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February 22, 2012

Mr. Philip Isorena
State Water Resources Control Board
Division of Water Quality, 15th Floor
1001 I Street
Sacramento, CA. 95814

Re: Order No. 2011-0002-DWQ – NPDES NO. CAG 990004 – November - December
2011 Annual Report

Dear Mr. Isorena:

With this letter, please find the Marin Sonoma Mosquito and Vector Control District's (MSMVCD) annual report for 2011 regarding the NPDES permit referenced above. As you are aware, the permit became effective November 1, 2011 so the annual report provides information for November and December 2011.

MSMVCD was in compliance with the permit in 2011; there were no violations. The best management practices (BMPs) outlined in MSMVCD's Pesticide Application Plan (PAP) were appropriate and coincided with an Integrated Vector Management Program. The BMPs in MSMVCD's current PAP will continue to be utilized in 2012.

MSMVCD conducted visual monitoring in conjunction with the application of a larvicide at three locations in November and December 2011. The three sites consisted of a pond, hayfield ditch, and a drainage ditch respectively. The visual monitoring indicated that there no observable changes relative to water quality in conjunction with the larvicide applications (see attached monitoring sheet, Attachment A).

The BMPs currently included in MSMVCD's PAP were effective in 2011 and are expected to be effective and consistent with an Integrated Vector Management Program in 2012. Such BMPs for example, include: public relations/education, mosquito source reduction, biological control (e.g. mosquito fish), calibration of mosquito adulticide and larvicide equipment, and pesticide spill and spill prevention training.

At this time, there are no recommendations for BMP modifications given that there were no violations of the permit in 2011. Please see the maps included with this letter depicting the larvicide application areas in Marin and Sonoma counties (Attachments B and C).

The dosage, concentrations, and amounts of the larvicides applied were derived from the product labels. Please see the application log included with this letter (Attachment D).

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that

qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Respectfully,

A handwritten signature in blue ink that reads "Erik Hawk". The signature is written in a cursive style with a long horizontal flourish at the end.

Erik Hawk
Assistant Manager

Marin/Sonoma Mosquito and Vector Control District

2011 NPDES Annual Report

Order # 2011-0002-DWQ NPDES # CAG 990004

1. Annual Report

a. Executive Summary

MSMVCD was in compliance with the NPDES permit in 2011, there were no violations. The best management practices (BMPs) outlined in MSMVCD's Pesticide Application Plan (PAP) were appropriate and coincided with the District's Integrated Vector Management Program. The BMPs in MSMVCD's current PAP will continue to be utilized in 2012.

MSMVCD conducted visual monitoring in conjunction with the application of mosquito larvicides at three locations in November and December 2011. The application sites monitored included a pond, a hayfield ditch, and a drainage ditch. The visual monitoring indicated that there no observable changes relative to water quality in conjunction with the larvicide applications (see Attachment A).

b. Summary of Monitoring Data

The visual monitoring performed at the aforementioned sites indicated that there no observable changes relative to water quality in conjunction with the larvicide applications (see Attachment A). Submission of the MVCAC Coalition annual report has been delayed until March 2013. The Coalition report will include the summary of all physical and chemical monitoring to date as highlighted in the permit.

c. BMP Identification

The BMPs currently in place in MSMVCD's PAP were effective in 2011 and are expected to be effective and consistent with an Integrated Vector Management Program in 2012. Such BMPs for example, include: public relations/education, mosquito source reduction, biological control (e.g. mosquito fish), calibration of mosquito adulticide and larvicide equipment, and pesticide spill and spill prevention training.

d. Violation Discussion

No violations of the NPDES Permit were observed.

e. Map of Applications

Please see Attachments B and C - Maps of Marin and Sonoma County depicting larvicide application areas for November and December 2011.

f. Log of Applications made to Waters of the U.S.

Please see Attachment D which includes application data for November and December 2011.

g. General Information on Applications

The dosage, concentrations, and amounts of the larvicides applied were derived from the product labels. Please see the application log (Attachment D).

