California Department of Parks and Recreation

Division of Boating and Waterways

Egeria densa Control Program

Annual Report

For the 2013 Application Season

NPDES Permit No. CAG 990005

USFWS Biological Opinion 08FBDT00-2013-F-0015

National Marine Fisheries Biological Opinion - Letter of Concurrence

EGERIA DENSA CONTROL PROGRAM

2013 ANNUAL REPORT

SUBMITTED Pursuant to:

NPDES General Permit CAG 990005

40 CFR 122.41 (k) and 40 CFR 122.21

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 information submitted. Based on my inquiry of the person, Geoff Newman – *Egeria densa* Control Program, Environmental Scientist, the information submitted is, to the best of my knowledge and belief, is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including possibility of fines and imprisonment for knowing violations.

_____ _____

Sylvia Ortega Hunter **Date**

Deputy Director

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Executive Summary

The Division of Boating and Water (DBW) received the United States Fish and Wildlife Service (USFWS) Biological Opinion May 3, 2013. Concurrence from the National Marine Fisheries Service (NMFS) was received at the end of May 2013. Treatment was started on June 3, 2013.

DBW treated 1,218 acres in 18 sites located within the Delta. The sites included White Slough, Disappointment Slough, Honker Cut, Bishop Cut, Delta Yacht Club, Buckley Cove, The Meadows, Snug Harbor Marina, Hogback County Boat Ramp, Oxbow Marina, Rivers End Marina, Discovery Bay, Cruiser's Haven, Taylor Slough, Dutch Slough, Sandmound Slough, Korth's Pirates Lair Marina, and Willow Berm Marina.

During the treatment season the Division collected and analyzed many water samples. There were a total of 289 Fastests and 103 National Pollutant Discharge Elimination System (NPDES). The Fastest samples are used for internal adjustment of herbicide application rates and all residue levels were within published label levels. The NPDES sampling is done to comply with criteria set forth in our NPDES Permit. All residues levels were within the permit allowable limits.

All parameters set forth in both the USFWS and NMFS Biological Opinions and Letters of Concurrence were met during the 2013 treatment season. All parameters set forth by the NPDES Permit were met.

The *Egeria densa* plants are actively growing during the springtime when water temperatures are rising. This is when the plant is recovering from overwintering and is taking in as many nutrients as possible to stimulate growth. It is the optimum time to apply herbicide to control *Egeria densa*. With the later start dates, the *Egeria densa* Control Program did see a slight reduction in both bio-mass and bio-coverage than last year. Using both visual and sonar readings; it is estimated that there was at least a 30% in both bio-mass and bio-coverage during the 2013 season with a June 3, 2013 start date. This compared to the 2012 season's 20% reduction in both bio-mass and bio-coverage can partly be attributed to starting the beginning of June as compared to the 2012 seasons start date of July 9, 2012. It is anticipated that the *Egeria densa* Control Program (EDCP) will start the 2014 treatment season on or about April 15, 2014.

1 Introduction

1.1 *Egeria densa* Impact on the Delta

Egeria densa (Brazilian Elodea) is a fast growing, aquatic plant that is having a significant impact on the shallow water habitat in the Sacramento and San Joaquin River Delta (Delta) ecosystem. Since it was first introduced into the Delta approximately 60 years ago, *Egeria densa* has grown to infest approximately 13,000 surface acres or approximately 20% of the 55,000 surface acres of the Delta. *Egeria densa* influences the Delta's biological diversity, recreation, and agriculture. *Egeria densa* crowds out native vegetation; slow water flows, entraps sediments, obstructs waterways, impedes anadromous fish migration patterns, and clogs agricultural and municipal water intakes.

1.2 Setting

The *Egeria densa* Control Program (EDCP) area of operation includes portions of six counties that encompass much of the Delta and its upland tributaries. Those six counties are Alameda, Contra Costa, Sacramento, San Joaquin, Solano and Yolo. The general boundaries of the treatment areas are:

- West to and including Sherman Island, at the confluence of the Sacramento and San Joaquin Rivers,
- North to the confluence of the Sacramento and the Sacramento Deep Water Channel,
- East along the San Joaquin River to the City of Stockton, and
- South from Clifton Court along Old River to Mossdale**.**

1.3 Summary of Statutory Authority and Required Permits

In 1997, AB 2193 amended the California Harbors and Navigation Code to designate the Department of Boating and Waterways, now the Division of Boating and Waterways (DBW) as lead agency for controlling *Egeria densa* in the Sacramento and San Joaquin River Delta, its tributaries and the Suisun Marsh. The United States Department of Agriculture-Agriculture Research Service (USDA-ARS) acts as the federal nexus agency for all federal regulatory processes. The USDA-ARS also provides research, technical expertise, and decision making input for the *Egeria densa* Control Program (EDCP) planning process. The Division of Boating and Waterways and the USDA-ARS implemented the EDCP in 2001.

1.3.1 EDCP NPDES Permit (No. CAG 990005)

The EDCP National Pollution Discharge Elimination System (NPDES) General Permit for Aquatic Pesticide Use requires the DBW to submit an annual report no later than March 1 following the EDCP treatment season. Reporting guidelines must include an executive summary discussing general permit compliance or violations of permit terms and conditions for discharging chemicals into the waters of the United States, the effectiveness of the EDCP Aquatic Pest Application Plan (APAP), the discharge of pollutants associated with the aquatic pest application, summarize monitoring data, including any changes in water quality, violations of compliance with water quality as outlined in the Central Valley Basin Plan. The Annual Report also includes a discussion of any violations and the actions taken, maps showing application areas, acreage and sampling locations, type and amounts of aquatic pesticides used during each application event, information on surface area, volume and rate of application, and sampling results for all monitoring as outlined in the General Permit Monitoring and Reporting Program.

Terms and Conditions

Herbicide Residue Limits

The maximum residue limits in receiving waters for fluridone, the main ingredient of Sonar®, is 560 parts per billion (ppb) and for diquat the main ingredient in Reward®, is a maximum of 20 ppb. DBW did not use any diquat during the 2013 treatment season. Maximum residue limits are based on the Environmental Protection Agency and municipal drinking water standards.

There are clear distinctions in the NPDES Permit about the application area and receiving waters. An “application” area is defined as the area in which the aquatic herbicides are applied. The treatment area is the zone that is treated by aquatic herbicides to aquatic weeds. Receiving waters are defined as: 1) waters directly down flow of the treatment area and 2) water within the treatment area when herbicide levels fall below the minimum effective concentrations. In the EDCP, the herbicide can have an impact on the target species as long as residues are present in the water column. Residues found inside the treatment area are not considered receiving waters until seven days after an application event.

Herbicides applied to aquatic plants are not considered a pollutant until residues reach the receiving waters. This is because herbicides designed to treat aquatic plants and approved by the EPA cannot be considered a pollutant under the Clean Water Act. This applies to chemicals approved under federal and state pesticide use regulations.

Herbicide label restrictions dictate maximum rates of application and maximum concentrations allowed in water columns. The application rate can be greater than the maximum water column concentration due to binding properties and dispersal rates in flowing waters.

Fluridone has no maximum application rate in flowing waters. The applicator is allowed to apply at an appropriate rate such that a target concentration in the water column does not exceed 40 ppb. However, most applications have target applications of 50 ppb or less with a residue of 10 ppb or less in the water column**.**

Water Quality Parameters

The EDCP is required to monitor specific water quality parameters to ensure there are no significant impacts to beneficial waters of the United States. The physical and chemical water quality parameters monitored consist of temperature, salinity, electrical conductivity, turbidity, pH, and dissolved oxygen. DBW also conducts visual inspections before, during and after applications have been made. DBW annotates any changes in water color, odor, and vegetative health.

Selection and Monitoring Frequency

The NPDES Permit requires representative monitoring for each water type found in the EDCP area of operation. The only water type for the EDCP is tidal. Per monitoring frequency requirements outlined in the NPDES and the EDCP Aquatic Pesticide Application Plan, a minimum of two monitoring sites per water type per herbicides used if the total number of applications is below twenty. DBW records water quality parameters no earlier than twenty four hours prior to the first treatment and a minimum of two follow-up visits following the end the treatment event or until there are no detectable residues in the water column.

1.3.2 EDCP USFWS and NMFS Biological Opinion Section 7 Take Permit

Reporting Requirements

The USFWS and the NMFS Biological Opinion Section 7 Permit requires DBW to submit an annual report no later than January 31 following the EDCP treatment season. Annual Reports must summarize compliance with the terms and conditions listed to include species and habitat protection, water quality monitoring, and any additional monitoring and studies that may have been conducted as part of the regulatory requirements from other participating state and federal agencies. Additional reporting requirements are on a case-by-case basis in the event that a "*take*" should occur of any of the species discussed in the permit. Take reports begin with immediate notification of the USFWS or NMFS Biologist in charge of administering the permit and require documentation of information such as where the take occurred, number of species involved, water quality condition, chain of custody and prescriptive action taken for preventing future occurrences.

USFWS Mitigation Requirements

The EDCP USFWS BO Section 7 Take Permit imposes several measures to avoid impacts to protected species in the Delta. Primarily DBW has been directed to implement species avoidance and habitat loss minimization. There are three main components to avoidance and habitat minimization mitigation. Components are seasonal timing of applications, species specific toxicity evaluations, and applicator education. All applicators received Worker Environmental Awareness Training before treatments began on June 4, 2013. Personnel were informed as to the presence of the Valley Longhorn Elderberry Beetle, Delta Smelt and the Giant Garter Snake and habitats associated with these species. The briefing also included the contents of the USFWS and NMFS Biological Opinion Section 7 Permits.

Delta Smelt (*Hypomesus transpacificus*)

- Using the Interagency Ecological Program (IEP Real Time Monitoring Program 20mm Survey) we determine the presence or absence of the Delta Smelt within or near the boundaries of the herbicide application areas.
- There are no restrictions for the use of fluridone, however, if diquat is used it may only be applied between June 1 and July 31.
- DBW made no diquat applications during the 2013 treatment season.

Valley Longhorn Elderberry Beetle (*Desmoecerus californicus dimorphus*)

- Avoidance is the term USFWS included in their Biological Opinion. DBW has located most if not all of the Elderberry plants (*Sambucus ssp*) within our area of operation and are avoiding them during the treatment season.

Giant Garter Snake (*Thamnophis gigas*)

- Avoidance of the Giant Garter Snake habitat.

The only restriction to the Giant Garter Snake applies to mechanical harvesting and land based operations occurring on unimproved Delta banks. The EDCP is currently not implementing mechanical harvesting nor is it operating near any unimproved areas. However, mitigation beyond the requirements of the USFWS permit has been implemented to avoid any impact.

The entire EDCP project area has had a Giant Garter Snake habitat evaluation. Each application crew has been provided with a set of maps outlining potential Giant Garter Snake habitat. This is to ensure that our crews avoid areas where Giant Garter Snakes are likely to be found.

NMFS Mitigation Requirements

The EDCP NMFS BO Section 7 Permit imposes several conditions to reduce the impact on salmonids that transit the Delta on their way to and from spawning areas.

Chinook Salmon (*Onorchynchus tswawytscha*), Sacramento Winter Run and the Central Valley Spring Run and the Central Valley Steelhead Trout (*Onocorhynchus mykiss*)

- NMFS has specified start and stop dates for DBW EDCP operations. DBW can start treatments on April 1st and must cease operations no later than October 15th.
- NMFS has also set forth specific sites that may be treated early. This is to preclude both in and out migrating salmonids from passing through treated areas.
- In order to avoid impacts to aquatic species, particularly salmonids, which are reliant on dissolved oxygen levels (DO), crews monitor DO levels and water temperatures prior to and after treatments. Crews are only permitted to make applications when DO levels are above 5 mg/l or below 3 mg/l. During the 2013 season all DO levels were within the specific parameters[1].

[1] *The Central Valley Regional Water Quality Control Board (CVRWQCB), USFWS and NMFS have slightly different dissolved oxygen limits. The CVRWQCB Basin Plan states the DO shall not be reduced below 5 mg/l in all Delta waters except the Sacramento River below the I St Bridge and all waters west of the Antioch Bridge (7.0 mg/l and in the San Joaquin River between Turner Cut and Stockton (6.0 mg/l). All EDCP sites are by definition waters of the Delta. The USFWS BO Take Permit directs no treatment in high flow areas where DO levels are below 5.0 mg/l. It also directs treatments be delayed in low flow areas if DO levels are between 4-6 mg/l. The Central Delta is all tidal and with no real distinctions between high and low flow waters. During the 2013 treatment season DBW recorded all readings above 5.0 mg/l.*

2 Personnel, Methods and Materials

2.1 EDCP Personnel, Accreditation, and Training

Each application crew consists of a specialist and a technician of which at least one is a certified applicator possessing a Qualified Applicator Certificate "F" (Aquatics). The certification is administered by the California Department of Pesticide Regulation (CDPR). All DBW crews have annual training on EDCP herbicide handling and environmental awareness.

Endangered Species Training

DBW perceives training as a major component necessary to ensure avoidance and minimization measures are met for both the NMFS and USFWS BO Section 7 Permits. Application crews not only received refresher training on herbicide use and restrictions before the season began, they also received an annual environmental awareness refresher on threatened, endangered species, and species of concern known to be located within our area of operation. State and federal listed species covered included: Delta Smelt, Giant Garter Snake, Valley Longhorn Elderberry Beetle and its habitat, Central Valley Steelhead Trout, and Both runs of Chinook Salmon including buffer zones, required surveys, fish passage protocol and DO limits. Also included was a discussion of legal implications of the Endangered Species Act (ESA) and the California Environmental Quality Act (CEQA).

Monitoring Crews

Monitoring crews consist of a lead Environmental Scientist and one assistant. The scientist schedules and plans all field sampling events. A digital camera is used to obtain visual records of sampling locations to denote noticeable changes in vegetation or the condition of the surrounding area. Additional responsibilities included quality control field monitoring and laboratory analysis and reporting findings in an Annual Report as outlined in the EDCP, NPDES Permit, USFWS and NMFS Biological Opinions**.**

2.2 Materials

Herbicides used during the 2013 treatment season include:

Fluridone: 1-methyl-3-phenyl-5{trifluromethyl-phenyl}-4(1H)-pyridinone; under the commercial trade names of:

- Sonar One® - EPA Registration No. 67690-45 (Pellets)
- Sonar Q® - EPA Registration No. 67690-3 (Pellets)
- Sonar PR® - EPA Registration No. 67690-12

Fluridone (Sonar®) is a selective systemic herbicide that inhibits the formation of carotene, an action that results in the degradation of sunlight exposed chlorophyll. Formation of carotene occurs primarily in new growth, thus fluridone is most effective in maximum growth periods of *Egeria densa*. Fluridone not absorbed by the plants is broken down into naturally occurring elements mostly through exposure to sunlight.

Summary of Pesticide Use in 2013

Herbicide Formulations	PR Pellets (lbs.)	Q Pellets (lbs.)	One Pellets (lbs.)	Net Acres Per Month
July				
Alameda	0	128	64	11
San Joaquin	0	3,792	7,152	554
Contra Costa	0	3,916	6,036	560
Sacramento	248	888	744	83
Solano	0	88	56	10
August				
Alameda	0	0	80	11
San Joaquin	3,628	0	8,526	554
Contra Costa	0	0	12,388	560
Sacramento	0	0	2,310	83
Solano	0	0	200	10
September				
Alameda	147	0	0	11
San Joaquin	6,122	908	774	554
Contra Costa	7,641	0	2,408	560
Sacramento	955	0	96	83
Solano	114	0	36	10
Totals	19,810	9,720	40,870	1,218

Note: Acreages in table are gross acreages. Net acreage treated was 1,218 acres.

