	2.00	ug/L	100	(70-130)	20	1.5
MBLK	alpha-Chlordane			<0.025	ug/L				
MRL_CHK	alpha-Chlordane		0.05	0.0540	ug/L	108	(50-150)		
MS_201603110135	alpha-Chlordane	ND	2	1.84	ug/L	92	(70-130)		
LCS1	Anthracene		2	1.95	ug/L	97	(70-130)		
LCS2	Anthracene		2	1.97	ug/L	98	(70-130)	20	1.0
MBLK	Anthracene			<0.02	ug/L				
MRL_CHK	Anthracene		0.02	0.0190	ug/L	95	(50-150)		
MS_201603110135	Anthracene	ND	2	1.91	ug/L	95	(70-130)		
LCS1	Atrazine		2	2.27	ug/L	114	(70-130)		
LCS2	Atrazine		2	2.25	ug/L	112	(70-130)	20	0.89
MBLK	Atrazine			<0.025	ug/L				
MRL_CHK	Atrazine		0.05	0.0430	ug/L	86	(50-150)		
MS_201603110135	Atrazine	ND	2	1.76	ug/L	88	(70-130)		
LCS1	Benz(a)Anthracene		2	2.22	ug/L	111	(70-130)		
LCS2	Benz(a)Anthracene		2	2.27	ug/L	113	(70-130)	20	2.2
MBLK	Benz(a)Anthracene			<0.025	ug/L				
MRL_CHK	Benz(a)Anthracene		0.05	0.0520	ug/L	104	(50-150)		
MS_201603110135	Benz(a)Anthracene	ND	2	2.18	ug/L	109	(70-130)		
LCS1	Benzo(a)pyrene		2	2.08	ug/L	104	(70-130)		
LCS2	Benzo(a)pyrene		2	2.16	ug/L	108	(70-130)	20	3.3
MBLK	Benzo(a)pyrene			<0.01	ug/L				
MRL_CHK	Benzo(a)pyrene		0.02	0.0130	ug/L	65	(50-150)		
MS_201603110135	Benzo(a)pyrene	ND	2	2.03	ug/L	102	(70-130)		
LCS1	Benzo(b)Fluoranthene		2	2.40	ug/L	120	(70-130)		
LCS2	Benzo(b)Fluoranthene		2	2.30	ug/L	115	(70-130)	20	4.3
MBLK	Benzo(b)Fluoranthene			<0.01	ug/L				
MRL_CHK	Benzo(b)Fluoranthene		0.02	0.0230	ug/L	115	(50-150)		
MS_201603110135	Benzo(b)Fluoranthene	ND	2	2.19	ug/L	110	(70-130)		
LCS1	Benzo(g,h,i)Perylene		2	2.56	ug/L	128	(70-130)		
LCS2	Benzo(g,h,i)Perylene		2	2.58	ug/L	129	(70-130)	20	0.78

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Benzo(g,h,i)Perylene			<0.025	ug/L				
MRL_CHK	Benzo(g,h,i)Perylene		0.05	0.0460	ug/L	92	(50-150)		
MS_201603110135	Benzo(g,h,i)Perylene	ND	2	2.32	ug/L	116	(70-130)		
LCS1	Benzo(k)Fluoranthene		2	2.21	ug/L	111	(70-130)		
LCS2	Benzo(k)Fluoranthene		2	2.32	ug/L	116	(70-130)	20	4.9
MBLK	Benzo(k)Fluoranthene			<0.01	ug/L				
MRL_CHK	Benzo(k)Fluoranthene		0.02	0.0230	ug/L	115	(50-150)		
MS_201603110135	Benzo(k)Fluoranthene	ND	2	2.10	ug/L	105	(70-130)		
LCS1	Beta-BHC		2	2.21	ug/L	110	(70-130)		
LCS2	Beta-BHC		2	2.27	ug/L	113	(70-130)	20	2.7
MBLK	Beta-BHC			<0.05	ug/L				
MRL_CHK	Beta-BHC		0.1	0.123	ug/L	123	(50-150)		
MS_201603110135	Beta-BHC	ND	2	2.12	ug/L	106	(70-130)		
LCS1	Bromacil		2	2.58	ug/L	129	(70-130)		
LCS2	Bromacil		2	2.34	ug/L	117	(70-130)	20	9.8
MBLK	Bromacil			<0.05	ug/L				
MRL_CHK	Bromacil		0.1	0.126	ug/L	126	(50-150)		
MS_201603110135	Bromacil	ND	2	2.38	ug/L	119	(70-130)		
LCS1	Butachlor		2	2.30	ug/L	115	(70-130)		
LCS2	Butachlor		2	2.27	ug/L	114	(70-130)	20	1.3
MBLK	Butachlor			<0.025	ug/L				
MRL_CHK	Butachlor		0.05	0.0490	ug/L	98	(50-150)		
MS_201603110135	Butachlor	ND	2	2.00	ug/L	100	(70-130)		
LCS1	Butylbenzylphthalate		2	2.55	ug/L	127	(70-130)		
LCS2	Butylbenzylphthalate		2	2.43	ug/L	122	(70-130)	20	4.8
MBLK	Butylbenzylphthalate			<0.15	ug/L				
MRL_CHK	Butylbenzylphthalate		0.15	0.173	ug/L	115	(50-150)		
MS_201603110135	Butylbenzylphthalate	ND	2	2.39	ug/L	120	(70-130)		
LCS1	Caffeine by method 525mod		2	2.02	ug/L	101	(45-137)		
LCS2	Caffeine by method 525mod		2	2.14	ug/L	107	(45-137)	20	5.8
MBLK	Caffeine by method 525mod			<0.01	ug/L				
MS_201603110135	Caffeine by method 525mod	ND	2	1.95	ug/L	98	(46-144)		
LCS1	Chlorobenzilate		2	2.36	ug/L	118	(70-130)		
LCS2	Chlorobenzilate		2	2.28	ug/L	114	(70-130)	20	3.5
MBLK	Chlorobenzilate			<0.05	ug/L				
MRL_CHK	Chlorobenzilate		0.1	0.109	ug/L	109	(50-150)		
MS_201603110135	Chlorobenzilate	ND	2	2.26	ug/L	113	(70-130)		
LCS1	Chloroneb		2	2.02	ug/L	101	(70-130)		

