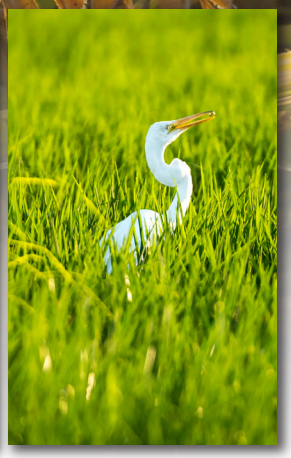
Rice Pesticides Program 2016 Annual Monitoring Report

December 2016



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Prepared for

California Rice Commission

California Rice

Prepared by

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TECHNICAL MEMORANDUM

2016 Rice Pesticides Program Monitoring Summary

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DATE: December 30, 2016

Background

The California Rice Commission (CRC) manages the Rice Pesticide Program (RPP) on behalf of its growers through the collection and analysis of water quality samples at historical monitoring sites. Compliance with the RPP is evaluated through the Central Valley Regional Water Quality Control Board (CVRWQCB) approved management practices as provided in Resolution No. R5-2010-9001. The management practices are designed to achieve attainment of the thiobencarb Performance Goal in the agricultural drains, and the applicable water quality objective (WQO) as the secondary maximum contaminant level (MCL) in waters designated as having municipal and domestic beneficial use (MUN). Monitoring is conducted under the RPP to determine attainment of the Performance Goal and the secondary MCL WQO. A detailed history of the program is described in previous annual monitoring reports submitted to the CVRWQCB.

The RPP includes a multi-week regime of sampling at representative agricultural drain locations and at a site on the Sacramento River. Sampling for the RPP is based on the timing and frequency of discharge from rice fields during the peak use season for thiobencarb. The monitoring schedule was developed with consideration of the rice-growing season, analysis of historical data, environmental and analytical monitoring, and infield studies of the thiobencarb degradation curve (Division of Agricultural Sciences, University of California 1982) (Cronacchia et al. 1984). In addition, the Cities of Sacramento and West Sacramento analyze samples for thiobencarb concentration in their water intake supplies during the thiobencarb use period.

Introduction

Decades of monitoring allows for comparison between normal water periods and the current drought conditions. Drought influences are becoming more apparent each monitoring year, with the frequency and degree of exceedances increasing since 2013. Increased use of thiobencarb as a first-line-of-defense due to its longer hold time, along with diminished flow volumes, has led to higher observations in some of the sampled drains. This technical memorandum reviews 2016 conditions and monitoring results, and provides a comparison to prior years' results.

Monitoring Requirements and Performance Goals

Monitoring in accordance with the RPP requirements was conducted during the 2016 thiobencarb use season (Table 1). Planting and subsequent herbicide application occurred on a normal schedule in 2016, resulting in a typical sampling schedule starting the last week of April and continuing through the end of June.

Table 1. RPP Sampling Frequency, 2016
2016 Rice Pesticides Program Monitoring Summary

Constituent	Units	Sample Type	Sampling Frequency		
			Weeks 1–3	Weeks 4–7	Weeks 8–10
Thiobencarb	µg/L	Grab	Weekly	Biweekly	Weekly

Note:
µg/L = microgram(s) per liter

The five RPP sites monitored in 2016 have remained consistent for the duration of the program, and include the following:

- CBD1: Colusa Basin Drain above Knights Landing
- CBD5: Colusa Basin Drain #5 in the Colusa National Wildlife Refuge
- BS1: Butte Slough at Lower Pass Road
- SSB: Sacramento Slough Bridge near Karnak
- SR1: Sacramento River at Village Marina/Crawdads Cantina

The *Water Quality Control Plan for the Sacramento River and San Joaquin River Basins* (Basin Plan) (CVRWQCB 2016) establishes a numeric WQO for thiobencarb that is protective of the rivers' MUN beneficial use designation (1.0 µg/L). In addition, a Performance Goal is defined for upstream agricultural drains (1.5 µg/L).

2016 Monitoring Results

Thiobencarb was detected above the lab detection level of 0.5 µg/L in 16 of the 75 samples collected during the 10-week sampling period in 2016. The majority of these detections occurred at sites CBD5 (eight detections above 0.5 µg/L) and CBD1 (five detections above 0.5 µg/L). Site BS1 had three detections, and SSB and SR1 had no detections.

2016 monitoring results were similar to 2015, with detections trending in the Colusa Basin Drain (monitoring sites CBD5 and CBD1). As seen in 2015, detections in CBD5 generally occurred first, in mid-May, with detections in CBD1 occurring about 1 week later (with the exception of the first detections during week 3). This correlates with the fact that CBD5 is an upstream site of CBD1.

Results of the 2016 thiobencarb sampling are summarized in Table 2. Complete monitoring results are available in Appendix A.

Table 2. Summary of Detections (RPP and City Monitoring), 2016
2016 Rice Pesticides Program Monitoring Summary

Site	Site Type	Thiobencarb	
		Detections Exceeding the Basin Plan WQO/Performance Goal	Range of Detected Concentrations
Intake and River Sites (Water Quality Objective 1.0 µg/L)			
SRR[a]	Intake	0	ND to 0.12 µg/L
WSR[b]	Intake	0	ND to 0.13 µg/L
SR1[c]	River	0	ND
Total river/intake site detections:		**0**	**ND**

Table 2. Summary of Detections (RPP and City Monitoring), 2016
2016 Rice Pesticides Program Monitoring Summary

Site	Site Type	Thiobencarb	
		Detections Exceeding the Basin Plan WQO/Performance Goal	Range of Detected Concentrations
Agricultural Drain Sites (Performance Goal 1.5 µg/L)			
CBD5[c]	Drain	3	ND to 11 µg/L
BS1[c]	Drain	0	ND to 1.1 µg/L
CBD1[c]	Drain	3	ND to 3.2 µg/L
SSB[c]	Drain	0	ND
	Total drain site detections:	**6**	**ND to 11 µg/L**

[a] City of Sacramento intake site (as reported by the city)
[b] City of West Sacramento intake site (as reported by the city)
[c] RPP site – WQO does not apply as an RPP performance goal for SR1. The CRC voluntarily monitors SR1 to complement the required agricultural drain monitoring.

Notes:

NA = not applicable
ND = non-detect (below the method reporting limit). Method reporting limit for intake sites is 0.1 µg/L, and for agricultural drains is 0.5 µg/L.

Compliance with River and MUN Water Quality Objective

The majority of results for the river and intake samples analyzed on behalf of the CRC and the Cities of Sacramento (SRR) and West Sacramento (WSR) were non-detect for thiobencarb in 2016. Two dates had detections at both the SRR and WSR sites, with a maximum detection of 0.13 µg/L, well below the WQO. The river and intake monitoring results demonstrate attainment of the Basin Plan MUN WQO. Based on these results, the established management practices are protective of drinking water associated with the MUN beneficial use designation of the Sacramento River. These monitoring results also demonstrate success of managing a prohibition of discharge program through a watershed approach, despite the challenges from current drought-related weather conditions.

Compliance with the Agricultural Drain Performance Goal

Six samples collected from the agricultural drains in 2016 had detections above the 1.5 µg/L Performance Goal: three at site CBD5, and three at site CBD1. The peak detection of 11 µg/L occurred at site CBD5 on May 24. These results mirror results in 2015, with the majority of detections in the Colusa Basin Drain (CBD) sites.

Special Actions in 2016

Exceedances at site CBD5 prompted the CRC to perform additional monitoring mid-season in 2016. The CRC immediately sent letters to growers in Colusa and Glenn Counties when exceedances were detected at CBD5. This mailing was followed by an industry-wide e-newsletter alerting growers and Pest Control Advisers (PCAs) of the exceedances and impacts on the use of thiobencarb. The county agricultural commissioner (CAC) offices sent e-mails to the growers, applicators, and PCAs.

The RPP is a prohibition of discharge program rather than a point source regulatory program, and does not require monitoring up the drain to determine the source for exceedances. In 2016, the CRC performed special monitoring on three occasions to investigate the influence of water released from Colusa and Glenn County fields on site CBD5.

The special monitoring of seven sites upstream of site CBD5 took place on May 31, June 2, and June 9 and 10 (together as one event), 2016, as shown in Table 3. The site selection criteria were based on the watershed drainage assessment that the CRC completed for the Irrigated Lands Regulatory Program in 2004 (CRC 2004). Exceedances of the Performance Goal occurred at two sites during special monitoring: Road 68 (Glenn County) on May 31 (detection of 1.9 µg/L), and Site N (Glenn County) on June 2 (detection of 1.6 µg/L). Detections were also noted at Road 68 on June 2 (0.58 µg/L) and at Site K (Colusa County) on June 9 (0.54 µg/L). The remainder of the sites/samples had results below the detection limit (0.5 µg/L). Table 3 outlines the sample sites, dates, and laboratory results for the special monitoring.

Table 3. Thiobencarb Special Monitoring Results, 2016
2016 Rice Pesticides Program Monitoring Summary

	Monitoring Sites and Results (µg/L)						
Sample Date	**Site N**	**RD 68**	**Site Q**	**Site P**	**Site I**	**Site K**	**Site L**
May 31	ND	**1.9**	-	-	-	-	-
June 2	**1.6**	0.58	-	-	-	-	-
June 9/10	ND	ND	ND	ND	ND	0.54	ND

*Samples run at North Coast Laboratories, Arcata, CA

Notes:

Bold = result above the Performance Goal of 1.5 µg/L

- = not sampled
ND = non-detect below the laboratory detection limit (0.5 µg/L)

Monitoring Site Locations:

Site N = Willow Creek at Road 61, Glenn County
RD 68 = Road 68 and Logan Creek, Glenn County
Site Q = Glenn Colusa Irrigation District at Two Mile Road, Colusa County
Site P = Stone Corral Creek at Four Mile Road, Colusa County
Site I = Colusa Basin Drain at Maxwell Road, Colusa County
Site K = Lurline Creek at Lurline Road, Colusa County
Site L = Freshwater Creek at San Jose Road, Colusa County

2016 special monitoring results support those from 2015, where detections were found at upstream sites in Glenn County. 2015 special monitoring also detected thiobencarb in Colusa County upstream sites; however, in 2016 only one sample from Colusa County upstream monitoring yielded a detectable result. The exceedances of the Performance Goal at sites N and Road 68 upstream of site CBD5 support the hypothesis that these areas are possibly contributing to exceedances at CBD5. In 2016, the CRC made a decision to specifically monitor the Glenn County sites as demonstration that the exceedances were not specific to Colusa County. The last monitoring event included all special monitoring sites in both counties.

Acres Treated

The Department of Pesticide Regulation (DPR) reports the acres treated with thiobencarb in the annual Pesticide Use Report (PUR) current to 2014 (DPR 1990-2014). The data is audited and error checked before it is finalized in the PUR. The CRC receives the current year pesticide use data in December, which is considered preliminary. However, not much variance exists between the current and final rice pesticide use data. The pesticide use results in all RPP annual monitoring reports are considered preliminary, based on initial data provided by the CACs to DPR. In 2016, the rice acreage treated with thiobencarb was estimated to be 191,414 acres, versus 144,552 acres in 2015. Based on these estimates, the 2016 thiobencarb-treated acreage was the highest since the year 2002.

Malathion, a pesticide previously monitored under the RPP, was used on a minimal number of acres in 2016. Usage was limited to Butte and Glenn Counties, and represented a small fraction of rice acres at 235 acres treated or 0.04 percent of the planted acres (as reported by the CACs). Malathion use has been minimal since 2009, with a slight uptick in use in 2015 (2,589 acres treated) attributable to an armyworm outbreak. Based on discussion with CVRWQCB staff, the CRC did not monitor malathion during 2016. Because of the unusual nature of the 2015 armyworm outbreak, the CRC sees no justification in monitoring malathion in 2017.

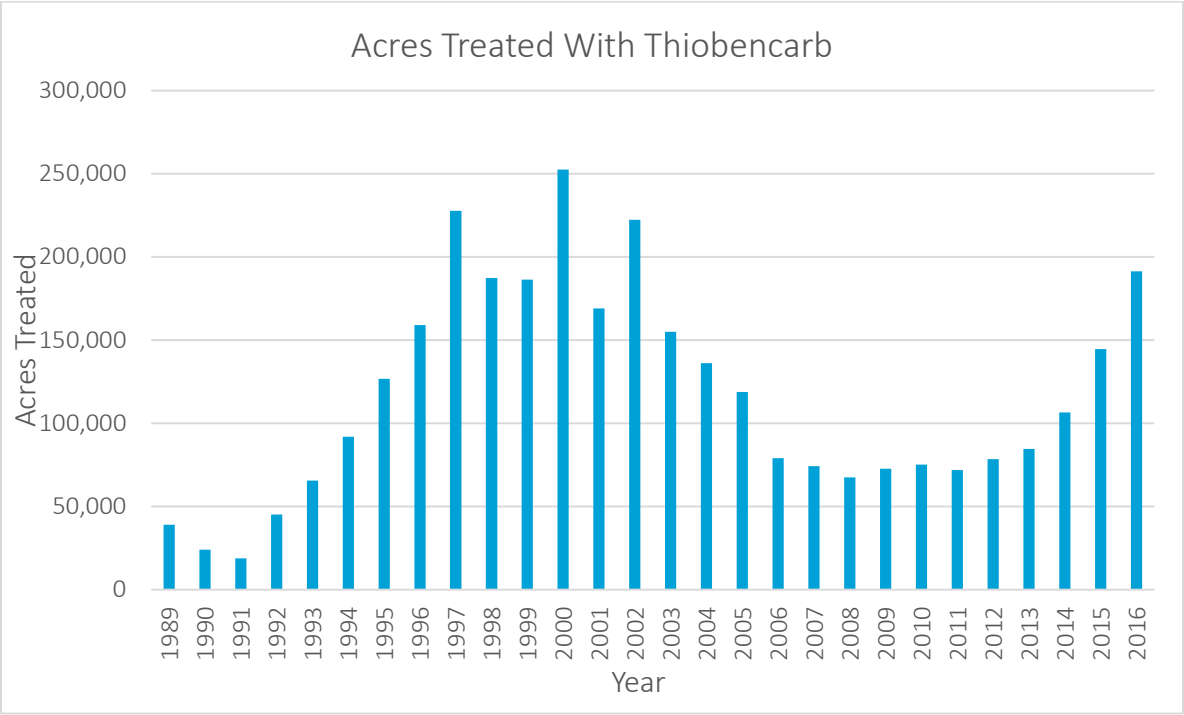

Figure 1. Thiobencarb Acres Treated, 1989-2015 (Source: DPR 1989-2014; DPR estimate for 2015 and 2016)

Analysis/Discussion

The RPP includes an aggressive regime of surface water quality sampling. Through routine sampling during the thiobencarb use period, the program detected exceedances of the Performance Goal in agricultural drains.

Based on the information available to the CRC at this time, it is suspected that exceedances of the Performance Goal could be a result of the following factors, either independently or concurrently (Bennett et al. 1998; Lou 2010):

- Noncompliance with the water-holding requirements
- Thiobencarb transport via seepage, drift, and/or tailwater discharge
- Use in compliance with required water holds, but in excess of the assimilative capacity of the water body during low flows encountered during this fifth year of drought

Each of these factors is discussed in more detail below.

Noncompliance with Water-holding Requirements

Data are not currently available to assess the alignment of the detected water quality exceedances relative to any potential water hold violations. Through conversations with the CAC offices, it is assumed that early water releases from the fields impacted the monitoring results at CBD5. At the time of this writing, the CACs are coordinating with DPR on finalizing enforcement actions against specific growers that are believed to have violated label and water-hold requirements.

Early water release attributable to high wind conditions has occurred in recent years, but does not appear to have been a factor in thiobencarb detections in 2016 because wind speeds were not as significant during the use season as in previous years. Wind speeds during the thiobencarb use season are displayed in Appendix B.

Thiobencarb Transport

Several mechanisms of transport could cause or contribute to discharges of thiobencarb, such as seepage, drift, and tailwater discharge. Water quality management practices are adopted to prevent adverse impacts from each of these mechanisms of transport. Mandatory management practices are in place to address each of these mechanisms, and include the following:

- Mandatory grower education
- Water holds
- Pesticide use compliance inspections and enforcement
- Water quality sampling

Seepage is addressed through proper maintenance of levees and berms, coupled with the CAC seepage inspections and enforcement actions. Drift is addressed through label requirements and additional permit restrictions imposed on aerial applications. Tailwater discharge is addressed through mandatory water-hold requirements, coupled with the CAC enforcement through inspections. The CACs implement water-hold and seepage inspections, with the CRC funding additional off-hours inspections on weekends and holidays during application season. The effectiveness of these management practices is wholly dependent upon implementation by individual rice farmers.

Drought Influences

California is experiencing a multi-year drought of historic proportions. As water has become more restricted, the districts managing irrigation water have placed additional restrictions on water availability. Rice farmers receive water later than normal and have restrictions on releases because water will not be provided for re-flood. The rice growers who cannot take water off the field resort to using pesticides with longer water-holding requirements. Although the number of acres of rice planted in 2016 was similar to prior to the drought, thiobencarb use has increased, with treated acreage in 2016 at its highest level since 2002 (Figure 1 and Appendix A, Table A-2). The highest thiobencarb-treated acreage was 252,350 (2000) prior to CRC program management. The use of thiobencarb typically increases during drought years because it has a longer water hold, which compliments weed control programs in areas where irrigation districts control the availability of water and limit releases from rice fields. Under non-drought conditions, there is usually a reduction in thiobencarb use, as seen from 2006 to 2012 (Figure 1 and Appendix A, Table A-2). Thiobencarb use was reduced during that time because of adequate water availability, which allowed for use of herbicides with shorter hold times. Thiobencarb is a less-preferred herbicide during non-drought years because the same management practices apply to any treatment to the field during the thiobencarb water hold (which may not be desirable).

During the current 5-year drought period, thiobencarb exceedances have increased as treated acreage increased (Appendix A, Table A-2). This is especially apparent at the sites on the Colusa Basin Drain (CBD5 and CBD1) where flow conditions at the Colusa National Wildlife Refuge have an impact on flow through the drains supplying rice fields. In 2014, an evaluation was undertaken to assess whether low flow conditions at the Colusa National Wildlife Refuge could have been a contributor to the exceedances at the CBD5 monitoring site. The CBD5 flow measurements were at 1 to 5 cubic feet per second (cfs), which is typical for that drain location. The flow measurement dropped to 0.1 to 1.0 cfs five times throughout the season, but no correlation to the exceedances at CBD5 was determined. However, in 2015, the CRC utilized the detailed flow measurements at the Department of Water Resources Colusa Drain NR Highway 20 (CDR) site in the same area, and found that a correlation does exist between monitoring results and flow at the CDR site (which is just north of monitoring site CBD5). Results and flow from 2016 again support that decreased flows during the thiobencarb use season may contribute

to Performance Goal exceedances at CBD5, and have provided the CRC with rationale to evaluate use-to-flow variances resulting from weather conditions and drought requirements.

Initial results indicate that the highest thiobencarb detections at CBD5 tend to occur during lower flow times of the Colusa Basin Drain. In 2015, the highest detection at CBD5 occurred on May 21 (5.25 µg/L); in 2016, the highest detection was on May 24 (11 µg/L). These high detections appear to occur during or just after times of low flow through the CDR site (and therefore CBD5), which also correlates with a period of high thiobencarb usage. Although flow measurements are not a requirement of the program, the CRC is currently investigating flow-to-use effects in greater detail. This assessment of flow-to-use variances resulting from weather conditions and drought requirements will investigate whether drought conditions correlate with exceedances, and may inform a consideration of additional practices to be implemented in drought years.

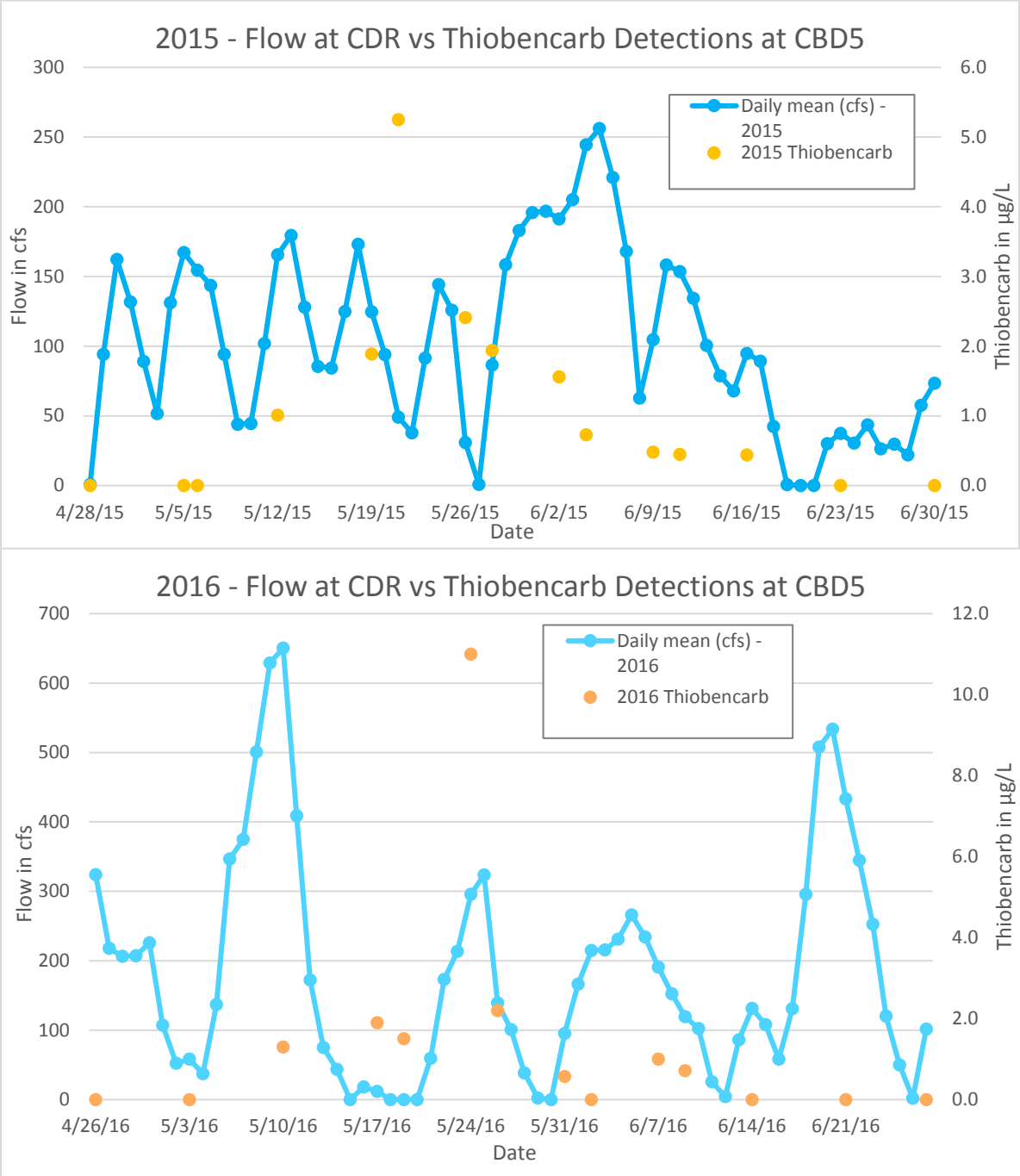

Figure 2. Flow at CDR versus Thiobencarb Detections at CBD5 for 2015 and 2016

Conclusions and Recommendations

Currently approved management practices and outreach efforts (including increased inspection activities; limitations on individual thiobencarb use resulting from noncompliance; and increased outreach, especially in counties where violations occur) have been effective in protecting water quality in 2016, as demonstrated by the lack of exceedances at the city intakes. Persistent drought conditions have caused thiobencarb to be a preferred herbicide in rice systems, and as treated acres increase, detections of thiobencarb have increased. The CRC is considering alternatives to addressing the thiobencarb exceedances, which are discussed below.

Alternatives to Address Exceedances

The CRC is considering the following alternatives in response to the repeated exceedances of the thiobencarb agricultural drain Performance Goal:

1. Take no action.
2. Increase educational outreach efforts.
3. Perform additional targeted water quality monitoring studies.
4. Increase inspection activities.
5. Implement use limitations resulting from noncompliance.
6. Assess use-to-flow variances resulting from weather conditions and drought requirements.

Narrative

1. Taking no action was deemed an inappropriate alternative, given the number of exceedances, the reoccurrence of these exceedances within recent seasons, and the level of high exceedances in 2016. The CRC firmly acknowledges the need to address these Performance Goal exceedances.

2. Increased educational outreach efforts have been implemented. Educational outreach is ongoing in addition to the annual mandatory stakeholder meetings. The CRC mailed a letter to the rice growers in Colusa and Glenn Counties, and concurrently distributed an e-communication. The Colusa CAC office also sent an e-mail to all rice growers in the county. The message was to not use thiobencarb if the grower is incapable of following the management practices. Reaction to the outreach was significant, with almost 1,000 views of the CRC e-communication in 1 hour. The CRC was also invited to speak at CAC-sponsored grower meetings early in 2016. In addition, the CACs provide additional outreach on local management practices.

3. Additional targeted water quality monitoring was performed during three events at seven locations that influence the CBD5 site. The monitoring initially was performed at two sites in Glenn County, and concluded at the sites in Colusa County. Several of these sites had detections, suggesting that the upstream sites are heavily influencing results at CBD5. In 2017, the CRC and DPR will coordinate on monitoring two alternative sites north of the CBD5 location. The monitoring would be part of the DPR surface water program.

4. Increasing inspection activities is an option that requires additional consultation with the DPR Enforcement Branch to evaluate appropriate increased inspections. The CAC Surveillance funding is specifically for off-hours, weekend, and holiday inspections. Possible coordination between the CRC and DPR on programs such as the Pesticide Regulatory Activities Monthly Report, which compiles a summary of statewide and individual county enforcement workload activities, may provide value.