Application Equipment

Crews use either a 19 or 21 foot aluminum boat powered by either outboard motor or are air driven. At the start of each treatment the application crew takes a dissolved oxygen and

temperature reading using a HACH™ Dissolved Oxygen Meter within the treatment site. These readings must be within the parameters outlined in the NPDES Permit and the Biological Opinions before an application may be made. At the start of the application, the crew uses an Explore™1I-104C Tablet PC with a GPS unit installed to record beginning and ending spray lines, coordinates of the spray area and the time of treatment.

All boats are washed regularly to rid them of chemical residues and all application pumps, hoses, and nozzles are inspected and if defective replaced on an as-needed basis. Boat records are available upon request.

2.3 Environmental Monitoring

Using a herbicide free boat, powered by an outboard engine the Environmental Scientist conducts monitoring activities. A Hydrolab MS-5 water quality multi-probe Datasonde is used to collect water quality readings. The MS-5 reads water temperature, electrical conductivity, salinity, dissolved oxygen, pH, and turbidity. The data is stored together with GPS coordinates with an I-xplore 104C PC Tablet. A digital camera is used to obtain visual records of sampling locations to denote noticeable changes in vegetation or the condition of the surrounding area.

Monitoring Protocols

Protocols

The DBW EDCP follows a water quality monitoring protocol as outlined in the 2004 EDCP Aquatic Pesticide Control Application Plan (APAP). The monitoring team plans each sampling event in coordination with the field supervisor and the application teams. During the 2013 season the DBW sampled in three sites, Buckley Cove Site 10, Disappointment Slough Site 32, and Honker Cut Site 38.

Residue Sampling

For each application event DBW takes a pre-sample and as many weekly post samples as necessary until a non-detection of the herbicide residue is obtained. These samples are identified as sample A, B, and C. Sample location A is inside of the application area approximately 1/4 to 1/3 the distance from the downstream edge of the application polygon, sample location B is located on the downstream edge of the application polygon, and sample C is located in an adjacent non-impacted area with similar hydrological conditions as the application area or receiving waters.

DBW also takes Fastest (immune assays) samples throughout the duration of the treatment. These samples are sent to the herbicide manufacturer for analysis. Sample results are used to

monitor herbicide residues in the treatment area as well as areas outside the treatment area. DBW can monitor and adjust the rate of application to keep residue levels within the treatment site at optimum levels.

Water Quality Parameters

Water quality sampling is done concurrent with residue sampling. Water quality monitoring samples are taken at a depth of 3 feet. The parameters measured are temperature, salinity, dissolved oxygen, electrical conductivity, pH, and turbidity. DBW also conducts physical inspections of the treated and surrounding areas to identify changes in water color and odor along with changes in the vegetative health of the species within and around the treatment area.

2.4 Laboratory Analytical Methods and Data Validation

Analytical Methods

The analytical methods used by the contract laboratory, California Department of Food and Agriculture (CDFA) are published in the U.S. EPA Test Methods for Evaluating Solid Waste Physical/Chemical SW 846 or U.S EPA Method for Chemical Analysis for Water and Waste. The primary method used for the EDCP is Method 4000, immune assay testing (ELISA method).

Analytical Testing Validation

The DBW uses several methods to validate results found by the contracting laboratories. These methods include split samples, field spikes, field blanks, and equipment blanks. DBW took 23 equipment blanks, 9 field blanks, 7 split samples and 1 field spike during the 2013 treatment season.

3 COMPLIANCE

3.1 Herbicide Application Data and Permit Compliance

The 2013 EDCP application season began on June 4, 2013 and ended on August 21, 2013. DBW treated in Discovery Bay, Cruiser Haven Marina, Rivers End Marina, Dutch Slough, Sandmound Slough, Taylor Slough, Buckley Cove, Disappointment Slough, Honker Cut, Bishop Cut, White Slough and the Delta Yacht Club Marina. Total acreage treated was 1,218 acres.

Compliance

DBW EDCP treatment operations were in compliance with the USFWS and NMFS Biological Opinions. There were no known takes or harassment of federally listed endangered or threatened species.

Basin Plan Compliance (NPDES)

DBW is required to adhere to all limitations set forth in the Regional Water Quality Control Boards Basin Plan. It specifies limitations for dissolve oxygen, turbidity, pH, salinity, and water temperature. During the 2013 season all parameters were met.

4 CONCLUSIONS

4.1 Discussion

DBW treated 1218 acres in 18 sites located within the Delta. The sites included White Slough, Disappointment Slough, Honker Cut, Bishop Cut, Delta Yacht Club, Buckley Cove, The Meadows, Snug Harbor Marina, Hogback County Boat Ramp, Oxbow Marina, Rivers End Marina, Discovery Bay, Cruiser's Haven, Taylor Slough, Dutch Slough, Sandmound Slough, Korth's Pirates Lair Marina, and Willow Berm Marina.

During the treatment season the Division collected and analyzed many water samples. There were a total of 289 Fastests and 103 National Pollutant Discharge Elimination System (NPDES). The Fastest samples are used for internal adjustment of herbicide application rates and all residue levels were within published label levels. The NPDES sampling is done to comply with criteria set forth in our NPDES Permit. All residues levels were within the permit allowable limits.

All parameters set forth in both the USFWS and NMFS Biological Opinions and Letters of Concurrence were met during the 2013 treatment season. All parameters set forth by the NPDES Permit were met.

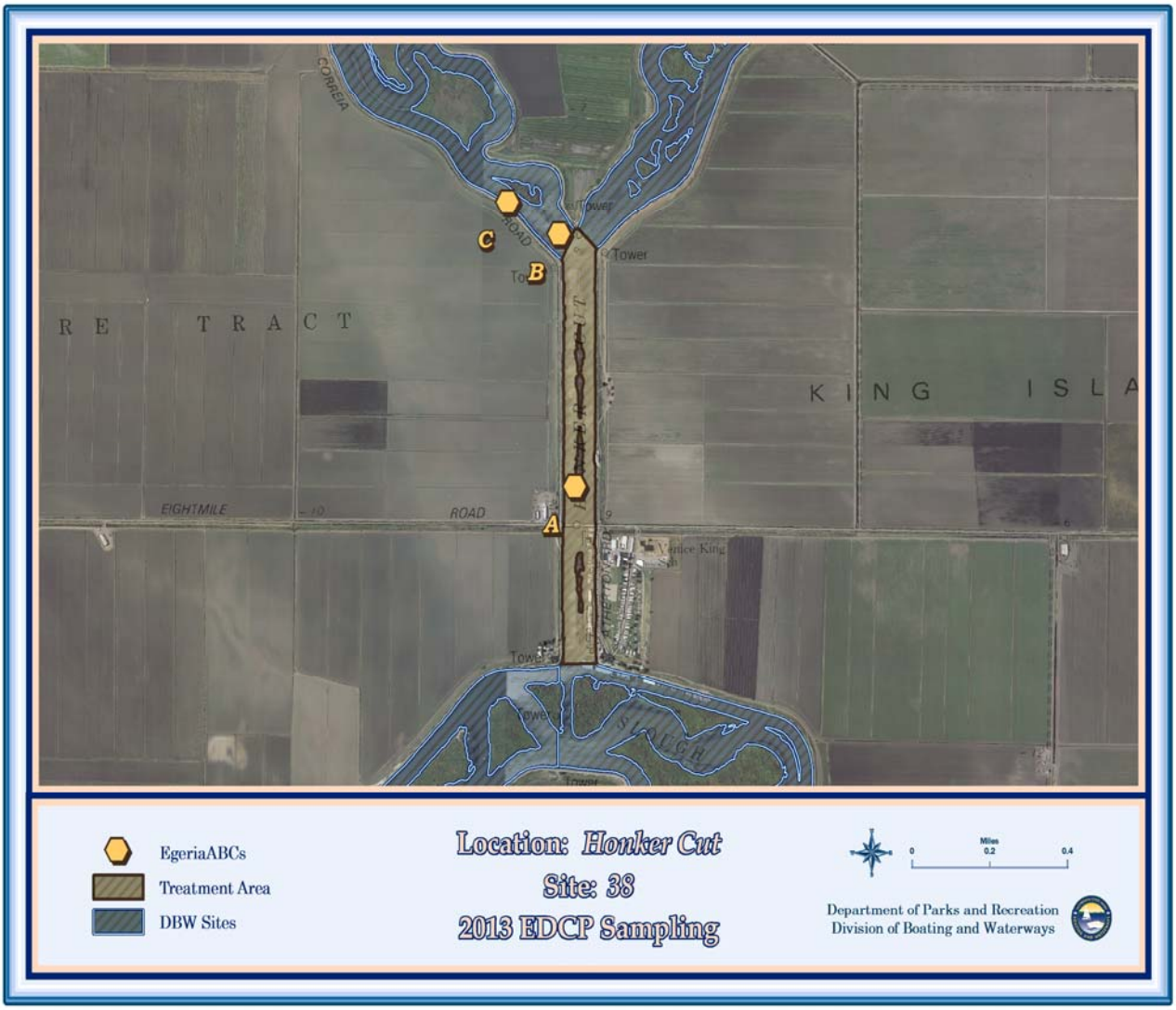
The Egeria densa plants are actively growing during the springtime when water temperatures are rising. This is when the plant is recovering from overwintering and is taking in as many nutrients as possible to stimulate growth. It is the optimum time to apply herbicide to control Egeria densa. With the later start dates, the Egeria densa Control Program did see a slight reduction in both bio-mass and bio-coverage than last year. Using both visual and sonar readings; it is estimated that there was at least a 30% in both bio-mass and bio-coverage during the 2013 season with a June 3, 2013 start date. This compared to the 2012 season's 20% reduction in both bio-mass and bio-coverage can partly be attributed to starting the beginning of June as compared to the 2012 seasons start date of July 9, 2012

APPENDIX A

1 – Site Maps, Water Quality Data, and Residue Levels for:

- Honker Cut Site 38
- Disappointment Slough Site 32
- Buckley Cove Site 10

Honker Cut Site 38

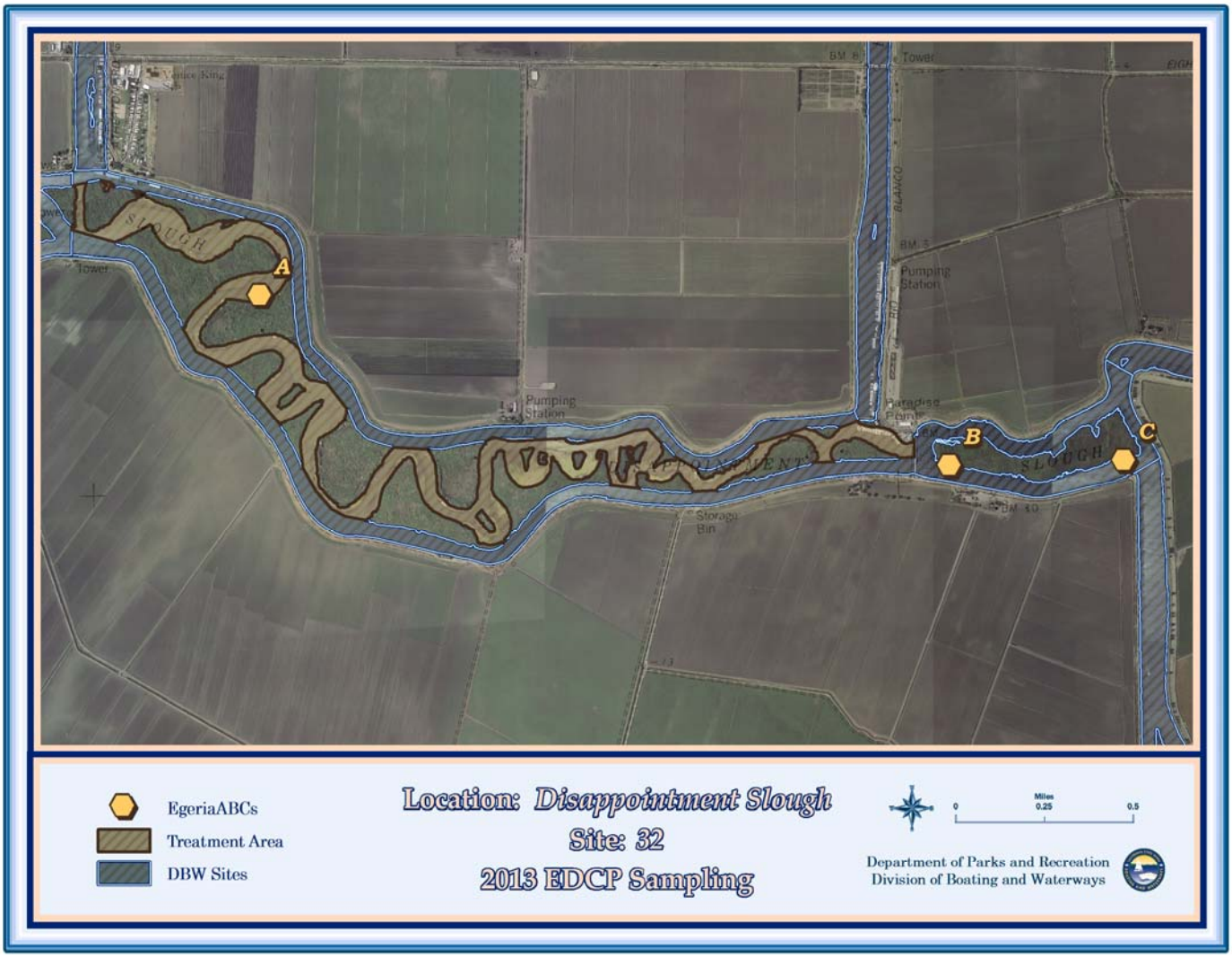


Honker Cut Site 38 Water Quality and Residue Readings

Sample Location	Sample Number	UTM Coordinates	Date	Time	Temp	Conductivity Ms/cm	Salinity (ppt)	DO Mg/l	Depth	Ph	Turbidity	Residue Levels (ppb)
A	E038060313-001	E635150 N42136566	06/03	1200	22.73	.191	.09	12.38	3	8.71	1.9	ND
B	E038060313002	E635088 N4214583	06/03	1205	22.17	.187	.08	10.30	3	8.41	1.4	ND
C	E038060313003	E634883 N4214705	06/03	1210	22.90	.185	.08	13.12	3	8.94	4.2	ND
A	E038082113013	E635150 N42136566	08/21	0900	23.77	.176	.08	8.22	3	7.93	1.3	ND
B	E038082113014	E635088 N4214583	08/21	0915	23.88	.177	.08	8.43	3	7.91	1.1	ND