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Laboratory QC
Report: 579888

Kauai County Water Department

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Chloroneb		2	2.04	ug/L	102	(70-130)	20	0.99
MBLK	Chloroneb			<0.05	ug/L				
MRL_CHK	Chloroneb		0.1	0.103	ug/L	103	(50-150)		
MS_201603110135	Chloroneb	ND	2	1.93	ug/L	97	(70-130)		
LCS1	Chlorothalonil(Draconil,Bravo)		2	2.35	ug/L	117	(70-130)		
LCS2	Chlorothalonil(Draconil,Bravo)		2	2.30	ug/L	115	(70-130)	20	2.1
MBLK	Chlorothalonil(Draconil,Bravo)			<0.05	ug/L				
MRL_CHK	Chlorothalonil(Draconil,Bravo)		0.05	0.0530	ug/L	106	(50-150)		
MS_201603110135	Chlorothalonil(Draconil,Bravo)	ND	2	2.20	ug/L	110	(70-130)		
LCS1	Chlorpyrifos (Dursban)		2	2.23	ug/L	111	(70-130)		
LCS2	Chlorpyrifos (Dursban)		2	2.16	ug/L	108	(70-130)	20	3.2
MBLK	Chlorpyrifos (Dursban)			<0.025	ug/L				
MRL_CHK	Chlorpyrifos (Dursban)		0.05	0.0470	ug/L	94	(50-150)		
MS_201603110135	Chlorpyrifos (Dursban)	ND	2	2.09	ug/L	105	(70-130)		
LCS1	Chrysene		2	2.09	ug/L	105	(70-130)		
LCS2	Chrysene		2	2.02	ug/L	101	(70-130)	20	3.4
MBLK	Chrysene			<0.01	ug/L				
MRL_CHK	Chrysene		0.02	0.0230	ug/L	115	(50-150)		
MS_201603110135	Chrysene	ND	2	1.92	ug/L	96	(70-130)		
LCS1	Chrysene-d12 (I)			91.8	%	92	(50-150)		
LCS2	Chrysene-d12 (I)			110	%	110	(50-150)		
MBLK	Chrysene-d12 (I)			102	%	102	(50-150)		
MRL_CHK	Chrysene-d12 (I)			104	%	104	(50-150)		
MS_201603110135	Chrysene-d12 (I)			75.9	%	76	(50-150)		
LCS1	Delta-BHC		2	2.15	ug/L	107	(70-130)		
LCS2	Delta-BHC		2	2.11	ug/L	105	(70-130)	20	1.9
MBLK	Delta-BHC			<0.05	ug/L				
MRL_CHK	Delta-BHC		0.1	0.101	ug/L	101	(50-150)		
MS_201603110135	Delta-BHC	ND	2	1.96	ug/L	98	(70-130)		
LCS1	Di-(2-Ethylhexyl)adipate		2	2.16	ug/L	108	(70-130)		
LCS2	Di-(2-Ethylhexyl)adipate		2	2.18	ug/L	109	(70-130)	20	0.92
MBLK	Di-(2-Ethylhexyl)adipate			<0.15	ug/L				
MRL_CHK	Di-(2-Ethylhexyl)adipate		0.3	0.292	ug/L	97	(50-150)		
MS_201603110135	Di-(2-Ethylhexyl)adipate	ND	2	2.04	ug/L	102	(70-130)		
LCS1	Di(2-Ethylhexyl)phthalate		2	2.04	ug/L	102	(70-130)		
LCS2	Di(2-Ethylhexyl)phthalate		2	2.04	ug/L	102	(70-130)	20	0.0
MBLK	Di(2-Ethylhexyl)phthalate			<0.15	ug/L				
MRL_CHK	Di(2-Ethylhexyl)phthalate		0.6	0.662	ug/L	110	(50-150)		