5. Implementing use limitations resulting from noncompliance is a recommended option. The CRC will consult further with the DPR Enforcement Branch to evaluate limiting pesticide applications for individuals found to repeatedly use thiobencarb in noncompliance with pesticide use requirements. The CRC Board of Directors supports the CACs in either revoking or not issuing thiobencarb permits to repeat offenders. Further, the CRC supports prohibited use by growers in targeted areas draining to CBD5 with possible grounding of the liquid formulation in a regional area.

6. Assessment of use-to-flow variances resulting from weather conditions and drought requirements is recommended because use of thiobencarb has increased during the recent restricted water conditions. Use of thiobencarb has increased because it has a longer water hold, which compliments weed control programs in areas where irrigation districts control the availability of water and limit releases from rice fields. Under nondrought conditions, there is usually a reduction in thiobencarb use, as seen from 2006 to 2012. Thiobencarb use was reduced during that time because of adequate water availability and the Abolish 19-day and Bolero 30-day water-holding requirements. Thiobencarb is difficult to use with other herbicides because the same management practices also apply to any treatment to the field during the Bolero or Abolish water hold. In addition, it is common practice to add fresh water to a field when applying another herbicide after the thiobencarb application. Adding fresh water means releasing water, which is not an option. Several rice herbicides require contact to the weed, so water drawn down is necessary. That is not an option when thiobencarb is in the water-holding period, or when the irrigation district restricts water availability to the field.

   The CRC will assess percent thiobencarb usage to the flows by comparing data from 2002 to 2016. The evaluation may result in a recommendation of thiobencarb availability in low water or in drought years as compared to normal weather conditions. Work has begun on a use-to-flow analysis and will continue to determine what realistic solutions may be made available.

The CRC recognizes the Performance Goal exceedances in the drains and also notes that the secondary MCL was not in violation. In addition, the CRC would like to maintain reasonable use of thiobencarb when conditions return to a more normal state for the nine rice-growing counties in the Sacramento Valley.

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Appendix A
2016 Thiobencarb Monitoring Results

Table A-1. Complete 2016 Thiobencarb Monitoring Results

2016 Rice Pesticides Program Monitoring Summary

Sample Dates	Rice Pesticides Program Thiobencarb Monitoring Results					City Thiobencarb Monitoring Results		
	Agricultural Drain Monitoring Sites Method Detection Limit for North Coast <0.5 µg/L (ppb) and CLS <0.5 µg/L (ppb); EPA Method 507					Reported Less Than 0.1 µg/L (ppb); EPA Method 8207C		% Sacramento River at the SSR Intake
	CBD5	**BS1**	**CBD1**	**SSB**	**SR1**	**WSR**	**SSR**	
20-Apr-16	-	-	-	-	-	<0.1	<0.1	61.5
26-Apr-16	ND	-	ND	-	ND	-	-	-
27-Apr-16	-	ND	-	ND	-	<0.1	<0.1	65.2
3-May-16	ND/ND North Coast/CLS	ND	ND	ND	ND	-	-	-
4-May-16	-	-	-	-	-	<0.1	<0.1	67.0
10-May-16	1.3	-	0.57	-	ND	-	-	-
11-May-16	-	ND	-	ND	-	<0.1	<0.1	74.8
12-May-16	-	-	-	-	-	<0.1	<0.1	75.8
17-May-16	**1.9**	ND/ND North Coast/CLS	ND	ND	ND	<0.1	NA	NA
18-May-16	**-**	-	-	-	-	<0.1	<0.1	75.0
19-May-16	1.5	ND	ND	ND	ND	<0.1	<0.1	77.4
24-May-16	**11**	-	**3.2**	-	ND/ND North Coast/CLS	<0.1	<0.1	56.6
25-May-16	-	ND	-	ND	-	<0.1	<0.1	64.8
26-May-16	**2.2**	ND	**2.8**	ND	ND	<0.1	<0.1	65.6
30-May-16	**-**	-	**-**	-	-	<0.1	<0.1	78.9
31-May-16	0.57	1.1	ND/ND North Coast/CLS	ND	ND	<0.1	<0.1	77.8

Table A-1. Complete 2016 Thiobencarb Monitoring Results

2016 Rice Pesticides Program Monitoring Summary

Sample Dates	Rice Pesticides Program Thiobencarb Monitoring Results					City Thiobencarb Monitoring Results		
	Agricultural Drain Monitoring Sites Method Detection Limit for North Coast <0.5 µg/L (ppb) and CLS <0.5 µg/L (ppb); EPA Method 507					Reported Less Than 0.1 µg/L (ppb); EPA Method 8207C		% Sacramento River at the SSR Intake
	CBD5	**BS1**	**CBD1**	**SSB**	**SR1**	**WSR**	**SSR**	
1-Jun-16	-	-	-	-	-	0.10	0.12	83.2
2-Jun-16	ND	0.94	0.61	ND	ND	0.13	0.11	77.3
7-Jun-16	1.0	-	**1.7**	-	ND	<0.1	<0.1	80.3
8-Jun-16	-	ND	**-**	ND	-	<0.1	<0.1	80.4
9-Jun-16	0.71	ND	1.0	ND	ND	<0.1	<0.1	79.0
14-Jun-16	ND	ND	ND	ND/ND North Coast/CLS	ND	-	-	-
15-Jun-16	-	-	-	-	-	<0.1	<0.1	71.1
16-Jun-16	-	-	-	-	-	<0.1	<0.1	60.1
21-Jun-16	ND	-	ND/ND North Coast/CLS	-	ND	-	-	-
22-Jun-16	-	0.51	-	ND	-	<0.1	<0.1	66.1
28-Jun-16	ND	ND	ND	ND	ND	-	-	-

Notes:

Concentrations reported in µg/L (ppb).
Agricultural drain Performance Goal for thiobencarb is 1.5 µg/L.

- = not applicable
µg/L = microgram(s) per liter
EPA = U.S. Environmental Protection Agency
ND = not detected above laboratory reporting limits
ppb = part(s) per billion

Monitoring Site Descriptions:

CBD5 = Colusa Basin Drain within the Colusa National Wildlife Refuge south of Highway 20
BS1 = Butte Slough on Lower Pass Road northeast of Meridian
CBD1 = Colusa Basin Drain at Road 99E and near Road 108 west of Knights Landing
SSB = Sacramento Slough downstream of the Karnack pumps
SR1 = Sacramento River at the Village Marina on Garden Highway
WSR = City of West Sacramento Intake at Bryte Bend
SSR = City of Sacramento at Sacramento River Intake

Table A-2. City Intake Detections in Comparison to Performance Goal Exceedances 2003-2016

2016 Rice Pesticides Program Monitoring Summary

Sample Year	Intake and River Site Detections (Date/Result, in µg/L)			Ag. Drain Site Exceedances (Date/Result, in µg/L)	Treated Acres	Planted Acres
	WSR	SRR	SR1	Performance Goal Exceedances		
2003	2-June/0.11 16-June/0.16 19-June/0.13	ND	ND	12-June/1.7 CBD1 17-June/2.3 CBD1	154,928	507,000
2004	ND	ND	ND	4-May/3.6 CBD5 27-May/1.6 CBD1	136,132	590,000
2005[a]	13-June/0.11	1-June/<0.10	31-May/0.04 2-June/0.03 7-June/0.04 9-June/0.04 14-June/0.07 21-June/0.05	No exceedances	118,786	526,000
2006	14-June/0.16	9-June/<0.10 14-June/0.16	6-June/0.06 8-June/0.17 13-June/0.12 15-June/0.06 20-June/0.03 27-June/0.02	No exceedances	79,109	523,000
2007	23-May/0.19	ND	27-May/0.13	No exceedances	74,251	533,000
2008	15-May/0.31 29-May/0.16	15-May/0.12	22-May/0.62	22-May/1.8 CBD1 27-May/1.99 BS1	67,483	517,000
2009	21-May/0.11 25-May/0.68 28-May/0.22	15-May/0.29 28-May/0.18	25-May/0.31 28-May/0.27	19-May/1.81 CBD1 26-May/1.54 (Valent), 1.84 (EMA) CBD1 28-May/1.75 CBD1	72,660	556,000
2010	ND	ND	ND	8-June/1.58 (Valent), 1.8 (EMA) CBD1	75,172	553,000
2011	1-June/0.12	ND	ND	No exceedances	71,824	580,000
2012	ND	ND	ND	No exceedances	78,478	556,000
2013	20-May/0.16	ND	21-May/0.11 23-May/0.05 30-May/0.11	21-May/3.97 CBD5 21-May/1.72 CBD1 23-May/1.77 CBD1	84,533	556,000
2014	ND	ND	27-May/0.06 29-May/0.04 3-June/0.05	29-May/3.8 CBD5 3-June/2.2 CBD5 24-June/1.7 CBD5	107,525	431,000
2015	27-May/0.1	ND	ND	19-May/1.89 CBD5 21-May/5.25 CBD5 26-May/2.41 CBD5 26-May/1.53 CBD1 28-May/1.94 CBD5 2-June/1.56 CBD5	144,552[b]	452,824

Table A-2. City Intake Detections in Comparison to Performance Goal Exceedances 2003-2016

2016 Rice Pesticides Program Monitoring Summary

Sample Year	Intake and River Site Detections (Date/Result, in µg/L)			Ag. Drain Site Exceedances (Date/Result, in µg/L)	Treated Acres	Planted Acres
	WSR	SRR	SR1	Performance Goal Exceedances		
2016	1-Jun/0.1 2-Jun/0.13	1-Jun/0.12 2-Jun/0.11	ND	17-May/1.9 CBD5 24-May/11 CBD5 24-May/3.2 CBD1 26-May/2.2 CBD5 26-May/2.8 CBD1 7-Jun/1.7 CBD1	191,414[b]	559,582

[a] Storm Event Monitoring at RD1000 for Natomas Mutual Central Water District, June 11–13 and 18, 2005

[b] Preliminary acreage from the Department of Pesticide Regulation

Notes:

µg/L = microgram(s) per liter

ND = Non-detect at the lab-specific RL. RLs for each lab are reported by year below:

2003: Valent's RL = 0.5 µg/L, APPL's RL = 0.5 µg/L
2004, 2006, 2007, 2008, 2009: Valent's RL = 0.5 µg/L, EMA's RL = 0.5 µg/L
2005: Valent's RL = 0.5 µg/L, APPL's RL = 0.1 µg/L; on May 3 RL = 0.5 µg/L
2010: Valent's RL = 0.5 µg/L, McCampbell's RL = 0.5 µg/L, CLS's RL = 0.5 µg/L
2011: Valent's RL = 0.5 µg/L, CLS's RL = 0.5 µg/L
2012, 2013, 2014, 2015: Valent's RL = 0.5 µg/L, CLS's RL = 0.15 µg/L
2016: North Coast's RL = 0.5 µg/L
RLs at WSR and SRR = 0.1 µg/L; 2014 Test America's RL = 0.48 µg/L

RL = reporting limit

Appendix B
Weather and Flow Data for 2013-2016

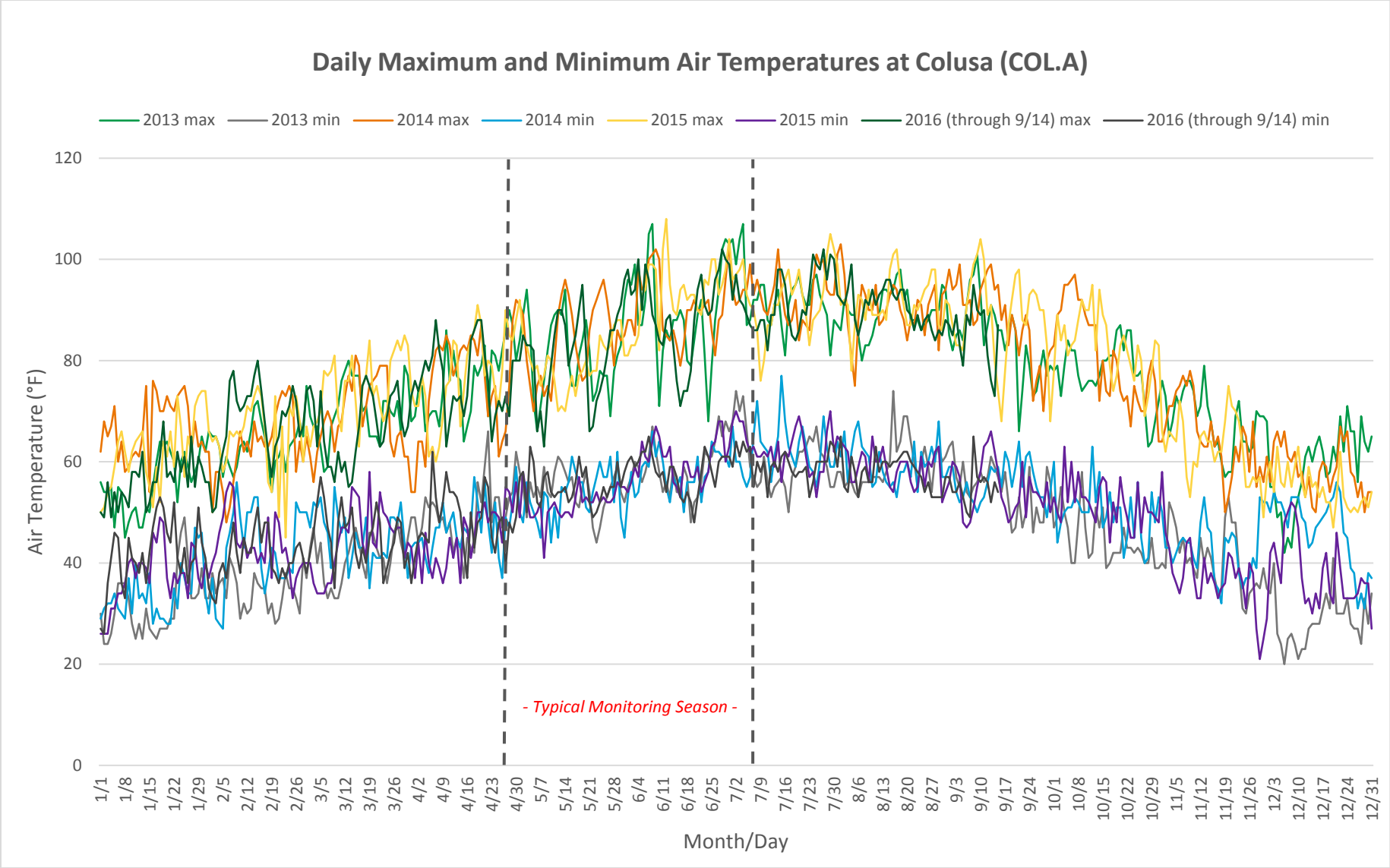


Figure B-1. Daily Maximum and Minimum Air Temperatures at Colusa, 2013-2016

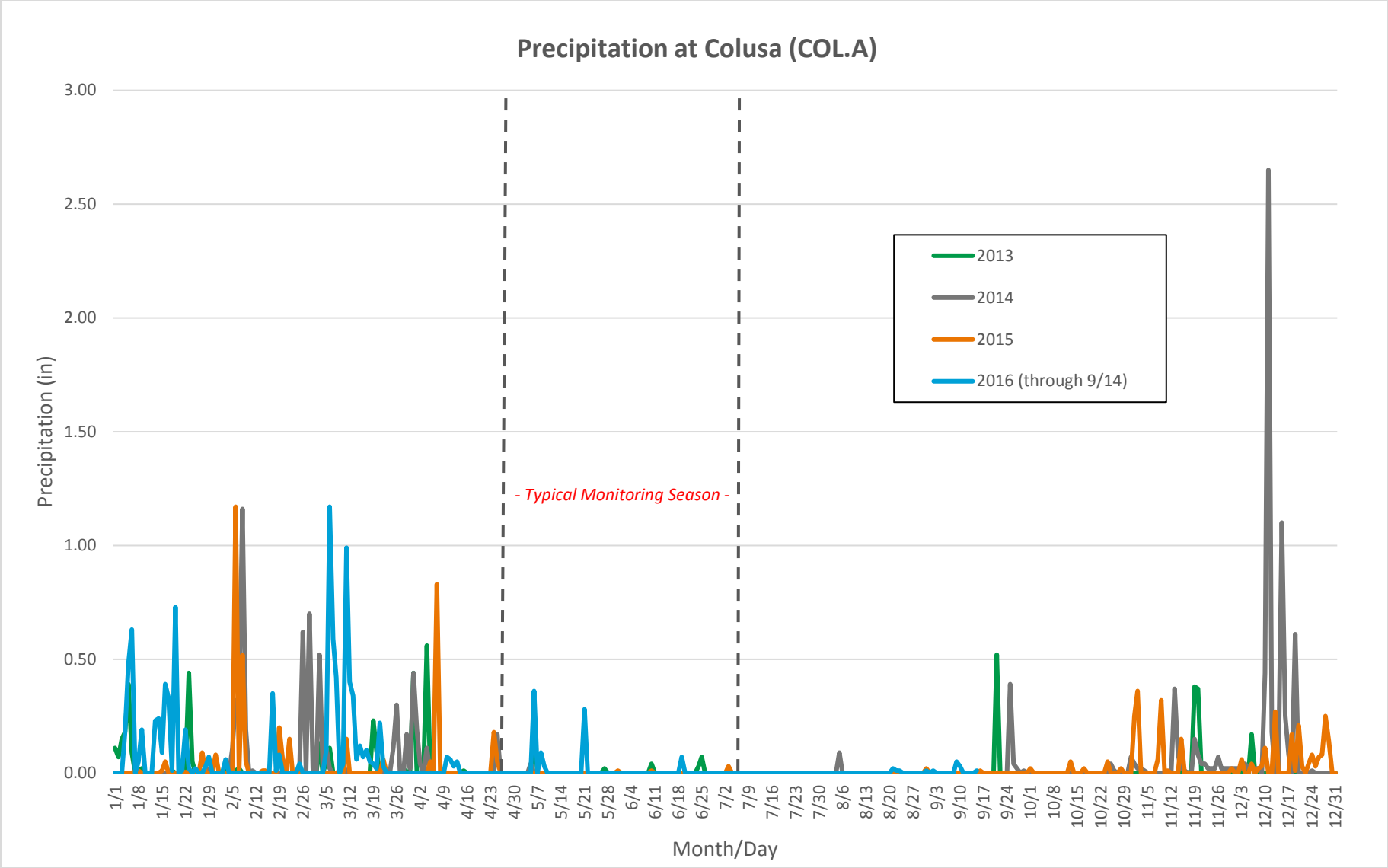


Figure B-2. Precipitation at Colusa, 2013-2016

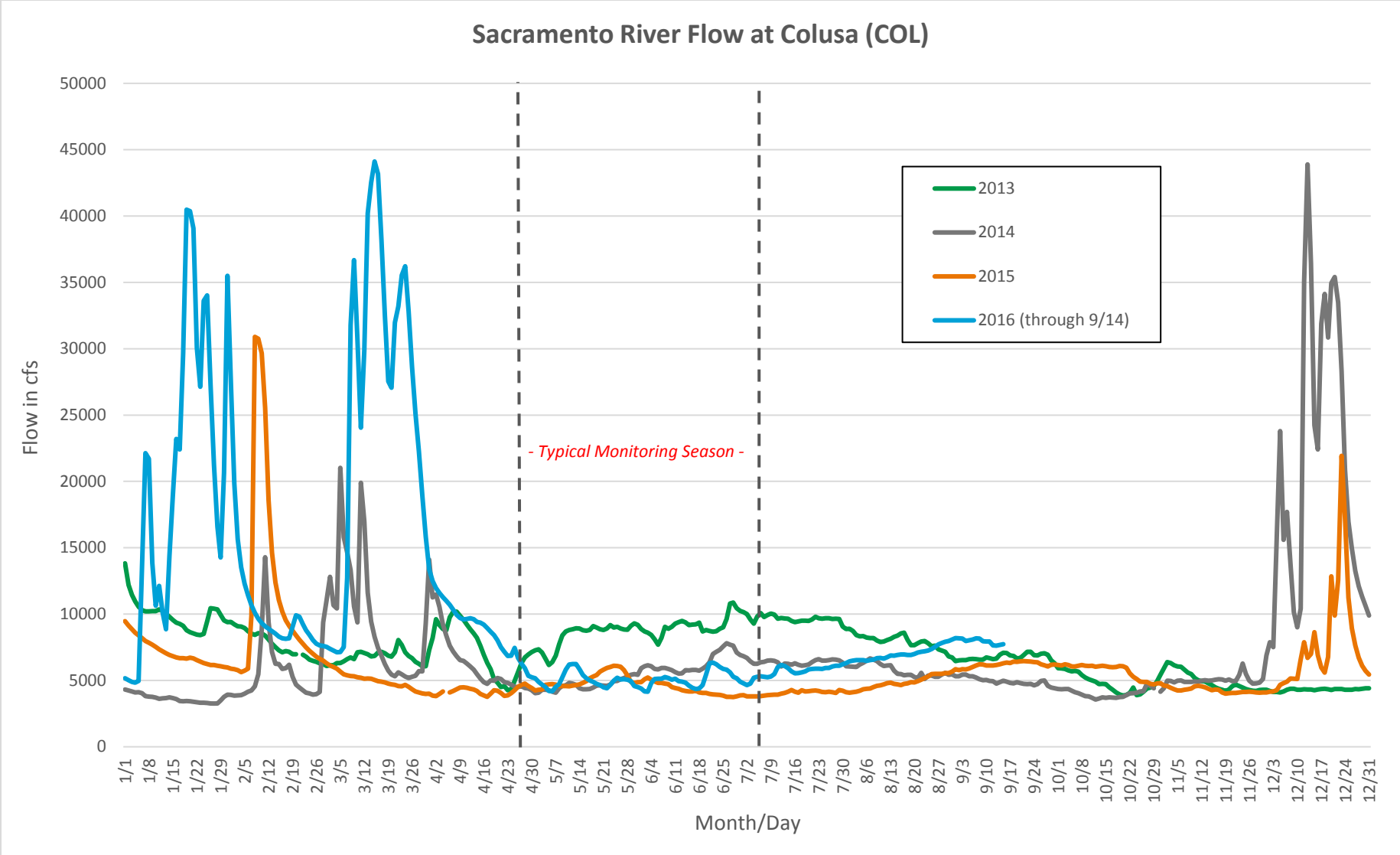


Figure B-3. Flow in the Sacramento River at Colusa (COL), 2013-2016

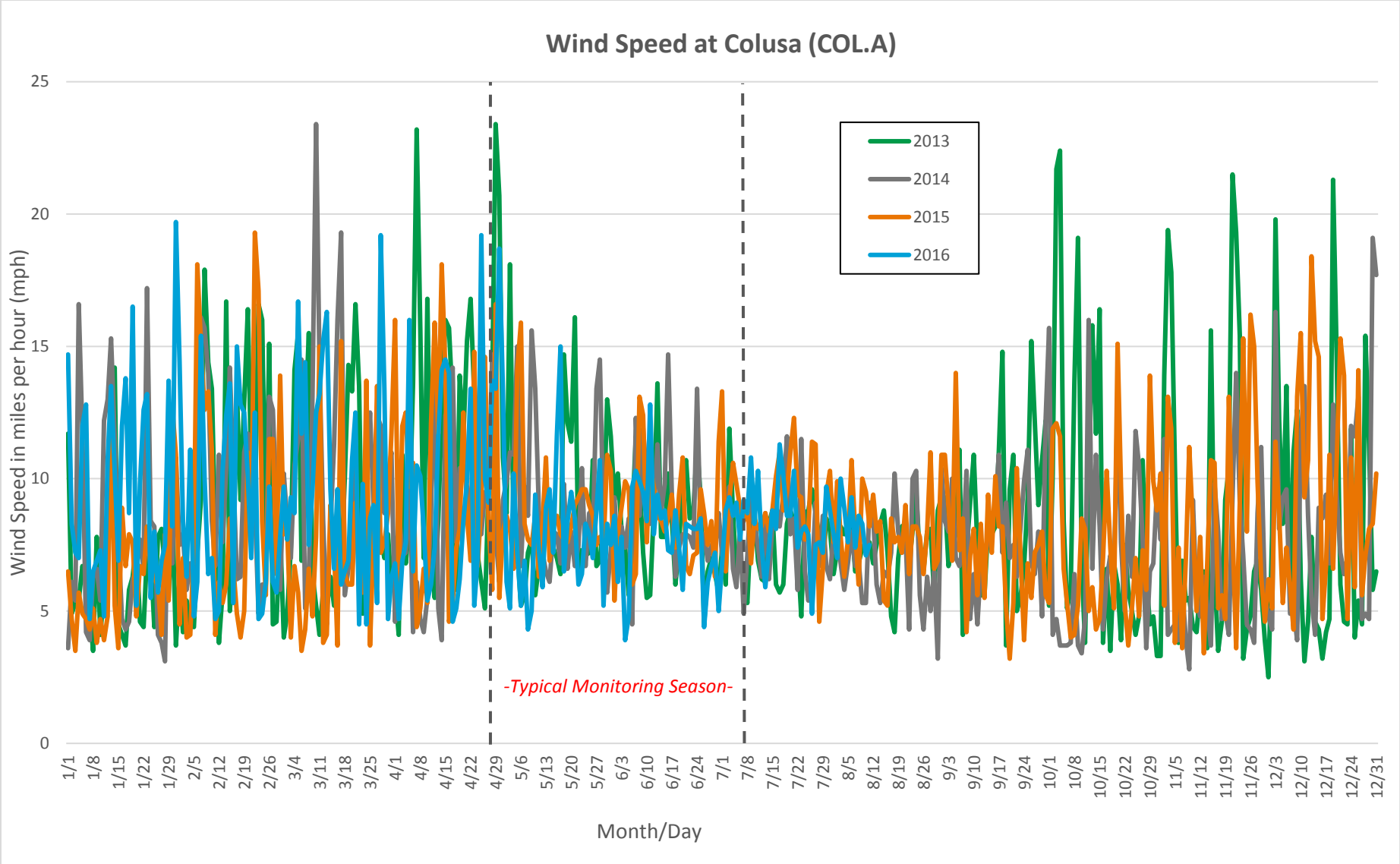


Figure B-4. Wind Speed at COL.A, 2013-2016

Appendix C
Management Practice Inspections Narrative

APPENDIX C

Management Practice Inspections Narrative

Management Practice Inspections

Management practices are a key component of the rice water quality programs. During the early phases of the RPP, management practices were developed to increase efficacy and ultimately to protect water quality. The cornerstone of rice management practices is a thorough understanding of the rice calendar, including the application methods and timing of thiobencarb use, which is specific to the early part of the rice-growing season. Initial use begins after planting either in April or May, with peak use occurring mid-May to June depending on the planting time.