C	E038082113-015	E634883 N4214705	08/21	0920	23.87	.176	.08	8.35	3	7.89	35.7	ND
A	E038090513027	E635150 N42136566	09/05	1022	22.76	.190	.09	7.73	3	7.90	6.4	ND
B	E038090513028	E635088 N4214583	09/05	1027	22.79	.189	.09	8.04	3	7.90	4.7	1.01
C	E038090513029	E634883 N4214705	09/05	1030	21.39	.191	.09	8.03	3	7.96	4.2	ND
A	E038091113051	E635150 N42136566	09/11	0930	22.42	.189	.09	7.53	3	7.90	4.8	ND
B	E038091113052	E635088 N4214583	09/11	0925	22.43	.186	.08	7.45	3	7.91	3.4	1.0
C	E038091113053	E634883 N4214705	09/11	0920	22.46	.186	.08	7.48	3	8.04	12.6	ND
A	E038091813055	E635150 N42136566	09/18	0925	21.45	.184	.08	7.78	3	7.97	4.9	ND
B	E038091813056	E635088 N4214583	09/18	0920	21.36	.183	.08	7.08	3	8.01	9.7	ND
C	E038091813057	E634883 N4214705	09/18	0915	21.46	.181	.08	8.02	3	8.11	5.0	ND

Disappointment Slough Site 32

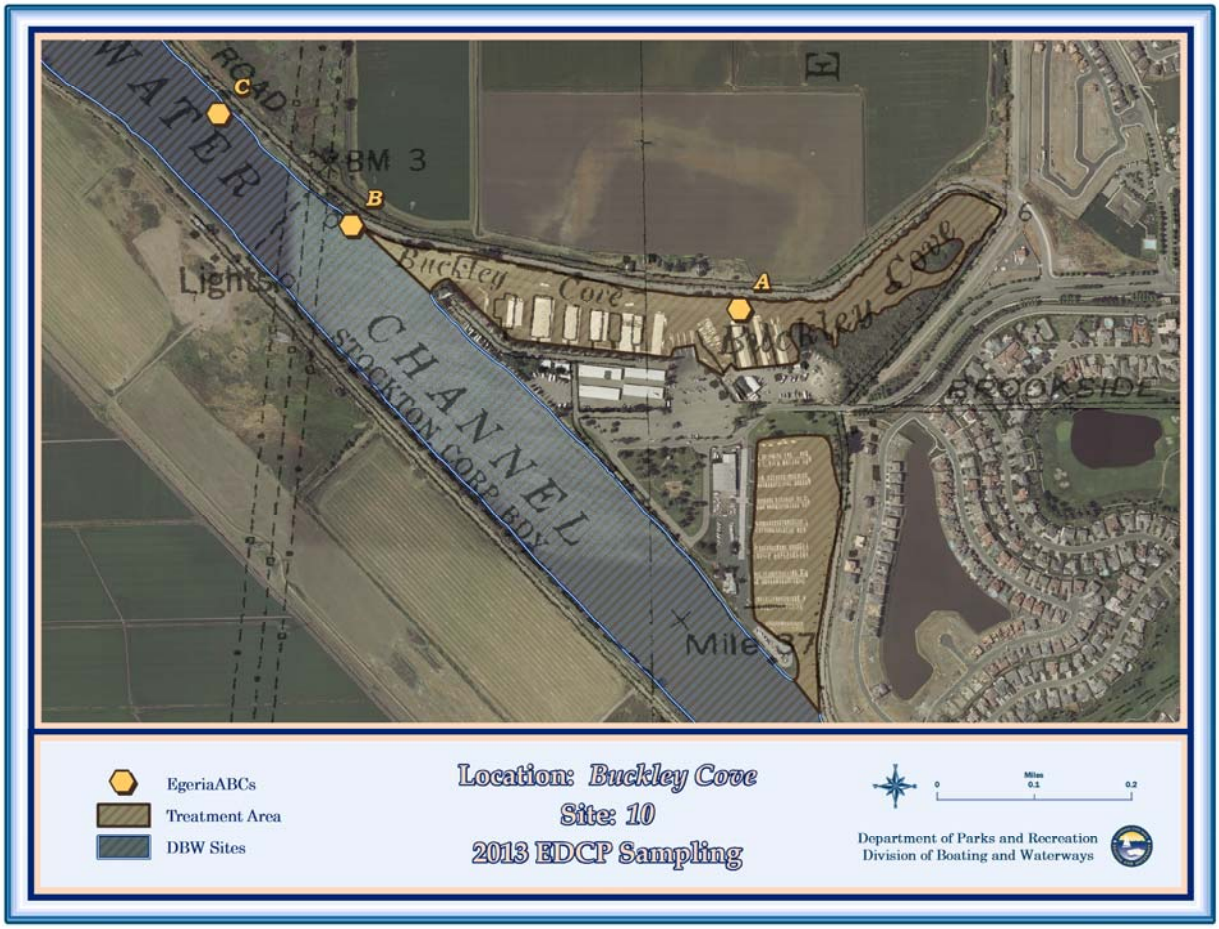


Disappointment Slough Site 32 Water Quality and Residue Readings

Sample Location	Sample Number	UTM Coordinates	Date	Time	Temp	Conductivity ms/cm	Salinity (ppt)	DO Mg/l	Depth	Ph	Turbidity (ntu)	Residue Levels (ppb)
A	E032060313005	E635938 N4212453	06/03	1125	22.11	.251	0.12	9.30	3	8.22	1.2	ND
B	E032060313006	E639067 N4211676	06/03	1115	23.32	.315	0.15	7.67	3	7.81	1.0	ND
C	E032060313007	E639869 N4211698	06/03	1110	21.45	.321	0.16	7.64	3	7.81	0.1	ND
A	E032082113017	E635938 N4212453	08/21	0905	24.24	.213	0.10	8.36	3	7.99	0.2	2.57

B	E032082113018	E639067 N4211676	08/21	0850	24.63	.216	0.10	7.37	3	7.85	1.3	1.33
C	E032082113019	E639869 N4211698	08/21	0845	24.62	.217	0.10	7.42	3	7.97	1.1	1.65
A	E032090513031	E635938 N4212453	09/05	1008	23.16	.209	0.10	8.09	3	8.08	8.2	1.46
B	E032090513032	E639067 N4211676	09/05	1000	23.62	.215	0.10	7.78	3	7.95	6.1	2.22
C	E032090513033	E639869 N4211698	09/05	0958	23.59	.216	0.10	7.07	3	8.02	5.7	2.61
A	E032091113045	E635938 N4212453	09/11	0945	22.96	.215	0.10	8.49	3	8.13	6.1	ND
B	E032091113046	E639067 N4211676	09/11	1000	23.35	.210	0.10	7.97	3	8.05	7.8	1.81
C	E032091113047	E639869 N4211698	09/11	0955	23.22	.206	0.09	7.95	3	8.12	6.7	2.04
A	E032091813060	E635938 N4212453	09/18	0910	21.36	.216	0.10	8.37	3	8.05	11.7	1.28
B	E032091813061	E639067 N4211676	09/18	0930	22.17	.198	0.09	7.20	3	7.95	4.9	1.82
C	E032091813062	E639869 N4211698	09/18	0945	21.81	.194	0.09	6.49	3	7.79	15.3	2.0
A	E032092613073	E635938 N4212453	09/26	0720	18.97	.201	0.09	8.78	3	8.14	4.5	1.18
B	E032092613074	E639067 N4211676	09/26	0740	18.42	.183	0.08	8.64	3	8.12	4.1	1.25
C	E032092613075	E639869 N4211698	09/26	0750	18.20	.182	0.08	8.65	3	8.09	5.0	1.39
A	E032101013084	E635938 N4212453	10/10	0940	17.33	.255	0.12	8.85	3	8.08	5.5	ND
B	E032101013085	E639067 N4211676	10/10	0935	17.61	.222	0.10	8.64	3	8.05	4.3	ND
C	E032101013086	E639869 N4211698	10/10	0930	17.52	.219	0.10	8.79	3	8.12	4.5	1.16
A	E032101813095	E635938 N4212453	10/18	1026	17.56	.240	0.11	10.47	3	8.26	0	ND
B	E032101813096	E639067 N4211676	10/18	1018	17.38	.282	0.14	10.04	3	8.30	0	ND
C	E032101813097	E639869 N4211698	10/18	1014	17.36	.324	0.16	10.36	38.26	8.35	0	ND
A	**E032110413105**	E635938 N4212453	**11/04**	**0930**	**14.18**	**.364**	**0.18**	**9.93**	**3**	**8.06**	**5.1**	**ND**
B	**E032110413106**	E639067 N4211676	**11/04**	**0920**	**13.56**	**.404**	**0.20**	**9.83**	**3**	**8.07**	**15.8**	**ND**
C	**E032110413107**	E639869 N4211698	**11/04**	**0915**	**13.33**	**417**	**0.21**	**10.01**	**3**	**8.10**	**9.8**	**ND**

Buckley Cove Site 10



Buckley Cove Site 10 Water Quality and Residue Readings

Sample Location	Sample Number	UTM Coordinates	Date	Time	Temp	Conductivity Ms/cm	Salinity (ppt)	DO Mg/l	Depth	Ph	Turbidity	Residue Levels (ppb)
A	E010060313009	E642781 N4204539	06/03	1030	23.42	.437	0.22	7.49	3	7.93	1.7	ND
B	E010060313010	E642134 N4204678	06/03	1035	22.20	.480	0.24	7.37	3	7.73	0.3	ND
C	E010060313011	E641916 N4204865	06/03	1045	22.16	.484	0.24	7.38	3	7.67	0.9	ND
A	E010082113022	E642781 N4204539	08/21	0820	25.50	.682	0.35	9.22	3	7.87	1.2	2.92
B	E010082113023	E642134 N4204678	08/21	0810	25.12	.526	0.27	7.77	3	7.77	1.3	ND
C	E010082113024	E641916 N4204865	08/21	0800	25.11	.473	0.24	7.84	3	7.84	2.7	ND

A	E010090513036	E642781 N4204539	09/05	0917	23.45	.699	0.36	6.37	3	7.80	4.7	8.27
B	E010090513037	E642134 N4204678	09/05	0910	24.65	.651	0.33	6.36	3	7.74	5.3	3.28
C	E010090513038	E641916 N4204865	09/05	0906	24.70	.636	0.33	6.23	3	7.68	5.7	1.94
A	E010091113041	E642781 N4204539	09/11	0840	24.48	.750	0.39	7.54	3	8.02	8.0	3.12
B	E010091113042	E642134 N4204678	09/11	0835	24.66	.803	0.42	6.50	3	7.56	12.3	1.92
C	E010091113043	E641916 N4204865	09/11	0830	24.62	.771	0.40	6.74	3	7.89	11.1	1.45
A	E010091813064	E642781 N4204539	09/18	0835	22.95	.928	0.48	7.41	3	8.00	7.6	5.05
B	E010091813065	E642134 N4204678	09/18	0830	23.72	.941	0.50	6.92	3	7.93	7.9	1.31
C	E010091813066	E641916 N4204865	09/18	0825	23.76	.942	0.49	6.94	3	7.95	8.2	1.15
A	E010092613068	E642781 N4204539	09/26	0845	21.02	.906	0.47	7.65	3	8.03	7.5	1.46
B	E010092613069	E642134 N4204678	09/26	0830	20.96	.695	0.47	7.64	3	8.02	7.4	ND
C	E010092613070	E641916 N4204865	09/26	0825	19.03	.971	0.51	7.88	3	8.04	5.3	ND
A	E010101013079	E642781 N4204539	10/10	0830	1837	.675	0.35	7.89	3	7.95	3.4	1.02
B	E010101013080	E642134 N4204678	10/10	0825	18069	.760	0.39	7.28	3	7.87	5.8	ND
C	E010101013081	E641916 N4204865	10/10	0820	18.75	.750	0.35	7.32	3	7.91	5.4	ND
A	E010101813090	E642781 N4204539	10/18	0940	18.08	.753	0.39	9.41	3	8.06	6.5	ND
B	E010101813091	E642134 N4204678	10/18	0932	18.12	.760	0.39	8.29	3	7.94	5.2	ND
C	E010101813092	E641916 N4204865	10/18	0926	17.88	.756	0.39	8.38	3	7.97	0.7	ND
A	**E010110413100**	E642781 N4204539	**11/04**	**0845**	**13.76**	**.477**	**0.24**	**9.63**	**3**	**7.93**	**11.7**	**ND**
B	**E010110413101**	E642134 N4204678	**11/04**	**0840**	**14.42**	**.448**	**0.24**	**9.18**	**3**	**7.88**	**2.3**	**ND**
C	**E010110413102**	E641916 N4204865	**11/04**	**0830**	**14.48**	**.276**	**0.22**	**9.38**	**3**	**7.81**	**12.7**	**ND**

APPENDIX B

- Pesticide Control Recommendation
- Fastest Results
- CDFA NPDES Results

California Agriculture Pest Control Recommendation

Aquatic Herbicide Application

Pest Control Advisor: David C. Blodget
3300 Nord Avenue
Bakersfield, CA 93314
Phone: 916-955-2464
daveb@sepro.com

License Number: PCA 75633

NOTE: All products recommended below are general use herbicides.

1) **Owner of Treatment Site: Sacramento-San Joaquin Delta, California Department of Boating & Waterways, as lead management agency.**

2) **Product Names: SonarOne (Pellet), Sonar PR (Precision Release pellet), Sonar Q (Quick Release pellet).**

3) **Application Rate: SonarOne at 5-20 ppb per application, Sonar Q at 5-20 ppb per application and Sonar PR at 5-20 ppb per application. Treatment protocol is designed to maintain a range of 1-10 ppb of Fluridone in the water column during the treatment period.**

4) **Water Use Restrictions: Always read and follow label recommendations. Water from Sonar treated areas can be immediately used for swimming, fishing and potable uses.**

   Water users are not expected to be impacted by the treatments scheduled under this Fluridone program. The use of FasTEST assay will be used for monitoring Fluridone concentrations in waters surrounding the treatment areas. FasTEST data will also be used to make the necessary adjustments to treatment frequency and rates (within label specifications) to achieve optimum control and monitor concentrations at irrigation intakes. The following guidelines (as specified on the product label) will be implemented should water from these treatment sites be needed for irrigation purposes.

   Water from Sonar treated areas should not be used to irrigate established turf, row crops and tree crops if Fluridone concentrations are greater than 10 ppb. Water from the Sonar treated areas should not be used to irrigate newly seeded grasses, tobacco, tomatoes, peppers and other plants in the Solanaceae family until Fluridone concentrations are 5 ppb or lower. Do not use Fluridone treated water for irrigation of greenhouse or nursery plants until Fluridone concentrations are <1 ppb.

5) **Targeted Aquatic Weed: Brazilian elodea, *Egeria densa*.**

6) Non-Pesticide Control, Warnings and other Remarks:
Applicators must follow NPDES Permit, Fish & Wildlife Service & National Marine Fisheries Service Biological Opinions.

7) Recommended Treatment Protocol:
a) Time/Schedule Treatment Window: April 1st – October 15th, 2013.
b) Scheduled Locations: Site #37- White Slough- 210.0 acres, #93-Discovery Bay West- 170.0 acres, #110, #111-Taylor Slough 108.0 acres, #32- Disappointment Slough- 147.0 acres, #38- Honker Cut- 48.0 acres, #34-Bishop Cut- 112.0 acres, #108- Sandmound Slough- 35.0 acres, #109- Dutch/Sandmound Slough- 136.0 acres, #112-Dutch Slough- 93.0 acres, #216- The Meadows- 28.0 acres, #252b- Hogback Launch- 5.5 acres, #252a- Snug Harbor- 10.0 acres, #91- Cruisers Haven- 18.0 acres, #79- Rivers End Marina- 11.0 acres, 310- #10- Buckley Cove- 34.0 acres, #286- Oxbow Marina- 16.0 acres, #18a- Korth's Pirates Lair- 14.0 acres, #18a- Willow Berm Marina- 19.0 acres and #14- Delta Yacht Club- 3.0 acres.
c) Concentration (ppb): The Sonar products will be used as needed to maintain approximately 1-10 ppb of Fluridone in the water column during the treatment program. Applications will occur as needed per label guidelines.