- h. Visual Monitoring Data
Please see Attachment A.
 - i. BMP; PAP; Monitoring Program Recommendations
Given that the NPDES permit began in November 2011, a relatively small number of applications were performed by MSMVCD during this time, and there were no permit violations, there are currently no recommendations for improvement to the current BMPs, PAP, or monitoring plan.
 - j. Pesticide Application Log made to Waters of the U.S.
A representation of the pesticide application log is presented in Attachment D.
- 2. Updated PAP Components
N/A
 - 3. Self Monitoring Reports
N/A
 - 4. Monitoring Reports
N/A

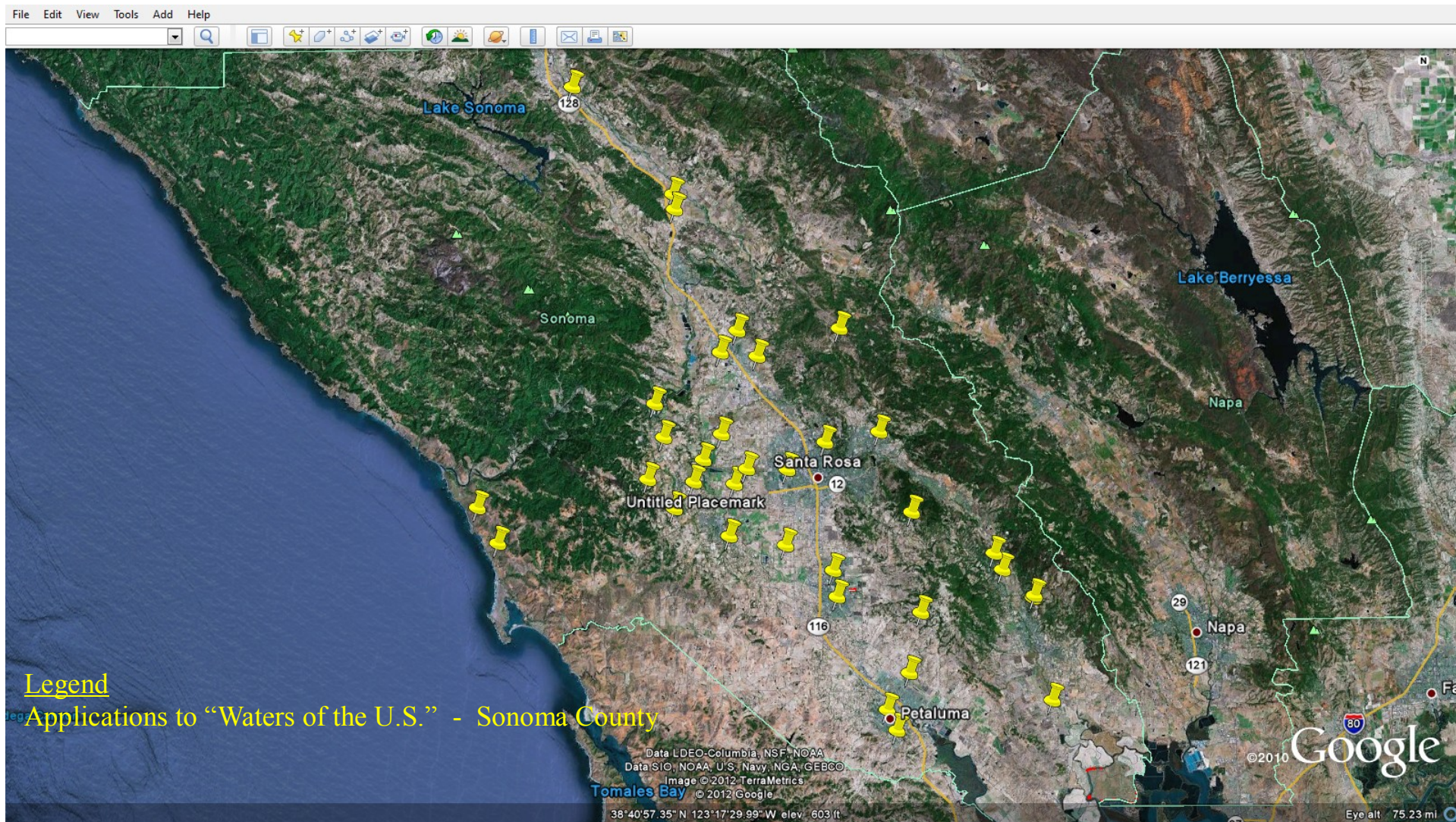
Attachment A
 Marin/Sonoma Mosquito and Vector Control District
 NPDES Annual Report 2011 Order # 2011-0002-DWQ NPDES # CAG 990004
 Visual Monitoring