Management practices include field-level management of rice pesticides and discharges, county agricultural commissioner (CAC) enforcement programs, grower education efforts, and communication programs. This section includes the thiobencarb water-hold table, general information on rice water quality management practices, and specific 2016 enforcement data.

Role of Management Practices in Attaining Water Quality Protection

Over the years, best management practices such as water-hold requirements and grower information meetings, along with inspection and enforcement actions, were implemented to ensure compliance with performance goals and attainment of water quality objectives and secondary maximum contaminant levels for the pesticides regulated under the Rice Pesticide Program (RPP). The water holds, which are specified on pesticide use labels and through permit conditions, were developed to provide for in-field degradation of pesticides prior to the release of treated water to drains and other surface waters. For 2016, the thiobencarb water-holding requirements were unchanged and remain the same as those listed in the Department of Pesticide Regulation (DPR) Pesticide Use Enforcement Program Standards Compendium.

Water Holds

The primary field-level water quality management practice is the water hold. The nature of rice farming, which requires standing water during the growing season, provides rice farmers with a unique opportunity to manage water flow. Water-hold durations vary based on requirements that are adopted from the data evaluations for the registration of the specific pesticide. The scientific data take into account the persistence of specific registered rice pesticides in the environment and are used to provide time for the applied product to degrade in the field. The goal of this strategy is to discharge rice drainage water that meets the *Water Quality Control Plan for the Sacramento River and San Joaquin River Basins (*Basin Plan) (CVRWQCB 2016) performance goals or other benchmarks.

The management practices developed under the RPP are the foundation for development and implementation of water-hold requirements for other pesticides. Over the years, water holds have become industry standard practice to address aquatic toxicity, taste complaints, environmental fate, and product efficacy. Thiobencarb water holds were originally developed with input from technical resources such as the University of California Cooperative Extension and pesticide registrants. Currently, the water-holding requirements result from the scientific data review for registration of all rice pesticides.

Water-hold requirements for thiobencarb are pesticide-use permit conditions under the RPP. Table C-1 specifies the water-hold requirements established by the DPR for the three registered formulations of thiobencarb.

Table C-1. Water-Hold Requirements in Days for Thiobencarb, North Sacramento Valley
2016 Rice Pesticides Program Monitoring Summary

Release Type	Thiobencarb	
	Bolero® UltraMax League MVP	Abolish™ 8EC
Single treated fields.	30	19
Release into tailwater recovery system or ponded onto fallow field or contained in other systems appropriate for preventing discharge.	19	19
System controlled by one permittee, then water may be discharged into the system in manner consistent with product labeling.	14	14
System includes drainage from more than one permittee, then water must be retained on-site.	6	6
Water on fields within bounds of areas that discharge negligible amounts of drainage onto perennial streams. Commissioner must evaluate such sites and verify the hydrologic isolation of the fields.	6	6
CAC may authorize emergency release of tailwater.	19	19

Actions Taken to Address Identified Water Quality Impacts

The CACs are the local enforcement agencies working with DPR to enforce the California Food and Agricultural Code and the California Code of Regulations pertinent to pesticide use. The CACs issue restricted materials permits to growers purchasing and using California-restricted materials in their respective counties. Thiobencarb is a restricted material with additional use restrictions (permit conditions) not found on the registered product label. Water holds are the most common label requirement with additional clarifying permit conditions for thiobencarb. Since 2003, the Central Valley Regional Water Quality Control Board (CVRWQCB) has authorized several resolutions impacting the DPR permit conditions that require increased inspections for seepage control; buffer zones during application; a pre-season mandatory stewardship meeting for growers, pest control advisors, and applicators; and formation of a Storm Event Work Group. The resolution authorizing the 2010 RPP (R5-2010-9001) has continually been updated to adopt additional conditions recommended by the California Rice Commission (CRC). The conditions included in the current RPP authorization are summarized as follows:

- Continuation of the management practices incorporated in the 2009 use permit conditions, including water-holding requirements for thiobencarb, drift minimization, mandatory pre-season thiobencarb stewardship training, water management (including emergency releases), and seepage mitigation measures (R5-2010-9001 (1)(a)).
- Additional outreach to applicators on the results of the 2009 thiobencarb water quality monitoring and required management practices, including clarification of hold time requirements, application procedures, and notification requirements associated with elevated results near the Sacramento River drinking water intakes (R5-2010-9001 (1)(b)).
- Consultation with the 10 thiobencarb dealers and distributors in the Sacramento River Basin (R5-2010-9001 (1)(b)).
- Funding of additional county surveillance at nontraditional hours to double the level of 2009 surveillance and extension of the program to counties not previously funded. Surveillance inspections have increased to approximately 1.5 times the 2009 level with the new funding (R5-2010-9001 (1)(c)).

- Storm-related emergency releases will be monitored at a monitoring site representative of rice field discharges from a reclamation district with a previously closed system (R5-2010-9001 (1)(d)).
- If the Basin Plan performance goal or water quality objective (WQO) for thiobencarb is not met or increasing thiobencarb concentrations are observed in waters designated for municipal or domestic water supply, the CRC, after consultation with DPR, will submit to the Executive Officer proposed actions to be implemented to achieve the performance goal or WQO (R5-2010-9001 (1)(e)).

The restricted materials permits require the CACs to keep records of pesticides applied to rice acreage, while full use reporting will document agricultural pesticide applications. Rice growers or pest control operators submit Notices of Intent (NOIs) to the CACs at least 24 hours prior to application so that CAC staff can observe applications. Notices of Application are reported 24 hours after an application occurs so that water-holding times can be recorded, inspected, and tracked. Some counties are considering increasing the NOI to 48 hours so that CAC staff have additional time for pre-application inspections.

Compliance with pesticide-use restrictions is a critical component of the RPP to achieve water quality protection. A range of label restrictions and permit conditions applies to the use of rice pesticides, including mix/load, application, and water-hold requirements. CACs perform inspections to enhance compliance with each of the label restrictions and permit conditions. Mix/load inspections are performed primarily for worker protection and to evaluate whether pesticides are being properly handled and contained to prevent releases to the environment. Application inspections are performed to evaluate label and permit condition application restrictions such as buffer zones, adherence to rate and wind speed and other local requirements, and water management. Seepage inspections evaluate the efficacy of farm water management levees to hold water in-field throughout the duration of water holds.

Release Inquiries and Emergency Releases

In 2016, there were two release inquiries and no reported emergency releases. The release inquiries were reported by Colusa and Sutter Counties.

Seepage Control and Inspections

Seepage is a water quality concern because rice field water can move laterally through levees bordering rice fields, especially when levees are constructed in a manner that does not prevent water seepage. The CVRWQCB expressed concern that seepage was a contributing factor to increased thiobencarb concentrations in the Sacramento River in the past.

For several years, the CRC has contracted with three CACs to fund off-duty enforcement activity on weekends and holidays during RPP pesticide use season. Surveillance inspections have been offered to all the counties with rice acreage in the RPP. The number of inspections correlates to the thiobencarb NOIs and the amount of product used.

The CACs provide local oversight using the “DPR Pesticide Use Enforcement Program Standard Compendium, Volume 3, Restricted Materials Permitting” (DPR 2016) with activity prioritization under the County Enforcement Work Plans. All rice pesticide water-holding requirements are ranked as high-priority inspections when rice pesticides are used as restricted materials.

The CACs conducted seepage inspections in 2016, as summarized in Table C-2. Based on the inspection data provided to the DPR Enforcement Branch by the CACs, 1,520 thiobencarb use sites were inspected for seepage. Of these inspected sites, 1,220 sites reported no seepage, 276 had reported seepage of less than 5 gallons per minute (gpm), and 22 sites had reported seepage of greater than 5 gpm. The sites with flow greater than 5 gpm constitute approximately 1.4 percent of inspected sites. Seven enforcement actions were reported, with four in Colusa County, two in Glenn County, and one in Sutter County.

Table C-2. Thiobencarb Water Seepage Inspections, 2016

2016 Rice Pesticides Program Monitoring Summary

County	Chemical	Number of Seepage Inspections	Number of Sites with No Seepage	Number of Sites with Less than 5 gpm Seepage	Number of Sites with More than 5 gpm Seepage	Enforcement Actions
Butte	Bolero	160	160	0	0	0
	Abolish	4	4	0	0	0
	League	0	0	0	0	0
	County total	**164**	**164**	**0**	**0**	**0**
Colusa	Bolero	179	169	8	2	2
	Abolish	124	118	6	0	2
	League	36	32	4	0	0
	County total	**339**	**319**	**18**	**2**	**4**
Glenn	Bolero	95	28	63	4	1
	Abolish	141	60	66	15	1
	League	0	0	0	0	0
	County total	**236**	**88**	**129**	**19**	**2**
Placer	Bolero	2	2	0	0	0
	Abolish	11	11	0	0	0
	League	0	0	0	0	0
	County total	**13**	**11**	**0**	**0**	**0**
Sacramento	Bolero	8	8	0	0	0
	Abolish	3	3	0	0	0
	League	0	0	0	0	0
	County total	**11**	**11**	**0**	**0**	**0**
Sutter	Bolero	166	165	1	0	0
	Abolish	107	105	1	1	1
	League	6	6	0	0	0
	County total	**279**	**276**	**2**	**1**	**0**
Tehama	Bolero	0	0	0	0	0
	Abolish	0	0	0	0	0
	League	0	0	0	0	0
	County total	**0**	**0**	**0**	**0**	**0**
Yolo	Bolero	93	90	3	0	0
	Abolish	0	0	0	0	0
	League	0	0	0	0	0
	County total	**93**	**90**	**3**	**0**	**0**
Yuba	Bolero	304	232	72	0	0
	Abolish	78	26	52	0	0
	League	3	3	0	0	0
	County total	**385**	**261**	**124**	**0**	**0**
Total		**1520**	**1220**	**276**	**22**	**7**

Note:

Data are preliminary.

Water-Hold Inspections

The CACs conducted water-hold inspections of 1,541 thiobencarb use sites in 2016 (Table C-3). There were two reported release inquiries and no reported emergency releases. Of the 1,541 use sites inspected, seven were issued agricultural civil penalties (ACPs). The ACPs were in Colusa, Glenn, and Sutter Counties.

Table C-3. Thiobencarb Water-Hold, Application, and Mix/Load Inspections, 2016
2016 Rice Pesticides Program Monitoring Summary

County	Chemical	Water-Hold Inspections	Release Inquiries	Emergency Releases	Application Inspections	Mix-Load Inspections	ACPs
Butte	Bolero	160	0	0	5	2	0
	Abolish	4	0	0	0	2	0
	League	0	0	0	0	0	0
	County total	**164**	**0**	**0**	**5**	**4**	**0**
Colusa	Bolero	179	1	0	1	0	2
	Abolish	124	0	0	6	2	2
	League	36	0	0	0	1	0
	County total	**339**	**1**	**0**	**7**	**3**	**4**
Glenn	Bolero	47	0	0	0	0	1
	Abolish	103	0	0	1	1	1
	League	0	0	0	0	0	0
	County total	**150**	**0**	**0**	**1**	**1**	**2**
Placer	Bolero	2	0	0	0	0	0
	Abolish	11	0	0	1	1	0
	League	0	0	0	0	0	0
	County total	**13**	**0**	**0**	**1**	**1**	**0**
Sacramento	Bolero	25	0	0	0	0	0
	Abolish	9	0	0	0	0	0
	League	0	0	0	0	0	0
	County total	**34**	**0**	**0**	**0**	**0**	**0**
Sutter	Bolero	166	0	0	1	2	0
	Abolish	107	1	0	4	4	1
	League	6	0	0	1	1	0
	County total	**279**	**1**	**0**	**6**	**7**	**1**
Tehama	Bolero	0	0	0	0	0	0
	Abolish	0	0	0	0	0	0
	League	0	0	0	0	0	0
	County total	**0**	**0**	**0**	**0**	**0**	**0**
Yolo	Bolero	117	0	0	7	2	0
	Abolish	45	0	0	4	3	0
	League	15	0	0	0	0	0
	County total	**177**	**0**	**0**	**11**	**5**	**0**
Yuba	Bolero	304	0	0	5	2	0
	Abolish	78	0	0	4	4	0
	League	3	0	0	1	1	0
	County total	**385**	**0**	**0**	**10**	**7**	**0**
Total		**1541**	**2**	**0**	**41**	**28**	**7**

Notes:
Data are preliminary.
ACP = agricultural civil penalty

Application and Mix/Load Inspections

The CACs conducted application and mix/load inspections in 2016, as summarized in Table C-3. Based on the inspection data provided by the CACs to the DPR Enforcement Branch, 41 application inspections and 28 mix/load event inspections were performed.

Appendix D
Maps and Coordinates of Monitoring Locations

APPENDIX D

Maps and Coordinates of Monitoring Locations

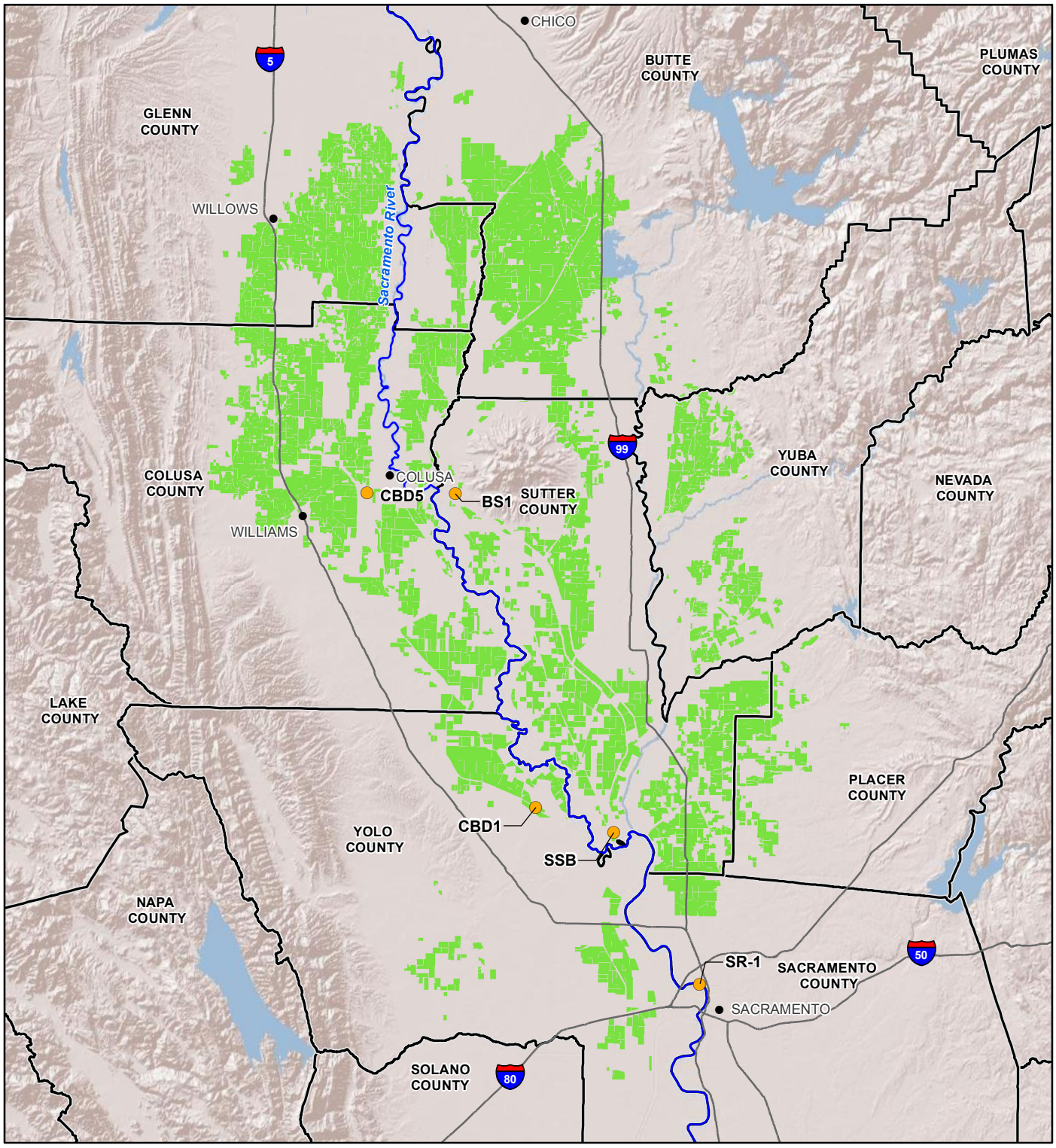
Table D-1. Monitoring Location Information

2016 Rice Pesticides Program Monitoring Summary

Site Code	Site Name	Latitude	Longitude	Site Type
CBD1	Colusa Basin Drain above Knights Landing	38.81248 N	-121.77429 W	Primary
CBD5	Colusa Basin Drain #5	39.18354 N	-122.05136 W	Primary
BS1	Butte Slough at Lower Pass Road	39.18717 N	-121.90833 W	Primary
SSB	Sacramento Slough Bridge near Karnak	38.78518 N	-121.65439 W	Primary
SR1	Sacramento River at Village Marina/Crawdads Cantina	38.60359 N	-121.518 W	Primary – River Site
N	Willow Creek at Road 61 Glenn County	39.458050 N	-122.086227 W	Special Monitoring
RD 68	Road 68 and Logan Creek Glenn County	39.407153 N	-122.176883 W	Special Monitoring
Q	Glenn-Colusa Irrigation District at Two Mile Road Colusa County	39.355987 N	-122.154601 W	Special Monitoring
P	Stone Corral Creek at Four Mile Road Colusa County	39.293434 N	-122.116635 W	Special Monitoring
I	Colusa Basin Drain Maxwell Road Colusa County	39.275491 N	-122.086519 W	Special Monitoring
K	Lurline Creek at Lurline Road Colusa County	39.225294 N	-122.134742W	Special Monitoring
L	Freshwater Creek at San Jose Road Colusa County	39.192401 N	-122.116162 W	Special Monitoring

Note:

Coordinates are North American Datum of 1983 (NAD83).



LEGEND

- CITY
- RPP MONITORING SITES
- COUNTY
- RICE LAND 2016 PERMIT AREA

NOTES:

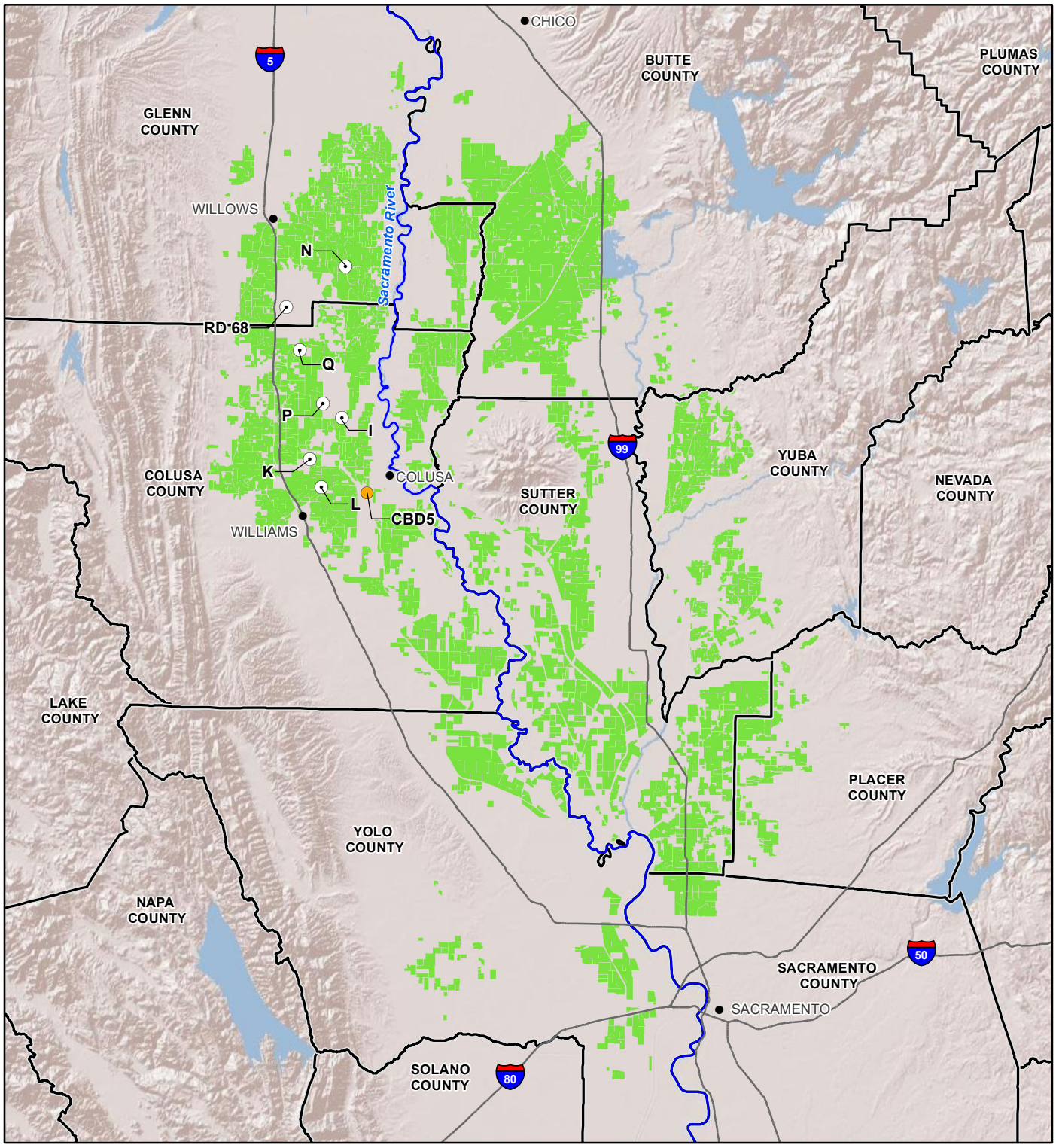
DATUM: NAD 1983.

SOURCES: BASEMAP (COPYRIGHT:© 2014 ESRI); RICE LANDS (CAL AG PERMIT, 2015); COUNTY (CAL FIRE 2007) ; HYDROLOGY (NHD ACCESSED JAN 2016).

California Rice

0 6 12
Miles
N

FIGURE D-1
RPP Monitoring Sites
RPP Annual Monitoring Report
California Rice Commission



LEGEND

- CITY
- Special Monitoring Site
- COUNTY
- RICE LAND 2016 PERMIT AREA

NOTES:

DATUM: NAD 1983.

SOURCES: BASEMAP (COPYRIGHT:© 2014 ESRI); RICE LANDS (CAL AG PERMIT, 2015); COUNTY (CAL FIRE 2007) ; HYDROLOGY (NHD ACCESSED JAN 2016).

California Rice

0 6 12
Miles

N

FIGURE D-2
2016 Special Monitoring Sites
RPP Annual Monitoring Report
California Rice Commission

Appendix E
Maximum Thiobencarb Detections by Site and Date, 2001-2016

Table E-1. Maximum Thiobencarb Detection (in µg/L) by Site and Date

2016 Rice Pesticides Program Monitoring Summary

Year	SR1/Date	SRR/Date	WSR/Date	SSB/Date	CBD1/Date	BS1/Date	CBD5/Date	Acres Treated	Acres Planted
2001	22-May/0.50	29-May/0.38	5-May/0.59		29-May/7.9	29-May/2.6	10-May/5.9	168,991	496,100
2002	23-May/0.9	24-May/0.91	24-May/1.6			23-May/3.4	23-May/8.2	222,414	533,000
2003	ND	< 0.10	16-June/0.16	ND	17-June/2.30	10-June/0.60	12-June/1.30	154,928	498,000
2004	ND	< 0.10	< 0.10	1-June/0.90	27-May/1.60	ND	4-May/3.6	136,132	595,000
2005	14-June/0.07	< 0.10	1-June/0.11	9-June/0.63	14-June/0.67	21-June/0.36	21-June/0.45	118,786	528,000
2006	8-June/0.17	< 0.10	14-June/0.16	8-June/0.40	23-May/0.90	1-June/0.70	1-Jun/0.97	79,109	526,000
2007	22-May/0.13	< 0.10	23-May/0.19	22-May/0.17	22-May/0.76	17-May/0.23	15-May/0.54	74,251	534,000
2008	22-May/0.62	15-May/0.12	15-May/0.31	13-May/0.32	22-May/1.80	27-May/1.99	22-May/1.02	67,483	517,000
2009	26-May/0.31	25-May/0.29	25-May/0.68	9-June/0.24	26-May/1.84	11-Jun/0.50	26-May/1.24	72,660	561,000
2010	25-May/0.08	< 0.10	< 0.10	29-June/0.26	8-June/1.80	3-June/0.80	10-June/1.50	75,172	558,000
2011	ND	< 0.10	1-June/0.12	7-June/0.46	7-June/1.16	2-June/0.60	24-May/1.42	71,824	585,000
2012	ND	< 0.10	< 0.10	21-June/0.30	7-June/1.23	31-May/0.63	29-May/1.00	78,478	556,000
2013	21-May/0.11 30-May/0.11	< 0.10	20-May/0.16	30-May/0.34	23-May/1.77	23-May/0.36	21-May/3.97	84,533	556,000
2014	27-May/0.06	< 0.10 < 0.48 < 0.49	< 0.10 < 0.48 < 0.49	20-May/0.25	3-June/1.27	29-May/1.1	29-May/3.81	107,525	431,000
2015	ND	ND	27-May/0.1	12-May/0.62 11-June/0.62	26-May/1.53	ND	19-May/1.89 21-May/5.25 26-May/2.41 2-June/1.56	144,552*	452,824
2016	ND	1-June/0.12	2-June/0.13	ND	24-May/3.2 26-May/2.8	31-May/1.1	17-May/1.9 24-May/11.0 26-May/2.2	191,414*	559,582 (est.)