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Laboratory QC
Report: 579888

Kauai County Water Department

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201603110135	Di(2-Ethylhexyl)phthalate	ND	2	1.71	ug/L	86	(70-130)		
LCS1	Diazinon (Qualitative)		2	2.02	ug/L	101	(70-130)		
LCS2	Diazinon (Qualitative)		2	2.01	ug/L	100	(70-130)	20	0.50
MBLK	Diazinon (Qualitative)			<0.10	ug/L				
MRL_CHK	Diazinon (Qualitative)		0.1	0.0890	ug/L	89	(50-150)		
MS_201603110135	Diazinon (Qualitative)	ND	2	1.64	ug/L	82	(70-130)		
LCS1	Dibenz(a,h)Anthracene		2	2.55	ug/L	127	(70-130)		
LCS2	Dibenz(a,h)Anthracene		2	2.64	ug/L	**132**	(70-130)	20	3.5
MBLK	Dibenz(a,h)Anthracene			<0.025	ug/L				
MRL_CHK	Dibenz(a,h)Anthracene		0.05	0.0580	ug/L	116	(50-150)		
MS_201603110135	Dibenz(a,h)Anthracene	ND	2	2.45	ug/L	123	(70-130)		
LCS1	Dichlorvos (DDVP)		2	2.22	ug/L	111	(70-130)		
LCS2	Dichlorvos (DDVP)		2	2.22	ug/L	111	(70-130)	20	0.0
MBLK	Dichlorvos (DDVP)			<0.025	ug/L				
MRL_CHK	Dichlorvos (DDVP)		0.05	0.0500	ug/L	100	(50-150)		
MS_201603110135	Dichlorvos (DDVP)	ND	2	2.04	ug/L	102	(70-130)		
LCS1	Dieldrin		2	2.14	ug/L	107	(70-130)		
LCS2	Dieldrin		2	2.12	ug/L	106	(70-130)	20	0.47
MBLK	Dieldrin			<0.05	ug/L				
MRL_CHK	Dieldrin		0.1	0.109	ug/L	109	(50-150)		
MS_201603110135	Dieldrin	ND	2	2.00	ug/L	100	(70-130)		
LCS1	Diethylphthalate		2	2.14	ug/L	107	(70-130)		
LCS2	Diethylphthalate		2	2.16	ug/L	108	(70-130)	20	0.93
MBLK	Diethylphthalate			<0.15	ug/L				
MRL_CHK	Diethylphthalate		0.15	0.150	ug/L	100	(50-150)		
MS_201603110135	Diethylphthalate	ND	2	2.10	ug/L	105	(70-130)		
LCS1	Dimethoate		2	2.09	ug/L	**105**	(35-100)		
LCS2	Dimethoate		2	2.17	ug/L	**108**	(35-100)	20	3.8
MBLK	Dimethoate			<0.05	ug/L				
MRL_CHK	Dimethoate		0.1	0.0980	ug/L	98	(35-100)		
MS_201603110135	Dimethoate	ND	2	1.88	ug/L	94	(34-111)		
LCS1	Dimethylphthalate		2	2.15	ug/L	107	(70-130)		
LCS2	Dimethylphthalate		2	2.14	ug/L	107	(70-130)	20	0.47
MBLK	Dimethylphthalate			<0.15	ug/L				
MRL_CHK	Dimethylphthalate		0.3	0.299	ug/L	100	(50-150)		
MS_201603110135	Dimethylphthalate	ND	2	2.05	ug/L	103	(70-130)		
LCS1	Di-n-Butylphthalate		4	4.69	ug/L	117	(70-130)		
LCS2	Di-n-Butylphthalate		4	4.67	ug/L	117	(70-130)	20	0.43