Application information				Monitoring information																												
Date of Application	Applicator	Location	Name of Water Body	Type of Water Body	Type of pesticide	Product Name	Time of monitoring	Monitoring Date	Time	Name(s) of personnel	Overhead Conditions	Precipitation	Wind	Air Temperature	Water Color	Water Clarity	Floating/Suspended Matter	Bottom Deposits	Aquatic Life	Water Surface Oils	Fungi/Slimes or objectionable growths	Potential Nuisance Conditions	Water Temperature	Model	Electrical conductivity (EC)	Model	Dissolved oxygen (DO)	Model	pH	Model	Turbidity	Model
11/22/11	Edwards	37.94372369/-122.5036526	Remillard Park	Pond	Larvicide	Vectobac 12AS	Background	11/22/2011	10:00am	Edwards	Hazy	None	Calm	Cool	Colorless	Clear	Observed	Observed	Observed	Not Observed	Not Observed	Duckweed		Field Inst./	/	/	/	/	/	/	/	
11/22/11	Edwards	37.94372369/-122.5036526	Remillard Park	Pond	Larvicide	Vectobac 12AS	Event	11/22/2011	9:30am	Edwards	Overcast	None	Calm	Cool	Colorless	Clear	Observed	Observed	Observed	Not Observed	Not Observed	Duckweed		Field Inst./	/	/	/	/	/	/		
11/22/11	Edwards	37.94372369/-122.5036526	Remillard Park	Pond	Larvicide	Vectobac 12AS	Post-Event	11/22/2011	9:00am	Edwards	Overcast	None	light breeze	Cool	Colorless	Clear	Observed	Observed	Observed	Not Observed	Not Observed	Duckweed		Field Inst./	/	/	/	/	/	/		
12/07/11	Cole	38.01180556/-122.5220853	Smith Ranch Airport	Hayfield Ditch	Larvicide	Agnique MMF	Background	12/07/11		Cole	Clear	None	Calm	Cool	Colorless	Clear	Observed	Not Observed	Not Observed	Not Observed	Not Observed	Algae present		Field Inst./	/	/	/	/	/	/		
12/07/11	Cole	38.01180556/-122.5220853	Smith Ranch Airport	Hayfield Ditch	Larvicide	Agnique MMF	Event	12/07/11	12:15pm	Cole	Clear	None	Calm	Cool	Colorless	Clear	Observed	Not Observed	Not Observed	Not Observed	Not Observed	No change		Field Inst./	/	/	/	/	/	/		
12/07/11	Cole	38.01180556/-122.5220853	Smith Ranch Airport	Hayfield Ditch	Larvicide	Agnique MMF	Post-Event	12/12/11	1:05pm	Cole	Clear	None	Calm	Cool	Colorless	Clear	Observed	Not Observed	Not Observed	Not Observed	Not Observed	No change		Field Inst./	/	/	/	/	/	/		
12/08/11	Mohrman	38.4642222/-122.8856944	Joe Rodota Trail Ditch	Drainage Ditch	Larvicide	Vectobac 12AS	Background	12/08/11	10:15am	Mohrman	Hazy	Foggy	Calm	Cool	Green	Cloudy	Observed	Observed	Observed	Not Observed	Observed	Not Observed		Field Inst./	/	/	/	/	/	/		
12/08/11	Mohrman	38.4642222/-122.8856944	Joe Rodota Trail Ditch	Drainage Ditch	Larvicide	Vectobac 12AS	Event	12/08/11	10:30am	Mohrman	Hazy	Foggy	Calm	Cool	Green	Cloudy	Observed	Observed	Observed	Not Observed	Observed	Not Observed		Field Inst./	/	/	/	/	/	/		
12/08/11	Mohrman	38.4642222/-122.8856944	Joe Rodota Trail Ditch	Drainage Ditch	Larvicide	Vectobac 12AS	Post-Event	12/12/11	11:30am	Mohrman	Partly Cloudy	None	Calm	Cool	Green	Cloudy	Observed	Observed	Observed	Not Observed	Observed	Not Observed		Field Inst./	/	/	/	/	/	/		
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Attachment B