*Preliminary acreage from DPR

Note:

µg/L = microgram(s) per liter

Appendix F
2016 Field and Laboratory Results

Appendix F-1
Field Sheets and Chain-of-Custody Forms

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: 4/26/2016 - 4/27/2016
StationID & Name : SR1	FIRST SAMPLE TIME: 0815
Project ID: 20154800.002A-01 — Arrival Time: 0750 — Departure Time: 0835	Target Lat. & Long.:
Sampling Crew (and Agency): Seng Lo / Kalen B. Kleinfelder	Actual Lat & Long: 38:36:12.277 / 121:31:2.089
	Datum: — Accuracy (ft / m):

OBSERVATIONS	
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk, Other	WADEABLE: YES / NO — PICTURE NAME/S:
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs	

Comments: TD: 20'

Water Column Thickness: 20' Sample Depth: 10'

PHYSICAL PARAMETERS	SAC	SR
Water Temp (Celsius):	16.56	16.53
Air Temp (°F):	50	
*pH>8.5 or <6.5 pH:	7.55	7.34
*DO<7.0 DO (mg/L):	6.95	10.26

SAMPLE COLLECTION	
Sample Depth (circle one):	0.1 m (subsurface grab) -88 (integrated)
STARTING BANK:	LB / RB/ NA
OCCUPATION METHOD:	Walk-in, Bridge, Other: Dock
SAMPLING EQUIPMENT:	Indiv bottle by hand, By pole, Other: Kemmerer
SAMPLE LOCATION:	Bank, Thalweg, Midchannel, Open Water Dock
HYDRO-MODIFICATION:	None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other:
HYDROMODLOC:	US / DS / NA

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				
					Staff Gauge: 5.5'

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: 4/26/2016 - 4/27/2016
StationID & Name : **CBD5**	FIRST SAMPLE TIME: 1115
Project ID: **20154800.002A-01** Arrival Time: 1105 Departure Time: 1235	Target Lat. & Long.:
Sampling Crew (and Agency): Seng Lo, Kalen B.	Actual Lat & Long: 39:11:0.736/122:3:4.891
	Datum: Accuracy (ft / m):

OBSERVATIONS	
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk, Other	WADEABLE: YES / NO — PICTURE NAME/S:
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs	

Comments:

Water Column Thickness: 10' Sample Depth: 5'

PHYSICAL PARAMETERS	SAC	SR
Water Temp (Celsius):	15.99	15.97
Air Temp (°F):	70	
*pH>8.5 or <6.5 pH:	7.56	7.95
*DO<7.0 DO (mg/L):	4.76	10.05

SAMPLE COLLECTION	
Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)	
STARTING BANK: LB / RB / NA	
OCCUPATION METHOD: Walk-in, Bridge, Other:	
SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: Kemmerer	
SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water	
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other:	
HYDROMODLOC: US / DS / NA	

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: 4/26/2016 - 4/27/2016
StationID & Name : **CBD1**	FIRST SAMPLE TIME: 1415
Project ID: **20154800.002A-01** — Arrival Time: 1325 — Departure Time: 1450	Target Lat. & Long.:
Sampling Crew (and Agency): Seng Lo, Kalen B.	Actual Lat & Long: 38: 48: 44.929 / 121: 46: 27.440
	Datum: — Accuracy (ft / m):

OBSERVATIONS		
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other	WADEABLE: YES / NO	PICTURE NAME/S:
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy	
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow	
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None	
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other	
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 10' **Sample Depth:** 5'

PHYSICAL PARAMETERS	SAC	SR	SAMPLE COLLECTION
Water Temp (Celsius):	18.40	18.38	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):	70		STARTING BANK: LB / RB/ NA
*pH>8.5 or <6.5 pH:	7.31	7.97	OCCUPATION METHOD: Walk-in, Bridge, Other: _____
*DO<7.0 DO (mg/L):	*	8.11	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: _____
			SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water
			HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____
			HYDROMODLOC: US / DS / NA

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

* SAC YSI 556 Read D.O. as 11.13 mg/L (117.8%). Meter was re-calibrated, readings remain suspect.

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: 4/26/2016 - 4/27/2016
StationID & Name : **BS1**	FIRST SAMPLE TIME: 1010
Project ID: **20154800.002A-01** Arrival Time: 0950 Departure Time: 1050	Target Lat. & Long.:
Sampling Crew (and Agency): Seng Lo / Mark Lee Kleinfelder	Actual Lat & Long: 39:11:13.817 / 121:54:29.994
	Datum: Accuracy (ft / m):

OBSERVATIONS		WADEABLE: YES / NO	PICTURE NAME/S:
DOMINANT SUBSTRATE:	Concrete, Cobble, Gravel, Sand, Mud, Unk., Other		
SITE ODOR:	None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE:	clear, partly cloudy, overcast, fog, hazy
OTHER PRESENCE:	Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION:	None, Foggy, Drizzle, Rain, Snow
WATER ODOR:	None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs):	Unknown, <1", >1", None
WATER CLARITY:	Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR:	colorless, green, yellow, brown, other
OBSERVED FLOW:	NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 11'

Sample Depth: 5.5'

PHYSICAL PARAMETERS	SAC	SR
Water Temp (Celsius):	16.97	16.95
Air Temp (°F):	60	
*pH>8.5 or <6.5 pH:	7.66	7.48
*DO<7.0 DO (mg/L):	7.58	7.41

SAMPLE COLLECTION	
Sample Depth (circle one):	0.1 m (subsurface grab) -88 (integrated)
STARTING BANK:	LB / RB / NA
OCCUPATION METHOD:	Walk-in, Bridge, Other:
SAMPLING EQUIPMENT:	Indiv bottle by hand, By pole, Other: Kemmerer
SAMPLE LOCATION:	Bank, Thalweg, Midchannel, Open Water
HYDRO-MODIFICATION:	None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other:
HYDROMODLOC:	US / DS / NA

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: 4/26/2016 - 4/27/2016
StationID & Name : SSB	FIRST SAMPLE TIME: 1255
Project ID: 20154800.002A-01 — Arrival Time: 1235 — Departure Time: 1325	Target Lat. & Long.:
Sampling Crew (and Agency): Seng Lo, Mark Lee / Kleinfelder	Actual Lat & Long: 38:47:6.649 / 121.39:15.8379
	Datum: — Accuracy (ft / m):

OBSERVATIONS		WADEABLE: YES / NO	PICTURE NAME/S:
DOMINANT SUBSTRATE:	Concrete, Cobble, Gravel, Sand, Mud, Unk, Other		
SITE ODOR:	None, Sulfides, Sewage, Petroleum, Mixed, Other Fertilizer	SKY CODE:	clear, partly cloudy, overcast, fog, hazy
OTHER PRESENCE:	Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION:	None, Foggy, Drizzle, Rain, Snow
WATER ODOR:	None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs):	Unknown, <1", >1", None
WATER CLARITY:	Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR:	colorless, green, yellow, brown, other
OBSERVED FLOW:	NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 5'

Sample Depth: 2.5'

PHYSICAL PARAMETERS	SAC	SR
Water Temp (Celsius):	18.93	18.90
Air Temp (°F):	70	
*pH>8.5 or <6.5 pH:	7.81	7.91
*DO<7.0 DO (mg/L):	7.06	7.16

SAMPLE COLLECTION	
Sample Depth (circle one):	0.1 m (subsurface grab), 88 (integrated)
STARTING BANK:	LB / RB / NA
OCCUPATION METHOD:	Walk-in, Bridge, Other: _____
SAMPLING EQUIPMENT:	Indiv bottle by hand, By pole, Other: Kemmerer
SAMPLE LOCATION:	Bank, Thalweg, Midchannel, Open Water
HYDRO-MODIFICATION:	None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____
HYDROMODLOC:	US / DS / NA

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

KLEINFELDER
INSTRUMENT CALIBRATION LOG

Sampler Name/No.: Seng Lo | Katen B.

Date: 4/26/16

Project No.: 20154800.002A-01/02

Job Name: RPP/Rice WDR 2016

Calibration Start Time: 0605

pH Meter: YSI-SAC								EC Meter: YSI-SAC	
	Time	Temp. via Thermometer	Temp. via YSI Meter	pH7	mVpH (pH 7)	pH10	mVpH (pH10)		1413 umho
Reading (initial)	0625	20	21.04	~~7.57~~ 7.67	-38.9	9.92	-209.8	Reading (initial)	1383
Calibration (initial)				7.00	-38.9	10.00	-209.8	Calibration (initial)	1413
Reading (intermediate)								Reading (intermediate)	
Calibration (intermediate)								Calibration (intermediate)	
Reading (end of day)	1630		23.71	6.75	-24.5	9.37	-177.3	Reading (end of day)	1452

Comments:

Turbidity Meter (make/number): SCIENTIFIC #0054

	0.02 NTU	10.0 NTU	1000 NTU	Battery Check	
Reading (Initial)	0.06	9.94	987	GOOD	
Calibration	0.02	10.02	1001	CALIBRATION ✓	
	✓	✓	✓		

D.O. Meter: YSI-SAC

Barometric Pressure: ~~757~~ 760 mmHg

	mg/L	%
Reading (initial):	16.85	175.2
Reading (adj.):	9.55	99.2
Intermediate Reading (initial):	43.92	45.2
Intermediate Reading (adj.):	8.69	100.5

KLEINFELDER
INSTRUMENT CALIBRATION LOG

Sampler Name/No.: Seng Lo | Kalen B

Date: 4/26/16

Project No.: 20154800.002A-01/02

Job Name: RPP/Rice WDR 2016

Calibration Start Time: 0605

pH Meter: YSI-SR								EC Meter: YSI-SR	
	Time	Temp. via Thermometer	Temp. via YSI Meter	pH7	mVpH (pH 7)	pH10	mVpH (pH10)		1413 umho
Reading (initial)	0625	20	20.23	6.98	-28.6	9.93	-193.5	Reading (initial)	1358
Calibration (initial)				7.00	-28.5	10.00	-193.7	Calibration (initial)	1413
Reading (intermediate)								Reading (intermediate)	
Calibration (intermediate)								Calibration (intermediate)	
Reading (end of day)	1630		23.58	6.94	-25.1	9.88	-188.2	Reading (end of day)	1482

Comments:

Turbidity Meter (make/number): Scientific #0054

	0.02 NTU	10.0 NTU	1000 NTU	Battery Check
Reading (Initial)	0.06	9.94	987	Good
Calibration	0.02	10.02	1001	Calibration

D.O. Meter: YSI-SR

Barometric Pressure: 758.3 mmHg

	mg/L	%
Reading (initial):	8.83	92.1
Reading (adj.):	~~99.7955~~	99.5
Intermediate Reading (initial):	9.07	100.1
Intermediate Reading (adj.):	9.09	100.4

KLEINFELDER
INSTRUMENT CALIBRATION LOG

Sampler Name/No.: S. Lo / M. Lee

Date: 4-27-16

Project No.: 20154800.002A-01/02

Job Name: RPP/Rice WDR 2016

Calibration Start Time: 0610

pH Meter: YSI-SAC								EC Meter: YSI-SAC	
	Time	Temp. via Thermometer	Temp. via YSI Meter	pH7	mVpH (pH 7)	pH10	mVpH (pH10)		1413 umho
Reading (initial)	0630	18.0	19.93	7.06	-3.4	10.00	-177.2	Reading (initial)	1422
Calibration (initial)	0650	18.0	19.77	7.00	-3.5	10.00	-177.8	Calibration (initial)	1413
Reading (intermediate)								Reading (intermediate)	
Calibration (intermediate)								Calibration (intermediate)	
Reading (end of day)			20.10	7.30	-21.5	10.12	-184.7	Reading (end of day)	1380

Comments: New DO membrane installed

Turbidity Meter (make/number): Scientific

	0.02 NTU	10.0 NTU	1000 NTU	Battery Check	
Reading (Initial)	0.02	10.0	1000		
Calibration	0.02	10.0	1000		

D.O. Meter: YSI-SAC

Barometric Pressure: 755.1 mmHg

	mg/L	%
Reading (initial):		112.9
Reading (adj.):	9.89	99.8
Intermediate Reading (initial):		
Intermediate Reading (adj.):		

KLEINFELDER
INSTRUMENT CALIBRATION LOG

Sampler Name/No.: S.Lo/M.Lee

Date: 4/27/16

Project No.: 20154800.002A-01/02

Job Name: RPP/Rice WDR 2016

Calibration Start Time: 0610

pH Meter: YSI-SR								EC Meter: YSI-SR	
	Time	Temp. via Thermometer	Temp. via YSI Meter	pH7	mVpH (pH 7)	pH10	mVpH (pH10)		1413 umho
Reading (initial)	0630	18.0	19.49	7.51	-29.5	9.85	-195.10	Reading (initial)	1423
Calibration (initial)	0650	18.0	19.88	7.00	-29.3	10.00	-195.4	Calibration (initial)	1413
Reading (intermediate)								Reading (intermediate)	
Calibration (intermediate)								Calibration (intermediate)	
Reading (end of day)	1435		20.01	7.00	-28.9	9.89	-189.1	Reading (end of day)	1395

Comments:

Turbidity Meter (make/number): HF Scientific

	0.02 NTU	10.0 NTU	1000 NTU	Battery Check	
Reading (Initial)	0.02	10.0	1000		
Calibration	0.02	10.0	1000		

D.O. Meter: YSI-SR

Barometric Pressure: 755.8 mmHg

	mg/L	%
Reading (initial):	9.15	91.0
Reading (adj.):	10.07	99.6
Intermediate Reading (initial):		
Intermediate Reading (adj.):		

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COC# 907161

Project No.	Project Name
20154800.002A Task 01	RPP- W1D1

L.P. No. (PO No.):

Samplers: (Signature/Number): Peng Lo 11075

Receiving Lab:
North Coast Laboratories
5680 West End Rd., Arcata CA 95521
Attn: Roxanne Moore (707) 822-4649

Instructions/Remarks:

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb
1	04/26/16	0815	SR1-NCL-1-1	W	1	500 mL	X
2	04/26/16	1115	CBD5-NCL-1-1	W	1	500 mL	X
3	04/26/16	1415	CBD1-NCL-1-1	W	1	500 mL	X
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Relinquished By:	Date/Time	Received By:
	4/26/16 1850	Sample Control Room #3
Sample Control	4-28-16 1530	Fed Ex

Instructions/Remarks: Standard TAT

Send Results To:
rfiroved@calrice.org
jenny.krenz@CH2M.com
criddle@kleinfelder.com

CHAIN-OF-CUSTODY

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COC# 907161

Project No.	Project Name
20154800.002A Task 01	RPP- W1D1

L.P. No. (PO No.):

Samplers: (Signature/Number): Sergio 1195

Receiving Lab:
North Coast Laboratories
5680 West End Rd., Arcata CA 95521
Attn: Roxanne Moore (707) 822-4649

Instructions/Remarks

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb
1	04/27/16	1010	BS1-NCL-1-1	W	1	500 mL	X
2	04/27/16	1255	SSB-NCL-1-1	W	1	500 mL	X
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Relinquished By:	Date/Time	Received By:
[signature]	4/27/16 1650	Sample Control Room #3
[signature] Sample Control	4/28/16 1530	Feed Ex

Instructions/Remarks: Standard TAT

Send Results To:
rfiroved@calrice.org
jenny.krenz@CH2M.com
criddle@kleinfelder.com

CHAIN-OF-CUSTODY

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COC# 732451

Project No.	Project Name
20154800.002A Task 01	RPP- W1D1

L.P. No. (PO No.):

Samplers: (Signature/Number): Seng Lo 1145

Receiving Lab:
CLS Labs
3249 Fitzgerald Road
Rancho Cordova, CA 95742
Attn: Scott Furnas
916-638-7301

Instructions/Remarks

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb (EPA 507)	Instructions/Remarks
1	04/26/16	S.L 1115/1345	CBD5-CL-1-1	W	1	1-L Amber	X	QC Sample
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

Relinquished By:	Date/Time	Received By:
[signature]	4/26/16 1650	Sample Control Room #3
[signature]	4-28-16 0730	[signature]
[signature]	4-28-16 0825	[signature] 4/28/16 823 (0.3)

Instructions/Remarks: Standard TAT

Send Results To:
criddle@kleinfelder.com
sgardner@kleinfelder.com
rcohen@kleinfelder.com

CHAIN-OF-CUSTODY

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: 5/3/2016
StationID & Name : **SR1**	FIRST SAMPLE TIME: 0750
Project ID: **20154800.002A-01** Arrival Time: 0735 Departure Time: 0805	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: Accuracy (ft / m):

OBSERVATIONS		
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other	WADEABLE: YES / NO	PICTURE NAME/S:
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy	
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow	
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None	
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other	
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 20'

Sample Depth: 10'

PHYSICAL PARAMETERS	SAC	SR
Water Temp (Celsius):	18.70	18.69
Air Temp (°F):	60s	
*pH>8.5 or <6.5 pH:	6.93	7.52
*DO<7.0 DO (mg/L):	8.96	8.69

SAMPLE COLLECTION	
Sample Depth (circle one):	0.1 m (subsurface grab) -88 (integrated)
STARTING BANK:	LB / RB / NA
OCCUPATION METHOD:	Walk-in, Bridge, Other: _____
SAMPLING EQUIPMENT:	Indiv bottle by hand, By pole, Other: Kemmerer
SAMPLE LOCATION:	Bank, Thalweg, Midchannel, Open Water - Dock
HYDRO-MODIFICATION:	None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____
HYDROMODLOC:	US / DS / NA

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				
					Staff Gauge: 4.5'

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: 5/3/2016
StationID & Name : SSB	FIRST SAMPLE TIME: 0855
Project ID: 20154800.002A-01 — Arrival Time: 0845 — Departure Time: 0915	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS	
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other	WADEABLE: YES / NO — PICTURE NAME/S:
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs	

Comments:

Water Column Thickness: 5' Sample Depth: 2.5'

PHYSICAL PARAMETERS	SAC	SR	SAMPLE COLLECTION	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Water Temp (Celsius):	20.68	20.66	STARTING BANK:	LB / RB / NA
Air Temp (°F):	60.5		OCCUPATION METHOD:	Walk-in, Bridge, Other: _____
*pH>8.5 or <6.5 pH:	7.60	7.40	SAMPLING EQUIPMENT:	Indiv bottle by hand, By pole, Other: Kemmerer
*DO<7.0 DO (mg/L):	4.98	4.58	SAMPLE LOCATION:	Bank, Thalweg, Midchannel, Open Water
			HYDRO-MODIFICATION:	None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____
			HYDROMODLOC:	US / DS / NA

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: 5/3/2016
StationID & Name : BS1	FIRST SAMPLE TIME: 1015
Project ID: 20154800.002A-01 — Arrival Time: 0955 — Departure Time: 1035	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS		WADEABLE: YES / NO	PICTURE NAME/S:
DOMINANT SUBSTRATE:	Concrete, Cobble, Gravel, Sand, Mud, Unk., Other		
SITE ODOR:	None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE:	clear, partly cloudy, overcast, fog, hazy
OTHER PRESENCE:	Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION:	None, Foggy, Drizzle, Rain, Snow
WATER ODOR:	None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs):	Unknown, <1", >1", None
WATER CLARITY:	Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR:	colorless, green, yellow, brown, other
OBSERVED FLOW:	NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 9'

Sample Depth: 4.5'

PHYSICAL PARAMETERS	SAC	SR	SAMPLE COLLECTION	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Water Temp (Celsius):	21.55	21.51	STARTING BANK:	LB / RB / NA
Air Temp (°F):	70		OCCUPATION METHOD:	Walk-in, Bridge, Other: _____
*pH>8.5 or <6.5 pH:	7.52	7.41	SAMPLING EQUIPMENT:	Indiv bottle by hand, By pole, Other: Kemmerer
*DO<7.0 DO (mg/L):	*6.92	4.83	SAMPLE LOCATION:	Bank, Thalweg, Midchannel, Open Water
			HYDRO-MODIFICATION:	None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____
			HYDROMODLOC:	US / DS / NA

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

* won't stabilize

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: 5/3/2016
StationID & Name : CBD5	FIRST SAMPLE TIME: 1150
Project ID: 20154800.002A-01 — Arrival Time: 1120 — Departure Time: 1210	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS	WADEABLE: YES / NO	PICTURE NAME/S:
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk, Other		
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy	
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow	
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None	
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other	
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 5'

Sample Depth: 2.5'

PHYSICAL PARAMETERS	SAC	SR
Water Temp (Celsius):	21.22	21.20
Air Temp (°F):	70	
*pH>8.5 or <6.5 pH:	7.66	7.86
*DO<7.0 DO (mg/L):	8.52	7.72*

SAMPLE COLLECTION — Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)

STARTING BANK: LB / RB / NA

OCCUPATION METHOD: Walk-in, Bridge, Other: _____

SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: Kemmerer

SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water

HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____

HYDROMODLOC: US / DS / NA

CALCULATED SITE DISCHARGE (cfs):	Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet	Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
					Duplicate Sample @ this Site.
	See Attached Chain of Custodies				
					*Recalibrated both SAC + SR meters due to DO readings at previous sites.

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: 5/3/2016
StationID & Name : **CBD1**	FIRST SAMPLE TIME: 1320
Project ID: **20154800.002A-01** Arrival Time: 1300 Departure Time: 1350	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: Accuracy (ft / m):

OBSERVATIONS		
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other	WADEABLE: YES / NO	PICTURE NAME/S:
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy	
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow	
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None	
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other	
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 10' Sample Depth: 5'

PHYSICAL PARAMETERS	SAC	SR	SAMPLE COLLECTION
Water Temp (Celsius):	20.82	21.25	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):	80		STARTING BANK: LB / RB / NA
*pH>8.5 or <6.5 pH:	7.56	8.25	OCCUPATION METHOD: Walk-in, Bridge, Other: _____
*DO<7.0 DO (mg/L):	10.01	10.67	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: Kemmerer
			SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water
			HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____
			HYDROMODLOC: US / DS / NA

CALCULATED SITE DISCHARGE (cfs):	Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet	Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

KLEINFELDER
INSTRUMENT CALIBRATION LOG

Sampler Name/No.: Mark L. / Mehdi G.

Date: 5/3/2016

Project No.: 20154800.002A-01

Job Name: RPP 2016

Calibration Start Time: 0620

pH Meter: YSI-SAC								EC Meter: YSI-SAC	
	Time	Temp. via Thermometer	Temp. via YSI Meter	pH7	mVpH (pH 7)	pH10	mVpH (pH10)		1413 umho
Reading (initial)	0635	22.5	22.82	7.05	-3.0	9.96	-176.2	Reading (initial)	1414
Calibration (initial)		22.0		7.00	-3.1	10.00	-176.3	Calibration (initial)	1413
Reading (intermediate)	1125		23.63	7.27	-15.9	9.98	-190.9	Reading (intermediate)	1402
Calibration (intermediate)			23.66	7.00	-15.9	10.00	-191.1	Calibration (intermediate)	1413
Reading (end of day)	1335		26.07	7.08	-20.5	10.02	-193.9	Reading (end of day)	1421

Comments:

Turbidity Meter (make/number): _____

	___NTU	___NTU	___NTU	Battery Check
Reading (Initial)				
Calibration				

D.O. Meter: YSI-SAC

Barometric Pressure: 756.4 mmHg

	mg/L	%
Reading (initial):	10.34	107.0
Reading (adj.):	9.64	99.7
Intermediate Reading (initial):	9.81	123.4

KLEINFELDER
INSTRUMENT CALIBRATION LOG

Sampler Name/No.: Mark L. / Mehdi G.

Date: 5/3/2016

Project No.: 20154800.002A-01

Job Name: RPP 2016

Calibration Start Time: 0620

pH Meter: YSI-SR								EC Meter: YSI-SR	
	Time	Temp. via Thermometer	Temp. via YSI Meter	pH7	mVpH (pH 7)	pH10	mVpH (pH10)		1413 umho
Reading (initial)	0635	22.5	22.90	7.49	-28.8	9.84	-195.1	Reading (initial)	1422
Calibration (initial)		22.0	22.69	7.00	-28.8	10.00	-195.5	Calibration (initial)	1413
Reading (intermediate)	1125		23.98	7.50	-29.1	9.87	-197.8	Reading (intermediate)	1410
Calibration (intermediate)			23.97	7.00	-29.2	10.00	-198.1	Calibration (intermediate)	1413
Reading (end of day)	1335		26.10	7.00	-29.1	9.97	-197.6	Reading (end of day)	1420

Comments:

Turbidity Meter (make/number): _____

	____NTU	____NTU	____NTU	Battery Check
Reading (Initial)				
Calibration				

D.O. Meter: YSI-SR

Barometric Pressure: 757.2 mmHg

	mg/L	%
Reading (initial):	9.16	94.7
Reading (adj.):	9.65	99.7
Intermediate Reading (initial):	7.87	95.8

DIRECTIONS TO RPP SITES
(SR1-SSB-BS1-CBD5-CBD1) Do not use these if doing the Coon Creek site or Rice-WDR project.