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Report: 579888

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Di-n-Butylphthalate			<0.15	ug/L				
MRL_CHK	Di-n-Butylphthalate		0.3	0.322	ug/L	107	(50-150)		
MS_201603110135	Di-n-Butylphthalate	ND	4	4.45	ug/L	111	(70-130)		
LCS1	Di-N-octylphthalate		2	2.03	ug/L	101	(70-130)		
LCS2	Di-N-octylphthalate		2	2.09	ug/L	105	(70-130)	20	2.9
MBLK	Di-N-octylphthalate			<0.05	ug/L				
MRL_CHK	Di-N-octylphthalate		0.1	0.0990	ug/L	99	(50-150)		
MS_201603110135	Di-N-octylphthalate	ND	2	1.74	ug/L	87	(70-130)		
LCS1	Endosulfan I (Alpha)		2	2.04	ug/L	102	(70-130)		
LCS2	Endosulfan I (Alpha)		2	2.04	ug/L	102	(70-130)	20	0.49
MBLK	Endosulfan I (Alpha)			<0.05	ug/L				
MRL_CHK	Endosulfan I (Alpha)		0.1	0.0830	ug/L	83	(50-150)		
MS_201603110135	Endosulfan I (Alpha)	ND	2	1.88	ug/L	94	(70-130)		
LCS1	Endosulfan II (Beta)		2	2.20	ug/L	110	(70-130)		
LCS2	Endosulfan II (Beta)		2	2.20	ug/L	110	(70-130)	20	0.0
MBLK	Endosulfan II (Beta)			<0.05	ug/L				
MRL_CHK	Endosulfan II (Beta)		0.1	0.119	ug/L	119	(50-150)		
MS_201603110135	Endosulfan II (Beta)	ND	2	2.18	ug/L	109	(70-130)		
LCS1	Endosulfan Sulfate		2	2.45	ug/L	122	(70-130)		
LCS2	Endosulfan Sulfate		2	2.32	ug/L	116	(70-130)	20	5.5
MBLK	Endosulfan Sulfate			<0.05	ug/L				
MRL_CHK	Endosulfan Sulfate		0.1	0.0880	ug/L	88	(50-150)		
MS_201603110135	Endosulfan Sulfate	ND	2	2.00	ug/L	100	(70-130)		
LCS1	Endrin		2	2.34	ug/L	117	(70-130)		
LCS2	Endrin		2	2.36	ug/L	118	(70-130)	20	0.43
MBLK	Endrin			<0.05	ug/L				
MRL_CHK	Endrin		0.1	0.110	ug/L	110	(50-150)		
MS_201603110135	Endrin	ND	2	1.81	ug/L	91	(70-130)		
LCS1	Endrin Aldehyde		2	2.26	ug/L	113	(70-130)		
LCS2	Endrin Aldehyde		2	2.18	ug/L	109	(70-130)	20	3.6
MBLK	Endrin Aldehyde			<0.05	ug/L				
MRL_CHK	Endrin Aldehyde		0.1	0.100	ug/L	100	(50-150)		
MS_201603110135	Endrin Aldehyde	ND	2	1.62	ug/L	81	(70-130)		
LCS1	EPTC		2	2.10	ug/L	105	(70-130)		
LCS2	EPTC		2	2.10	ug/L	105	(70-130)	20	0.0
MBLK	EPTC			<0.05	ug/L				
MRL_CHK	EPTC		0.1	0.109	ug/L	109	(50-150)		
MS_201603110135	EPTC	ND	2	2.04	ug/L	102	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Fluoranthene		2	2.21	ug/L	111	(70-130)		
LCS2	Fluoranthene		2	2.21	ug/L	111	(70-130)	20	0.0
MBLK	Fluoranthene			<0.05	ug/L				
MRL_CHK	Fluoranthene		0.05	0.0520	ug/L	104	(50-150)		
MS_201603110135	Fluoranthene	ND	2	2.14	ug/L	107	(70-130)		
LCS1	Fluorene		2	2.16	ug/L	108	(70-130)		
LCS2	Fluorene		2	2.12	ug/L	106	(70-130)	20	1.9
MBLK	Fluorene			<0.05	ug/L				
MRL_CHK	Fluorene		0.05	0.0540	ug/L	108	(50-150)		
MS_201603110135	Fluorene	ND	2	2.06	ug/L	103	(70-130)		
LCS1	gamma-Chlordane		2	1.98	ug/L	99	(70-130)		
LCS2	gamma-Chlordane		2	1.97	ug/L	98	(70-130)	20	0.51
MBLK	gamma-Chlordane			<0.025	ug/L				
MRL_CHK	gamma-Chlordane		0.05	0.0490	ug/L	98	(50-150)		
MS_201603110135	gamma-Chlordane	ND	2	1.84	ug/L	92	(70-130)		
LCS1	Heptachlor		2	1.99	ug/L	100	(70-130)		
LCS2	Heptachlor		2	1.96	ug/L	98	(70-130)	20	1.5
MBLK	Heptachlor			<0.015	ug/L				
MRL_CHK	Heptachlor		0.04	0.0440	ug/L	110	(50-150)		
MS_201603110135	Heptachlor	ND	2	1.82	ug/L	91	(70-130)		
LCS1	Heptachlor Epoxide (isomer B)		2	2.13	ug/L	107	(70-130)		
LCS2	Heptachlor Epoxide (isomer B)		2	2.07	ug/L	103	(70-130)	20	2.9
MBLK	Heptachlor Epoxide (isomer B)			<0.025	ug/L				
MRL_CHK	Heptachlor Epoxide (isomer B)		0.05	0.0520	ug/L	104	(50-150)		
MS_201603110135	Heptachlor Epoxide (isomer B)	ND	2	1.91	ug/L	95	(70-130)		
LCS1	Hexachlorobenzene		2	1.96	ug/L	98	(70-130)		
LCS2	Hexachlorobenzene		2	1.96	ug/L	98	(70-130)	20	0.0
MBLK	Hexachlorobenzene			<0.025	ug/L				
MRL_CHK	Hexachlorobenzene		0.05	0.0490	ug/L	98	(50-150)		
MS_201603110135	Hexachlorobenzene	ND	2	1.93	ug/L	97	(70-130)		
LCS1	Hexachlorocyclopentadiene		2	2.40	ug/L	120	(70-130)		
LCS2	Hexachlorocyclopentadiene		2	2.38	ug/L	119	(70-130)	20	0.84
MBLK	Hexachlorocyclopentadiene			<0.025	ug/L				
MRL_CHK	Hexachlorocyclopentadiene		0.05	0.0780	ug/L	**156**	(50-150)		
MS_201603110135	Hexachlorocyclopentadiene	ND	2	2.34	ug/L	117	(70-130)		
LCS1	Indeno(1,2,3,c,d)Pyrene		2	2.49	ug/L	125	(70-130)		
LCS2	Indeno(1,2,3,c,d)Pyrene		2	2.59	ug/L	130	(70-130)	20	3.9
MBLK	Indeno(1,2,3,c,d)Pyrene			<0.025	ug/L				