Marin/Sonoma Mosquito and Vector Control District

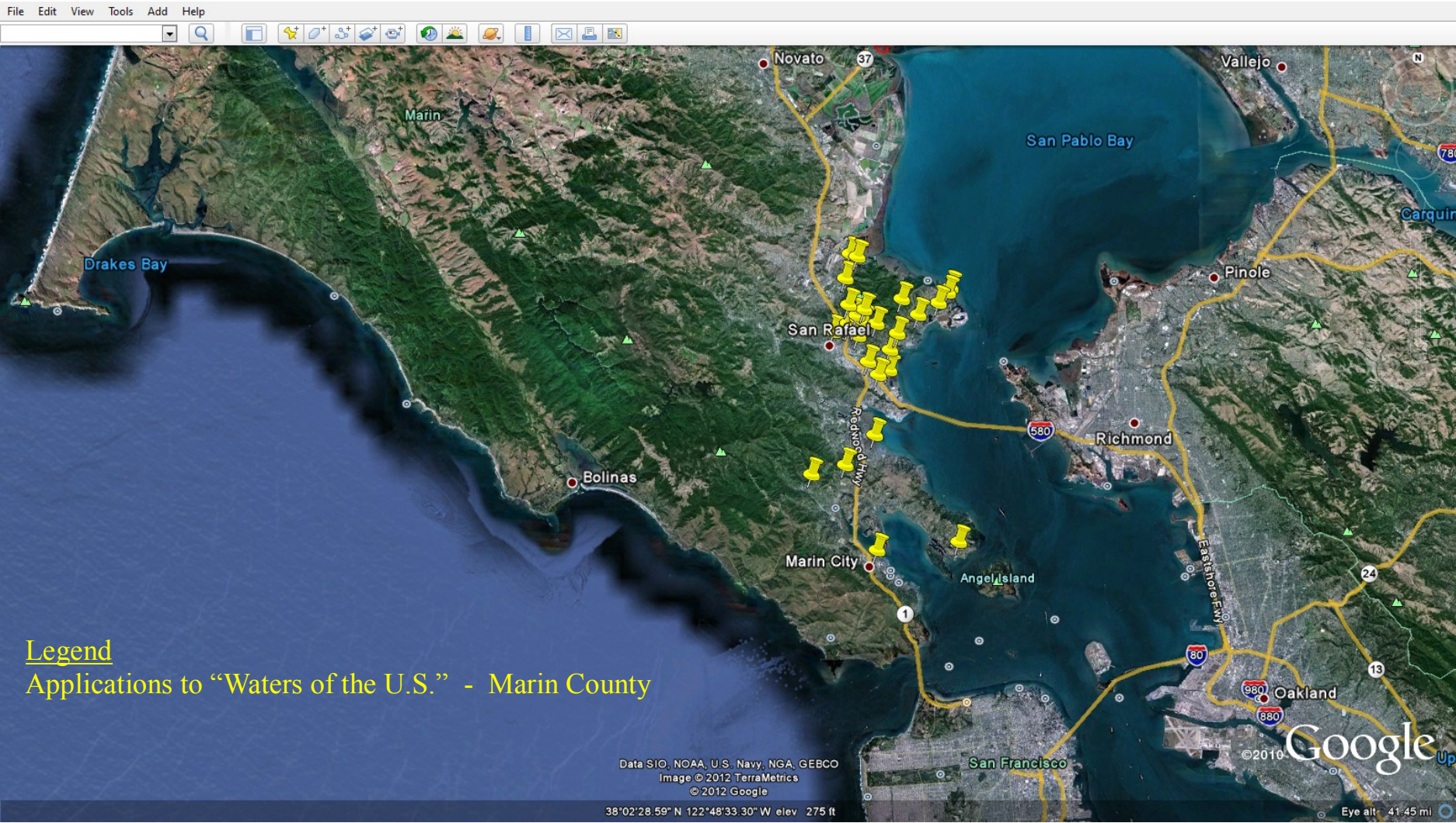
NPDES Annual Report 2011



Attachment C

Marin/Sonoma Mosquito and Vector Control District

NPDES Annual Report 2011



Agency:	
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Attachment D
 Marin/Sonoma Mosquito and Vector Control District
 NPDES Annual Report 2011 Order # 2011-002-DWQ NPDES # CAG 990004
 Application Log