To SR1:
I-5 north, off at Garden Hwy. Go west on Garden Hwy and enter parking structure underground.
NEXT
Go to SSB
Get back on I-5 north, head towards Woodland. Get off at Road 102, turn right and head north. Drive thru Knights Landing, go over bridge and take the first road and turn right. Curve around the Silos and turn right at the first street (Ensley Rd ?). Take this road to Reclamation Road and turn right onto reclamation Rd. Go up on levee and turn left. Don't park on the bridge.
NEXT
Go to BS1
Get back on Reclamation Road and stay going north. Recall that this road ends, and you will need to turn left, then right, then left again to get back on this same road. This road goes on for many miles. It curves a couple times and does change names (though I don't know the name of the road it becomes). Follow this road till you come to a right side T-intersection (I think it's either Tarke Rd. or South Tarke Rd.) Stay on this till it T's into Hwy 20. Turn left onto Hwy 20. Stay on 20 till you get to the town of "Meridian" and turn right onto 4th Street. This curves a couple times and dead ends at Pass Rd. Turn right on Pass Rd and go to the site.
NEXT
Go to CBD5
Go back the way you came and get back on Hwy 20 (a right turn) and go over the bridge. Stay on Hwy 20 into the town of Colusa. Either refill gas/ice/gatorade at the Chevron Station (a right turn) or turn left at the signal (don't know the street name). Take this street till it dead-ends (which happens to be at Hwy 20 again), and turn left back onto Hwy 20. Take Hwy 20 to the Colusa Wildlife Refuge (recall the brown sign on the right-hand side of the road), and turn left onto the gravel / dirt road. Drive slow thru this site.
NEXT
Go to CBD1
Exit CBD5 by turning left back onto Hwy 20. Take Hwy 20 to I-5 and go south on I-5. NOTE: Watch out for CHP on Hwy20.
Take I-5 south and exit at Zamora. Turn left from the Zamora exit and go over the freeway. Stay on this road till it 'T"s at the weird intersection, and turn left onto (I think it's) County Road 99E.
Take Road 99E north until it dead-ends. Turn left and park on the south shoulder.
Return to office and either ship samples to Valent , or store them in the Rice Fridge.
The Rice fridge is on the right and labeled #3. Put the back-up samples in this fridge, and update the COC in the pouch on the door.
Thanks for your help!!!!!!!!!!

KLEINFELDER
Bright People. Right Solutions.

COC# 827879

Project No.	Project Name
20154800.002A Task 01	RPP- W2D1

L.P. No. (PO No.)

Samplers: (Signature/Number)
Mark Lee / 01556

Receiving Lab:
North Coast Laboratories
5680 West End Rd., Arcata CA 95521
Attn: Roxanne Moore (707) 822-4649

Instructions/Remarks

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb
1	05/03/16	0750	SR1-NCL-2-1	W	1	500 mL	X
2	05/03/16	0855	SSB-NCL-2-1	W	1	500 mL	X
3	05/03/16	1015	BS1-NCL-2-1	W	1	500 mL	X
4	05/03/16	1150	CBD5-NCL-2-1	W	1	500 mL	X
5	05/03/16	1320	CBD1-NCL-2-1	W	1	500 mL	X
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Mark L

Relinquished By:	Date/Time	Received By:
Mark L	5/3/16 1630	Fed Ex
Relinquished By:	Date/Time	Received By:
Relinquished By:	Date/Time	Received By:

Instructions/Remarks
Standard TAT

Send Results To:
rfiroved@calrice.org
jenny.krenz@CH2M.com
criddle@kleinfelder.com

20 L
14 W
13 H

26 lbs

CHAIN OF CUSTODY

KLEINFELDER
Bright People. Right Solutions.

COC# 206671

Project No.	Project Name
20154800.002A Task 01	RPP- W2D1

L.P. No. (PO No.)

Samplers: (Signature/Number)
Mark Lee / 01556

Receiving Lab:
CLS Labs
3249 Fitzgerald Road
Rancho Cordova, CA 95742
Attn: Scott Furnas
916-638-7301

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb (EPA 507)	Instructions/Remarks
1	05/03/16	1150	CBD5-CL-2-1	W	1	1-L Amber	X	QC Sample
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

Relinquished By:	Date/Time	Received By:
Mark Lee	5/3/16 1445	Sample Control #2
SC#2	5/4/16 1730	
	5/4/16 1800	W. Ortana 5/4/16 0800 3°C

Instructions/Remarks
Standard TAT

Send Results To:
criddle@kleinfelder.com
sgardner@kleinfelder.com
rcohen@kleinfelder.com

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: 5/10/2016
StationID & Name : SR1	FIRST SAMPLE TIME: 0820
Project ID: 20154800.002A-01 — Arrival Time: 08:02 — Departure Time: 08:35	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS	WADEABLE: YES / NO	PICTURE NAME/S:
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk, Other		
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy	
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow	
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None	
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other	
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 21.5 — Sample Depth: 10.75 ≈ 11

PHYSICAL PARAMETERS	SAC	SR	SAMPLE COLLECTION	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Water Temp (Celsius):	18.48	18.45	STARTING BANK:	LB / RB / NA
Air Temp (°F):	65		OCCUPATION METHOD:	Walk-in, Bridge, Other: Dock
*pH>8.5 or <6.5 pH:	7.22	7.44	SAMPLING EQUIPMENT:	Indiv bottle by hand, By pole, Other: Kemmerer
*DO<7.0 DO (mg/L):	8.56	8.72	SAMPLE LOCATION:	Bank, Thalweg, Midchannel, Open Water Dock
			HYDRO-MODIFICATION:	None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____
			HYDROMODLOC:	US / DS / NA

CALCULATED SITE DISCHARGE (cfs):	Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet	Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				
					Staff Gauge: ~~7.5~~ 5.5

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: **5/10/2016**
StationID & Name : **CBD5**	FIRST SAMPLE TIME: 12:15
Project ID: **20154800.002A-01** — Arrival Time: 12:00 — Departure Time:	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS		
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk, Other	WADEABLE: YES / NO	PICTURE NAME/S:
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy	
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow	
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None	
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other	
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 15 **Sample Depth:** 7.5

PHYSICAL PARAMETERS	SAC	SR	SAMPLE COLLECTION	
Water Temp (Celsius):	21.55	21.53	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)	
Air Temp (°F):	75		STARTING BANK: LB / RB / NA	
*pH>8.5 or <6.5 pH:	7.57	7.77	OCCUPATION METHOD: Walk-in, Bridge, Other:	
*DO<7.0 DO (mg/L):	7.75	7.76	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: Kemmerer	
			SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water	
			HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other:	
			HYDROMODLOC: US / DS / NA	

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: 5/10/2016
StationID & Name : **CBD1**	FIRST SAMPLE TIME: 1430
Project ID: **20154800.002A-01** Arrival Time: 1410 Departure Time: 1620	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: Accuracy (ft / m):

OBSERVATIONS		
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other	WADEABLE: YES / NO	PICTURE NAME/S:
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: Clear, partly cloudy, overcast, fog, hazy	
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow	
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None	
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other	
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 11 **Sample Depth:** 5.5

PHYSICAL PARAMETERS	SAC	SR	SAMPLE COLLECTION	
			Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)	
Water Temp (Celsius):	21.57	21.33	STARTING BANK: LB / RB / NA	
Air Temp (°F):	80		OCCUPATION METHOD: Walk-in, Bridge, Other:	
*pH>8.5 or <6.5 pH:	7.09	7.51	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: Kemmerer	
*DO<7.0 DO (mg/L):	6.62	6.60	SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water	
			HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other:	
			HYDROMODLOC: US / DS / NA	

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: 5/11/2016
StationID & Name : BS1	FIRST SAMPLE TIME: 1110
Project ID: 20154800.002A-01 — Arrival Time: 1055 — Departure Time: 1200	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS		
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other	WADEABLE: YES / NO	PICTURE NAME/S:
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy	
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow	
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None	
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other	
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 8 — Sample Depth: 4

PHYSICAL PARAMETERS	SAC	SR
Water Temp (Celsius):	21.65	21.51
Air Temp (°F):	70	
*pH>8.5 or <6.5 pH:	6.78	7.46
*DO<7.0 DO (mg/L):	6.46	6.25

SAMPLE COLLECTION	
Sample Depth (circle one):	0.1 m (subsurface grab) -88 (integrated)
STARTING BANK:	LB / RB / NA
OCCUPATION METHOD:	Walk-in, Bridge, Other: _____
SAMPLING EQUIPMENT:	Indiv bottle by hand, By pole, Other: Kemmerer
SAMPLE LOCATION:	Bank, Thalweg, Midchannel, Open Water
HYDRO-MODIFICATION:	None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____
HYDROMODLOC:	US / DS / NA

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: 5/11/2016
StationID & Name : **SSB**	FIRST SAMPLE TIME: 1410
Project ID: **20154800.002A-01** Arrival Time: 1355 Departure Time: 1510	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: Accuracy (ft / m):

OBSERVATIONS		
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other	WADEABLE: YES / NO	PICTURE NAME/S:
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy	
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow	
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None	
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other	
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 6'

Sample Depth: 3'

PHYSICAL PARAMETERS	SAC	SR
Water Temp (Celsius):	22.32	22.31
Air Temp (°F):	80	
*pH>8.5 or <6.5 pH:	6.82	7.36
*DO<7.0 DO (mg/L):	5.99	5.96

SAMPLE COLLECTION	
Sample Depth (circle one): 0.1 m / subsurface grab / -88 (integrated)	
STARTING BANK: LB / RB / NA	
OCCUPATION METHOD: Walk-in / Bridge / Other:	
SAMPLING EQUIPMENT: Indiv bottle by hand / By pole / Other: Kemmerer	
SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water	
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other:	
HYDROMODLOC: US / DS / NA	

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

KLEINFELDER
INSTRUMENT CALIBRATION LOG

Sampler Name/No.: Mark Lee

Date: 5/10/2016

Project No.: 20154800.002A-01/02

Job Name: RPP/Rice WDR 2016

Calibration Start Time: 0610

pH Meter: YSI-SAC								EC Meter: YSI-SAC	
	Time	Temp. via Thermometer	Temp. via YSI Meter	pH7	mVpH (pH 7)	pH10	mVpH (pH10)		1413 umho
Reading (initial)	0625	21.0	21.03	7.12	-7.1	9.95	-178.5	Reading (initial)	1415
Calibration (initial)	0705	20.0	20.39	7.00	-7.1	10.00	-178.3	Calibration (initial)	1413
Reading (intermediate)								Reading (intermediate)	
Calibration (intermediate)								Calibration (intermediate)	
Reading (end of day)	1755		29.48	7.10	-13.1	9.97	-182.0	Reading (end of day)	1412

Comments:

Turbidity Meter (make/number): _____

	___NTU	___NTU	___NTU	Battery Check	
Reading (Initial)					
Calibration					

D.O. Meter: YSI-SAC

Barometric Pressure: 756.2 mmHg

	mg/L	%
Reading (initial):	10.23	104.9
Reading (adj.):	9.72	99.6
Intermediate Reading (initial):		
Intermediate Reading (adj.):		

KLEINFELDER
INSTRUMENT CALIBRATION LOG

Sampler Name/No.: Mark Lee

Date: 5/10/2016

Project No.: 20154800.002A-01/02

Job Name: RPP/Rice WDR 2016

Calibration Start Time: 0610

pH Meter: YSI-SR								EC Meter: YSI-SR	
	Time	Temp. via Thermometer	Temp. via YSI Meter	pH7	mVpH (pH 7)	pH10	mVpH (pH10)		1413 umho
Reading (initial)	0625	21.0	21.75	7.52	-30.0	9.88	-197.6	Reading (initial)	1421
Calibration (initial)	0705	20.0	19.05	7.00	-30.0	10.00	-197.7	Calibration (initial)	1413
Reading (intermediate)								Reading (intermediate)	
Calibration (intermediate)								Calibration (intermediate)	
Reading (end of day)	1755		29.72	6.93	-25.7	9.87	-195.5	Reading (end of day)	1408

Comments:

Turbidity Meter (make/number): HF Scientific

	1000 NTU	10.0 NTU	0.02 NTU	Battery Check
Reading (Initial)	1006	10.6	0.01	
Calibration	1000	10.0	0.02	

D.O. Meter: YSI-SR

Barometric Pressure: 757.1 mmHg

	mg/L	%
Reading (initial):	9.27	94.2
Reading (adj.):	9.81	99.7
Intermediate Reading (initial):		
Intermediate Reading (adj.):		

KLEINFELDER
INSTRUMENT CALIBRATION LOG

Sampler Name/No.: Mark Lee

Date: 5/11/2016

Project No.: 20154800.002A-01/02

Job Name: RPP/Rice WDR 2016

Calibration Start Time: 0610

pH Meter: YSI-SAC								EC Meter: YSI-SAC	
	Time	Temp. via Thermometer	Temp. via YSI Meter	pH7	mVpH (pH 7)	pH10	mVpH (pH10)		1413 umho
Reading (initial)	0625	21.5	21.85	7.21	-12.6	10.02	-189.3	Reading (initial)	1414
Calibration (initial)	0715	21.5	22.15	7.00	-12.8	10.00	-189.4	Calibration (initial)	1413
Reading (intermediate)								Reading (intermediate)	
Calibration (intermediate)								Calibration (intermediate)	
Reading (end of day)	1450		27.62	7.16	-21.9	10.02	-193.7	Reading (end of day)	1406

Comments:

Turbidity Meter (make/number): _____

	____NTU	____NTU	____NTU	Battery Check
Reading (Initial)				
Calibration				

D.O. Meter: YSI-SAC

Barometric Pressure: 756.9 mmHg

	mg/L	%
Reading (initial):	10.19	107.4
Reading (adj.):	9.45	99.6
Intermediate Reading (initial):		
Intermediate Reading (adj.):		

KLEINFELDER
INSTRUMENT CALIBRATION LOG

Sampler Name/No.: Mark Lee

Date: 5/11/2016

Project No.: 20154800.002A-01/02

Job Name: RPP/Rice WDR 2016

Calibration Start Time: 0610

pH Meter: YSI-SR								EC Meter: YSI-SR	
	Time	Temp. via Thermometer	Temp. via YSI Meter	pH7	mVpH (pH 7)	pH10	mVpH (pH10)		1413 umho
Reading (initial)	0625	22.0	22.02	7.55	-32.2	9.85	-200.6	Reading (initial)	1422
Calibration (initial)	0715	22.0	22.07	7.00	-32.1	10.00	-200.8	Calibration (initial)	1413
Reading (intermediate)								Reading (intermediate)	
Calibration (intermediate)								Calibration (intermediate)	
Reading (end of day)	1450		27.98	6.93	-27.9	9.95	-195.7	Reading (end of day)	1400

Comments:

Turbidity Meter (make/number): HH Scientific

	1000 NTU	10.0 NTU	0.02 NTU	Battery Check
Reading (Initial)	999.1	10.02	0.05	
Calibration	1000	10.00	0.02	

D.O. Meter: YSI-SR

Barometric Pressure: 758.0 mmHg

	mg/L	%
Reading (initial):	8.89	93.6
Reading (adj.):	9.49	99.8
Intermediate Reading (initial):		
Intermediate Reading (adj.):		

KLEINFELDER
Bright People. Right Solutions.

COC# 713653

Project No.	Project Name
20154800.002A Task 01	RPP- W3D1

L.P. No. (PO No.):

Samplers: (Signature/Number): Mark Lee / 01556

Receiving Lab:
North Coast Laboratories
5680 West End Rd., Arcata CA 95521
Attn: Roxanne Moore (707) 822-4649

Instructions/Remarks:

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb
1	05/10/16	0820	SR1-NCL-3-1	W	1	500 mL	X
2	05/10/16	1215	CBD5-NCL-3-1	W	1	500 mL	X
3	05/10/16	1430	CBD1-NCL-3-1	W	1	500 mL	X
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Relinquished By:	Date/Time	Received By:
Mark Lee	5-10-16 / 1750	KLF Sample Control #2
KLF Sample Control, Mark Lee	5-12-16 / 1630	Fed Ex

Instructions/Remarks
Standard TAT

Send Results To:
rfiroved@calrice.org
jenny.krenz@CH2M.com
criddle@kleinfelder.com

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COC# 713653

Project No.	Project Name
20154800.002A Task 01	RPP- W3D1

L.P. No. (PO No.)

Samplers: (Signature/Number)

Receiving Lab:
North Coast Laboratories
5680 West End Rd., Arcata CA 95521
Attn: Roxanne Moore (707) 822-4649

Instructions/Remarks

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb
1	05/11/16	1110	BS1-NCL-3-1	W	1	500 mL	X
2	05/11/16	1410	SSB-NCL-3-1	W	1	500 mL	X
3	05/11/16	0700	CRC1-NCL-3-1	W	1	500 mL	X
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Relinquished By:	Date/Time	Received By:
Mark Ku	5-11-16 | 1700	KLF Sample Control #2
Relinquished By: KLF Sample Control, Mark Ku	5-12-16 | 1630	Received By: Fed Ex
Relinquished By:	Date/Time	Received By:

Instructions/Remarks
Standard TAT

Send Results To:
rfiroved@calrice.org
jenny.krenz@CH2M.com
criddle@kleinfelder.com

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COC# 926561

Project No.	Project Name
20154800.002A Task 01	RPP- W3D1

L.P. No. (PO No.):

Samplers: (Signature/Number): Mark Lee / 01556

Receiving Lab:
CLS Labs
3249 Fitzgerald Road
Rancho Cordova, CA 95742
Attn: Scott Furnas
916-638-7301

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb (EPA 507)	Instructions/Remarks
1	05/11/16	0700	CRC1-CL-3-1	W	1	1-L Amber	X	QC Sample
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

Relinquished By:	Date/Time	Received By:
Mark Lee	5-11-16 1700	KLF Sample Control #2
KLF Sample Control #2	5-12-16 0950	Mark Lee
Mark Lee	5-12-16 1025	5/12/16 1025

Instructions/Remarks
Standard TAT

Send Results To:
criddle@kleinfelder.com
sgardner@kleinfelder.com
rcohen@kleinfelder.com

2.4

CHAIN-OF-CUSTODY

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: **5/17/2016**
StationID & Name : **SR1**	FIRST SAMPLE TIME: 08:05
Project ID: **20154800.002A-01** Arrival Time: 07:50 Departure Time: 8:15	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: Accuracy (ft / m):

OBSERVATIONS	WADEABLE: YES / NO	PICTURE NAME/S:
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk, Other		
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy	
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow	
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None	
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other	
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 20 **Sample Depth:** 10'

PHYSICAL PARAMETERS	SAC	SR	SAMPLE COLLECTION
Water Temp (Celsius):	20.45	20.42	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):	65		STARTING BANK: LB / RB / NA
*pH>8.5 or <6.5 pH:	6.98	7.36	OCCUPATION METHOD: Walk-in, Bridge, Other: dock
*DO<7.0 DO (mg/L):	9.06	8.90	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: kemmerer
			SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water dock
			HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____
			HYDROMODLOC: US / DS / NA

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				
					Staff Gauge: _____

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: **5/17/2016**
StationID & Name : **SSB**	FIRST SAMPLE TIME: 09:00
Project ID: **20154800.002A-01** Arrival Time: 08:50 Departure Time: 09:5	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: Accuracy (ft / m):

OBSERVATIONS		
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk, Other	WADEABLE: YES / NO	PICTURE NAME/S:
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy	
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow	
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None	
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other	
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 5'

Sample Depth: 2.5

PHYSICAL PARAMETERS	SAC	SR
Water Temp (Celsius):	X	22.16
Air Temp (°F):	70	
*pH>8.5 or <6.5 pH:		7.38
*DO<7.0 DO (mg/L):		4.38

SAMPLE COLLECTION	
Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)	
STARTING BANK: LB / RB / NA	
OCCUPATION METHOD: Walk-in, Bridge, Other: _____	
SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: kemmerer	
SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water	
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____	
HYDROMODLOC: US / DS / NA	

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				
		X Battery died. will purchase batteries before next sample site.			

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: **5/17/2016**
StationID & Name : **BS1**	FIRST SAMPLE TIME: 10:35
Project ID: **20154800.002A-01** Arrival Time: 10:45 Departure Time: 10:55	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: Accuracy (ft / m):

OBSERVATIONS	WADEABLE: YES / NO	PICTURE NAME/S:
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other		
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy	
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow	
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None	
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other	
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 9' **Sample Depth:** 4.5

PHYSICAL PARAMETERS	SAC	SR	SAMPLE COLLECTION	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Water Temp (Celsius):	22.71	22.60	STARTING BANK:	LB / RB / NA
Air Temp (°F):	70		OCCUPATION METHOD:	Walk-in, Bridge, Other: _____
*pH>8.5 or <6.5 pH:	7.35	7.45	SAMPLING EQUIPMENT:	Indiv bottle by hand, By pole, Other: kemmerer
*DO<7.0 DO (mg/L):	4.74	4.60	SAMPLE LOCATION:	Bank, Thalweg, Midchannel, Open Water
			HYDRO-MODIFICATION:	None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____
			HYDROMODLOC:	US / DS / NA

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				DUPLICATE SAMPLE AT THIS SITE

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: **5/17/2016**
StationID & Name : **CBD5**	FIRST SAMPLE TIME: 1120
Project ID: **20154800.002A-01** — Arrival Time: 1110 — Departure Time: 1140	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS		
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other	**WADEABLE: YES / NO**	**PICTURE NAME/S:**
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy	
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow	
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None	
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other	
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 9 **Sample Depth:** 4.5

PHYSICAL PARAMETERS	SAC	SR	SAMPLE COLLECTION	
				Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Water Temp (Celsius):	21.72	21.68	STARTING BANK:	LB / RB / NA
Air Temp (°F):	75		OCCUPATION METHOD:	Walk-in, Bridge, Other:
*pH>8.5 or <6.5 pH:	7.61	7.87	SAMPLING EQUIPMENT:	Indiv bottle by hand, By pole, Other: Kemmerer
*DO<7.0 DO (mg/L):	8.15	8.21	SAMPLE LOCATION:	Bank, Thalweg, Midchannel, Open Water
			HYDRO-MODIFICATION:	None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other:
			HYDROMODLOC:	US / DS / NA

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: **5/17/2016**
StationID & Name : **CBD1**	FIRST SAMPLE TIME: 1250
Project ID: **20154800.002A-01** — Arrival Time: 1235 — Departure Time: 1315	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS		
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other	WADEABLE: YES / NO	PICTURE NAME/S:
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy	
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow	
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None	
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other	
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 12 **Sample Depth:** 6

PHYSICAL PARAMETERS	SAC	SR
Water Temp (Celsius):	23.06	23.02
Air Temp (°F):	80°	
*pH>8.5 or <6.5 pH:	7.81	8.03
*DO<7.0 DO (mg/L):	7.29	7.23

SAMPLE COLLECTION	
Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)	
STARTING BANK: LB / RB / NA	
OCCUPATION METHOD: Walk-in, Bridge, Other: _____	
SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: Kemmerer	
SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water	
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____	
HYDROMODLOC: US / DS / NA	

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

KLEINFELDER
INSTRUMENT CALIBRATION LOG

Sampler Name/No.: Mark Lee

Date: 5/17/2016

Project No.: 20154800.002A-01/02

Job Name: RPP 2016

Calibration Start Time: 0610

pH Meter: YSI-SAC								EC Meter: YSI-SAC	
	Time	Temp. via Thermometer	Temp. via YSI Meter	pH7	mVpH (pH 7)	pH10	mVpH (pH10)		1413 umho
Reading (initial)	0625	24.0	24.33	7.18	-10.4	9.93	-182.2	Reading (initial)	1408
Calibration (initial)	0710	23.5	23.40	7.00	-10.4	10.00	-182.2	Calibration (initial)	1413
Reading (intermediate)								Reading (intermediate)	
Calibration (intermediate)								Calibration (intermediate)	
Reading (end of day)	1410		30.52	7.17	-20.1	10.02	-186.4	Reading (end of day)	1411

Comments:

Turbidity Meter (make/number): _____

	___NTU	___NTU	___NTU	Battery Check	
Reading (Initial)					
Calibration					

D.O. Meter: YSI-SAC

Barometric Pressure: 755.8 mmHg

	mg/L	%
Reading (initial):	9.45	104.7
Reading (adj.):	8.97	99.5
Intermediate Reading (initial):		
Intermediate Reading (adj.):		

KLEINFELDER
INSTRUMENT CALIBRATION LOG

Sampler Name/No.: Mark Lee

Date: 5/17/2016

Project No.: 20154800.002A-01/02

Job Name: RPP 2016

Calibration Start Time: 0610

pH Meter: YSI-SR								EC Meter: YSI-SR	
	Time	Temp. via Thermometer	Temp. via YSI Meter	pH7	mVpH (pH 7)	pH10	mVpH (pH10)		1413 umho
Reading (initial)	0625	24.0	24.25	7.52	-30.6	9.90	-200.9	Reading (initial)	1416
Calibration (initial)	0710	23.5		7.00	-30.5	10.00	-200.8	Calibration (initial)	1413
Reading (intermediate)								Reading (intermediate)	
Calibration (intermediate)								Calibration (intermediate)	
Reading (end of day)	1410		29.39	6.94	-27.3	9.91	-198.3	Reading (end of day)	1412

Comments:

Turbidity Meter (make/number): _____

	____NTU	____NTU	____NTU	Battery Check
Reading (Initial)				
Calibration				

D.O. Meter: YSI-SR

Barometric Pressure: 756.2 mmHg

	mg/L	%
Reading (initial):	8.18	91.0
Reading (adj.):	8.96	99.5
Intermediate Reading (initial):		
Intermediate Reading (adj.):		

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COC# 971795

Project No.	Project Name
20154800.002A Task 01	RPP- W4D1

L.P. No. (PO No.)