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Indeno(1,2,3,c,d)Pyrene		0.05	0.0500	ug/L	100	(50-150)		
MS_201603110135	Indeno(1,2,3,c,d)Pyrene	ND	2	2.36	ug/L	118	(70-130)		
LCS1	Isophorone		2	2.30	ug/L	115	(70-130)		
LCS2	Isophorone		2	2.30	ug/L	115	(70-130)	20	0.0
MBLK	Isophorone			<0.25	ug/L				
MRL_CHK	Isophorone		0.1	0.102	ug/L	102	(50-150)		
MS_201603110135	Isophorone	ND	2	2.16	ug/L	108	(70-130)		
LCS1	Lindane		2	2.14	ug/L	107	(70-130)		
LCS2	Lindane		2	2.13	ug/L	106	(70-130)	20	0.47
MBLK	Lindane			<0.02	ug/L				
MRL_CHK	Lindane		0.04	0.0390	ug/L	98	(50-150)		
MS_201603110135	Lindane	ND	2	1.98	ug/L	99	(70-130)		
LCS1	Malathion		2	2.36	ug/L	118	(70-130)		
LCS2	Malathion		2	2.28	ug/L	114	(70-130)	20	3.5
MBLK	Malathion			<0.05	ug/L				
MRL_CHK	Malathion		0.1	0.104	ug/L	104	(50-150)		
MS_201603110135	Malathion	ND	2	2.19	ug/L	109	(70-130)		
LCS1	Methoxychlor		2	2.21	ug/L	111	(70-130)		
LCS2	Methoxychlor		2	2.17	ug/L	108	(70-130)	20	1.8
MBLK	Methoxychlor			<0.05	ug/L				
MRL_CHK	Methoxychlor		0.1	0.106	ug/L	106	(50-150)		
MS_201603110135	Methoxychlor	ND	2	2.08	ug/L	104	(70-130)		
LCS1	Metolachlor		2	2.21	ug/L	110	(70-130)		
LCS2	Metolachlor		2	2.19	ug/L	110	(70-130)	20	0.91
MBLK	Metolachlor			<0.025	ug/L				
MRL_CHK	Metolachlor		0.05	0.0520	ug/L	104	(50-150)		
MS_201603110135	Metolachlor	ND	2	2.02	ug/L	101	(70-130)		
LCS1	Metribuzin		2	2.22	ug/L	111	(70-130)		
LCS2	Metribuzin		2	2.23	ug/L	112	(70-130)	20	0.45
MBLK	Metribuzin			<0.05	ug/L				
MRL_CHK	Metribuzin		0.05	0.0500	ug/L	100	(50-150)		
MS_201603110135	Metribuzin	ND	2	1.98	ug/L	99	(70-130)		
LCS1	Molinate		2	2.14	ug/L	107	(70-130)		
LCS2	Molinate		2	2.12	ug/L	106	(70-130)	20	0.94
MBLK	Molinate			<0.05	ug/L				
MRL_CHK	Molinate		0.1	0.102	ug/L	102	(50-150)		
MS_201603110135	Molinate	ND	2	2.10	ug/L	105	(70-130)		
LCS1	Naphthalene		2	2.00	ug/L	100	(70-130)		

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
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Laboratory QC
Report: 579888