8) Criteria Used Determining the Need for the Treatment (alternative assessment): CA Dept. of Boating & Waterways has been designated the lead agency to develop and implement a control program for the aquatic weed *Egeria densa* in the Sacramento – San Joaquin Delta, Egeria Densa Control Program (EDCP). The primary objective of this program is to improve navigation in currently infested areas of the Delta by reducing the growth and spread of *Egeria densa*. An Environmental Impact Report (EIR) was completed in 2000 and updated in 2006 to address potential impacts of the EDCP. The proposed Sonar treatment program for 2013 follows the treatment protocols outlined in the EIR, as well as the specific treatment guidelines established by state and federal agencies; State Water Resources Control Board, CA Department of Fish & Game, US Fish & Wildlife and the National Oceanic and Atmospheric Administration.

I certify that alternative and mitigation measures that would substantially lessen any significant adverse impact on the environment have been considered, and if feasible, adopted

Dave Blodget
Pest Control Advisor
SePRO Corporation

Date: May 28, 2013

Expiration Date of Recommendation: December 31, 2013

SePRO Research & Technology Campus
16013 Watson Seed Farm Road, Whitakers, NC 27891

LABORATORY REPORT

Chain of Custody: 2013-10281-00

Page 1 of 5 Total Pages

Customer Company

Company Name: CA Dept Of Boating & Waterways
Address: 2000 Evergreen St., Suite 100
Sacramento, CA 95815

Customer Contact

Contact Person: Geoff Newman
E-Mail Address: gnewman@dbw.ca.gov
Phone:
Fax:

Waterbody Information

Waterbody: Delta - CA Waterbody Size (acres): 000 Depth Average: 3

Sample Information

Lab ID	Sample Location	Test Method	Results	Sampling Date	Sampling Time	Temp at Receipt (C)
24112	7	Sonar/Fluridone (µg/L)	5.1	04/10/2013		
24113	8	Sonar/Fluridone (µg/L)	3.7	04/10/2013		
24114	10	Sonar/Fluridone (µg/L)	2.2	04/10/2013		
24115	11	Sonar/Fluridone (µg/L)	2.3	04/10/2013		
24116	12	Sonar/Fluridone (µg/L)	1.6	04/10/2013		
24117	13	Sonar/Fluridone (µg/L)	1.4	04/10/2013		
24118	14	Sonar/Fluridone (µg/L)	< 1.00	04/10/2013		
24119	15	Sonar/Fluridone (µg/L)	1.1	04/10/2013		
24120	16	Sonar/Fluridone (µg/L)	1.1	04/10/2013		
24121	17	Sonar/Fluridone (µg/L)	< 1.00	04/10/2013		
24122	18	Sonar/Fluridone (µg/L)	< 1.00	04/10/2013		
24123	19	Sonar/Fluridone (µg/L)	1.3	04/10/2013		
24124	20	Sonar/Fluridone (µg/L)	2.5	04/10/2013		
24125	21	Sonar/Fluridone (µg/L)	4.2	04/10/2013		

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SRTC SePRO Research & Technology Campus

Chain of Custody: 2013-10281-00 **Page 2 of 5 Total Pages**

Waterbody Information

Waterbody: Delta - CA Waterbody Size (acres): 000 Depth Average: 3

Sample Information

Lab ID	Sample Location	Test Method	Results	Sampling Date	Sampling Time	Temp At Receipt (C)
24126	22			04/10/2013		
		Sonar/Fluridone (µg/L)	4			
24127	23			04/10/2013		
		Sonar/Fluridone (µg/L)	7.2			
24128	24			04/10/2013		
		Sonar/Fluridone (µg/L)	2.1			
24129	29			04/10/2013		
		Sonar/Fluridone (µg/L)	6			
24130	30			04/10/2013		
		Sonar/Fluridone (µg/L)	8.2			
24131	31			04/10/2013		
		Sonar/Fluridone (µg/L)	5.7			
24132	32			04/10/2013		
		Sonar/Fluridone (µg/L)	5.5			
24133	33			04/10/2013		
		Sonar/Fluridone (µg/L)	6.1			
24134	34			04/10/2013		
		Sonar/Fluridone (µg/L)	3.5			
24135	35			04/10/2013		
		Sonar/Fluridone (µg/L)	3.3			
24136	36			04/10/2013		
		Sonar/Fluridone (µg/L)	13.9			
24137	37			04/10/2013		
		Sonar/Fluridone (µg/L)	2.5			
24138	38			04/10/2013		
		Sonar/Fluridone (µg/L)	< 1.00			
24139	45			04/10/2013		
		Sonar/Fluridone (µg/L)	1.2			
24140	46			04/10/2013		
		Sonar/Fluridone (µg/L)	< 1.00			
24141	47			04/10/2013		
		Sonar/Fluridone (µg/L)	2.2			
24142	48			04/10/2013		
		Sonar/Fluridone (µg/L)	2.2			

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Chain of Custody: 2013-10281-00 **Page 3 of 5 Total Pages**

Waterbody Information

Waterbody: Delta - CA Waterbody Size (acres): 000 Depth Average: 3

Sample Information

Lab ID	Sample Location	Test Method	Results	Sampling Date	Sampling Time	Temp at Receipt (C)
24143	49	Sonar/Fluridone (µg/L)	2.3	04/10/2013		
24144	50	Sonar/Fluridone (µg/L)	1.7	04/10/2013		
24145	51	Sonar/Fluridone (µg/L)	1.8	04/10/2013		
24146	52	Sonar/Fluridone (µg/L)	1.7	04/10/2013		
24147	53	Sonar/Fluridone (µg/L)	1.5	04/10/2013		
24148	54	Sonar/Fluridone (µg/L)	1.3	04/10/2013		
24149	55	Sonar/Fluridone (µg/L)	1.5	04/10/2013		
24150	56	Sonar/Fluridone (µg/L)	< 1.00	04/10/2013		
24151	57	Sonar/Fluridone (µg/L)	5.5	04/10/2013		
24152	58	Sonar/Fluridone (µg/L)	1.8	04/10/2013		
24153	61	Sonar/Fluridone (µg/L)	6.3	04/10/2013		
24154	62	Sonar/Fluridone (µg/L)	< 1.00	04/10/2013		
24155	63	Sonar/Fluridone (µg/L)	< 1.00	04/10/2013		
24156	64	Sonar/Fluridone (µg/L)	< 1.00	04/10/2013		
24157	65	Sonar/Fluridone (µg/L)	3.7	04/10/2013		
24158	66	Sonar/Fluridone (µg/L)	1.3	04/10/2013		
24159	67	Sonar/Fluridone (µg/L)	< 1.00	04/10/2013		

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Chain of Custody: 2013-10281-00 **Page 4 of 5 Total Pages**

Waterbody Information

Waterbody: Delta - CA Waterbody Size (acres): 000 Depth Average: 3

Sample Information

Lab ID	Sample Location	Test Method	Results	Sampling Date	Sampling Time	Temp at Receipt (C)
24160	68			04/10/2013		
		Sonar/Fluridone (µg/L)	< 1.00			
24161	ECCD 1			04/10/2013		
		Sonar/Fluridone (µg/L)	< 1.00			
24162	ECCD 2			04/10/2013		
		Sonar/Fluridone (µg/L)	1.2			
24163	60			04/10/2013		
		Sonar/Fluridone (µg/L)	9.9			
24164	59			04/10/2013		
		Sonar/Fluridone (µg/L)	5.7			
24165	1			04/10/2013		
		Sonar/Fluridone (µg/L)	3.3			
24166	2			04/10/2013		
		Sonar/Fluridone (µg/L)	< 1.00			
24167	3			04/10/2013		
		Sonar/Fluridone (µg/L)	6			

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SRTC SePRO Research & Technology Campus

Chain of Custody: 2013-10281-00 **Page 5 of 5 Total Pages**

Waterbody Information

Waterbody: Delta - CA Waterbody Size (acres): 000 Depth Average: 3

Sample Information

Lab ID	Sample Location	Test Method	Results	Sampling Date	Sampling Time	Temp at Receipt (C)

ANALYSIS STATEMENTS:
SAMPLE RECEIPT /HOLDING TIMES: All samples arrived in an acceptable condition and were analyzed within prescribed holding times in accordance with the SRTC Laboratory Sample Receipt Policy unless otherwise noted in the report.
PRESERVATION. Samples requiring preservation were verified prior to sample analysis and any qualifiers will be noted in the report.
QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.
COMMENTS: No significant observations were made unless noted in the report.

Laboratory Information

Date Received: 06/13/2013
Time Received: 10:00
Date Results Sent: 06/14/2013

Sample Preparation Date: 06/13/2013
Date Analysis Performed: 06/14/2013

Disclaimer: The results listed within this Laboratory Report relate only to the samples tested in the laboratory. The analyses conducted in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a dry weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the exclusive use of SRTC Laboratory and its client. This report shall not be reproduced, except in full, without written permission from SRTC Laboratory. The Chain of Custody is included and is an essential component of this report.
This entire report was reviewed and approved for release.

Reviewed By: SRTC Laboratory Manager

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SePRO Research & Technology Campus
16013 Watson Seed Farm Road, Whitakers, NC 27891

LABORATORY REPORT

Chain of Custody: 2013-10666-00

Page 1 of 5 Total Pages

Customer Company

Company Name: CA Dept Of Boating & Waterways
Address: 2000 Evergreen St., Suite 100
Sacramento, CA 95815

Customer Contact

Contact Person: Geoff Newman
E-Mail Address: gnewman@dbw.ca.gov
Phone:
Fax:

Waterbody Information

Waterbody: Delta - CA Waterbody Size (acres): 000 Depth Average: 3

Sample Information

Lab ID	Sample Location	Test Method	Results	Sampling Date	Sampling Time	Temp at Receipt (C)
24439	1	Sonar/Fluridone (µg/L)	4.3	06/17/2013		
24440	2	Sonar/Fluridone (µg/L)	< 1.00	06/17/2013		
24441	3	Sonar/Fluridone (µg/L)	5.3	06/17/2013		
24442	7	Sonar/Fluridone (µg/L)	9.5	06/17/2013		
24443	8	Sonar/Fluridone (µg/L)	6.6	06/17/2013		
24444	10	Sonar/Fluridone (µg/L)	4.6	06/17/2013		
24445	11	Sonar/Fluridone (µg/L)	4.2	06/17/2013		
24446	12	Sonar/Fluridone (µg/L)	3.5	06/17/2013		
24447	13	Sonar/Fluridone (µg/L)	2.9	06/17/2013		
24448	14	Sonar/Fluridone (µg/L)	3.0	06/17/2013		
24449	15	Sonar/Fluridone (µg/L)	< 1.00	06/17/2013		
24450	16	Sonar/Fluridone (µg/L)	< 1.00	06/17/2013		
24451	17	Sonar/Fluridone (µg/L)	1.2	06/17/2013		
24452	18	Sonar/Fluridone (µg/L)	5.0	06/17/2013		

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SePRO Research & Technology Campus

Chain of Custody: 2013-10666-00

Waterbody Information

Waterbody: Delta - CA Waterbody Size (acres): 000 Depth Average: 3

Sample Information

Lab ID	Sample Location	Test Method	Results	Sampling Date	Sampling Time	Temp at Receipt (C)
24453	19	Sonar/Fluridone (µg/L)	4.4	06/17/2013		
24454	20	Sonar/Fluridone (µg/L)	7.1	06/17/2013		
24455	21	Sonar/Fluridone (µg/L)	13.0	06/17/2013		
24456	22	Sonar/Fluridone (µg/L)	6.9	06/17/2013		
24457	23	Sonar/Fluridone (µg/L)	< 1.00	06/17/2013		
24458	24	Sonar/Fluridone (µg/L)	2.1	06/17/2013		
24459	29	Sonar/Fluridone (µg/L)	5.2	06/17/2013		
24460	30	Sonar/Fluridone (µg/L)	3.0	06/17/2013		
24461	31	Sonar/Fluridone (µg/L)	3.2	06/17/2013		
24462	32	Sonar/Fluridone (µg/L)	1.6	06/17/2013		
24463	33	Sonar/Fluridone (µg/L)	1.1	06/17/2013		
24464	34	Sonar/Fluridone (µg/L)	2.1	06/17/2013		
24465	35	Sonar/Fluridone (µg/L)	2.7	06/17/2013		
24466	36	Sonar/Fluridone (µg/L)	11.5	06/17/2013		
24467	37	Sonar/Fluridone (µg/L)	10.4	06/17/2013		
24468	38	Sonar/Fluridone (µg/L)	1.2	06/17/2013		
24469	43	Sonar/Fluridone (µg/L)	2.3	06/17/2013		

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SePRO Research & Technology Campus

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Waterbody Information

Waterbody: Delta - CA Waterbody Size (acres): 000 Depth Average: 3

Sample Information

Lab ID	Sample Location	Test Method	Results	Sampling Date	Sampling Time	Temp at Receipt (C)
24470	46	Sonar/Fluridone (µg/L)	3.2	06/17/2013		
24471	47	Sonar/Fluridone (µg/L)	3.8	06/17/2013		
24472	48	Sonar/Fluridone (µg/L)	4.5	06/17/2013		
24473	49	Sonar/Fluridone (µg/L)	3.5	06/17/2013		
24474	50	Sonar/Fluridone (µg/L)	3.2	06/17/2013		
24475	51	Sonar/Fluridone (µg/L)	3.1	06/17/2013		
24476	52	Sonar/Fluridone (µg/L)	3.7	06/17/2013		
24477	53	Sonar/Fluridone (µg/L)	3.1	06/17/2013		
24478	54	Sonar/Fluridone (µg/L)	3.0	06/17/2013		
24479	55	Sonar/Fluridone (µg/L)	2.4	06/17/2013		
24480	56	Sonar/Fluridone (µg/L)	3.0	06/17/2013		
24481	57	Sonar/Fluridone (µg/L)	2.1	06/17/2013		
24482	58	Sonar/Fluridone (µg/L)	5.5	06/17/2013		
24483	59	Sonar/Fluridone (µg/L)	3.7	06/17/2013		
24484	60	Sonar/Fluridone (µg/L)	7.8	06/17/2013		
24485	61	Sonar/Fluridone (µg/L)	1.2	06/17/2013		
24486	62	Sonar/Fluridone (µg/L)	< 1.00	06/17/2013		

Original

SePRO Research & Technology Campus

Chain of Custody: 2013-10666-00 **Page 4 of 5 Total Pages**

Waterbody Information

Waterbody: Delta - CA Waterbody Size (acres): 000 Depth Average: 3

Sample Information

Lab ID	Sample Location	Test Method	Results	Sampling Date	Sampling Time	Temp at Receipt (C)
24487	63			06/17/2013		
		Sonar/Fluridone (µg/L)	1.1			
24488	64			06/17/2013		
		Sonar/Fluridone (µg/L)	7.9			
24489	65			06/17/2013		
		Sonar/Fluridone (µg/L)	1.3			
24490	66			06/17/2013		
		Sonar/Fluridone (µg/L)	< 1.00			
24491	67			06/17/2013		
		Sonar/Fluridone (µg/L)	< 1.00			
24492	68			06/17/2013		
		Sonar/Fluridone (µg/L)	3.0			
24493	ECCD 1			06/17/2013		
		Sonar/Fluridone (µg/L)	1.7			
24494	ECCD 2			06/17/2013		
		Sonar/Fluridone (µg/L)	< 1.00			

Original

SRTC SePRO Research & Technology Campus

Chain of Custody: 2013-10666-00 **Page 5 of 5 Total Pages**

Waterbody Information

Waterbody: Dulu - CA Waterbody Size (acres): 000 Depth Average: 3

Sample Information

Lab ID	Sample Location	Test Method	Results	Sampling Date	Sampling Time	Temp at Receipt (C)

ANALYSIS STATEMENTS:
SAMPLE RECEIPT/HOLDING TIMES: All samples arrived in an acceptable condition and were analyzed within prescribed holding times in accordance with the SRTC Laboratory Sample Receipt Policy unless otherwise noted in the report.
PRESERVATION: Samples requiring preservation were verified prior to sample analysis and any qualifiers will be noted in the report.
QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.
COMMENTS: No significant observations were made unless noted in the report.