Samplers: (Signature/Number)
Mark Lee / 01556

Receiving Lab:
CLS Labs
3249 Fitzgerald Road
Rancho Cordova, CA 95742
Attn: Scott Furnas
916-638-7301

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb (EPA 507)	Instructions/Remarks
1	05/17/16	1035	BS1-CL-4-1	W	1	1-L Amber	X	QC Sample
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

Relinquished By:	Date/Time	Received By:
Relinquished By:	Date/Time	Received By:
Relinquished By: Mark Lee	5-17-16 / 1550	Received By: 5/17/16 1550 (6.7)

Instructions/Remarks
Standard TAT

Send Results To:
criddle@kleinfelder.com
sgardner@kleinfelder.com
rcohen@kleinfelder.com

CHAIN-OF-CUSTODY

KLEINFELDER
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COC# 161831

Page 1 of 1

Project No.	Project Name
20154800.002A Task 01	RPP- W4D1

L.P. No. (PO No.)

Samplers: (Signature/Number)
Mark Lee / 01556

Receiving Lab:
North Coast Laboratories
5680 West End Rd., Arcata CA 95521
Attn: Roxanne Moore (707) 822-4649

Instructions/Remarks

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb											Instructions/Remarks
1	05/17/16	0805	SR1-NCL-4-1	W	1	500 mL Amber	X											
2	05/17/16	0900	SSB-NCL-4-1	W	1	500 mL Amber	X											
3	05/17/16	1035	BS1-NCL-4-1	W	1	500 mL Amber	X											
4	05/17/16	1120	CBD5-NCL-4-1	W	1	500 mL Amber	X											
5	05/17/16	1250	CBD1-NCL-4-1	W	1	500 mL Amber	X											
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		

Relinquished By:	Date/Time	Received By:
Mark Lee	5-17-16 1430	KLF Sample Control #2
Sample Control	5/19/16 1330	Fed Ex

Instructions/Remarks
Standard TAT

Send Results To:
rfiroved@calrice.org
jenny.krenz@CH2M.com
criddle@kleinfelder.com

ENV-02

CHAIN-OF-CUSTODY

KLEINFELDER
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Environmental Field Daily Report

Report # : _____

Page 1 of 1

Project Name : 20154800.002A Rice		Date : 5/19/16	Time Arrived :
Project Manager : S. Gardner	Site Location :		Time Departed :
Project / Task # : 0154800.002A	Personnel : Sony L / Mehdi		Mileage :
			Mileage :

Weather Conditions : Sunny Wind from : at mph Temperature : °F

Subcontractor: (Name/Firm)		Time Arrived :	Time Departed :
		Time Arrived :	Time Departed :
Site Visitors :		Time Arrived :	Time Departed :
		Time Arrived :	Time Departed :
Equipment:			

Primary Assignments : Surface water sampling and Emergency Request by Roberta.

Field Notes : 0500 Arrived to KLF. 0530 Calibrate ysi meter. 0555 Depart to SR1. 0610 Arrived to SR1. Recalibrate ysi meter due to differences in ph reading. 0725 Arrived to Walt's residence. Met w/ Walt and recorded parameter readings at two rice patty (FP1 and FP2). Collected reading at Inlet & outlet ~~for~~ both patty. 0845 Arrived to SSD. Collected sample & parameters. 0915 Arrived to SBD1 and collected sample & parameters. 1020 Arrived to BS1. Collected sample and parameter. 1110 Arrived to CBDS. Collected sample and parameters. 1300 End of day reading for ysi meter. 1330 packed samples and prep package for shipp

Attachments :	Logbook ? Y N	Book # :	Pages :	Proj. Task Form ? Y N
Chain of Custody? Y N	COC#s 444516			Site Safety Plan ? Y N
Field Data Sheets? Y N	Total FDSs:			Sample Control Log ? Y N
Utility Clearance	Ticket #:	Marks Observed? Y N	Comments :	
Other attachments:				

NV 06 REV 05/08

Signature : _____

KLEINFELDER
INSTRUMENT CALIBRATION LOG

Sampler Name/No.: ~~Mark Lee~~ Seng Lo / medhi

Date: 5/19/2016

Project No.: 20154800.002A-01/02

Job Name: RPP 2016

Calibration Start Time: 0510

pH Meter: YSI-SR								EC Meter: YSI-SR	
	Time	Temp. via Thermometer	Temp. via YSI Meter	pH7	mVpH (pH 7)	pH10	mVpH (pH10)		1413 umho
Reading (initial)	0530	26	26.15	7.52	-30.7	9.83	-198.4	Reading (initial)	1420
Calibration (initial)	0545	26	26.00	7.00	-30.6	10.00	-198.4	Calibration (initial)	1413
Reading (intermediate)	0630		23.61	7.57	-33.6	9.79	-197.0	Reading (intermediate)	1412
Calibration (intermediate)			22.38	7.00	-33.4	10.00	-197.3	Calibration (intermediate)	1413
Reading (end of day)	1300		25.80	7.00	-33.4	9.89	-191.8	Reading (end of day)	1386

Comments:

Turbidity Meter (make/number): Scientific Turbidimeter

	1000 NTU	10 NTU	0.02 NTU	Battery Check
Reading (Initial)				
Calibration	1000	10	0.02	Good

D.O. Meter: YSI-SR

Barometric Pressure: 754.2 mmHg

	mg/L	%
Reading (initial):	9.60	107.1
Reading (adj.):	8.87	99.0
Intermediate Reading (initial):		
Intermediate Reading (adj.):		

KLEINFELDER
INSTRUMENT CALIBRATION LOG

Sampler Name/No.: ~~Mark Lee~~ Seng Lo / Medhi

Date: 5/19/2016

Project No.: 20154800.002A-01/02

Job Name: RPP 2016

Calibration Start Time: 0510

pH Meter: YSI-SAC								EC Meter: YSI-SAC	
	Time	Temp. via Thermometer	Temp. via YSI Meter	pH7	mVpH (pH 7)	pH10	mVpH (pH10)		1413 umho
Reading (initial)	0530	26	26.73	7.16	-9.7	10.00	-187.4	Reading (initial)	1415
Calibration (initial)	0545	26	26.10	7.00	-10.0	10.00	-187.6	Calibration (initial)	1413
Reading (intermediate)	0630		23.55	7.07	-4.3	9.93	-175.9	Reading (intermediate)	1411
Calibration (intermediate)			22.68	7.00	-4.6	10.00	-176.6	Calibration (intermediate)	1413
Reading (end of day)	1300		25.60	7.29	-23.3	10.19	188.9	Reading (end of day)	1392

Comments:

Turbidity Meter (make/number): Scientific Turbidimeter

	1000 NTU	10 NTU	0.02 NTU	Battery Check
Reading (Initial)				
Calibration	1000	10	0.02	good

D.O. Meter: YSI-SAC

Barometric Pressure: 753.4 mmHg

		mg/L	%
	Reading (initial):	9.37	104.7
	Reading (adj.):	8.816	99.1
	Intermediate Reading (initial):		
	Intermediate Reading (adj.):		

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: 5/19/2016
StationID & Name : SR1	FIRST SAMPLE TIME: 6:20
Project ID: 20154800.002A-01 — Arrival Time: 6:10 — Departure Time: 7:00	Target Lat. & Long.:
Sampling Crew (and Agency): ~~Mark Lee /~~ Mehdi Galouei, Sergio	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS	
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk, Other	WADEABLE: YES / NO
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs	PICTURE NAME/S:

Comments:

Water Column Thickness: 19 — Sample Depth: 9.5

PHYSICAL PARAMETERS	SAC	SR
Water Temp (Celsius):	~~21.22~~ ~~21.25~~ MG	21.20 MG
Air Temp (°F):	60	
*pH>8.5 or <6.5 pH:	~~6.88~~ MG	7.13 MG
*DO<7.0 DO (mg/L):	8.25	~~8.10~~ MG
		8.05

SAMPLE COLLECTION	
Sample Depth (circle one): 0.1 m, (subsurface grab), -88 (integrated)	
STARTING BANK: LB / RB / NA	
OCCUPATION METHOD: Walk-in, Bridge, Other: dock	
SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: Kemmerer MG	
SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water dock	
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____	
HYDROMODLOC: US / DS / NA	

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				
					Staff Gauge: 5.5'

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: 5/19/2016
StationID & Name : SSB	FIRST SAMPLE TIME: 08:55
Project ID: 20154800.002A-01 — Arrival Time: 8:45 — Departure Time: 9:00	Target Lat. & Long.:
Sampling Crew (and Agency): ~~Mark Lee~~ / Mehdi Galouei	Actual Lat & Long:
Song Lo	Datum: — Accuracy (ft / m):

OBSERVATIONS		WADEABLE: YES / NO	PICTURE NAME/S:
DOMINANT SUBSTRATE:	Concrete, Cobble, Gravel, Sand, Mud, Unk, Other		
SITE ODOR:	None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE:	clear, partly cloudy, overcast, fog, hazy
OTHER PRESENCE:	Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION:	None, Foggy, Drizzle, Rain, Snow
WATER ODOR:	None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs):	Unknown, <1", >1", None
WATER CLARITY:	Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR:	colorless, green, yellow, brown, other
OBSERVED FLOW:	NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 6 Sample Depth: 3

PHYSICAL PARAMETERS	SAC	SR	SAMPLE COLLECTION	Sample Depth (circle one): 0.1 m, (subsurface grab), -88 (integrated)
Water Temp (Celsius):	23.93	23.92	STARTING BANK:	LB / RB / NA
Air Temp (°F):	70		OCCUPATION METHOD:	Walk-in, Bridge, Other: _____
*pH>8.5 or <6.5 pH:	8.01	7.40	SAMPLING EQUIPMENT:	Indiv bottle by hand, By pole, Other: kemmerer
*DO<7.0 DO (mg/L):	3.22	3.15	SAMPLE LOCATION:	Bank, Thalweg, Midchannel, Open Water
			HYDRO-MODIFICATION:	None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____
			HYDROMODLOC:	US / DS / NA

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: 5/19/2016
StationID & Name : CBD1	FIRST SAMPLE TIME: 9:25
Project ID: 20154800.002A-01 — Arrival Time: 9:15 — Departure Time: 9:35	Target Lat. & Long.:
Sampling Crew (and Agency): ~~Mark Lee /~~ Mehdi Galouei, Seng Lo	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS	
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk, Other	WADEABLE: YES / NO
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs	

PICTURE NAME/S:

Comments:

Water Column Thickness: 11 — Sample Depth: 5.5'

PHYSICAL PARAMETERS	SAC	SR
Water Temp (Celsius):	22.81	22.78
Air Temp (°F):	70	
*pH>8.5 or <6.5 pH:	8.10	7.73
*DO<7.0 DO (mg/L):	5.32	5.18

SAMPLE COLLECTION	
	Sample Depth (circle one): 0.1 m, (subsurface grab), -88 (integrated)
STARTING BANK:	LB / RB / NA
OCCUPATION METHOD:	Walk-in, Bridge, Other: _____
SAMPLING EQUIPMENT:	Indiv bottle by hand, By pole, Other: Kemmerer
SAMPLE LOCATION:	Bank, Thalweg, Midchannel, Open Water
HYDRO-MODIFICATION:	None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____
HYDROMODLOC:	US / DS / NA

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC

Date: 5/19/2016

StationID & Name : BS1

FIRST SAMPLE TIME: 10:40

Project ID: 20154800.002A-01 | Arrival Time: 10:20 | Departure Time: 10:45

Target Lat. & Long.:

Sampling Crew (and Agency): ~~Mark Lee~~ / Mehdi Galouei

Seng Lo

Actual Lat & Long:

Datum: | Accuracy (ft / m):

OBSERVATIONS	WADEABLE: YES / NO	PICTURE NAME/S:
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other		
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy	
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow	
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None	
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other	
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 7

Sample Depth: 3.5

PHYSICAL PARAMETERS	SAC	SR
Water Temp (Celsius):	24.60	24.53
Air Temp (°F):	75	
*pH>8.5 or <6.5 pH:	7.57	7.39
*DO<7.0 DO (mg/L):	3.70	3.50

SAMPLE COLLECTION	
Sample Depth (circle one):	0.1 m (subsurface grab) -88 (integrated)
STARTING BANK:	LB / RB / NA
OCCUPATION METHOD:	Walk-in, Bridge, Other:
SAMPLING EQUIPMENT:	Indiv bottle by hand, By pole, Other: Bucket
SAMPLE LOCATION:	Bank, Thalweg, Midchannel, Open Water
HYDRO-MODIFICATION:	None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other:
HYDROMODLOC:	US / DS / NA

CALCULATED SITE DISCHARGE (cfs):

Transfer Calculated Value From Discharge Worksheet

Wet Channel Width (m):

Midchannel depth (m):

Wet Channel Width (m):

Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: 5/19/2016
StationID & Name : **CBD5**	FIRST SAMPLE TIME: 11 : 20
Project ID: **20154800.002A-01** — Arrival Time: 11 : 10 — Departure Time: 11 : 25	Target Lat. & Long.:
Sampling Crew (and Agency): ~~Mark Lee~~ / Mehdi Galouei Seng Lo	Actual Lat & Long: Datum: — Accuracy (ft / m):

OBSERVATIONS		
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk, ~~Other~~ Ang	WADEABLE: YES / NO	PICTURE NAME/S:
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy	
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow	
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None	
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other	
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 8' **Sample Depth:** 4'

PHYSICAL PARAMETERS	SAC	SR
Water Temp (Celsius):	23.32	23.29
Air Temp (°F):	75	
*pH>8.5 or <6.5 pH:	8.06	7.94
*DO<7.0 DO (mg/L):	7.39	7.29

SAMPLE COLLECTION	
Sample Depth (circle one): 0.1 m (subsurface grab), 88 (integrated)	
STARTING BANK: LB / RB/ NA	
OCCUPATION METHOD: Walk-in, Bridge, Other: _____	
SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: Kemerer	
SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water	
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____	
HYDROMODLOC: US / DS / NA	

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

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COC# 444516

Project No.	Project Name
20154800.002A Task 01	RPP- W4D2

L.P. No. (PO No.):

Samplers: (Signature/Number): ~~Mark Lee / 01556~~ SiL. Senglo / 11075

Receiving Lab:
North Coast Laboratories
5680 West End Rd., Arcata CA 95521
Attn: Roxanne Moore (707) 822-4649

Instructions/Remarks:

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb
1	05/19/16	0620	SR1-NCL-4-2	W	1	500 mL Amber	X
2	05/19/16	0855	SSB-NCL-4-2	W	1	500 mL Amber	X
3	05/19/16	1040	BS1-NCL-4-2	W	1	500 mL Amber	X
4	05/19/16	1120	CBD5-NCL-4-2	W	1	500 mL Amber	X
5	05/19/16	0925	CBD1-NCL-4-2	W	1	500 mL Amber	X
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Relinquished By:	Date/Time	Received By:
[signature]	5/19/16 1330	Fed EX

Instructions/Remarks
Standard TAT

Send Results To:
rfiroved@calrice.org
jenny.krenz@CH2M.com
criddle@kleinfelder.com

KLEINFELDER
Bright People. Right Solutions.

COC# 161831

Project No.	Project Name
20154800.002A Task 01	RPP- W4D1

L.P. No. (PO No.)

Samplers: (Signature/Number)
Mark Lee / 01556

Receiving Lab:
North Coast Laboratories
5680 West End Rd., Arcata CA 95521
Attn: Roxanne Moore (707) 822-4649

Instructions/Remarks

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb
1	05/17/16	0805	SR1-NCL-4-1	W	1	500 mL Amber	X
2	05/17/16	0900	SSB-NCL-4-1	W	1	500 mL Amber	X
3	05/17/16	1035	BS1-NCL-4-1	W	1	500 mL Amber	X
4	05/17/16	1120	CBD5-NCL-4-1	W	1	500 mL Amber	X
5	05/17/16	1250	CBD1-NCL-4-1	W	1	500 mL Amber	X
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Relinquished By:	Date/Time	Received By:
Mark Lee	5-17-16 | 1430	KLF Sample Control #2
Sample Control	5/19/16 | 1330	Fed Ex

Instructions/Remarks
Standard TAT

Send Results To:
rfiroved@calrice.org
jenny.krenz@CH2M.com
criddle@kleinfelder.com

CHAIN-OF-CUSTODY

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: 5/24/2016
StationID & Name : **SR1**	FIRST SAMPLE TIME: 7:50
Project ID: **20154800.002A-01** Arrival Time: 7:40 Departure Time: 0815	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: Accuracy (ft / m):

OBSERVATIONS	
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk, Other	WADEABLE: YES / NO — PICTURE NAME/S:
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs	

Comments:

Water Column Thickness: 19.5' **Sample Depth:** 9.75'

PHYSICAL PARAMETERS	SAC	SR
Water Temp (Celsius):	18.39	18.37
Air Temp (°F):	60	
*pH>8.5 or <6.5 pH:	7.24	7.35
*DO<7.0 DO (mg/L):	9.40	9.26

SAMPLE COLLECTION	
Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)	
STARTING BANK: LB / RB / NA	
OCCUPATION METHOD: Walk-in, Bridge, Other: dock	
SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: kemmerer	
SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water dock	
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____	
HYDROMODLOC: US / DS / NA	

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				Duplicate Sample
					Staff Gauge: 6.5

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: **5/24/2016**
StationID & Name : **CBD5**	FIRST SAMPLE TIME: 1140
Project ID: **20154800.002A-01** — Arrival Time: 1125 — Departure Time: 1225	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS		
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other	WADEABLE: YES / NO	PICTURE NAME/S:
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy	
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow	
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None	
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other	
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 11 **Sample Depth:** 5.5

PHYSICAL PARAMETERS	SAC	SR	SAMPLE COLLECTION	
			Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)	
Water Temp (Celsius):	20.26	20.24	STARTING BANK: LB / RB/ NA	
Air Temp (°F):	75		OCCUPATION METHOD: Walk-in, Bridge, Other: _____	
*pH>8.5 or <6.5 pH:	7.93	7.90	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: Kemmerer	
*DO<7.0 DO (mg/L):	8.38	8.22	SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water	
			HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____	
			HYDROMODLOC: US / DS / NA	

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: 5/24/2016
StationID & Name : **CBD1**	FIRST SAMPLE TIME: 13:30
Project ID: **20154800.002A-01** Arrival Time: 13:15 Departure Time: 1435	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: Accuracy (ft / m):

OBSERVATIONS		
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk, Other	WADEABLE: YES / NO	PICTURE NAME/S:
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy	
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow	
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None	
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other	
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 11 **Sample Depth:** 5.5

PHYSICAL PARAMETERS	SAC	SR	SAMPLE COLLECTION	
Water Temp (Celsius):	21.33	21.27	Sample Depth (circle one):	0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):	80		STARTING BANK:	LB / RB / NA
*pH>8.5 or <6.5 pH:	7.52	7.82	OCCUPATION METHOD:	Walk-in, Bridge, Other: _____
*DO<7.0 DO (mg/L):	7.59	7.42	SAMPLING EQUIPMENT:	Indiv bottle by hand, By pole, Other: Kemmerer
			SAMPLE LOCATION:	Bank, Thalweg, Midchannel, Open Water
			HYDRO-MODIFICATION:	None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____
			HYDROMODLOC:	US / DS / NA

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: 5/25/2016
StationID & Name : **BS1**	FIRST SAMPLE TIME: 1040
Project ID: **20154800.002A-01** Arrival Time: 1025 Departure Time: 1125	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: Accuracy (ft / m):

OBSERVATIONS		
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other	WADEABLE: YES (NO)	PICTURE NAME/S:
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy	
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow	
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None	
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other	
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 4' **Sample Depth:** 2'

PHYSICAL PARAMETERS	SAC	SR
Water Temp (Celsius):	22.22	22.14
Air Temp (°F):	70	
*pH>8.5 or <6.5 pH:	7.11	7.38
*DO<7.0 DO (mg/L):	5.35	5.38

SAMPLE COLLECTION	
Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)	
STARTING BANK: LB / RB/ NA	
OCCUPATION METHOD: Walk-in, Bridge, Other: _____	
SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: Ponar meter	
SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water	
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____	
HYDROMODLOC: US / DS / NA	

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: **5/25/2016**
StationID & Name : **SSB**	FIRST SAMPLE TIME: 1320
Project ID: **20154800.002A-01** Arrival Time: 1305 Departure Time: 1410	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: Accuracy (ft / m):

OBSERVATIONS		
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk, Other	WADEABLE: YES / NO	PICTURE NAME/S:
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy	
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow	
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None	
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other	
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 8 **Sample Depth:** 4

PHYSICAL PARAMETERS	SAC	SR	SAMPLE COLLECTION	
			Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)	
Water Temp (Celsius):	21.76	21.85	STARTING BANK: LB / RB/ NA	
Air Temp (°F):	75		OCCUPATION METHOD: Walk-in, Bridge, Other: _____	
*pH>8.5 or <6.5 pH:	7.19	7.38	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: Kemmerer	
*DO<7.0 DO (mg/L):	3.72	3.85	SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water	
			HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____	
			HYDROMODLOC: US / DS / NA	

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

KLEINFELDER
INSTRUMENT CALIBRATION LOG

Sampler Name/No.: Mark Lee

Date: 5/24/2016

Project No.: 20154800.002A-01/02

Job Name: RPP/RWDR 2016

Calibration Start Time: 0615

pH Meter: YSI-SAC								EC Meter: YSI-SAC	
	Time	Temp. via Thermometer	Temp. via YSI Meter	pH7	mVpH (pH 7)	pH10	mVpH (pH10)		1413 umho
Reading (initial)	0635		20.71	7.12	-6.7	9.99	-180.2	Reading (initial)	1414
Calibration (initial)	0705		19.10	7.00	-6.8	10.00	180.2	Calibration (initial)	1413
Reading (intermediate)								Reading (intermediate)	
Calibration (intermediate)								Calibration (intermediate)	
Reading (end of day)	1556		26.70	7.27	-22.5	10.13	-191.0	Reading (end of day)	1410

Comments:

Turbidity Meter (make/number): HF Scientific

	1000 NTU	10.0 NTU	0.02 NTU	Battery Check	
Reading (Initial)	998.5	9.96	0.01		
Calibration	1000	10.0	0.02		

D.O. Meter: YSI-SAC

Barometric Pressure: 755.0 mmHg

	mg/L	%
Reading (initial):	9.83	103.3
Reading (adj.):	9.45	99.4
Intermediate Reading (initial):		
Intermediate Reading (adj.):		

KLEINFELDER
INSTRUMENT CALIBRATION LOG

Sampler Name/No.: Mark Lee

Date: 5/24/2016

Project No.: 20154800.002A-01/02

Job Name: RPP/RWDR 2016

Calibration Start Time: 0615

pH Meter: YSI-SR								EC Meter: YSI-SR	
	Time	Temp. via Thermometer	Temp. via YSI Meter	pH7	mVpH (pH 7)	pH10	mVpH (pH10)		1413 umho
Reading (initial)	0635		20.13	7.53	-30.7	9.86	-196.6	Reading (initial)	1424
Calibration (initial)	0705		20.03	7.00	-30.7	10.00	-196.7	Calibration (initial)	1413
Reading (intermediate)								Reading (intermediate)	
Calibration (intermediate)								Calibration (intermediate)	
Reading (end of day)	1550		25.96	7.01	-31.4	9.98	-198.5	Reading (end of day)	1410

Comments:

Turbidity Meter (make/number): _____

	____NTU	____NTU	____NTU	Battery Check	
Reading (Initial)					
Calibration					

D.O. Meter: YSI-SR

Barometric Pressure: 753.5 mmHg

	mg/L	%
Reading (initial):	9.03	93.9
Reading (adj.):	9.56	99.2
Intermediate Reading (initial):		
Intermediate Reading (adj.):		

KLEINFELDER
INSTRUMENT CALIBRATION LOG

Sampler Name/No.: Mark Lee

Date: 5/25/2016

Project No.: 20154800.002A-01/02

Job Name: RPP/RWDR 2016

Calibration Start Time: 0615

pH Meter: YSI-SR								EC Meter: YSI-SR	
	Time	Temp. via Thermometer	Temp. via YSI Meter	pH7	mVpH (pH 7)	pH10	mVpH (pH10)		1413 umho
Reading (initial)	0630		20.89	7.57	-32.7	9.86	-199.1	Reading (initial)	1419
Calibration (initial)	0700		20.91	7.00	-32.6	10.00	-199.1	Calibration (initial)	1413
Reading (intermediate)								Reading (intermediate)	
Calibration (intermediate)								Calibration (intermediate)	
Reading (end of day)	1540		24.03	6.94	-29.3	9.92	-197.6	Reading (end of day)	1402

Comments:

Turbidity Meter (make/number): _____

	____NTU	____NTU	____NTU	Battery Check	
Reading (Initial)					
Calibration					

D.O. Meter: YSI-SR

Barometric Pressure: 758.2 mmHg

	mg/L	%
Reading (initial):	10.76	110.5
Reading (adj.):	9.73	99.9
Intermediate Reading (initial):		
Intermediate Reading (adj.):		

KLEINFELDER
INSTRUMENT CALIBRATION LOG

Sampler Name/No.: Mark Lee

Date: 5/25/2016

Project No.: 20154800.002A-01/02

Job Name: RPP/RWDR 2016

Calibration Start Time: 0615

pH Meter: YSI-SAC								EC Meter: YSI-SAC	
	Time	Temp. via Thermometer	Temp. via YSI Meter	pH7	mVpH (pH 7)	pH10	mVpH (pH10)		1413 umho
Reading (initial)	0630		20.65	7.32	-18.6	9.96	-190.3	Reading (initial)	1415
Calibration (initial)	0700		20.47	7.00	-18.5	10.00	-190.3	Calibration (initial)	1413
Reading (intermediate)								Reading (intermediate)	
Calibration (intermediate)								Calibration (intermediate)	
Reading (end of day)	1540		24.83	7.07	-22.3	9.96	-191.0	Reading (end of day)	1408

Comments:

Turbidity Meter (make/number): HF Scientific

	1000 NTU	10.0 NTU	0.02 NTU	Battery Check	
Reading (Initial)	988	10.03	0.01		
Calibration	1000	10.0	0.02		

D.O. Meter: YSI-SAC

Barometric Pressure: 758.9 mmHg

	mg/L	%
Reading (initial):	9.61	98.3
Reading (adj.):	9.75	99.8
Intermediate Reading (initial):		
Intermediate Reading (adj.):		

KLEINFELDER
Bright People. Right Solutions.