Kauai County Water Department

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Naphthalene		2	1.98	ug/L	99	(70-130)	20	1.0
MBLK	Naphthalene			<0.05	ug/L				
MRL_CHK	Naphthalene		0.1	0.0960	ug/L	96	(50-150)		
MS_201603110135	Naphthalene	ND	2	1.91	ug/L	96	(70-130)		
LCS1	Parathion		2	2.17	ug/L	109	(70-130)		
LCS2	Parathion		2	2.24	ug/L	112	(70-130)	20	3.2
MBLK	Parathion			<0.05	ug/L				
MRL_CHK	Parathion		0.1	0.102	ug/L	102	(50-150)		
MS_201603110135	Parathion	ND	2	2.06	ug/L	103	(70-130)		
LCS1	Pendimethalin		2	2.25	ug/L	112	(70-130)		
LCS2	Pendimethalin		2	2.27	ug/L	113	(70-130)	20	0.89
MBLK	Pendimethalin			<0.05	ug/L				
MRL_CHK	Pendimethalin		0.1	0.109	ug/L	109	(50-150)		
MS_201603110135	Pendimethalin	ND	2	2.11	ug/L	106	(70-130)		
LCS1	Pentachlorophenol		8	11.0	ug/L	**138**	(70-130)		
LCS2	Pentachlorophenol		8	10.8	ug/L	**135**	(70-130)	20	1.8
MBLK	Pentachlorophenol			<0.6	ug/L				
MRL_CHK	Pentachlorophenol		0.5	0.992	ug/L	**198**	(50-150)		
MS_201603110135	Pentachlorophenol	ND	8	11.5	ug/L	**143**	(70-130)		
LCS1	Permethrin (mixed isomers)		4	4.16	ug/L	104	(70-130)		
LCS2	Permethrin (mixed isomers)		4	4.20	ug/L	105	(70-130)	20	0.96
MBLK	Permethrin (mixed isomers)			<0.1	ug/L				
MRL_CHK	Permethrin (mixed isomers)		0.15	0.212	ug/L	141	(50-150)		
MS_201603110135	Permethrin (mixed isomers)	ND	4	3.93	ug/L	98	(70-130)		
LCS1	Perylene-d12 (S)			91.9	%	92	(70-130)		
LCS2	Perylene-d12 (S)			96.7	%	97	(70-130)		
MBLK	Perylene-d12 (S)			83.8	%	84	(70-130)		
MRL_CHK	Perylene-d12 (S)			79.7	%	80	(70-130)		
MS_201603110135	Perylene-d12 (S)			98.1	%	98	(70-130)		
LCS1	Phenanthrene		2	1.96	ug/L	98	(70-130)		
LCS2	Phenanthrene		2	1.96	ug/L	98	(70-130)	20	0.0
MBLK	Phenanthrene			<0.02	ug/L				
MRL_CHK	Phenanthrene		0.02	0.0250	ug/L	125	(50-150)		
MS_201603110135	Phenanthrene	ND	2	1.91	ug/L	95	(70-130)		
LCS1	Phenanthrene-d10 (I)			82.5	%	83	(50-150)		
LCS2	Phenanthrene-d10 (I)			96.9	%	97	(50-150)		
MBLK	Phenanthrene-d10 (I)			93.9	%	94	(50-150)		
MRL_CHK	Phenanthrene-d10 (I)			95.2	%	95	(50-150)		

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RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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Report: 579888

Kauai County Water Department

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201603110135	Phenanthrene-d10 (I)			66.0	%	66	(50-150)		
LCS1	Propachlor		2	2.01	ug/L	100	(70-130)		
LCS2	Propachlor		2	2.03	ug/L	102	(70-130)	20	0.99
MBLK	Propachlor			<0.025	ug/L				
MRL_CHK	Propachlor		0.05	0.0630	ug/L	126	(50-150)		
MS_201603110135	Propachlor	ND	2	1.95	ug/L	97	(70-130)		
LCS1	Pyrene		2	2.27	ug/L	113	(70-130)		
LCS2	Pyrene		2	2.26	ug/L	113	(70-130)	20	0.44
MBLK	Pyrene			<0.025	ug/L				
MRL_CHK	Pyrene		0.05	0.0500	ug/L	100	(50-150)		
MS_201603110135	Pyrene	ND	2	2.19	ug/L	110	(70-130)		
LCS1	Simazine		2	2.29	ug/L	115	(70-130)		
LCS2	Simazine		2	2.24	ug/L	112	(70-130)	20	2.2
MBLK	Simazine			<0.025	ug/L				
MRL_CHK	Simazine		0.05	0.0670	ug/L	134	(50-150)		
MS_201603110135	Simazine	ND	2	1.61	ug/L	81	(70-130)		
LCS1	Terbacil		2	2.47	ug/L	123	(70-130)		
LCS2	Terbacil		2	2.37	ug/L	119	(70-130)	20	4.1
MBLK	Terbacil			<0.05	ug/L				
MRL_CHK	Terbacil		0.1	0.149	ug/L	149	(50-150)		
MS_201603110135	Terbacil	ND	2	1.97	ug/L	98	(70-130)		
LCS1	Terbuthylazine		2	2.26	ug/L	113	(70-130)		
LCS2	Terbuthylazine		2	2.20	ug/L	110	(70-130)	20	2.2
MBLK	Terbuthylazine			<0.2	ug/L				
MRL_CHK	Terbuthylazine		0.1	0.0780	ug/L	78	(50-150)		
MS_201603110135	Terbuthylazine	ND	2	1.68	ug/L	84	(70-130)		
LCS1	Thiobencarb		2	2.20	ug/L	110	(70-130)		
LCS2	Thiobencarb		2	2.21	ug/L	111	(70-130)	20	0.45
MBLK	Thiobencarb			<0.1	ug/L				
MRL_CHK	Thiobencarb		0.1	0.0860	ug/L	86	(50-150)		
MS_201603110135	Thiobencarb	ND	2	2.16	ug/L	108	(70-130)		
LCS1	trans-Nonachlor		2	2.03	ug/L	101	(70-130)		
LCS2	trans-Nonachlor		2	1.97	ug/L	99	(70-130)	20	3.0
MBLK	trans-Nonachlor			<0.025	ug/L				
MRL_CHK	trans-Nonachlor		0.05	0.0560	ug/L	112	(50-150)		
MS_201603110135	trans-Nonachlor	ND	2	1.91	ug/L	96	(70-130)		
LCS1	Trifluralin		2	2.18	ug/L	109	(70-130)		
LCS2	Trifluralin		2	2.20	ug/L	110	(70-130)	20	0.91