Application Info									
Date of Application	Applicator	Source #	Habitat	Type of pesticide	Product Name	Product Amount	Acres	Latitude	Longitude
Sonoma Co.									
11/01/11	CM	4505201	Creek	Larvicide	Agnique	2.94 ozs.	0.023	38.37863889	1222.818444
11/01/11	TR	5026114	Creek	Larvicide	AltosidPellets	4.0 lbs	1.3	38.55986111	-122.8075
11/01/11	TR	5026114	Creek	Larvicide	BVA 2	6.875 gal	1.3	38.55986111	-122.8075
11/01/11	SM	4272515	Drainage ditch	Larvicide	BVA 2	0.797 ga.	0.15	38.440444	-122.846222
11/02/11	TR	5024401	Creek	Larvicide	Agnique	0.002 gal	0.005	38.5575	-122.8258333
11/02/11	SM	4396105	Creek	Larvicide	VectomaxCG	20.0 lbs	1	38.42816666	-122.8068056
11/02/11	SM	4401110	Creek	Larvicide	VectomaxCG	19.0 lbs	0.97	38.4307777	-122.7978889
11/03/11	NP	4835521	Drain	Larvicide	Altosid Briq.	1 ea.	0.0001	38.22816667	-122.6456667
11/03/11	DL	5304218	Creek	Larvicide	VectomaxCG	3.0 lbs	0.5	N/A	N/A
11/03/11	CW	3561625	Low area	Larvicide	VectolexCG	0.040 lbs	0.002	38.34675	-122.5250833
11/7/2011	NP	4841110	Creek	Larvicide	Vectolex CG	0.1 lbs	0.005	38.25991667	-122.6194167
11/09/11	CM	4494201	Creek	Larvicide	VectomaxCG	0.23 lb	0.0115	38.37947222	-122.8820833
11/14/11	SM	4274201	Creek	Larvicide	BVA 2	2.9 gal	0.551	38.4635	-122.8228611
11/16/11	SM	5285602	Drainage ditch	Larvicide	VectomaxCG	5.0 lb	0.25	38.44091667	-122.7615278
11/17/11	CM	4634201	Rain Pond	Larvicide	Agnique	0.8832 oz	0.0069	38.33577778	-122.76825
11/17/11	MN	3794202	Roadside Ditch	Larvicide	Agnique	0.95 oz	0.0069	38.29899693	-1.22489E+13
11/17/11	CW	5046105	Creek	Larvicide	Altosid Pellets	0.0002 lbs	0.0002	38.55930556	-122.6998056
11/18/2011	NP	4765104	Natural Spring	Larvicide	Vectolex CG	0.80 lbs	0.04	38.30019444	-122.6395
11/18/11	CW	3683102	Creek	Larvicide	BVA 2	6 oz	0.0092	38.3479.44444	-122.5020556
12/05/11	NP	4835521	Drain	Larvicide	Altosid Briq.	1 ea.	0.0003	38.22816667	-122.6456667
12/05/11	KB	4516314	Low area	Larvicide	BVA 2	21 oz	0.0003	38.37061111	-122.7541944
12/05/11	KB	4516314	Low area	Larvicide	Altosid Pellets	0.172 lb	0.034	38.37061111	-122.7541944
12/05/11	CM	4142403	Roadside Ditch	Larvicide	Agnique	0.230 oz	0.0018	38.49336111	-122.8984444
12/08/11	KB	4653103	Low area	Larvicide	Altosid XR	1 ea.	0.0006	38-20-46.5	122-40-07.9
12/08/11	CM	4264204	Drainage ditch	Larvicide	Vectobac12AS	0.5504 oz	0.0172	38.4642222	-122.8856944
12/12/11	CM	4382102	Roadside Ditch	Larvicide	VectolexWSP	1 ea.	0.0003	38.4021434	-122.822083
12/12/11	CM	4382102	Roadside Ditch	Larvicide	VectolexWSP	2 ea	0.0011	38.39555555	-122.8696389
12/12/11	DL	5294315	Natural Ditch	Larvicide	AltosidPellets	2.1 lbs	0.7	38.45869444	-122.7112222
12/13/11	CM	4391201	Roadside Ditch	Larvicide	VectolexWSP	4 ea	0.0034	38.42355555	-122.8635833
12/14/11	CW	5432605	Roadside Ditch	Larvicide	VectolexWSP	2 ea	0.0046	38.39847222	-122.6178056
12/19/11	RM	3871506	Drain	Larvicide	VectolexWSP	2 ea	0.0046	38.23575	-122.4625833