Laboratory Information

Date Received: 06/20/2013
Time Received: 10:00
Date Results Sent: 06/21/2013

Sample Preparation Date: 06/20/2013
Date Analysis Performed: 06/21/2013

Disclaimer: The results listed within this Laboratory Report relate only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a dry weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the exclusive use of SRTC Laboratory and its client. This report shall not be reproduced, except in full, without written permission from SRTC Laboratory. The Chain of Custody is included and is an essential component of this report.

This dated report was reviewed and approved for release.

Reviewed By: SRTC Laboratory Manager

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Original

SePRO Research & Technology Campus
16013 Watson Seed Farm Road, Whitakers, NC 27891

LABORATORY REPORT

Chain of Custody: 2013-10982-00

Page 1 of 2 Total Pages

Customer Company

Company Name: CA Dept Of Boating & Waterways
Address: 2000 Evergreen St., Suite 100
Sacramento, CA 95815

Customer Contact

Contact Person: Geoff Newman
E-Mail Address: gnewman@dbw.ca.gov
Phone:
Fax:

Waterbody Information

Waterbody: Delta - CA Waterbody Size (acres): 600 Depth Average: 3

Sample Information

Lab ID	Sample Location	Test Method	Results	Sampling Date	Sampling Time	Temp at Receipt (C)
24642	ECCD1			06/24/2013		
		Sonar/Fluridone (µg/L)	< 1.00			
24643	ECCD2			06/24/2013		
		Sonar/Fluridone (µg/L)	< 1.00			
24644	8			06/24/2013		
		Sonar/Fluridone (µg/L)	4.1			
24645	11			06/24/2013		
		Sonar/Fluridone (µg/L)	2.5			
24646	19			06/24/2013		
		Sonar/Fluridone (µg/L)	1.2			
24647	30			06/24/2013		
		Sonar/Fluridone (µg/L)	1.6			
24648	34			06/24/2013		
		Sonar/Fluridone (µg/L)	1.9			
24649	38			06/24/2013		
		Sonar/Fluridone (µg/L)	< 1.00			
24650	46			06/24/2013		
		Sonar/Fluridone (µg/L)	< 1.00			
24651	50			06/24/2013		
		Sonar/Fluridone (µg/L)	2.6			

Original

SePRO Research & Technology Campus

Chain of Custody: 2013-10982-00 **Page 2 of 2 Total Pages**

Waterbody Information

Waterbody: Delta - CA Waterbody Size (acres): 000 Depth Average: 3

Sample Information

Lab ID	Sample Location	Test Method	Results	Sampling Date	Sampling Time	Temp at Receipt (C)

ANALYSIS STATEMENTS:
SAMPLE RECEIPT/HOLDING TIMES: All samples arrived in an acceptable condition and were analyzed within prescribed holding times in accordance with the SRTC Laboratory Sample Receipt Policy unless otherwise noted in the report.
PRESERVATION: Samples requiring preservation were verified prior to sample analysis and any qualifiers will be noted in the report.
QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.
COMMENTS: No significant observations were made unless noted in the report.

Laboratory Information

Date Received: 06/27/2013
Time Received: 10:00
Date Results Sent: 06/28/2013

Sample Preparation Date 06/27/2013
Date Analysis Performed: 06/28/2013

Disclaimer: The results listed within this Laboratory Report relate only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable specifications as noted. All soil samples are reported on a dry weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the exclusive use of SRTC Laboratory and its client. This report shall not be reproduced, except in full, without written permission of the SRTC Laboratory. The Chain of Custody is included and is an essential component of this report.

This entire report is at reviewed and approved for release.

Reviewed By: SRTC Laboratory Manager

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SePRO Research & Technology Campus
16013 Watson Seed Farm Road, Whitakers, NC 27891

LABORATORY REPORT

Chain of Custody: 2013-11301-00

Page 1 of 2 Total Pages

Customer Company

Company Name: CA Dept Of Boating & Waterways
Address: 2000 Evergreen St., Suite 100
Sacramento, CA 95815

Customer Contact

Contact Person: Geoff Newman
E-Mail Address: gnewman@dbw.ca.gov
Phone:
Fax:

Waterbody Information

Waterbody: Delta - CA Waterbody Size (acres): 100 Depth Average: 3

Sample Information

Lab ID	Sample Location	Test Method	Results	Sampling Date	Sampling Time	Temp at Receipt (C)
24772	1	Sonar/Fluridone (µg/L)	9.4	07/01/2013		
24773	2	Sonar/Fluridone (µg/L)	4.5	07/01/2013		
24774	3	Sonar/Fluridone (µg/L)	3.3	07/01/2013		
24775	59	Sonar/Fluridone (µg/L)	< 1.00	07/01/2013		
24776	60	Sonar/Fluridone (µg/L)	1.1	07/01/2013		
24777	ECCD1	Sonar/Fluridone (µg/L)	< 1.00	07/02/2013		
24778	ECCD2	Sonar/Fluridone (µg/L)	< 1.00	07/02/2013		
24779	61	Sonar/Fluridone (µg/L)	< 1.00	/ /		

Original

SePRO Research & Technology Campus

Chain of Custody: 2013-11301-00 **Page 2 of 2 Total Pages**

Waterbody Information

Waterbody: Delta - CA Waterbody Size (acres): 000 Depth Average: 3

Sample Information

Lab ID	Sample Location	Test Method	Results	Sampling Date	Sampling Time	Temp at Receipt (C)

ANALYSIS STATEMENTS:
SAMPLE RECEIPT / HOLDING TIMES: All samples arrived in an acceptable condition and were analyzed within prescribed holding times in accordance with the SRTC Laboratory Sample Receipt Policy unless otherwise noted in the report.
PRESERVATION: Samples requiring preservation were verified prior to sample analysis and any qualifiers will be noted in the report.
QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.
COMMENTS: No significant observations were made unless noted in the report.

Laboratory Information

Date Received: 07/03/2013
Time Received: 10:00
Date Results Sent: 07/05/2013

Sample Preparation Date: 07/03/2013
Date Analysis Performed: 07/05/2013

Disclaimer: The results listed within this Laboratory Report relate only to the samples listed in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a dry weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the exclusive use of SRTC Laboratory and its client. This report shall not be reproduced, except in full, without written permission from SRTC Laboratory. The Chain of Custody is included and is an essential component of this report.
This entire report has reviewed and approved for release.

Reviewed By: SRTC Laboratory Manager

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SePRO Research & Technology Campus
16013 Watson Seed Farm Road, Whitakers, NC 27891

LABORATORY REPORT

Chain of Custody: 2013-11924-00

Page 1 of 5 Total Pages

Customer Company

Company Name: CA Dept Of Boating & Waterways
Address: 2000 Evergreen St., Suite 100
Sacramento, CA 95815

Customer Contact

Contact Person: Geoff Newman
E-Mail Address: gnewman@dbw.ca.gov
Phone:
Fax:

Waterbody Information

Waterbody: Delta - CA Waterbody Size (acres): 600 Depth Average: 3

Sample Information

Lab ID	Sample Location	Test Method	Results	Sampling Date	Sampling Time	Temp at Receipt (C)
24915	1	Sonar/Fluridone (µg/L)	4.3	07/08/2013		
24916	2	Sonar/Fluridone (µg/L)	2.3	07/08/2013		
24917	3	Sonar/Fluridone (µg/L)	3.6	07/08/2013		
24918	7	Sonar/Fluridone (µg/L)	6.6	07/08/2013		
24919	8	Sonar/Fluridone (µg/L)	3.4	07/08/2013		
24920	9	Sonar/Fluridone (µg/L)	2.3	07/08/2013		
24921	10	Sonar/Fluridone (µg/L)	1.8	07/08/2013		
24922	11	Sonar/Fluridone (µg/L)	1.9	07/08/2013		
24923	12	Sonar/Fluridone (µg/L)	2.1	07/08/2013		
24924	13	Sonar/Fluridone (µg/L)	1.5	07/08/2013		
24925	14	Sonar/Fluridone (µg/L)	1.0	07/08/2013		
24926	15	Sonar/Fluridone (µg/L)	2.3	07/08/2013		
24927	16	Sonar/Fluridone (µg/L)	1.8	07/08/2013		
24928	17	Sonar/Fluridone (µg/L)	1.2	07/08/2013		

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Chain of Custody: 2013-11924-00 **Page 2 of 5 Total Pages**

Waterbody Information

Waterbody: Delta - CA Waterbody Size (acres): 600 Depth Average: 3

Sample Information

Lab ID	Sample Location	Test Method	Results	Sampling Date	Sampling Time	Temp at Receipt (C)
24929	18	Sonar/Fluridone (µg/L)	< 1.00	07/08/2013		
24930	19	Sonar/Fluridone (µg/L)	1.5	07/08/2013		
24931	20	Sonar/Fluridone (µg/L)	2.9	07/08/2013		
24932	21	Sonar/Fluridone (µg/L)	3.8	07/08/2013		
24933	22	Sonar/Fluridone (µg/L)	3.9	07/08/2013		
24934	23	Sonar/Fluridone (µg/L)	5.9	07/08/2013		
24935	24	Sonar/Fluridone (µg/L)	3.0	07/08/2013		
24936	29	Sonar/Fluridone (µg/L)	< 1.00	07/08/2013		
24937	30	Sonar/Fluridone (µg/L)	2.8	07/08/2013		
24938	31	Sonar/Fluridone (µg/L)	1.9	07/08/2013		
24939	32	Sonar/Fluridone (µg/L)	< 1.00	07/08/2013		
24940	33	Sonar/Fluridone (µg/L)	1.8	07/08/2013		
24941	34	Sonar/Fluridone (µg/L)	1.3	07/08/2013		
24942	35	Sonar/Fluridone (µg/L)	2.6	07/08/2013		
24943	36	Sonar/Fluridone (µg/L)	6.1	07/08/2013		
24944	37	Sonar/Fluridone (µg/L)	4.4	07/08/2013		
24945	bCCD1	Sonar/Fluridone (µg/L)	4.6	07/08/2013		

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SePRO Research & Technology Campus

Chain of Custody: 2013-11924-00 **Page 3 of 5 Total Pages**

Waterbody Information

Waterbody: Delta - CA Waterbody Size (acres): 000 Depth Average: 3

Sample Information

Lab ID	Sample Location	Test Method	Results	Sampling Date	Sampling Time	Temp at Receipt (C)
24946	ECCD2			07/08/2013		
		Sonar/Fluridone (µg/L)	< 1.00			
24947	38			07/08/2013		
		Sonar/Fluridone (µg/L)	< 1.00			
24948	45			07/08/2013		
		Sonar/Fluridone (µg/L)	1.4			
24949	46			07/08/2013		
		Sonar/Fluridone (µg/L)	1.7			
24950	47			07/08/2013		
		Sonar/Fluridone (µg/L)	2.0			
24951	48			07/08/2013		
		Sonar/Fluridone (µg/L)	3.5			
24952	49			07/08/2013		
		Sonar/Fluridone (µg/L)	3.6			
24953	50			07/08/2013		
		Sonar/Fluridone (µg/L)	5.6			
24954	51			07/08/2013		
		Sonar/Fluridone (µg/L)	3.5			
24955	52			07/08/2013		
		Sonar/Fluridone (µg/L)	3.5			
24956	53			07/08/2013		
		Sonar/Fluridone (µg/L)	3.4			
24957	54			07/08/2013		
		Sonar/Fluridone (µg/L)	3.5			
24958	55			07/08/2013		
		Sonar/Fluridone (µg/L)	2.5			
24959	56			07/08/2013		
		Sonar/Fluridone (µg/L)	2.6			
24960	57			07/08/2013		
		Sonar/Fluridone (µg/L)	1.9			
24961	58			07/08/2013		
		Sonar/Fluridone (µg/L)	11.7			
24962	59			07/08/2013		
		Sonar/Fluridone (µg/L)	3.1			

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SRTC SePRO Research & Technology Campus

Chain of Custody: 2013-11924-00 **Page 4 of 5 Total Pages**

Waterbody Information

Waterbody: Delta - CA Waterbody Size (acres): 600 Depth Average: 3

Sample Information

Lab ID	Sample Location	Test Method	Results	Sampling Date	Sampling Time	Temp at Receipt (C)
24963	60	Sonar/Fluridone (µg/L)	2.0	07/08/2013		
24964	61	Sonar/Fluridone (µg/L)	4.1	07/08/2013		
24965	62	Sonar/Fluridone (µg/L)	1.0	07/08/2013		
24966	63	Sonar/Fluridone (µg/L)	< 1.00	07/08/2013		
24967	64	Sonar/Fluridone (µg/L)	< 1.00	07/08/2013		
24968	65	Sonar/Fluridone (µg/L)	2.7	07/08/2013		
24969	66	Sonar/Fluridone (µg/L)	1.3	07/08/2013		
24970	67	Sonar/Fluridone (µg/L)	< 1.00	07/08/2013		
24971	68	Sonar/Fluridone (µg/L)	3.9	07/08/2013		

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SePRO Research & Technology Campus

Chain of Custody: 2013-11924-00 **Page 5 of 5 Total Pages**

Waterbody Information

Waterbody: Delta - C4 Waterbody Size (acres): 000 Depth Average: 3

Sample Information

Lab ID	Sample Location	Test Method	Results	Sampling Date	Sampling Time	Temp at Receipt (C)

ANALYSIS STATEMENTS:
SAMPLE RECEIPT /HOLDING TIMES: All samples arrived in an acceptable condition and were analyzed within prescribed holding times in accordance with the SRTC Laboratory Sample Receipt Policy, unless otherwise noted in the report.
PRESERVATION: Samples requiring preservation were verified prior to sample analysis and any qualifiers will be noted in the report.
QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.
COMMENTS: No significant observations were made unless noted in the report.

Laboratory Information

Date Received: 07/12/2013
Time Received: 10:00
Date Results Sent: / /
Sample Preparation Date: 07/12/2013
Date Analysis Performed: / /

Disclaimer: The results listed within this Laboratory Report relate only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a dry weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the exclusive use of SRTC Laboratory and its client. This report shall not be reproduced, except in full, without written permission from SRTC Laboratory. The Chain of Custody is included and is an essential component of this report.
This water report was reviewed and approved for release.