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Laboratory QC
Report: 579888

Kauai County Water Department

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Trifluralin			<0.05	ug/L				
MRL_CHK	Trifluralin		0.1	0.0970	ug/L	97	(50-150)		
MS_201603110135	Trifluralin	ND	2	2.04	ug/L	102	(70-130)		
LCS1	Triphenylphosphate (S)			111	%	111	(70-130)		
LCS2	Triphenylphosphate (S)			111	%	111	(70-130)		
MBLK	Triphenylphosphate (S)			110	%	110	(70-130)		
MRL_CHK	Triphenylphosphate (S)			109	%	109	(70-130)		
MS_201603110135	Triphenylphosphate (S)			107	%	107	(70-130)		

Spike recovery is already corrected for native results.
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Mel Rapozo, Chair
Ross Kagawa, Vice Chair
Mason K. Chock
Gary L. Hooser
Arryl Kaneshiro
KipuKai Kuali'i
JoAnn A. Yukimura

16 MAR 16 A11:30

DEPT. OF WATER
COUNTY OF KAUAI

OFFICE OF THE COUNTY CLERK

Jade K. Fountain-Tanigawa, County Clerk
Scott K. Sato, Deputy County Clerk

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Council Services Division
4396 Rice Street, Suite 209
Līhu'e, Kaua'i, Hawai'i 96766

MEMORANDUM

March 15, 2016

TO: Kirk Saiki, Manager & Chief Engineer, Department of Water

FROM: Gary L. Hooser, Councilmember

VIA: Mel Rapozo, Council Chair

RE: SECOND FOLLOW-UP TO REQUEST FOR DATA REGARDING TESTING FOR CHLORPYRIFOS

This is to reiterate my prior requests (See Attached) that the Department of Water (DOW) test Kaua'i drinking water for chlorpyrifos. In addition to other materials brought to DOW's attention, I would further like to direct DOW to the recent Draft Final Report released by the Joint Fact-Finding Group (JFFG). As you know, the JFFG and its report were commissioned through a partnership between the Hawai'i State Department of Agriculture (HDOA) and the County of Kaua'i. The Draft Final Report has offered numerous recommendations for action, including, notably, the following:

"**Kaua'i Department of Water**
Test for the presence of Chlorpyrifos in Kaua'i's drinking water systems."

Given the degree of community concern, the previously-discussed EPA findings, the fact that intensive cultivation of corn occurs on Kaua'i, and now the State and County's JFFG Draft Final Report recommendations for your Department, I again request that DOW move forward in testing water systems.

A response summarizing DOW's plan for action is requested by March 29, 2016. Should you have any questions, please feel free to contact the Office of the County Clerk, Council Services Division, at 241-4188.

JA:lc
Attachments
cc: Bernard P. Carvalho, Jr., Mayor

COUNTY COUNCIL
Mel Rapozo, Chair
Ross Kagawa, Vice Chair
Mason K. Chock
Gary L. Hooser
Arryl Kaneshiro
KipuKai Kuali'i
JoAnn A. Yukimura

OFFICE OF THE COUNTY CLERK

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MEMORANDUM

November 27, 2015

TO: Kirk Saiki, Department of Water Manager & Chief Engineer

FROM: Gary L. Hooser, Councilmember

VIA: Mel Rapozo, Council Chair

RE: FOLLOW-UP TO REQUEST FOR DATA REGARDING TESTING FOR CHLORPYRIFOS

Thank you for your November 16, 2015 response to my November 2, 2015 memorandum (See Attached). Your response indicates that the Department of Water (DOW) has concluded, in spite of the Environmental Protection Agency (EPA) findings, that there is no risk of chlorpyrifos water contamination and thus no reason to test Kaua'i drinking water at this time.

I strongly encourage you and/or the appropriate DOW staff to actually review the EPA report (http://www2.epa.gov/ingredients-used-pesticide-products/proposal-revoke-chlorpyrifos-food-residue-tolerances#drinkingwater), and I request that the DOW reconsider its decision.