Marin Co.									
11/01/11	JP	1305101	Marsh (Tidal)	Larvicide	BVA-2	5.876 oz	0.0092	37.92461111	122.5066667
11/01/11	JP	1305101	Marsh (Tidal)	Larvicide	Altosid Pellets	0.0272 lb	0.0092	37.92461111	122.5066667
11/02/11	CE	2224125	Creek	Larvicide	BVA-2	1.25 oz	0.0018	37.977725	-122.5201111
11/02/11	CE	2143513	Roadside Ditch	Larvicide	BVA-2	0.5 oz	0.0008	37.98616667	-122.5215278
11/02/11	KB	2163310	Roadside Ditch	Larvicide	Agnique	0.0128 oz	0.0002	37.99211111	-122.4622222
11/02/11	CE	2224121	Roadside Ditch	Larvicide	BVA-2	1.5 oz	0.0023	37.98083333	-122.5184167
11/02/11	CE	2224121	Roadside Ditch	Larvicide	Altosid Briq.	1 ea	0.0023	37.98083333	-122.5184167
11/02/11	CE	2143057	Drain	Larvicide	Altosid Briq	1 ea	0.0001	37.97616666	-122.5215278
11/02/11	CE	2143609	Drain	Larvicide	BVA-2	0.06 oz	0.0001	37.9775	-122.5222777
11/02/11	CE	2143609	Drain	Larvicide	Altosid Briq.XR	1 ea	0.0001	37.9775	-122.5222777
11/02/11	CE	2143610	Drain	Larvicide	Altosid Briq.	2 ea	0.0002	37.975555	-122.5229167
11/03/11	CE	2155520	Creek	Larvicide	Agnique	0.75 oz	0.0057	37.99094444	-122.5094722
11/03/11	CE	2154620	Creek	Larvicide	BVA-2	1.5 oz	0.0023	37.97869444	-122.5143889
11/03/11	CE	2154505	Drain	Larvicide	Altosid Briq.	3 ea	0.0007	37.98419444	-122.5128333
11/04/11	CE	2154622	Drain	Larvicide	Altosid Briq.	2 ea	0.0046	37.97916667	-122.5123056
11/04/11	CE	2161407	Drain	Larvicide	Altosid Briq.	3 ea	0.0001	37.98919444	-122.4893888
11/04/11	CE	2224113	Drain	Larvicide	Altosid Briq.	3 ea	0.0007	37.97161111	-122.5163888
11/07/11	CE	2162421	Roadside Ditch	Larvicide	Altosid Briq.	1 ea	0.0023	37.98683333	-122.4680556
11/07/11	CE	2163309	Roadside Ditch	Larvicide	Altosid Briq. XR	1 ea	0.0023	37.9941111	-122.4602778
11/07/11	CE	2226128	Drain	Larvicide	Altosid Briq. XR	1 ea	0.0001	37.97213889	-122.4932778
11/09/11	CE	1226222	Drain	Larvicide	BVA-2	3 oz	0.0046	37.96475	-122.4971666
11/14/11	RM	2035310	Ditch (natural)	Larvicide	Vectolex CG	2.0 lb	0.1837	38.1105761	-122.502165
11/14/11	CE	2154601	Creek	Larvicide	Bti-Sand	2.0 lb.	1	37.98051948	-122.5162053
11/14/11	CE	2154602	Creek	Larvicide	Bti-Sand	1.0 lb	0.05	37.97870973	-122.5179487
11/15/2011	JP	1233626	Drainage Ditch	Larvicide	Agnique	0.44 oz	0.0034	37.93333333	-122.5315278
11/15/2011	CE	2154617	Creek	Larvicide	Bti-Sand	0.068	0.0034	37.97791667	-122.5146111
11/15/2011	CE	2154620	Creek	Larvicide	Bti-Sand	0.13 lbs	0.0069	37.97869444	-122.5143889
11/15/11	CE	2134307	Creek	Larvicide	Altosid Briq.	2 ea.	0.0034	38.00746598	-122.5177932
11/15/11	CE	2134307	Creek	Larvicide	BVA-2	1.1 oz.	0.0017	38.00746598	-122.5177932
11/15/11	CE	2143408	Creek	Larvicide	Bti-Sand	.08 lb	0.0046	37.99882592	-122.5243485
11/15/11	CE	2154604	Creek	Larvicide	Bti-Sand	.045 lb	0.0023	37.9780374	-122.5157332
11/16/11	JP	1346509	Low Area	Larvicide	Agnique	0.44 oz	0.0034	37.86277778	-122.4224722