Reviewed By: SRTC Laboratory Manager

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Original

SePRO Research & Technology Campus
16013 Watson Seed Farm Road, Whitakers, NC 27891

LABORATORY REPORT

Chain of Custody: 2013-12208-00

Page 1 of 2 Total Pages

Customer Company

Company Name: CA Dept Of Boating & Waterways
Address: 2000 Evergreen St., Suite 100
Sacramento, CA 95815

Customer Contact

Contact Person: Geoff Newman
E-Mail Address: gnewman@dbw.ca.gov
Phone:
Fax:

Waterbody Information

Waterbody: Sac San Joaquin Delta - CA Waterbody Size (acres). Depth Average: 3

Sample Information

Lab ID	Sample Location	Test Method	Results	Sampling Date	Sampling Time	Temp at Receipt (C)
25183	8	Sonar/Fluridone (µg/L)	5.3	07/15/2013		
25184	11	Sonar/Fluridone (µg/L)	2.5	07/15/2013		
25185	19	Sonar/Fluridone (µg/L)	1.0	07/15/2013		
25186	30	Sonar/Fluridone (µg/L)	2.2	07/15/2013		
25187	34	Sonar/Fluridone (µg/L)	2.0	07/15/2013		
25188	38	Sonar/Fluridone (µg/L)	< 1.00	07/15/2013		
25189	46	Sonar/Fluridone (µg/L)	1.7	07/15/2013		
25190	50	Sonar/Fluridone (µg/L)	2.4	07/15/2013		
25191	1	Sonar/Fluridone (µg/L)	< 1.00	07/15/2013		
25192	2	Sonar/Fluridone (µg/L)	< 1.00	07/15/2013		
25193	SS	Sonar/Fluridone (µg/L)	< 1.00	07/15/2013		
25194	3N	Sonar/Fluridone (µg/L)	< 1.00	07/15/2013		
25195	5S	Sonar/Fluridone (µg/L)	< 1.00	07/15/2013		
25196	6S	Sonar/Fluridone (µg/L)	1.0	07/15/2013		

Original

SRTC SePRO Research & Technology Campus

Chain of Custody: 2013-12208-00 **Page 2 of 2 Total Pages**

Waterbody Information

Waterbody: Sac San Joaquin Delta - CA Waterbody Size (acres): Depth Average: 3

Sample Information

Lab ID	Sample Location	Test Method	Results	Sampling Date	Sampling Time	Temp at Receipt (C)

ANALYSIS STATEMENTS:
SAMPLE RECEIPT /HOLDING TIMES: All samples arrived in an acceptable condition and were analyzed within prescribed holding times in accordance with the SRTC Laboratory Sample Receipt Policy unless otherwise noted in the report.
PRESERVATION: Samples requiring preservation were verified prior to sample analysis and any qualifiers will be noted in the report.
QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.
COMMENTS: No significant observations were made unless noted in the report.

Laboratory Information

Date Received: 07/18/2013
Time Received: 10:00
Date Results Sent: 07/19/2013

Sample Preparation Date: 07/18/2013
Date Analysis Performed: 07/19/2013

Disclaimer: The results listed within this Laboratory Report relate only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications are noted. All soil samples are reported on a dry weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the exclusive use of SRTC Laboratory and its client. This report shall not be reproduced except in full, without written permission from SRTC Laboratory. The Chain of Custody is included and is an essential component of this report.
This entire report was reviewed and approved for release.

Reviewed By: SRTC Laboratory Manager

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Dream version 14.4.48

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SePRO Research & Technology Campus
16013 Watson Seed Farm Road, Whitakers, NC 27891

LABORATORY REPORT

Chain of Custody: 2013-12554-00

Customer Company

Company Name: CA Dept Of Boating & Waterways
Address: 2000 Evergreen St., Suite 100
Sacramento, CA 95815

Customer Contact

Contact Person: Geoff Newman
E-Mail Address: gnewman@dbw.ca.gov
Phone:
Fax:

Waterbody Information

Waterbody: Delta - CA Waterbody Size (acres): 100 Depth Average: 3

Sample Information

Lab ID	Sample Location	Test Method	Results	Sampling Date	Sampling Time	Temp at Receipt (C)
25293	ECCD1			/ /		
		Sonar/Fluridone (µg/L)	< 1.00			
25294	ECCD2			/ /		
		Sonar/Fluridone (µg/L)	1.0			
25295	ECCD SS			/ /		
		Sonar/Fluridone (µg/L)	< 1.00			
25296	ECCD 3N			/ /		
		Sonar/Fluridone (µg/L)	< 1.00			
25297	ECCD 5S			/ /		
		Sonar/Fluridone (µg/L)	< 1.00			
25298	ECCD 6S			/ /		
		Sonar/Fluridone (µg/L)	1.1			
25299	1			/ /		
		Sonar/Fluridone (µg/L)	5.6			
25300	2			/ /		
		Sonar/Fluridone (µg/L)	< 1.00			
25301	3			/ /		
		Sonar/Fluridone (µg/L)	3.9			
25302	7			/ /		
		Sonar/Fluridone (µg/L)	10.3			
25303	8			/ /		
		Sonar/Fluridone (µg/L)	5.7			
25304	10			/ /		
		Sonar/Fluridone (µg/L)	2.6			
25305	11			/ /		
		Sonar/Fluridone (µg/L)	2.3			
25306	12			/ /		
		Sonar/Fluridone (µg/L)	2.2			

Original

SRTC SePRO Research & Technology Campus

Chain of Custody: 2013-12554-00 Page 2 of 5 Total Pages

Waterbody Information

Waterbody: Delta - CA Waterbody Size (acres): 000 Depth Average: 3

Sample Information

Lab ID	Sample Location	Test Method	Results	Sampling Date	Sampling Time	Temp at Receipt (C)
25307	13			/ /		
		Sonar/Fluridone (µg/L)	1.5			
25308	14			/ /		
		Sonar/Fluridone (µg/L)	13.2			
25309	15			/ /		
		Sonar/Fluridone (µg/L)	1.4			
25310	16			/ /		
		Sonar/Fluridone (µg/L)	1.0			
25311	17			/ /		
		Sonar/Fluridone (µg/L)	< 1.00			
25312	18			/ /		
		Sonar/Fluridone (µg/L)	3.9			
25313	19			/ /		
		Sonar/Fluridone (µg/L)	6.7			
25314	20			/ /		
		Sonar/Fluridone (µg/L)	6.5			
25315	21			/ /		
		Sonar/Fluridone (µg/L)	6.3			
25316	22			/ /		
		Sonar/Fluridone (µg/L)	12.7			
25317	23			/ /		
		Sonar/Fluridone (µg/L)	7.8			
25318	24			/ /		
		Sonar/Fluridone (µg/L)	< 1.00			
25319	29			/ /		
		Sonar/Fluridone (µg/L)	2.9			
25320	30			/ /		
		Sonar/Fluridone (µg/L)	2.4			
25321	31			/ /		
		Sonar/Fluridone (µg/L)	2.2			
25322	32			/ /		
		Sonar/Fluridone (µg/L)	2.2			
25323	33			/ /		
		Sonar/Fluridone (µg/L)	2.3			

Original

SePRO Research & Technology Campus

Chain of Custody: 2013-12554-00 **Page 3 of 5 Total Pages**

Waterbody Information

Waterbody: Delta - CA Waterbody Size (acres): 000 Depth Average 3

Sample Information

Lab ID	Sample Location	Test Method	Results	Sampling Date	Sampling Time	Temp at Receipt (C)
25324	34			/ /		
		Sonar/Fluridone (µg/L)	< 1.00			
25325	35			/ /		
		Sonar/Fluridone (µg/L)	1.6			
25326	36			/ /		
		Sonar/Fluridone (µg/L)	4.6			
25327	37			/ /		
		Sonar/Fluridone (µg/L)	2.4			
25328	38			/ /		
		Sonar/Fluridone (µg/L)	< 1.00			
25329	45			/ /		
		Sonar/Fluridone (µg/L)	1.4			
25330	46			/ /		
		Sonar/Fluridone (µg/L)	1.5			
25331	47			/ /		
		Sonar/Fluridone (µg/L)	2.2			
25332	48			/ /		
		Sonar/Fluridone (µg/L)	2.4			
25333	49			/ /		
		Sonar/Fluridone (µg/L)	2.7			
25334	50			/ /		
		Sonar/Fluridone (µg/L)	2.9			
25335	51			/ /		
		Sonar/Fluridone (µg/L)	2.9			
25336	52			/ /		
		Sonar/Fluridone (µg/L)	2.6			
25337	53			/ /		
		Sonar/Fluridone (µg/L)	2.7			
25338	54			/ /		
		Sonar/Fluridone (µg/L)	2.8			
25339	55			/ /		
		Sonar/Fluridone (µg/L)	2.2			
25340	56			/ /		
		Sonar/Fluridone (µg/L)	< 1.00			

Original

SePRO Research & Technology Campus

Chain of Custody: 2013-12554-00 **Page 4 of 5 Total Pages**

Waterbody Information

Waterbody: Delta - CA Waterbody Size (acres): 900 Depth Average: 3

Sample Information

Lab ID	Sample Location	Test Method	Results	Sampling Date	Sampling Time	Temp at Receipt (C)
25341	57			/ /		
		Sonar/Fluridone (µg/L)	< 1.00			
25342	58			/ /		
		Sonar/Fluridone (µg/L)	1.5			
25343	59			/ /		
		Sonar/Fluridone (µg/L)	9.5			
25344	60			/ /		
		Sonar/Fluridone (µg/L)	2.6			
25345	61			/ /		
		Sonar/Fluridone (µg/L)	1.1			
25346	62			/ /		
		Sonar/Fluridone (µg/L)	< 1.00			
25347	63			/ /		
		Sonar/Fluridone (µg/L)	< 1.00			
25348	64			/ /		
		Sonar/Fluridone (µg/L)	3.2			
25349	65			/ /		
		Sonar/Fluridone (µg/L)	1.5			
25350	66			/ /		
		Sonar/Fluridone (µg/L)	86.0			
25351	67			/ /		
		Sonar/Fluridone (µg/L)	< 1.00			
25352	68			/ /		
		Sonar/Fluridone (µg/L)	9.5			

Original

SePRO Research & Technology Campus

Chain of Custody: 2013-12554-00 **Page 5 of 5 Total Pages**

Waterbody Information

Waterbody: Delta - CA Waterbody Size (acres): 000 Depth Average: 3

Sample Information

Lab ID	Sample Location	Test Method	Results	Sampling Date	Sampling Time	Temp at Receipt (C)

ANALYSIS STATEMENTS:
SAMPLE RECEIPT /HOLDING TIMES: All samples arrived in an acceptable condition and were analyzed within prescribed holding times in accordance with the SRTC Laboratory Sample Receipt Policy unless otherwise noted in the report.
PRESERVATION: Samples requiring preservation were verified prior to sample analysis and any qualifiers will be noted in the report.
QA/QC CRITERIA: All analyses met method criteria, exceptions noted in the report with data qualifiers.
COMMENTS: No significant observations were made unless noted in the report.

Laboratory Information

Date Received: 07/26/2013
Time Received: 10:00
Date Results Sent: 07/26/2013

Sample Preparation Date: 07/26/2013
Date Analysis Performed: 07/26/2013

Disclaimer: The results listed within this Laboratory Report relate only to the samples tested in the laboratory. The analyses contained within report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a dry weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the exclusive use of SRTC Laboratory and its client. This report shall not be reproduced, except in full, without written permission from SRTC Laboratory. The Chain of Custody is included and is an essential component of this report.

This entire report was reviewed and approved for release.

Reviewed By: SRTC Laboratory Manager

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Revision version: 14.4.48

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SePRO Research & Technology Campus
16013 Watson Seed Farm Road, Whitakers, NC 27891

LABORATORY REPORT

Chain of Custody: 2013-12722-00

Page 1 of 2 Total Pages

Customer Company

Company Name: CA Dept Of Boating & Waterways
Address: 2000 Evergreen St., Suite 100
Sacramento, CA 95815

Customer Contact

Contact Person: Geoff Newman
E-Mail Address: gnewman@dbw.ca.gov
Phone:
Fax:

Waterbody Information

Waterbody: Delta - CA Waterbody Size (acres): 000 Depth Average: 3

Sample Information

Lab ID	Sample Location	Test Method	Results	Sampling Date	Sampling Time	Temp at Receipt (C)
25451	ECCD 1			07/29/2013		
		Sonar/Fluridone (µg/L)	< 1.00			
25452	ECCD 2			07/29/2013		
		Sonar/Fluridone (µg/L)	< 1.00			
25453	ECCD 5S			07/29/2013		
		Sonar/Fluridone (µg/L)	< 1.00			
25454	ECCD 6S			07/29/2013		
		Sonar/Fluridone (µg/L)	< 1.00			
25455	ECCD 8S			07/29/2013		
		Sonar/Fluridone (µg/L)	1.5			
25456	ECCD 3N			07/29/2013		
		Sonar/Fluridone (µg/L)	1.0			
25457	8			07/29/2013		
		Sonar/Fluridone (µg/L)	6.0			
25458	11			07/29/2013		
		Sonar/Fluridone (µg/L)	1.9			
25459	19			07/29/2013		
		Sonar/Fluridone (µg/L)	1.1			
25460	30			07/29/2013		
		Sonar/Fluridone (µg/L)	4.8			
25461	34			07/29/2013		
		Sonar/Fluridone (µg/L)	1.4			
25462	38			07/29/2013		
		Sonar/Fluridone (µg/L)	< 1.00			
25463	46			07/29/2013		
		Sonar/Fluridone (µg/L)	2.0			
25464	50			07/29/2013		
		Sonar/Fluridone (µg/L)	3.9			

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SRTC SePRO Research & Technology Campus

Chain of Custody: 2013-12722-00 **Page 2 of 2 Total Pages**

Waterbody Information

Waterbody: Delta - CA Waterbody Size (acres): 000 Depth Average: 3

Sample Information

Lab ID	Sample Location	Test Method	Results	Sampling Date	Sampling Time	Temp at Receipt (C)

ANALYSIS STATEMENTS:
SAMPLE RECEIPT /HOLDING TIMES: All samples arrived in an acceptable condition and were analyzed within prescribed holding times in accordance with the SRTC Laboratory Sample Receipt Policy unless otherwise noted in the report.
PRESERVATION: Samples requiring preservation were verified prior to sample analysis and any qualifiers will be noted in the report.
QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.
COMMENTS: No significant observations were made unless noted in the report.

Laboratory Information

Date Received: 07/31/2013
Time Received: 10:00
Date Results Sent: 08/01/2013

Sample Preparation Date: 07/31/2013
Date Analysis Performed: 08/01/2013

Disclaimer: The results listed within this Laboratory Report relate only to the samples listed in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a dry weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the exclusive use of SRTC Laboratory and its client. This report shall not be reproduced, except in full, without written permission from SRTC Laboratory. The Chain of Custody is included and is an essential component of this report.
This entire report was reviewed and approved for release.