Of particular importance, the EPA report states in part:

> "EPA is proposing to revoke all food residue tolerances for the insecticide chlorpyrifos. At this time, EPA is unable to make a safety finding as required under the Federal Food, Drug, and Cosmetic Act (FFDCA). Based on EPA's current analysis, there do not appear to be risks from exposure to chlorpyrifos from food, **but, when that exposure is combined with estimated exposure from drinking water in certain watersheds, EPA cannot conclude that the risk from the potential aggregate exposure meets the FFDCA safety standard**." (Emphases added).

The EPA report further states: "EPA's 2014 revised human health risk assessment showed the **potential for risks in small watersheds with high concentrations of farming where chlorpyrifos may be widely used**." (Emphasis added).

Thank you in advance for taking a second look at your decision not to test Kaua'i's drinking water for chlorpyrifos. Given the degree of community concern, the EPA findings, and the fact that intensive cultivation of corn occurs on Kaua'i, I would hope that DOW in an abundance of caution, would move forward in testing the water systems.

Additionally, it is my understanding that my original memorandum and the DOW response was forwarded to third-parties, including Peter Adler. Therefore, I would like to request that this follow-up memorandum also be forwarded to those same parties and that the DOW provide me with a list of those individuals and/or organizations.

A response by December 11, 2015 is requested. Should you have any questions, please feel free to contact the Office of the County Clerk, Council Services Division, at 241-4188.

JA:lc
Attachments
cc: Nadine K. Nakamura, Managing Director
Andrea A. Suzuki, Deputy County Attorney

Department of Water County of Kaua'i

4398 Pua Loke Street, P. O. Box 1706
Lihue, Kauai, Hawaii 96766
Eng. & Fiscal FAX No.: 808-245-5813
Shop FAX No.: 808-245-5402
Administration FAX No.: 808-246-8628

MEMO

To: Gary L. Hooser
Councilmember

From: Kirk Saiki, P.E.
Manager & Chief Engineer

CC: Andrea A. Suzuki, Deputy County Attorney
Nadine Nakamura, Managing Director

Date: November 16, 2015

RECEIVED
'15 NOV 18 P 1:24
OFFICE OF THE COUNTY CLERK COUNTY OF KAUA'I

RE: REQUEST FOR DATA REGARDING TESTING FOR CHLORPYRIFOS

Thank you for your letter dated November 2, 2015 requesting Department of Water (DOW) data regarding testing for chlorpyrifos.

Chlorpyrifos is an organophosphate pesticide. The Environmental Protection Agency (EPA) has set a guideline for chlorpyrifos in drinking water at 2 ug/l (micrograms per liter or parts per billion), but has not set a Drinking Water Standard likely due to the fact that chlorpyrifos exhibits a low solubility in water.

DOW does not test for chlorpyrifos; therefore, data is not available.

DOW also consulted with the State Department of Health (DOH) to determine if there was a concern about chlorpyrifos contamination of the groundwater on Kauai. DOH provided the following information:

1. Largest agricultural use is on corn.
2. Chlorpyrifos is applied to the plant not the ground; therefore, it has more potential to drift than to fall to the ground.
3. Chlorpyrifos has a short half-life (51 days).
4. The CLERS Model, developed by University of Hawaii and DOH predicts the leaching potential of pesticides, shows the chance of groundwater contamination by chlorpyrifos on Kauai to be unlikely.

Because of the current low probability of groundwater contamination by chlorpyrifos, DOW does not have immediate plans to test the groundwater for chlorpyrifos. DOW will continue to work closely with DOH to determine if this situation changes.

If you have any questions, please call me at 245-5408.

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MEMORANDUM

November 2, 2015

TO: Kirk Saiki, Department of Water Manager & Chief Engineer

FROM: Gary L. Hooser, Councilmember

VIA: Mel Rapozo, Council Chair

RE: REQUEST FOR DATA REGARDING TESTING FOR CHLORPYRIFOS

This is to request data regarding whether the Department of Water (DOW) tests Kaua'i drinking water for Chlorpyrifos. If no such testing is conducted, please explain. If DOW tests for Chlorpyrifos, please indicate: (1) if any detectable levels have been found, and if so (2) where and (3) when.

Please note that I am aware of the following: "Local authorities are not required by EPA to test for chlorpyrifos, since EPA has no federal drinking water regulation for chlorpyrifos. However, some local authorities do test for contaminants beyond federal drinking water regulations" (http://www2.epa.gov/ingredients-used-pesticide-products/proposal-revoke-chlorpyrifos-food-residue-tolerances).

Furthermore, if DOW does not test Kaua'i drinking water for Chlorpyrifos, I am requesting that DOW consider doing so at the earliest possible opportunity.

A response by November 16, 2015 is requested. Should you have any questions, please feel free to contact the Office of the County Clerk, Council Services Division at 241-4188.

JA:lc
cc: Nadine K. Nakamura, Managing Director