11/16/11 CE	2225120 Retension Basin	Larvicide	Altosid Briq. XR	4 ea	0.0092	37.97764204	-122.5051922
11/16/11 CE	2225120 Retension Basin	Larvicide	Agnique	1.25 oz	0.0092	37.97764204	-122.5051922
11/17/11 MC	2053410 Retension Basin	Larvicide	Vectolex WSP	1 ea	0.0023	38.04727778	-122.5228611
11/17/11 MC	2054403 Low area	Larvicide	Vectolex WSP	1 ea	0.0023	38.04688889	-122.5213056
11/17/11 MC	2054406 Drainage Ditch	Larvicide	Vectolex WSP	6 ea	0.0138	38.04355556	-122.5223333
11/17/11 JP	1335201 Ditch (Natural)	Larvicide	Agnique	0.587 oz	0.0046	37.86744444	-122.5057222
11/17/11 CE	1225302 Roadside Ditch	Larvicide	BVA-2	7.5 oz	0.0115	37.95447222	-122.5068056
11/17/11 CE	1225303 Roadside Ditch	Larvicide	BVA-2	7.5 oz	0.0115	37.95447222	-122.5068056
11/17/11 CE	1225303 Roadside Ditch	Larvicide	Altosid Briq.	2 ea	0.0001	37.95444444	-122.5016667
11/17/11 CE	1246402 Roadside Ditch	Larvicide	Altosid Pellets	0.1145 lb	0.0115	37.94945997	-122.4951875
11/21/11 CE	2162501 Roadside Ditch	Larvicide	Bti-Sand	0.13 lb	0.0069	37.981	-122.4795
11/22/11 CE	1245502 Marsh (Fresh H2O	Larvicide	Vectobac12AS	64 oz	2	37.94372369	-122.5036526
11/28/11 CE	3Az00004 Roadside Ditch	Larvicide	VectolexWSP	1 ea	0.0005	37.99975169	-122.5343156
11/28/11 CE	2135206 Marsh (Tidal)	Larvicide	Bti-Sand	0.067 lbs	0.0034 ac	38.01453283	-122.5030518
11/28/11 CE	2136201 Marsh (Tidal)	Larvicide	Bti-Sand	4.0 lbs	0.2	38.01036128	-122.4967271
11/28/11 CE	2136302 Marsh (Tidal)	Larvicide	Vectobac12AS	10.0 oz	0.3214	38.00255006	-122.463693
11/29/11 RM	2034302 Ditch (natural)	Larvicide	Vectolex WSP	3 ea	0.0034	37.55328765	-122.6513672
11/30/11 CE	2226113 Creek	Larvicide	Bti-Sand	0.22 lbs	0.0115	37.97495055	-122.5006324
12/01/11 CE	1225302 Roadside Ditch	Larvicide	BVA-2	7.5 oz	0.0115	37.95447222	-122.5068056
12/02/11 JP	1305101 Marsh (Tidal)	Larvicide	Agnique	0.881 oz	0.0069	37.92461111	-122.5066667