Reviewed By: SRTC Laboratory Manager

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SePRO Research & Technology Campus
16013 Watson Seed Farm Road, Whitakers, NC 27891

LABORATORY REPORT

Chain of Custody: 2013-13443-00 **Page 1 of 5 Total Pages**

Customer Company

Company Name: CA Dept Of Boating & Waterways
Address: 2000 Evergreen St., Suite 100
Sacremento, CA 95815

Customer Contact

Contact Person: Geoff Newman
E-Mail Address: gnewman@dbw.ca.gov
Phone:
Fax:

Waterbody Information

Waterbody: Delta - CA Waterbody Size (acres): 000 Depth Average: 3

Sample Information

Lab ID	Sample Location	Test Method	Results	Sampling Date	Sampling Time	Temp at Receipt (C)
25727	ECCD1			08/05/2013		
		Sonar/Fluridone (µg/L)	**1.0**			
25728	ECCD2			08/05/2013		
		Sonar/Fluridone (µg/L)	**< 1.00**			
25732	ECCD 5S			08/05/2013		
		Sonar/Fluridone (µg/L)	**< 1.00**			
25729	ECCD 3N			08/05/2013		
		Sonar/Fluridone (µg/L)	**< 1.00**			
25730	ECCD 5S			08/05/2013		
		Sonar/Fluridone (µg/L)	**< 1.00**			
25731	ECCD 6S			08/05/2013		
		Sonar/Fluridone (µg/L)	**< 1.00**			
25673	1			08/05/2013		
		Sonar/Fluridone (µg/L)	**1.9**			
25674	2			08/05/2013		
		Sonar/Fluridone (µg/L)	**5.1**			
25675	3			08/05/2013		
		Sonar/Fluridone (µg/L)	**6.7**			
25676	7			08/05/2013		
		Sonar/Fluridone (µg/L)	**1.6**			
25677	8			08/05/2013		
		Sonar/Fluridone (µg/L)	**2.2**			
25678	10			08/05/2013		
		Sonar/Fluridone (µg/L)	**1.9**			
25679	11			08/05/2013		
		Sonar/Fluridone (µg/L)	**< 1.00**			
25680	12			08/05/2013		
		Sonar/Fluridone (µg/L)	**1.4**			

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SePRO Research & Technology Campus

Chain of Custody: 2013-13443-00 **Page 2 of 5 Total Pages**

Waterbody Information

Waterbody: Delta - CA Waterbody Size (acres): 000 Depth Average: 3

Sample Information

Lab ID	Sample Location	Test Method	Results	Sampling Date	Sampling Time	Temp at Receipt (C)
25681	13			08/05/2013		
		Sonar/Fluridone (µg/L)	**1.6**			
25682	14			08/05/2013		
		Sonar/Fluridone (µg/L)	**< 1.00**			
25683	15			08/05/2013		
		Sonar/Fluridone (µg/L)	**< 1.00**			
25684	16			08/05/2013		
		Sonar/Fluridone (µg/L)	**1.6**			
25685	17			08/05/2013		
		Sonar/Fluridone (µg/L)	**1.3**			
25686	18			08/05/2013		
		Sonar/Fluridone (µg/L)	**2.1**			
25687	19			08/05/2013		
		Sonar/Fluridone (µg/L)	**3.1**			
25688	20			08/05/2013		
		Sonar/Fluridone (µg/L)	**1.5**			
25689	21			08/05/2013		
		Sonar/Fluridone (µg/L)	**< 1.00**			
25690	22			08/05/2013		
		Sonar/Fluridone (µg/L)	**3.0**			
25691	23			08/05/2013		
		Sonar/Fluridone (µg/L)	**1.4**			
25692	24			08/05/2013		
		Sonar/Fluridone (µg/L)	**< 1.00**			
25693	29			08/05/2013		
		Sonar/Fluridone (µg/L)	**1.7**			
25694	30			08/05/2013		
		Sonar/Fluridone (µg/L)	**1.5**			
25695	31			08/05/2013		
		Sonar/Fluridone (µg/L)	**< 1.00**			
25696	32			08/05/2013		
		Sonar/Fluridone (µg/L)	**1.0**			
25697	33			08/05/2013		
		Sonar/Fluridone (µg/L)	**< 1.00**			

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SePRO Research & Technology Campus

Chain of Custody: 2013-13443-00 **Page 3 of 5 Total Pages**

Waterbody Information

Waterbody: Delta - CA Waterbody Size (acres): 000 Depth Average: 3

Sample Information

Lab ID	Sample Location	Test Method	Results	Sampling Date	Sampling Time	Temp at Receipt (C)
25698	34			08/05/2013		
		Sonar/Fluridone (µg/L)	< 1.00			
25699	35			08/05/2013		
		Sonar/Fluridone (µg/L)	1.4			
25700	36			08/05/2013		
		Sonar/Fluridone (µg/L)	4.4			
25701	37			08/05/2013		
		Sonar/Fluridone (µg/L)	2.8			
25702	38			08/05/2013		
		Sonar/Fluridone (µg/L)	< 1.00			
25703	45			08/05/2013		
		Sonar/Fluridone (µg/L)	1.5			
25704	46			08/05/2013		
		Sonar/Fluridone (µg/L)	1.4			
25705	47			08/05/2013		
		Sonar/Fluridone (µg/L)	1.8			
25706	48			08/05/2013		
		Sonar/Fluridone (µg/L)	1.5			
25707	49			08/05/2013		
		Sonar/Fluridone (µg/L)	2.2			
25708	50			08/05/2013		
		Sonar/Fluridone (µg/L)	1.5			
25709	51			08/05/2013		
		Sonar/Fluridone (µg/L)	2.3			
25710	52			08/05/2013		
		Sonar/Fluridone (µg/L)	1.8			
25711	53			08/05/2013		
		Sonar/Fluridone (µg/L)	2.6			
25712	54			08/05/2013		
		Sonar/Fluridone (µg/L)	1.6			
25713	55			08/05/2013		
		Sonar/Fluridone (µg/L)	3.1			
25714	56			08/05/2013		
		Sonar/Fluridone (µg/L)	1.0			

Original

SePRO Research & Technology Campus

Chain of Custody: 2013-13443-00 **Page 4 of 5 Total Pages**

Waterbody Information

Waterbody: Delta - CA Waterbody Size (acres): 000 Depth Average: 3

Sample Information

Lab ID	Sample Location	Test Method	Results	Sampling Date	Sampling Time	Temp at Receipt (C)
25715	57			08/05/2013		
		Sonar/Fluridone (µg/L)	**1.2**			
25716	58			08/05/2013		
		Sonar/Fluridone (µg/L)	**1.1**			
25717	59			08/05/2013		
		Sonar/Fluridone (µg/L)	**1.2**			
25718	60			08/05/2013		
		Sonar/Fluridone (µg/L)	**3.7**			
25719	61			08/05/2013		
		Sonar/Fluridone (µg/L)	**< 1.00**			
25720	62			08/05/2013		
		Sonar/Fluridone (µg/L)	**< 1.00**			
25721	63			08/05/2013		
		Sonar/Fluridone (µg/L)	**< 1.00**			
25722	64			08/05/2013		
		Sonar/Fluridone (µg/L)	**1.4**			
25723	65			08/05/2013		
		Sonar/Fluridone (µg/L)	**< 1.00**			
25724	66			08/05/2013		
		Sonar/Fluridone (µg/L)	**< 1.00**			
25725	67			08/05/2013		
		Sonar/Fluridone (µg/L)	**< 1.00**			
25726	68			08/05/2013		
		Sonar/Fluridone (µg/L)	**1.8**			

Original

SePRO Research & Technology Campus

Chain of Custody: 2013-13443-00 **Page 5 of 5 Total Pages**

Waterbody Information

Waterbody: Delta - CA Waterbody Size (acres): 000 Depth Average: 3

Sample Information

Lab ID	Sample Location	Test Method	Results	Sampling Date	Sampling Time	Temp at Receipt (C)

ANALYSIS STATEMENTS:
SAMPLE RECEIPT /HOLDING TIMES: All samples arrived in an acceptable condition and were analyzed within prescribed holding times in accordance with the SRTC Laboratory Sample Receipt Policy unless otherwise noted in the report.
PRESERVATION: Samples requiring preservation were verified prior to sample analysis and any qualifiers will be noted in the report.
QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.
COMMENTS: No significant observations were made unless noted in the report.

Laboratory Information

Date Received: 08/12/2013
Time Received: 10:00
Date Results Sent: 08/12/2013

Sample Preparation Date: 08/12/2013
Date Analysis Performed: 08/12/2013

Disclaimer: The results listed within this Laboratory Report relate only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a dry weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the exclusive use of SRTC Laboratory and its client. This report shall not be reproduced, except in full, without written permission from SRTC Laboratory. The Chain of Custody is included and is an essential component of this report.
This entire report was reviewed and approved for release.

Reviewed By: SRTC Laboratory Manager

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SePRO Research & Technology Campus
16013 Watson Seed Farm Road, Whitakers, NC 27891

LABORATORY REPORT

Chain of Custody: 2013-13532-00

Page 1 of 2 Total Pages

Customer Company

Company Name: CA Dept Of Boating & Waterways
Address: 2000 Evergreen St., Suite 100
Sacramento, CA 95815

Customer Contact

Contact Person: Geoff Newman
E-Mail Address: gnewman@dbw.ca.gov
Phone:
Fax:

Waterbody Information

Waterbody: Delta - CA Waterbody Size (acres): 000 Depth Average: 3

Sample Information

Lab ID	Sample Location	Test Method	Results	Sampling Date	Sampling Time	Temp at Receipt (C)
25785	8			/ /		
		Sonar/Fluridone (µg/L)	3.0			
25786	11			/ /		
		Sonar/Fluridone (µg/L)	1.4			
25787	19			/ /		
		Sonar/Fluridone (µg/L)	< 1.000			
25788	39			/ /		
		Sonar/Fluridone (µg/L)	3.5			
25789	34			/ /		
		Sonar/Fluridone (µg/L)	1.1			
25790	ECCD1			/ /		
		Sonar/Fluridone (µg/L)	< 1.000			
25791	ECCD2			/ /		
		Sonar/Fluridone (µg/L)	< 1.000			
25792	ECCD 3N			/ /		
		Sonar/Fluridone (µg/L)	< 1.000			
25793	ECCD 5S			/ /		
		Sonar/Fluridone (µg/L)	< 1.000			
25794	ECCD 6S			/ /		
		Sonar/Fluridone (µg/L)	< 1.000			
25795	ECCD 5S			/ /		
		Sonar/Fluridone (µg/L)	< 1.000			
25796	38			/ /		
		Sonar/Fluridone (µg/L)	< 1.000			
25797	46			/ /		
		Sonar/Fluridone (µg/L)	1.4			
25798	50			/ /		
		Sonar/Fluridone (µg/L)	2.5			

Original

SePRO Research & Technology Campus

Chain of Custody: 2013-13532-00 **Page 2 of 2 Total Pages**

Waterbody Information

Waterbody: Delta - CA Waterbody Size (acres): 000 Depth Average: 3

Sample Information

Lab ID	Sample Location	Test Method	Results	Sampling Date	Sampling Time	Temp at Receipt (C)

ANALYSIS STATEMENTS:
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QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.
COMMENTS: No significant observations were made unless noted in the report.

Laboratory Information

Date Received: 08/14/2013
Time Received: 10:00
Date Results Sent: 08/16/2013

Sample Preparation Date: 08/14/2013
Date Analysis Performed: 08/16/2013

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Reviewed By: SRTC Laboratory Manager

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Datum version: 14.4.48

Original

Date: 6/5/2013
Chemical: Fluridone
LOQ: 1.0 ppb
Lab: CDFA-CAC
Analytical Method: WHS-SM-FL1

Chemical Analytical Results
Reported by: California Department of Food and Agriculture
Center for Analytical Chemistry
3292 Meadowview Rd. Sacramento, CA 95832

Lab Sample ID	DBW ID	Date sample taken	Date sample received	Date sample extracted	Date sample analyzed	Conc. (ppb)	Surrogate recovery(%)	QC Batch	Comments	Sample Type
2013-3896	E038-060313-001	6/3/2013	6/3/2013	NA	6/5/2013	ND	NA	1		Sample
2013-3897	E038-060313-002	6/3/2013	6/3/2013	NA	6/5/2013	ND	NA	1		Sample
2013-3898	E038-060313-003	6/3/2013	6/3/2013	NA	6/5/2013	ND	NA	1		Sample
2013-3899	E038-060313-004	6/3/2013	6/3/2013	NA	6/5/2013	ND	NA	1		Sample
2013-3900	E032-060313-005	6/3/2013	6/3/2013	NA	6/5/2013	ND	NA	1		Sample
2013-3901	E032-060313-006	6/3/2013	6/3/2013	NA	6/5/2013	ND	NA	1		Sample
2013-3902	E032-060313-007	6/3/2013	6/3/2013	NA	6/5/2013	ND	NA	1		Sample
2013-3903	E032-060313-008	6/3/2013	6/3/2013	NA	6/5/2013	ND	NA	1		Sample
2013-3904	E010-060313-009	6/3/2013	6/3/2013	NA	6/5/2013	ND	NA	1		Sample
2013-3905	E010-060313-010	6/3/2013	6/3/2013	NA	6/5/2013	ND	NA	1		Sample
2013-3906	E010-060313-011	6/3/2013	6/3/2013	NA	6/5/2013	ND	NA	1		Sample
2013-3907	E010-060313-012	6/3/2013	6/3/2013	NA	6/5/2013	ND	NA	1		Sample

Page 1

Date: 8/29/2013
Chemical: Fluridone
LOQ: 1.0 ppb
Lab: CDFA-CAC
Analytical Method: WHS-SM-FL1

Chemical Analytical Results
Reported by: California Department of Food and Agriculture
Center for Analytical Chemistry
3292 Meadowview Rd. Sacramento, CA 95832

Lab Sample ID	DBW ID	Date sample taken	Date sample received	Date sample extracted	Date sample analyzed	Conc. (ppb)	Surrogate recovery(%)	QC Batch	Comments	Sample Type
2013-0531	E038-082113-013	8/21/2013	8/21/2013	NA	8/29/2013	ND	NA	2		Sample
2013-0532	E038-082113-014	8/21/2013	8/21/2013	NA	8/29/2013	ND	NA	2		Sample
2013-0533	E038-082113-015	8/21/2013	8/21/2013	NA	8/29/2013	ND	NA	2		Sample
2013-0534	E038-082113-016	8/21/2013	8/21/2013	NA	8/29/2013	ND	NA	2		Sample
2013-0535	E032-082113-017	8/21/2013	8/21/2013	NA	8/29/2013	2.57	NA	2		Sample
2013-0536	E032-082113-018	8/21/2013	8/21/2013	NA	8/29/2013	1.33	NA	2		Sample
2013-0537	E032-082113-019	8/21/2013	8/21/2013	NA	8/29/2013	1.65	NA	2		Sample
2013-0538	E032-082113-020	8/21/2013	8/21/2013	NA	8/29/2013	ND	NA	2		Sample
2013-0539	E032-082113-021	8/21/2013	8/21/2013	NA	8/29/2013	1.76	NA	2		Sample
2013-0540	E010-082113-022	8/21/2013	8/21/2013	NA	8/29/2013	2.92	NA	2		Sample
2013-0541	E010-082113-023	8/21/2013	8/21/2013	NA	8/29/2013	ND	NA	2		Sample
2013-0542	E010-082113-024	8/21/2013	8/21/2013	NA	8/29/2013	ND	NA	2		Sample
2013-0543	E010-082113-025	8/21/2013	8/21/2013	NA	8/29/2013	ND	NA	2		Sample
2013-0544	E010-082113-026	8/21/2013	8/21/2013	NA	8/29/2013	ND	NA	2		Sample

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Date: 8/29/2013
Chemical: Fluridone
LOQ: 1.0 ppb
Lab: CDFA-CAC
Analytical Method: WHS-SM-FL1

Chemical Analytical Results
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Center for Analytical Chemistry
3292 Meadowview Rd. Sacramento, CA95832