COC# 379799

Project No.	Project Name
20154800.002A Task 01	RPP- W5D1

L.P. No. (PO No.)

Samplers: (Signature/Number)
Mark Lee / 01556

Receiving Lab:
CLS Labs
3249 Fitzgerald Road
Rancho Cordova, CA 95742
Attn: Scott Furnas
916-638-7301

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb (EPA 507)	Instructions/Remarks
1	05/24/16	0750	SR1-CL-5-1	W	1	1-L Amber	X	QC Sample
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

Relinquished By:	Date/Time	Received By:
Mark Lee	5-24-16 1600	KLF Sample Control
Relinquished By: KLF Sample Control	5/26/16 1430	Received By: 5/26/16 1430
Relinquished By:	Date/Time	Received By: 2.1

Instructions/Remarks
Standard TAT

Send Results To:
criddle@kleinfelder.com
sgardner@kleinfelder.com
rcohen@kleinfelder.com

CHAIN-OF-CUSTODY

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COC# 258535

Project No.	Project Name
20154800.002A Task 01	RPP- W5D1

L.P. No. (PO No.):

Samplers: (Signature/Number): Mark Lee / 01556

Receiving Lab:
North Coast Laboratories
5680 West End Rd., Arcata CA 95521
Attn: Roxanne Moore (707) 822-4649

Instructions/Remarks

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb
1	05/24/16	0750	SR1-NCL-5-1	W	1	500 mL	X
2	05/24/16	1140	CBD5-NCL-5-1	W	1	500 mL	X
3	05/24/16	1330	CBD1-NCL-5-1	W	1	500 mL	X
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Relinquished By:	Date/Time	Received By:
Mark Lee	5/24/16 1600	KLF Sample Control
Relinquished By: KLF Sample Control / Mark Lee	5/26/16 1430	Received By: Fed Ex
Relinquished By:	Date/Time	Received By:

Instructions/Remarks
Standard TAT

Send Results To:
rfiroved@calrice.org
jenny.krenz@CH2M.com
criddle@kleinfelder.com

CHAIN-OF-CUSTODY

KLEINFELDER
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COC# 258535

Project No.	Project Name
20154800.002A Task 01	RPP- W5D1

L.P. No. (PO No.):

Samplers: (Signature/Number)

Receiving Lab:
North Coast Laboratories
5680 West End Rd., Arcata CA 95521
Attn: Roxanne Moore (707) 822-4649

Instructions/Remarks

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb
1	05/25/16	1040	BS1-NCL-5-1	W	1	500 mL	X
2	05/25/16	1320	SSB-NCL-5-1	W	1	500 mL	X
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Relinquished By:	Date/Time	Received By:
Mark [illegible]	5-25-16 1600	KLF Sample Control
Relinquished By: KLF Sample Control / Mark [illegible]	5-26-16 1430	Received By: Fed Ex
Relinquished By:	Date/Time	Received By:

Instructions/Remarks

Send Results To:
rfiroved@calrice.org
jenny.krenz@CH2M.com
criddle@kleinfelder.com

CHAIN-OF-CUSTODY

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: **5/26/2016**
StationID & Name : **SR1**	FIRST SAMPLE TIME: 6:20
Project ID: **20154800.002A-01** — Arrival Time: 6:10 — Departure Time: 6:40	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS		
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other	WADEABLE: YES / NO	PICTURE NAME/S:
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy	
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow	
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None	
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other	
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 23.5' **Sample Depth:** 11.75'

PHYSICAL PARAMETERS	SAC	SR	SAMPLE COLLECTION	
Water Temp (Celsius):	18.90	18.87	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)	
Air Temp (°F):	60		STARTING BANK: LB / RB / NA	
*pH>8.5 or <6.5 pH:	6.72	7.25	OCCUPATION METHOD: Walk-in, Bridge, Other: dock	
*DO<7.0 DO (mg/L):	9.08	8.95	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: kemmerer	
			SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water dock	
			HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other:	
			HYDROMODLOC: US / DS / NA	

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				
					Staff Gauge: 5.5'

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: **5/26/2016**
StationID & Name : **SSB**	FIRST SAMPLE TIME: 7:30
Project ID: **20154800.002A-01** — Arrival Time: 7:20 — Departure Time: 7:40	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS		
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other	WADEABLE: YES / NO	PICTURE NAME/S:
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy	
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow	
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None	
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other	
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 7 **Sample Depth:** 3.5'

PHYSICAL PARAMETERS	SAC	SR
Water Temp (Celsius):	22.13	22.09
Air Temp (°F):	65	
*pH>8.5 or <6.5 pH:	7.43	7.12
*DO<7.0 DO (mg/L):	3.05	3.02

SAMPLE COLLECTION

Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)

STARTING BANK: LB / RB/ NA

OCCUPATION METHOD: Walk-in, Bridge, Other: _____

SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: Kemmerer

SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water

HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____

HYDROMODLOC: US / DS / NA

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: 5/26/2016
StationID & Name : **BS1**	FIRST SAMPLE TIME: 8:35
Project ID: **20154800.002A-01** — Arrival Time: 8:25 — Departure Time: 8:55	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS	
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other	WADEABLE: YES / NO — PICTURE NAME/S:
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs	

Comments:

Water Column Thickness: 10' **Sample Depth:** 5'

PHYSICAL PARAMETERS	SAC	SR
Water Temp (Celsius):	22.83	22.81
Air Temp (°F):	70	
*pH>8.5 or <6.5 pH:	7.43	7.30
*DO<7.0 DO (mg/L):	5.04	5.15

SAMPLE COLLECTION	
Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)	
STARTING BANK: LB / RB / NA	
OCCUPATION METHOD: Walk-in, Bridge, Other: _____	
SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: Kemmerer	
SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water	
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____	
HYDROMODLOC: US / DS / NA	

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: **5/26/2016**
StationID & Name : **CBD5**	FIRST SAMPLE TIME: 9:35
Project ID: **20154800.002A-01** — Arrival Time: 9:25 — Departure Time: 9:40	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS	
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk, Other	WADEABLE: YES / NO — PICTURE NAME/S:
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs	

Comments:

Water Column Thickness: 10' **Sample Depth:** 5'

PHYSICAL PARAMETERS	SAC	SR
Water Temp (Celsius):	22.08	22.06
Air Temp (°F):	75	
*pH>8.5 or <6.5 pH:	7.81	7.83
*DO<7.0 DO (mg/L):	7.29	7.17

SAMPLE COLLECTION	
Sample Depth (circle one):	0.1 m (subsurface grab) -88 (integrated)
STARTING BANK:	LB / RB / NA
OCCUPATION METHOD:	Walk-in, Bridge, Other: _____
SAMPLING EQUIPMENT:	Indiv bottle by hand, By pole, Other: Kemmerer
SAMPLE LOCATION:	Bank, Thalweg, Midchannel, Open Water
HYDRO-MODIFICATION:	None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____
HYDROMODLOC:	US / DS / NA

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: **5/26/2016**
StationID & Name : **CBD1**	FIRST SAMPLE TIME: 10:40
Project ID: **20154800.002A-01** Arrival Time: 10:30 Departure Time: 11:00	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: Accuracy (ft / m):

OBSERVATIONS		
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other	WADEABLE: YES / NO	PICTURE NAME/S:
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy	
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow	
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None	
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other	
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 11'

Sample Depth: 5.5'

PHYSICAL PARAMETERS	SAC	SR
Water Temp (Celsius):	21.52	21.52
Air Temp (°F):	80	
*pH>8.5 or <6.5 pH:	7.55	7.68
*DO<7.0 DO (mg/L):	5.62	5.61

SAMPLE COLLECTION	
Sample Depth (circle one):	0.1 m (subsurface grab) -88 (integrated)
STARTING BANK:	LB / RB/ NA
OCCUPATION METHOD:	Walk-in, Bridge, Other: _____
SAMPLING EQUIPMENT:	Indiv bottle by hand, By pole, Other: Kemmerer
SAMPLE LOCATION:	Bank, Thalweg, Midchannel, Open Water
HYDRO-MODIFICATION:	None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____
HYDROMODLOC:	US / DS / NA

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

KLEINFELDER
INSTRUMENT CALIBRATION LOG

Sampler Name/No.: Mark Lee

Date: 5/26/2016

Project No.: 20154800.002A-01/02

Job Name: RPP/RWDR 2016

Calibration Start Time: 0500

pH Meter: YSI-SR								EC Meter: YSI-SR	
	Time	Temp. via Thermometer	Temp. via YSI Meter	pH7	mVpH (pH 7)	pH10	mVpH (pH10)		1413 umho
Reading (initial)	0515		22.39	7.56	-32.8	9.86	-199.5	Reading (initial)	1431
Calibration (initial)	0545		21.30	7.00	-32.6	10.00	-199.6	Calibration (initial)	1413
Reading (intermediate)								Reading (intermediate)	
Calibration (intermediate)								Calibration (intermediate)	
Reading (end of day)	1220		23.86	6.99	-32.2	9.94	-197.7	Reading (end of day)	1398

Comments:

Turbidity Meter (make/number): _____

	____NTU	____NTU	____NTU	Battery Check
Reading (Initial)				
Calibration				

D.O. Meter: YSI-SR

Barometric Pressure: 755.0 mmHg

	mg/L	%
Reading (initial):	9.55	97.4
Reading (adj.):	9.75	99.3
Intermediate Reading (initial):		
Intermediate Reading (adj.):		

KLEINFELDER
INSTRUMENT CALIBRATION LOG

Sampler Name/No.: Mark Lee

Date: 5/26/2016

Project No.: 20154800.002A-01/02

Job Name: RPP/RWDR 2016

Calibration Start Time: 0500

pH Meter: YSI-SAC								EC Meter: YSI-SAC	
	Time	Temp. via Thermometer	Temp. via YSI Meter	pH7	mVpH (pH 7)	pH10	mVpH (pH10)		1413 umho
Reading (initial)	0515		23.15	7.33	-19.3	9.89	-188.2	Reading (initial)	1428
Calibration (initial)	0545		22.46	7.00	-19.3	10.00	-188.3	Calibration (initial)	1413
Reading (intermediate)								Reading (intermediate)	
Calibration (intermediate)								Calibration (intermediate)	
Reading (end of day)	1220		23.62	7.03	-20.7	9.97	-187.5	Reading (end of day)	1398

Comments:

Turbidity Meter (make/number):

	___NTU	___NTU	___NTU	Battery Check	
Reading (Initial)					
Calibration					

D.O. Meter: YSI-SAC

Barometric Pressure: 758.4 mmHg

	mg/L	%
Reading (initial):	10.53	108.7
Reading (adj.):	9.67	99.7
Intermediate Reading (initial):		
Intermediate Reading (adj.):		

KLEINFELDER
Bright People. Right Solutions.

COC# 111379

Project No.	Project Name
20154800.002A Task 01	RPP- W5D2

L.P. No. (PO No.):

Samplers: (Signature/Number): Mark Lee / 01556

Receiving Lab:
North Coast Laboratories
5680 West End Rd., Arcata CA 95521
Attn: Roxanne Moore (707) 822-4649

Instructions/Remarks

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb
1	05/26/16	0620	SR1-NCL-5-2	W	1	500 mL Amber	X
2	05/26/16	0730	SSB-NCL-5-2	W	1	500 mL Amber	X
3	05/26/16	0835	BS1-NCL-5-2	W	1	500 mL Amber	X
4	05/26/16	0935	CBD5-NCL-5-2	W	1	500 mL Amber	X
5	05/26/16	1040	CBD1-NCL-5-2	W	1	500 mL Amber	X
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Relinquished By:	Date/Time	Received By:
Mark Lee	5/26/16 1430	Fed Ex

Instructions/Remarks
Standard TAT

Send Results To:
rfiroved@calrice.org
jenny.krenz@CH2M.com
criddle@kleinfelder.com

CHAIN-OF-CUSTODY

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: **5/31/2016**
StationID & Name : **SR1**	FIRST SAMPLE TIME: 7:10
Project ID: **20154800.002A-01** Arrival Time: 6:55 Departure Time: 7:20	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: Accuracy (ft / m):

OBSERVATIONS		
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other	**WADEABLE: YES / NO**	**PICTURE NAME/S:**
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy	
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow	
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None	
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other	
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 19.5' **Sample Depth:** 9.75'

PHYSICAL PARAMETERS	SAC	SR
Water Temp (Celsius):	21.97	21.96
Air Temp (°F):	60	
*pH>8.5 or <6.5 pH:	6.53	7.16
*DO<7.0 DO (mg/L):	8.00	8.41

SAMPLE COLLECTION	
Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)	
STARTING BANK: LB / RB / NA	
OCCUPATION METHOD: Walk-in, Bridge, Other: dock	
SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: Kemmerer	
SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water dock	
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____	
HYDROMODLOC: US / DS / NA	

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				
					Staff Gauge: 5'

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: **5/31/2016**
StationID & Name : **CBD1**	FIRST SAMPLE TIME: 08:10
Project ID: **20154800.002A-01** — Arrival Time: 7:50 — Departure Time: ~~7:50~~ 8:20	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS		
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other	WADEABLE: YES / NO	PICTURE NAME/S:
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy	
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow	
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None	
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other	
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 7' **Sample Depth:** 3.5'

PHYSICAL PARAMETERS	SAC	SR
Water Temp (Celsius):	25.54	25.47
Air Temp (°F):	70	
*pH>8.5 or <6.5 pH:	7.75	7.51
*DO<7.0 DO (mg/L):	4.78	5.05

SAMPLE COLLECTION	
Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)	
STARTING BANK: LB / RB / NA	
OCCUPATION METHOD: Walk-in, Bridge, Other: _____	
SAMPLING EQUIPMENT: Indiv bottle by hand, ~~By pole~~, Other: kemmerer	
SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water	
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____	
HYDROMODLOC: US / DS / NA	

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				DUPLICATE SAMPLE

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: 5/31/2016
StationID & Name : N	FIRST SAMPLE TIME: 9:40
Project ID: 20154800.001A-01 — Arrival Time: 9:25 — Departure Time: 10:00	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee, Mehdi Galouei	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS	WADEABLE: YES / NO	PICTURE NAME/S:
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk, Other		
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy	
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow	
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None	
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other	
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Thickness: 3" Sample Depth: 1.5'

PHYSICAL PARAMETERS	SAC	SR	SAMPLE COLLECTION	
			Sample Depth (circle one): 0.1m (subsurface grab) -88 (integrated)	
Water Temp (Celsius):	24.28	24.28	STARTING BANK: LB / RB/ NA	
Air Temp (°F):	75	75	OCCUPATION METHOD: Walk-in, Bridge, Other	
*pH>8.5 or <6.5 pH:	7.36	7.47	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other	Kemmerer
*DO<7.0 DO (mg/L):	2.06	2.09	SAMPLE LOCATION: Bank, Near Bank, Thalweg, Midchannel, Open Water	
			HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other	
			HYDROMODLOC: US / DS / NA	

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Sample Plan				5 Photos taken

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC			Date: **5/31/2016**
StationID & Name : **Rd 68 @ Logan Creek**			FIRST SAMPLE TIME: 10:20
Project ID: **20154800.001A-01**	Arrival Time: 10:10	Departure Time: 10:30	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee, Mehdi Galouei			Actual Lat & Long:
			Datum: / Accuracy (ft / m):

OBSERVATIONS		
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk, Other	WADEABLE: YES / NO	PICTURE NAME/S:
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy	
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow	
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None	
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other	
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Thickness: 4' **Sample Depth:** 2'

PHYSICAL PARAMETERS	SAC	SR	SAMPLE COLLECTION	
			Sample Depth (circle one): 0.1 m (subsurface grab) 88 (integrated)	
Water Temp (Celsius):	23.43	23.40	STARTING BANK:	LB / RB/ NA
Air Temp (°F):	75	75	OCCUPATION METHOD:	Walk-in, Bridge, Other
*pH>8.5 or <6.5 pH:	7.49	7.84	SAMPLING EQUIPMENT:	Indiv bottle by hand, By pole, Other
*DO<7.0 DO (mg/L):	7.54	7.80	SAMPLE LOCATION:	Bank, Near Bank, Thalweg, Midchannel, Open Water
			HYDRO-MODIFICATION:	None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other
			HYDROMODLOC:	US / DS / NA

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Sample Plan				4 photos taken

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: 5/31/2016
StationID & Name : **CBD5**	FIRST SAMPLE TIME: 11:30
Project ID: **20154800.002A-01** — Arrival Time: 11:20 — Departure Time: 11:40	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS	
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk, Other	WADEABLE: YES / NO — PICTURE NAME/S:
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs	

Comments:

Water Column Thickness: 6' **Sample Depth:** 3'

PHYSICAL PARAMETERS	SAC	SR
Water Temp (Celsius):	26.41	26.35
Air Temp (°F):	80	
*pH>8.5 or <6.5 pH:	7.48	7.83
*DO<7.0 DO (mg/L):	6.24	6.30

SAMPLE COLLECTION	
Sample Depth (circle one): 0.1 m (subsurface grab) 88 (integrated)	
STARTING BANK: LB / RB / NA	
OCCUPATION METHOD: Walk-in, Bridge, Other: _____	
SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: Kemmerer	
SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water	
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____	
HYDROMODLOC: US / DS / NA	

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: **5/31/2016**
StationID & Name : **BS1**	FIRST SAMPLE TIME: 12:15
Project ID: **20154800.002A-01** — Arrival Time: 12:00 — Departure Time: 12:25	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS		
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other	WADEABLE: YES / NO	PICTURE NAME/S:
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy	
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow	
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None	
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other	
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 11'

Sample Depth: 5.5'

PHYSICAL PARAMETERS	SAC	SR
Water Temp (Celsius):	27.17	27.12
Air Temp (°F):	80	
*pH>8.5 or <6.5 pH:	6.93	7.30
*DO<7.0 DO (mg/L):	4.17	4.25

SAMPLE COLLECTION	
Sample Depth (circle one):	0.1 m (subsurface grab) - 88 (integrated)
STARTING BANK:	LB / RB / NA
OCCUPATION METHOD:	Walk-in, Bridge, Other: _____
SAMPLING EQUIPMENT:	Indiv bottle by hand, By pole, Other: Kemmerer
SAMPLE LOCATION:	Bank, Thalweg, Midchannel, Open Water
HYDRO-MODIFICATION:	None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____
HYDROMODLOC:	US / DS / NA

CALCULATED SITE DISCHARGE (cfs):			
Transfer Calculated Value From Discharge Worksheet		Wet Channel Width (m):	Wet Channel Width (m):
		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: **5/31/2016**
StationID & Name : **SSB**	FIRST SAMPLE TIME: 13:15
Project ID: **20154800.002A-01** — Arrival Time: 13:05 — Departure Time: 13:30	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS	
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other	**WADEABLE: YES / NO** — **PICTURE NAME/S:**
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs	

Comments:

Water Column Thickness: 6' **Sample Depth:** 3'

PHYSICAL PARAMETERS	SAC	SR
Water Temp (Celsius):	25.90	25.89
Air Temp (°F):	85	
*pH>8.5 or <6.5 pH:	6.73	7.30
*DO<7.0 DO (mg/L):	4.14	4.20

SAMPLE COLLECTION	
Sample Depth (circle one): 0.1 m (subsurface grab) 88 (integrated)	
STARTING BANK: LB / RB / NA	
OCCUPATION METHOD: Walk-in, Bridge, Other: _____	
SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: Hemmerlet	
SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water	
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____	
HYDROMODLOC: US / DS / NA	

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

KLEINFELDER
INSTRUMENT CALIBRATION LOG

Sampler Name/No.: Mark Lee

Date: 5/31/2016

Project No.: 20154800.002A-01

Job Name: RPP 2016

Calibration Start Time: 0540

pH Meter: YSI-SR								EC Meter: YSI-SR	
	Time	Temp. via Thermometer	Temp. via YSI Meter	pH7	mVpH (pH 7)	pH10	mVpH (pH10)		1413 umho
Reading (initial)	0600		25.09	7.52	-31.0	9.86	-200.4	Reading (initial)	1419
Calibration (initial)	0630		21.35	7.00	-31.0	10.00	-200.5	Calibration (initial)	1413
Reading (intermediate)								Reading (intermediate)	
Calibration (intermediate)								Calibration (intermediate)	
Reading (end of day)	1440		30.98	6.97	-29.2	9.76	-190.8	Reading (end of day)	1428

Comments:

Turbidity Meter (make/number): _____

	____NTU	____NTU	____NTU	Battery Check	
Reading (Initial)					
Calibration					

D.O. Meter: YSI-SR

Barometric Pressure: 751.8 mmHg

	mg/L	%
Reading (initial):	8.24	93.1
Reading (adj.):	8.76	99.0
Intermediate Reading (initial):		
Intermediate Reading (adj.):		

KLEINFELDER
INSTRUMENT CALIBRATION LOG

Sampler Name/No.: Mark Lee

Date: 5/31/2016

Project No.: 20154800.002A-01

Job Name: RPP 2016

Calibration Start Time: 0540

pH Meter: YSI-SAC								EC Meter: YSI-SAC	
	Time	Temp. via Thermometer	Temp. via YSI Meter	pH7	mVpH (pH 7)	pH10	mVpH (pH10)		1413 umho
Reading (initial)	0600		24.83	7.34	-19.8	9.88	-191.3	Reading (initial)	1418
Calibration (initial)	0630		20.71	7.00	-19.8	10.00	-191.4	Calibration (initial)	1413
Reading (intermediate)								Reading (intermediate)	
Calibration (intermediate)								Calibration (intermediate)	
Reading (end of day)	1440		31.69	7.02	-21.3	9.99	-194.8	Reading (end of day)	1417

Comments:

Turbidity Meter (make/number): _____

	____NTU	____NTU	____NTU	Battery Check
Reading (Initial)				
Calibration				

D.O. Meter: YSI-SAC

Barometric Pressure: 754.1 mmHg

	mg/L	%
Reading (initial):	9.92	110.6
Reading (adj.):	8.90	99.2
Intermediate Reading (initial):		
Intermediate Reading (adj.):		

KLEINFELDER
Bright People. Right Solutions

COC# 282875

Project No.	Project Name
20154800.002A Task 01	RPP- W6D1

L.P. No. (PO No.):

Samplers: (Signature/Number): Mark Lee / 01556

Receiving Lab:
North Coast Laboratories
5680 West End Rd., Arcata CA 95521
Attn: Roxanne Moore (707) 822-4649

Instructions/Remarks

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb
1	05/31/16	0710	SR1-NCL-6-1	W	1	500 mL Amber	X
2	05/31/16	1315	SSB-NCL-6-1	W	1	500 mL Amber	X
3	05/31/16	1215	BS1-NCL-6-1	W	1	500 mL Amber	X
4	05/31/16	1130	CBD5-NCL-6-1	W	1	500 mL Amber	X
5	05/31/16	0810	CBD1-NCL-6-1	W	1	500 mL Amber	X
6		0940	N-B-6-1				
7		1020	RD68-B-6-1				
8							
9							
10							
11							
12							
13							
14							
15							

Relinquished By:	Date/Time	Received By:
Mark Lee	5/31/16 1430	KLR Sample Control
Relinquished By: KLR Sample Control / Mark Lee	6/2/16 1530	Received By: Fed Ex
Relinquished By:	Date/Time	Received By:

Instructions/Remarks
Standard TAT

Send Results To:
rfiroved@calrice.org
jenny.krenz@CH2M.com
criddle@kleinfelder.com

CHAIN-OF-CUSTODY

KLEINFELDER
Bright People. Right Solutions.

COC# 977324

Project No.	Project Name
20154800.002A Task 01	RPP- W6D1

L.P. No. (PO No.)

Samplers: (Signature/Number)
Mark Lee / 01556

Receiving Lab:
CLS Labs
3249 Fitzgerald Road
Rancho Cordova, CA 95742
Attn: Scott Furnas
916-638-7301

Instructions/Remarks

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb (EPA 507)											Instructions/Remarks
1	05/31/16	0810	CBD1-CL-6-1	W	1	1-L Amber	X											QC Sample
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		

Relinquished By:	Date/Time	Received By:
Mark Lee	5/31/16 1430	KLF Sample Control
KLF Sample Control	6-1-16 0815	Mark Lee
Mark Lee	6-1-16 0830	6-1-16 829 (0.9)

Instructions/Remarks
Standard TAT

Send Results To:
criddle@kleinfelder.com
sgardner@kleinfelder.com
rcohen@kleinfelder.com

CHAIN-OF-CUSTODY

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: **6/2/2016**
StationID & Name : **SR1**	FIRST SAMPLE TIME: 6:40
Project ID: **20154800.002A-01** — Arrival Time: 6:30 — Departure Time: 7:00	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS	
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other	**WADEABLE: YES / NO** — **PICTURE NAME/S:**
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs	

Comments:

Water Column Thickness: 19.5' **Sample Depth:** 9.75'

PHYSICAL PARAMETERS	SAC	SR
Water Temp (Celsius):	22.21	22.18
Air Temp (°F):	60	
*pH>8.5 or <6.5 pH:	6.22	7.05
*DO<7.0 DO (mg/L):	8.24	8.42

SAMPLE COLLECTION	
Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)	
STARTING BANK: LB / RB / NA	
OCCUPATION METHOD: Walk-in, Bridge, Other: dock	
SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: Kemmerer	
SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water dock	
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____	
HYDROMODLOC: US / DS / NA	

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				
					Staff Gauge: 3.5'

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: **6/2/2016**
StationID & Name : **CBD1**	FIRST SAMPLE TIME: 7:40
Project ID: **20154800.002A-01** — Arrival Time: 7:30 — Departure Time: 8:00	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS	
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other	WADEABLE: YES / NO — PICTURE NAME/S:
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other *	SKY CODE: clear, partly cloudy, overcast, fog, hazy
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs	

Comments:

Water Column Thickness: 10' **Sample Depth:** 5'

PHYSICAL PARAMETERS	SAC	SR
Water Temp (Celsius):	25.74	25.72
Air Temp (°F):	65	
*pH>8.5 or <6.5 pH:	7.38	7.19
*DO<7.0 DO (mg/L):	3.10	3.35

SAMPLE COLLECTION Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)

STARTING BANK: LB / RB / NA

OCCUPATION METHOD: Walk-in, Bridge, Other: _____

SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: Kemmerer

SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water

HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____

HYDROMODLOC: US / DS / NA

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
					* unknown odor observed after
	See Attached Chain of Custodies				pavement was wetted during
					sample collection. Odor is similar
					to that observed last year at this
					site. Possibly something spilled on
					the road that becomes aromatic
					when wet.