12/2/2011 JP	1305126 Drainage Ditch	Larvicide	BVA-2	1.763 oz	0.0028	37.92297458	-122.508443
12/7/2011 MC	2134113 Hayfield Ditch	Larvicide	Agnique	1.32 oz	0.021	38.01180556	-122.5220833
12/05/11 CE	1226301 Marsh (Seasonal)	Larvicide	Vectobac12AS	320 oz	10	37.95749678	-122.4941468
12/12/11 CE	2134201 Drain	Larvicide	VectolexCG	0.45 lbs	0.023	38.01202866	-122.522487
12/13/11 CE	1226301 Marsh (Seasonal)	Larvicide	Vectobac12AS	256 oz	8	37.95749678	-122.4941468
12/14/11 JP	1293313 Low Area	Larvicide	VectolexWSP	1 ea	0.0007	37.91308333	-122.5235278
12/14/11 JP	1312522 Roadside Ditch	Larvicide	VectolexCG	0.009 lbs	0.0005	37.89372222	-122.54
12/15/11 CE	2154617 Creek	Larvicide	Vectolex WSP	2 ea	0.0023	37.97791667	-122.5146111
12/15/2011 JP	1335201 Ditch (Natural)	Larvicide	Agnique	0.293 oz	0.0023	37.86744444	-122.5057222
12/15/2011 CE	2154620 Creek	Larvicide	Bti-Sand	0.14 lbs	0.007	37.97869444	-122.5143889
12/15/2011 CE	2224125 Creek	Larvicide	Bti-Sand	0.2 lbs	0.0115	37.977725	-122.5201111
12/15/11 CE	2162501 Roadside Ditch	Larvicide	BVA-2	7.5 oz	0.0115	37.981	-122.4795
12/15/11 CE	2154601 Creek	Larvicide	Bti-Sand	2 lb	1	37.98051948	-122.5162053
12/15/11 CE	2154602 Creek	Larvicide	VectolexCG	1 lb	0.5	37.97870973	-122.5179487
12/22/11 CE	1226301 Marsh (Seasonal)	Larvicide	Vectobac12AS	320 oz	10	37.95749678	-122.4941468
Marin/Sonoma Co.							
11/9/2011 MW	E241C405 Ditch (natural)	Larvicide	BVA-2	1.6 oz	0.0025	38.80422222	-123.0106667
11/9/2011 MW	E282H704 Ditch (natural)	Larvicide	Agnique	0.64 oz	0.01	38.67936239	-122.8701925
11/17/11 NR	E400A301 Natural Spring	Larvicide	Agnique	0.0276 lbs	0.0092	38.40102778	-123.0957222
11/28/11 NR	E400C701 Roadside Ditch	Larvicide	Agnique	3.2 oz	0.025	38.37322222	-123.0755833
12/6/2011 MW	E302H401 Low Area	Larvicide	Agnique	32 oz	0.5	38.65355556	-122.8745833
12/07/11 MW	E302H206 Natural Spring	Larvicide	Altosid Pellets	0.576 oz	0.009	38.66772222	-122.87625