Lab Sample ID	DBW ID	Date sample taken	Date sample received	Date sample extracted	Date sample analyzed	Conc. (ppb)	Surrogate recovery(%)	QC Batch	Comments	Sample Type
2013-0704	E032-090513-31	9/5/2013	9/5/2013	NA	9/9/2013	1.46	NA	3		Sample
2013-0705	E032-090513-32	9/5/2013	9/5/2013	NA	9/9/2013	2.22	NA	3		Sample
2013-0706	E032-090513-33	9/5/2013	9/5/2013	NA	9/9/2013	2.61	NA	3		Sample
2013-0707	E032-090513-34	9/5/2013	9/5/2013	NA	9/9/2013	ND	NA	3		Sample
2013-0708	E032-090513-35	9/5/2013	9/5/2013	NA	9/9/2013	1.98	NA	3		Sample
2013-0709	E038-090513-27	9/5/2013	9/5/2013	NA	9/9/2013	ND	NA	3		Sample
2013-0710	E038-090513-28	9/5/2013	9/5/2013	NA	9/9/2013	1.01	NA	3		Sample
2013-0711	E038-090513-29	9/5/2013	9/5/2013	NA	9/9/2013	ND	NA	3		Sample
2013-0712	E038-090513-30	9/5/2013	9/5/2013	NA	9/9/2013	ND	NA	3		Sample
2013-0713	E010-09-0513-36	9/5/2013	9/5/2013	NA	9/9/2013	8.27	NA	3	equires diluti	Sample
2013-0714	E010-09-0513-37	9/5/2013	9/5/2013	NA	9/9/2013	3.28	NA	3		Sample
2013-0715	E010-09-0513-38	9/5/2013	9/5/2013	NA	9/9/2013	1.94	NA	3		Sample
2013-0716	E010-09-0513-39	9/5/2013	9/5/2013	NA	9/9/2013	ND	NA	3		Sample
2013-0717	E010-09-0513-40	9/5/2013	9/5/2013	NA	9/9/2013	2.54	NA	3		Sample

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Lab Sample ID	DBW ID	Date sample taken	Datesample received	Date sample extracted	Date sample analyzed	Conc. (ppb)	Surrogate recovery(%)	QC Batch	Comments	Sample Type
2013-0799	E010-091113-41	9/11/2013	9/11/2013	NA	9/20/2013	3.12	NA	4		Sample
2013-0800	E010-091113-42	9/11/2013	9/11/2013	NA	9/20/2013	1.92	NA	4		Sample
2013-0801	E010-091113-43	9/11/2013	9/11/2013	NA	9/20/2013	1.45	NA	4		Sample
2013-0802	E010-091113-44	9/11/2013	9/11/2013	NA	9/20/2013	ND	NA	4		Sample
2013-0803	E032-091113-45	9/11/2013	9/11/2013	NA	9/20/2013	ND	NA	4		Sample
2013-0804	E032-091113-46	9/11/2013	9/11/2013	NA	9/20/2013	1.81	NA	4		Sample
2013-0805	E032-091113-47	9/11/2013	9/11/2013	NA	9/20/2013	2.04	NA	4		Sample
2013-0806	E032-091113-48	9/11/2013	9/11/2013	NA	9/20/2013	ND	NA	4		Sample
2013-0807	E032-091113-49	9/11/2013	9/11/2013	NA	9/20/2013	1.02	NA	4		Sample
2013-0808	E038-091113-51	9/11/2013	9/11/2013	NA	9/20/2013	ND	NA	4		Sample
2013-0809	E038-091113-52	9/11/2013	9/11/2013	NA	9/20/2013	1.00	NA	4		Sample
2013-0810	E038-091113-53	9/11/2013	9/11/2013	NA	9/20/2013	ND	NA	4		Sample
2013-0811	E038-091113-54	9/11/2013	9/11/2013	NA	9/20/2013	ND	NA	4		Sample
2013-0878	E038-091813-55	9/18/2013	9/18/2013	NA	9/23/2013	ND	NA	5		Sample
2013-0879	E038-091813-56	9/18/2013	9/18/2013	NA	9/23/2013	ND	NA	5		Sample
2013-0880	E038-091813-57	9/18/2013	9/18/2013	NA	9/23/2013	ND	NA	5		Sample
2013-0881	E038-091813-58	9/18/2013	9/18/2013	NA	9/23/2013	ND	NA	5		Sample
2013-0882	E038-091813-59	9/18/2013	9/18/2013	NA	9/23/2013	ND	NA	5		Sample
2013-0883	E032-091813-60	9/18/2013	9/18/2013	NA	9/23/2013	1.28	NA	5		Sample
2013-0884	E032-091813-61	9/18/2013	9/18/2013	NA	9/23/2013	1.82	NA	5		Sample
2013-0885	E032-091813-62	9/18/2013	9/18/2013	NA	9/23/2013	2.00	NA	5		Sample
2013-0886	E032-091813-63	9/18/2013	9/18/2013	NA	9/23/2013	ND	NA	5		Sample
2013-0887	E032-091813-68	9/18/2013	9/18/2013	NA	9/23/2013	1.77	NA	5		Sample
2013-0888	E010-091813-64	9/18/2013	9/18/2013	NA	9/30/2013	5.05	NA	6	1:5 dilution	Sample
2013-0889	E010-091813-65	9/18/2013	9/18/2013	NA	9/23/2013	1.31	NA	5		Sample
2013-0890	E010-091813-66	9/18/2013	9/18/2013	NA	9/23/2013	1.15	NA	5		Sample
2013-0891	E010-091813-67	9/18/2013	9/18/2013	NA	9/23/2013	ND	NA	5		Sample
2013-0934	E010 092513-068	9/26/2013	9/27/2013	NA	9/30/2013	1.46	NA	6		Sample

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Lab Sample ID	DBW ID	Date sample taken	Date sample received	Date sample extracted	Date sample analyzed	Conc. (ppb)	Surrogate recovery(%)	QC Batch	Comments	Sample Type
2013-0935	E010 092613-069	9/26/2013	9/27/2013	NA	9/30/2013	ND	NA	6		Sample
2013-0936	E010 092613-070	9/26/2013	9/27/2013	NA	9/30/2013	ND	NA	6		Sample
2013-0937	E010 092613-071	9/26/2013	9/27/2013	NA	9/30/2013	ND	NA	6		Sample
2013-0938	E010 092613-072	9/26/2013	9/27/2013	NA	9/30/2013	ND	NA	6		Sample
2013-0939	E032 092613-073	9/26/2013	9/27/2013	NA	9/30/2013	1.18	NA	6		Sample
2013-0940	E032 092613-074	9/26/2013	9/27/2013	NA	9/30/2013	1.25	NA	6		Sample
2013-0941	E032 092613-075	9/26/2013	9/27/2013	NA	9/30/2013	1.39	NA	6		Sample
2013-0942	E032 092613-076	9/26/2013	9/27/2013	NA	9/30/2013	ND	NA	6		Sample
2013-0943	E032 092613-078	9/26/2013	9/27/2013	NA	9/30/2013	ND	NA	6		Sample
2013-0944	E032 092613-077	9/26/2013	9/27/2013	NA	9/30/2013	1.54	NA	6		Sample
2013-1038	E010 101013-079	10/10/2013	10/10/2013	NA	10/11/2013	1.02	NA	7		Sample
2013-1039	E010 101013-080	10/10/2013	10/10/2013	NA	10/11/2013	ND	NA	7		Sample
2013-1040	E010 101013-081	10/10/2013	10/10/2013	NA	10/11/2013	ND	NA	7		Sample
2013-1041	E010 101013-082	10/10/2013	10/10/2013	NA	10/11/2013	ND	NA	7		Sample
2013-1042	E010 101013-083	10/10/2013	10/10/2013	NA	10/11/2013	ND	NA	7		Sample
2013-1043	E032 101013-084	10/10/2013	10/10/2013	NA	10/11/2013	ND	NA	7		Sample
2013-1044	E032 101013-085	10/10/2013	10/10/2013	NA	10/11/2013	ND	NA	7		Sample
2013-1045	E032 101013-086	10/10/2013	10/10/2013	NA	10/11/2013	1.16	NA	7		Sample
2013-1046	E032 101013-087	10/10/2013	10/10/2013	NA	10/11/2013	ND	NA	7		Sample
2013-1047	E032 101013-089	10/10/2013	10/10/2013	NA	10/11/2013	ND	NA	7		Sample

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Date: 10/11/2013
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LOQ: 1.0 ppb
Lab: CDFA-CAC
Analytical Method: WHS-SM-FL1

Chemical Analytical Results
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3292 Meadowview Rd. Sacramento, CA 95832

Lab Sample ID	DBW ID	Date sample taken	Date sample received	Date sample extracted	Date sample analyzed	Conc. (ppb)	Surrogate recovery(%)	QC Batch	Comments	Sample Type
2013-0935	E010 092613-069	9/26/2013	9/27/2013	NA	9/30/2013	ND	NA	6		Sample
2013-0936	E010 092613-070	9/26/2013	9/27/2013	NA	9/30/2013	ND	NA	6		Sample
2013-0937	E010 092613-071	9/26/2013	9/27/2013	NA	9/30/2013	ND	NA	6		Sample
2013-0938	E010 092613-072	9/26/2013	9/27/2013	NA	9/30/2013	ND	NA	6		Sample
2013-0939	E032 092613-073	9/26/2013	9/27/2013	NA	9/30/2013	1.18	NA	6		Sample
2013-0940	E032 092613-074	9/26/2013	9/27/2013	NA	9/30/2013	1.25	NA	6		Sample
2013-0941	E032 092613-075	9/26/2013	9/27/2013	NA	9/30/2013	1.39	NA	6		Sample
2013-0942	E032 092613-076	9/26/2013	9/27/2013	NA	9/30/2013	ND	NA	6		Sample
2013-0943	E032 092613-078	9/26/2013	9/27/2013	NA	9/30/2013	ND	NA	6		Sample
2013-0944	E032 092613-077	9/26/2013	9/27/2013	NA	9/30/2013	1.54	NA	6		Sample
2013-1038	E010 101013-079	10/10/2013	10/10/2013	NA	10/11/2013	1.02	NA	7		Sample
2013-1039	E010 101013-080	10/10/2013	10/10/2013	NA	10/11/2013	ND	NA	7		Sample
2013-1040	E010 101013-081	10/10/2013	10/10/2013	NA	10/11/2013	ND	NA	7		Sample
2013-1041	E010 101013-082	10/10/2013	10/10/2013	NA	10/11/2013	ND	NA	7		Sample
2013-1042	E010 101013-083	10/10/2013	10/10/2013	NA	10/11/2013	ND	NA	7		Sample
2013-1043	E032 101013-084	10/10/2013	10/10/2013	NA	10/11/2013	ND	NA	7		Sample
2013-1044	E032 101013-085	10/10/2013	10/10/2013	NA	10/11/2013	ND	NA	7		Sample
2013-1045	E032 101013-086	10/10/2013	10/10/2013	NA	10/11/2013	1.16	NA	7		Sample
2013-1046	E032 101013-087	10/10/2013	10/10/2013	NA	10/11/2013	ND	NA	7		Sample
2013-1047	E032 101013-089	10/10/2013	10/10/2013	NA	10/11/2013	ND	NA	7		Sample

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Date: 10/30/2013
Chemical: Fluridone
LOQ: 1.0 ppb
Lab: CDFA-CAC
Analytical Method: WHS-SM-FL1

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Lab Sample ID	DBW ID	Date sample taken	Date sample received	Date sample extracted	Date sample analyzed	Conc. (ppb)	Surrogate recovery(%)	QC Batch	Comments	Sample Type
2013-1038	E010-101013-079	10/10/2013	10/10/2013	NA	10/11/2013	1.02	NA	7		Sample
2013-1039	E010-101013-080	10/10/2013	10/10/2013	NA	10/11/2013	ND	NA	7		Sample
2013-1040	E010-101013-081	10/10/2013	10/10/2013	NA	10/11/2013	ND	NA	7		Sample
2013-1041	E010-101013-082	10/10/2013	10/10/2013	NA	10/11/2013	ND	NA	7		Sample
2013-1042	E010-101013-083	10/10/2013	10/10/2013	NA	10/11/2013	ND	NA	7		Sample
2013-1043	E032-101013-084	10/10/2013	10/10/2013	NA	10/11/2013	ND	NA	7		Sample
2013-1044	E032-101013-085	10/10/2013	10/10/2013	NA	10/11/2013	ND	NA	7		Sample
2013-1045	E032-101013-086	10/10/2013	10/10/2013	NA	10/11/2013	1.16	NA	7		Sample
2013-1046	E032-101013-087	10/10/2013	10/10/2013	NA	10/11/2013	ND	NA	7		Sample
2013-1047	E032-101013-089	10/10/2013	10/10/2013	NA	10/11/2013	ND	NA	7		Sample
2013-1265	E010-101813-090	10/18/2013	10/18/2013	NA	10/30/2013	ND	NA	8		Sample
2013-1266	E010-101813-091	10/18/2013	10/18/2013	NA	10/30/2013	ND	NA	8		Sample
2013-1267	E010-101813-092	10/18/2013	10/18/2013	NA	10/30/2013	ND	NA	8		Sample
2013-1268	E010-101813-093	10/18/2013	10/18/2013	NA	10/30/2013	ND	NA	8		Sample
2013-1269	E010-101813-094	10/18/2013	10/18/2013	NA	10/30/2013	ND	NA	8		Sample
2013-1270	E032-101813-095	10/18/2013	10/18/2013	NA	10/30/2013	ND	NA	8		Sample
2013-1271	E032-101813-096	10/18/2013	10/18/2013	NA	10/30/2013	ND	NA	8		Sample
2013-1272	E032-101813-097	10/18/2013	10/18/2013	NA	10/30/2013	ND	NA	8		Sample
2013-1273	E032-101813-098	10/18/2013	10/18/2013	NA	10/30/2013	ND	NA	8		Sample
2013-1274	E032-101813-099	10/18/2013	10/18/2013	NA	10/30/2013	ND	NA	8		Sample

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Date: 11/6/2013
Chemical: Fluridone
LOQ: 1.0 ppb
Lab: CDFA-CAC
Analytical Method: WHS-SM-FL1

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Lab Sample ID	DBW ID	Date sample taken	Date sample received	Date sample extracted	Date sample analyzed	Conc. (ppb)	Surrogate recovery(%)	QC Batch	Comments	Sample Type
2013-1399	E010110413-100	11/4/2013	11/4/2013	NA	11/6/2013	ND	NA	9		Sample
2013-1400	E010110413-101	11/4/2013	11/4/2013	NA	11/6/2013	ND	NA	9		Sample
2013-1401	E010110413-102	11/4/2013	11/4/2013	NA	11/6/2013	ND	NA	9		Sample
2013-1402	E010110413-103	11/4/2013	11/4/2013	NA	11/6/2013	ND	NA	9		Sample
2013-1403	E010110413-104	11/4/2013	11/4/2013	NA	11/6/2013	ND	NA	9		Sample
2013-1404	E032110413-105	11/4/2013	11/4/2013	NA	11/6/2013	ND	NA	9		Sample
2013-1405	E032110413-106	11/4/2013	11/4/2013	NA	11/6/2013	ND	NA	9		Sample
2013-1406	E032110413-107	11/4/2013	11/4/2013	NA	11/6/2013	ND	NA	9		Sample
2013-1407	E032110413-108	11/4/2013	11/4/2013	NA	11/6/2013	ND	NA	9		Sample

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