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: **6/2/2016**
StationID & Name : **N**	FIRST SAMPLE TIME: 9:25
Project ID: **20154800.002A-01** — Arrival Time: 9:10 — Departure Time: 9:40	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS	
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other	**WADEABLE: YES / NO** — **PICTURE NAME/S:**
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs	

Comments:

Water Column Thickness: 5 **Sample Depth:** 2.5'

PHYSICAL PARAMETERS	SAC	SR
Water Temp (Celsius):	25.51	25.53
Air Temp (°F):	70	
*pH>8.5 or <6.5 pH:	7.46	7.44
*DO<7.0 DO (mg/L):	3.55	3.80

SAMPLE COLLECTION	
Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)	
STARTING BANK: LB / RB/ NA	
OCCUPATION METHOD: Walk-in, Bridge, Other:	
SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other:	
SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water	
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other:	
HYDROMODLOC: US / DS / NA	

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
					No flow. Water appears stagnant with splotches of sheen.
	See Attached Chain of Custodies				

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: **6/2/2016**
StationID & Name : **Rd.68**	FIRST SAMPLE TIME: 10:00
Project ID: **20154800.002A-01** Arrival Time: 9:50 Departure Time: 10:10	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: Accuracy (ft / m):

OBSERVATIONS	
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other	WADEABLE: YES / NO — PICTURE NAME/S:
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs	

Comments:

Water Column Thickness: 4' **Sample Depth:** 2'

PHYSICAL PARAMETERS	SAC	SR
Water Temp (Celsius):	23.58	23.55
Air Temp (°F):	75	
*pH>8.5 or <6.5 pH:	7.52	7.76
*DO<7.0 DO (mg/L):	6.95	7.07

SAMPLE COLLECTION	
Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)	
STARTING BANK: LB / RB / NA	
OCCUPATION METHOD: Walk-in, Bridge, Other: _____	
SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: _____	
SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water	
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____	
HYDROMODLOC: US / DS / NA	

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: **6/2/2016**
StationID & Name : **CBD5**	FIRST SAMPLE TIME: 10:45
Project ID: **20154800.002A-01** — Arrival Time: 10:35 — Departure Time: 10:50	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS	WADEABLE: YES / NO	PICTURE NAME/S:
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk, Other		
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy	
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow	
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None	
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other	
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 8' **Sample Depth:** 4'

PHYSICAL PARAMETERS	SAC	SR	SAMPLE COLLECTION	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Water Temp (Celsius):	26.12	26.09	STARTING BANK:	LB / RB/ NA
Air Temp (°F):	80		OCCUPATION METHOD:	Walk-in, Bridge, Other: _____
*pH>8.5 or <6.5 pH:	7.63	7.83	SAMPLING EQUIPMENT:	Indiv bottle by hand, By pole, Other: Kemmerer
*DO<7.0 DO (mg/L):	6.71	6.76	SAMPLE LOCATION:	Bank, Thalweg, Midchannel, Open Water
			HYDRO-MODIFICATION:	None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____
			HYDROMODLOC:	US / DS / NA

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: **6/2/2016**
StationID & Name : **BS1**	FIRST SAMPLE TIME: 11:20
Project ID: **20154800.002A-01** — Arrival Time: 11:10 — Departure Time: 11:35	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS	
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other	WADEABLE: YES / NO — PICTURE NAME/S:
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs	

Comments:

Water Column Thickness: 11 **Sample Depth:** 5.5

PHYSICAL PARAMETERS	SAC	SR	SAMPLE COLLECTION	
			Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)	
Water Temp (Celsius):	27.74	27.71	STARTING BANK: LB / RB / NA	
Air Temp (°F):	85		OCCUPATION METHOD: Walk in, Bridge, Other: _____	
*pH>8.5 or <6.5 pH:	6.84	7.37	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: kemmerer	
*DO<7.0 DO (mg/L):	4.11	4.04	SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water	
			HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____	
			HYDROMODLOC: US / DS / NA	

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: **6/2/2016**
StationID & Name : **SSB**	FIRST SAMPLE TIME: 12:30
Project ID: **20154800.002A-01** — Arrival Time: 12:20 — Departure Time: 12:40	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS	
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk, Other	WADEABLE: YES / NO — PICTURE NAME/S:
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs	

Comments: NA 1-5 cfs

Water Column Thickness: 8' Sample Depth: 4'

PHYSICAL PARAMETERS	SAC	SR	SAMPLE COLLECTION	
Water Temp (Celsius):	26.39	26.37	Sample Depth (circle one): 0.1 m (subsurface grab) / 88 (integrated)	
Air Temp (°F):	85		STARTING BANK: LB / RB/ NA	
*pH>8.5 or <6.5 pH:	6.77	7.24	OCCUPATION METHOD: Walk-in, Bridge, Other: _____	
*DO<7.0 DO (mg/L):	3.97	4.01	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: Kemmerer	
			SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water	
			HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____	
			HYDROMODLOC: US / DS / NA	

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

KLEINFELDER
INSTRUMENT CALIBRATION LOG

Sampler Name/No.: Mark Lee

Date: 6/2/2016

Project No.: 20154800.002A-01

Job Name: RPP 2016

Calibration Start Time: 0530

pH Meter: YSI-SAC								EC Meter: YSI-SAC	
	Time	Temp. via Thermometer	Temp. via YSI Meter	pH7	mVpH (pH 7)	pH10	mVpH (pH10)		1413 umho
Reading (initial)	0545		26.96	7.62	-36.8	9.74	-199.2	Reading (initial)	1419
Calibration (initial)	0610		26.36	7.00	-36.9	10.00	-199.2	Calibration (initial)	1413
Reading (intermediate)								Reading (intermediate)	
Calibration (intermediate)								Calibration (intermediate)	
Reading (end of day)	1345		30.42	6.92	-32.0	9.91	-197.1	Reading (end of day)	1405

Comments:

Turbidity Meter (make/number): _____

	____NTU	____NTU	____NTU	Battery Check	
Reading (Initial)					
Calibration					

D.O. Meter: YSI-SAC

Barometric Pressure: 756.2 mmHg

	mg/L	%
Reading (initial):	9.37	106.4
Reading (adj.):	8.78	99.5
Intermediate Reading (initial):		
Intermediate Reading (adj.):		

KLEINFELDER
INSTRUMENT CALIBRATION LOG

Sampler Name/No.: Mark Lee

Date: 6/2/2016

Project No.: 20154800.002A-01

Job Name: RPP 2016

Calibration Start Time: 0530

pH Meter: YSI-SR								EC Meter: YSI-SR	
	Time	Temp. via Thermometer	Temp. via YSI Meter	pH7	mVpH (pH 7)	pH10	mVpH (pH10)		1413 umho
Reading (initial)	0545		27.36	7.60	-35.4	9.83	-203.3	Reading (initial)	1424
Calibration (initial)	0610			7.00	-35.4	10.00	-203.2	Calibration (initial)	1413
Reading (intermediate)								Reading (intermediate)	
Calibration (intermediate)								Calibration (intermediate)	
Reading (end of day)	1345		30.86	6.86	-27.5	9.78	193.5	Reading (end of day)	1409

Comments:

Turbidity Meter (make/number): _____

	____NTU	____NTU	____NTU	Battery Check	
Reading (Initial)					
Calibration					

D.O. Meter: YSI-SR

Barometric Pressure: 752.7 mmHg

	mg/L	%
Reading (initial):	8.34	94.0
Reading (adj.):	8.80	99.0
Intermediate Reading (initial):		
Intermediate Reading (adj.):		

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COC# 567396

Project No.	Project Name
20154800.002A Task 01	RPP- W6D2

L.P. No. (PO No.)

Samplers: (Signature/Number)
Mark Lee / 01556

Receiving Lab:
North Coast Laboratories
5680 West End Rd., Arcata CA 95521
Attn: Roxanne Moore (707) 822-4649

Instructions/Remarks

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb										
1	06/02/16	0640	SR1-NCL-6-2	W	1	500 mL Amber	X										
2	06/02/16	0740	CBD1-NCL-6-2	W	1	500 mL Amber	X										
3	06/02/16	0925	N-NCL-6-2	W	1	500 mL Amber	X										
4	06/02/16	1000	Rd.68-NCL-6-2	W	1	500 mL Amber	X										
5	06/02/16	1045	CBD5-NCL-6-2	W	1	500 mL Amber	X										
6	06/02/16	1120	BS1-NCL-6-2	W	1	500 mL Amber	X										
7	06/02/16	1230	SSB-NCL-6-2	W	1	500 mL Amber	X										
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	

Relinquished By:	Date/Time	Received By:
Mark Lee	6-2-16 1530	Fed Ex
Relinquished By:	Date/Time	Received By:
Relinquished By:	Date/Time	Received By:

Instructions/Remarks
Standard TAT

Send Results To:
rfiroved@calrice.org
jenny.krenz@CH2M.com
criddle@kleinfelder.com

CHAIN-OF-CUSTODY

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: 6/7/2016
StationID & Name : SR1	FIRST SAMPLE TIME: 6:55
Project ID: 20154800.002A-01 — Arrival Time: 6:45 — Departure Time: 7:15	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS			
DOMINANT SUBSTRATE:	Concrete, Cobble, Gravel, Sand, Mud, Unk, Other	WADEABLE: YES / NO	PICTURE NAME/S:
SITE ODOR:	None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE:	clear, partly cloudy, overcast, fog, hazy
OTHER PRESENCE:	Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION:	None, Foggy, Drizzle, Rain, Snow
WATER ODOR:	None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs):	Unknown, <1", >1", None
WATER CLARITY:	Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR:	colorless, green, yellow, brown, other
OBSERVED FLOW:	NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 20.5 Sample Depth: 10.25

PHYSICAL PARAMETERS	SAC	SR	SAMPLE COLLECTION	
			Sample Depth (circle one):	0.1 m (subsurface grab) -88 (integrated)
Water Temp (Celsius):	22.96	22.94	STARTING BANK:	LB / RB / NA
Air Temp (°F):	60		OCCUPATION METHOD:	Walk-in, Bridge, Other: dock
*pH>8.5 or <6.5 pH:	7.41	7.18	SAMPLING EQUIPMENT:	Indiv bottle by hand, By pole, Other: Kemmerer
*DO<7.0 DO (mg/L):	7.87	8.59	SAMPLE LOCATION:	Bank, Thalweg, Midchannel, Open Water dock
			HYDRO-MODIFICATION:	None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other:
			HYDROMODLOC:	US / DS / NA

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
					D.O. read >2.0 difference
	See Attached Chain of Custodies				between meters. Will DO >100
					on SR meter. Re-cal. SR meter
					in situ, in River
					Staff Gauge: 6

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: 6/7/2016
StationID & Name : CBD5	FIRST SAMPLE TIME: 1000
Project ID: 20154800.002A-01 — Arrival Time: 0945 — Departure Time: 1115	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS		WADEABLE: YES / NO	PICTURE NAME/S:
DOMINANT SUBSTRATE:	Concrete, Cobble, Gravel, Sand, Mud, Unk., Other		
SITE ODOR:	None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE:	clear, partly cloudy, overcast, fog, hazy
OTHER PRESENCE:	Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION:	None, Foggy, Drizzle, Rain, Snow
WATER ODOR:	None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs):	Unknown, <1", >1", None
WATER CLARITY:	Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR:	colorless, green, yellow, brown, other
OBSERVED FLOW:	NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 8'

Sample Depth: 4'

PHYSICAL PARAMETERS	SAC	SR
Water Temp (Celsius):	25.65	25.63
Air Temp (°F):	75	
*pH>8.5 or <6.5 pH:	7.76	7.78
*DO<7.0 DO (mg/L):	6.42	6.66

SAMPLE COLLECTION	
Sample Depth (circle one):	0.1 m, subsurface grab, -88 (integrated)
STARTING BANK:	LB / RB / NA
OCCUPATION METHOD:	Walk-in, Bridge, Other: _____
SAMPLING EQUIPMENT:	Indiv bottle by hand, By pole, Other: Kemmerer
SAMPLE LOCATION:	Bank, Thalweg, Midchannel, Open Water
HYDRO-MODIFICATION:	None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____
HYDROMODLOC:	US / DS / NA

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: 6/7/2016
StationID & Name : CBD1	FIRST SAMPLE TIME: 1220
Project ID: 20154800.002A-01 — Arrival Time: 1200 — Departure Time: 1310	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS		WADEABLE: YES / NO	PICTURE NAME/S:
DOMINANT SUBSTRATE:	Concrete, Cobble, Gravel, Sand, Mud, Unk, Other		
SITE ODOR:	None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE:	clear, partly cloudy, overcast, fog, hazy
OTHER PRESENCE:	Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION:	None, Foggy, Drizzle, Rain, Snow
WATER ODOR:	None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs):	Unknown, <1", >1", None
WATER CLARITY:	Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR:	colorless, green, yellow, brown, other
OBSERVED FLOW:	NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 12' Sample Depth: 6'

PHYSICAL PARAMETERS	SAC	SR	SAMPLE COLLECTION	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Water Temp (Celsius):	28.01	26.54	STARTING BANK:	LB / RB / NA
Air Temp (°F):	85		OCCUPATION METHOD:	Walk-in, Bridge, Other:
*pH>8.5 or <6.5 pH:	7.95	7.59	SAMPLING EQUIPMENT:	Indiv bottle by hand, By pole, Other: Kayak
*DO<7.0 DO (mg/L):	6.16	3.56	SAMPLE LOCATION:	Bank, Thalweg, Midchannel, Open Water
			HYDRO-MODIFICATION:	None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other:
			HYDROMODLOC:	US / DS / NA

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: 6/7/2016
StationID & Name : CRC1	FIRST SAMPLE TIME: 1430
Project ID: 20154800.002A-01 — Arrival Time: / — Departure Time: /	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS		WADEABLE: YES / NO	PICTURE NAME/S:
DOMINANT SUBSTRATE:	Concrete, Cobble, Gravel, Sand, Mud, Unk., Other		
SITE ODOR:	None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE:	clear, partly cloudy, overcast, fog, hazy
OTHER PRESENCE:	Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION:	None, Foggy, Drizzle, Rain, Snow
WATER ODOR:	None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs):	Unknown, <1", >1", None
WATER CLARITY:	Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR:	colorless, green, yellow, brown, other
OBSERVED FLOW:	NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: _____ Sample Depth: _____

PHYSICAL PARAMETERS	SAC	SR	SAMPLE COLLECTION	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Water Temp (Celsius):			STARTING BANK:	LB / RB/ NA
Air Temp (°F):			OCCUPATION METHOD:	Walk-in, Bridge, Other: _____
*pH>8.5 or <6.5 pH:			SAMPLING EQUIPMENT:	Indiv bottle by hand, By pole, Other: _____
*DO<7.0 DO (mg/L):			SAMPLE LOCATION:	Bank, Thalweg, Midchannel, Open Water
			HYDRO-MODIFICATION:	None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____
			HYDROMODLOC:	US / DS / NA

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				
					BLIND SPIKE SAMPLES:
					NCL and CLS labs

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: 6/8/2016
StationID & Name : BS1	FIRST SAMPLE TIME: 0910
Project ID: 20154800.002A-01 — Arrival Time: 0855 — Departure Time: 1000	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS		WADEABLE: YES / NO	PICTURE NAME/S:
DOMINANT SUBSTRATE:	Concrete, Cobble, Gravel, Sand, Mud, Unk, Other		
SITE ODOR:	None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE:	clear, partly cloudy, overcast, fog, hazy
OTHER PRESENCE:	Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION:	None, Foggy, Drizzle, Rain, Snow
WATER ODOR:	None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs):	Unknown, <1", >1", None
WATER CLARITY:	Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR:	colorless, green, yellow, brown, other
OBSERVED FLOW:	NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 9 Sample Depth: 4.5

PHYSICAL PARAMETERS	SAC	SR	SAMPLE COLLECTION	Sample Depth (circle one): 0.1 m, (subsurface grab) -88 (integrated)
Water Temp (Celsius):	25.71	25.69	STARTING BANK:	LB / RB / NA
Air Temp (°F):	70		OCCUPATION METHOD:	Walk-in, Bridge, Other:
*pH>8.5 or <6.5 pH:	7.49	7.42	SAMPLING EQUIPMENT:	Indiv bottle by hand, By pole, Other: Lemmer-er
*DO<7.0 DO (mg/L):	2.79	2.84	SAMPLE LOCATION:	Bank, Thalweg, Midchannel, Open Water
			HYDRO-MODIFICATION:	None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other:
			HYDROMODLOC:	US / DS / NA

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: 6/8/2016
StationID & Name : SSB	FIRST SAMPLE TIME: 1200
Project ID: 20154800.002A-01 — Arrival Time: 1145 — Departure Time: 1235	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS		
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk, Other	WADEABLE: YES / NO	PICTURE NAME/S:
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy	
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow	
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None	
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other	
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 7'

Sample Depth: 3.5'

PHYSICAL PARAMETERS	SAC	SR
Water Temp (Celsius):	25.78	25.76
Air Temp (°F):	85	
*pH>8.5 or <6.5 pH:	7.31	7.38
*DO<7.0 DO (mg/L):	2.86	2.95

SAMPLE COLLECTION	
Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)	
STARTING BANK: LB / RB / NA	
OCCUPATION METHOD: Walk-in, Bridge, Other: _____	
SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: Kemmerer	
SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water	
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____	
HYDROMODLOC: US / DS / NA	

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

KLEINFELDER
INSTRUMENT CALIBRATION LOG

Sampler Name/No.: Mark Lee

Date: 6/7/2016

Project No.: 20154800.002A-01/02

Job Name: RPP/RWDR 2016

Calibration Start Time: 0520

pH Meter: YSI-SAC								EC Meter: YSI-SAC	
	Time	Temp. via Thermometer	Temp. via YSI Meter	pH7	mVpH (pH 7)	pH10	mVpH (pH10)		1413 umho
Reading (initial)	0540	24	24.61	7.42	-24.9	9.88	-194.10	Reading (initial)	1415
Calibration (initial)	0520	23		7.00	-25.3	10.00	-194.10	Calibration (initial)	1413
Reading (intermediate)								Reading (intermediate)	
Calibration (intermediate)								Calibration (intermediate)	
Reading (end of day)	1425		30.49	6.97	-23.2	9.83	-188.3	Reading (end of day)	1410

Comments:

changed D.O. membrane at end of day

Turbidity Meter (make/number): HF Scientific

	1000 NTU	10.0 NTU	0.02 NTU	Battery Check	
Reading (Initial)	991	10.02	0.04		
Calibration	1000	10.0	0.02		

D.O. Meter: YSI-SAC

Barometric Pressure: 753.9 mmHg

	mg/L	%
Reading (initial):	9.80	104.2
Reading (adj.):	9.35	99.2
Intermediate Reading (initial):		
Intermediate Reading (adj.):		

KLEINFELDER
INSTRUMENT CALIBRATION LOG

Sampler Name/No.: Mark Lee

Date: 6/7/2016

Project No.: 20154800.002A-01/02

Job Name: RPP/RWDR 2016

Calibration Start Time: 0520

pH Meter: YSI-SR	Time	Temp. via Thermometer	Temp. via YSI Meter	pH7	mVpH (pH 7)	pH10	mVpH (pH10)
Reading (initial)	0545	24	24.77	7.58	-34.4	9.81	-192.0
Calibration (initial)		22	[illegible]	7.00	-34.4	10.00	-190.1
Reading (intermediate)							
Calibration (intermediate)							
Reading (end of day)	1425		30.24	6.94	-30.7	9.81	-192.5

EC Meter: YSI-SR	1413 umho
Reading (initial)	1418
Calibration (initial)	1413
Reading (intermediate)	
Calibration (intermediate)	
Reading (end of day)	1417

Comments:

Changed DO membrane at end of day

Turbidity Meter (make/number):

	___NTU	___NTU	___NTU	Battery Check
Reading (Initial)				
Calibration				

D.O. Meter: YSI-SR 07:05

Barometric Pressure: 751.9 mmHg 756.0

	mg/L	%
Reading (initial):	7.70	83.2
Reading (adj.):	7.16	75.9
Intermediate Reading (initial):	9.18	107.1
Intermediate Reading (adj.):	8.56	99.5

KLEINFELDER
INSTRUMENT CALIBRATION LOG

Sampler Name/No.: Mark Lee

Date: 6/8/2016

Project No.: 20154800.002A-01/02

Job Name: RPP/RWDR 2016

Calibration Start Time: 0515

	pH Meter: YSI-SAC							EC Meter: YSI-SAC	
	Time	Temp. via Thermometer	Temp. via YSI Meter	pH7	mVpH (pH 7)	pH10	mVpH (pH10)		1413 umho
Reading (initial)	0530	23.50	23.78	7.34	-20.2	9.87	-188.8	Reading (initial)	1429
Calibration (initial)	0605	23.0	24.00	7.00	-20.3	10.00	-188.8	Calibration (initial)	1413
Reading (intermediate)								Reading (intermediate)	
Calibration (intermediate)								Calibration (intermediate)	
Reading (end of day)	1355		27.05	7.12	-27.0	10.02	-192.6	Reading (end of day)	1394

Comments:

Turbidity Meter (make/number): HF Scientific

	1000 NTU	10.0 NTU	0.02 NTU	Battery Check	
Reading (Initial)	1001	10.03	0.09		
Calibration	1000	10.00	0.02		

D.O. Meter: YSI-SAC

Barometric Pressure: 754.4 mmHg

	mg/L	%
Reading (initial):	10.37	106.4
Reading (adj.):	9.67	99.2
Intermediate Reading (initial):		
Intermediate Reading (adj.):		

KLEINFELDER
INSTRUMENT CALIBRATION LOG

Sampler Name/No.: Mark Lee

Date: 6/8/2016

Project No.: 20154800.002A-01/02

Job Name: RPP/RWDR 2016

Calibration Start Time: 0515

pH Meter: YSI-SR								EC Meter: YSI-SR	
	Time	Temp. via Thermometer	Temp. via YSI Meter	pH7	mVpH (pH 7)	pH10	mVpH (pH10)		1413 umho
Reading (initial)	0530	23.0	24.17	7.58	-34.3	9.85	-201.5	Reading (initial)	1433
Calibration (initial)	0605	23.0	23.87	7.00	-34.3	10.00	-201.5	Calibration (initial)	1413
Reading (intermediate)								Reading (intermediate)	
Calibration (intermediate)								Calibration (intermediate)	
Reading (end of day)	1355		26.76	6.98	-32.8	9.96	-201.6	Reading (end of day)	1399

Comments:

Turbidity Meter (make/number): _____

	____NTU	____NTU	____NTU	Battery Check	
Reading (Initial)					
Calibration					

D.O. Meter: YSI-SR

Barometric Pressure: 750.6 mmHg

	mg/L	%
Reading (initial):	10.23	104.9
Reading (adj.):	9.64	98.6
Intermediate Reading (initial):		
Intermediate Reading (adj.):		

KLEINFELDER
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COC# 383216

Project No.	Project Name
20154800.002A Task 01	RPP- W7D1

L.P. No. (PO No.)

Samplers: (Signature/Number)
Mark Lee / 01556

Receiving Lab:
CLS Labs
3249 Fitzgerald Road
Rancho Cordova, CA 95742
Attn: Scott Furnas
916-638-7301

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb (EPA 507)	Instructions/Remarks
1	06/07/16	1430	CRC1-CL-7-1	W	1	1-L Amber	X	QC Sample
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

Relinquished By:	Date/Time	Received By:
Mark Lee	6-7-16 1445	KLF Sample Control
KLF Sample Control	6-8-16 1430	Mark Lee
Mark Lee	6-8-16 1449	[illegible]

(U.9)

Instructions/Remarks
Standard TAT

Send Results To:
criddle@kleinfelder.com
sgardner@kleinfelder.com
rcohen@kleinfelder.com

CHAIN-OF-CUSTODY

KLEINFELDER
Bright People. Right Solutions.

COC# 502861

Project No.	Project Name
20154800.002A Task 01	RPP- W7D1

L.P. No. (PO No.):

Samplers: (Signature/Number): Mark Lee / 01556

Receiving Lab:
North Coast Laboratories
5680 West End Rd., Arcata CA 95521
Attn: Roxanne Moore (707) 822-4649

Instructions/Remarks

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb											Instructions/Remarks
1	06/07/16	0655	SR1-NCL-7-1	W	1	500 mL	X											
2	06/07/16	1000	CBD5-NCL-7-1	W	1	500 mL	X											
3	06/07/16	1220	CBD1-NCL-7-1	W	1	500 mL	X											
4	06/07/16	1430	CRC1-NCL-7-1	W	1	500 mL	X											
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		

Relinquished By:	Date/Time	Received By:
Mark Lee	6-7-16 1445	KLF Sample Control
KLF Sample Control / Mark Lee	6-9-16 1800	Fed Ex

Instructions/Remarks
Standard TAT

Send Results To:
rfiroved@calrice.org
jenny.krenz@CH2M.com
criddle@kleinfelder.com

CHAIN-OF-CUSTODY

KLEINFELDER
Bright People. Right Solutions.

COC# 502861

Project No.	Project Name
20154800.002A Task 01	RPP- W7D1

L.P. No. (PO No.)

Samplers: (Signature/Number)

Receiving Lab:
North Coast Laboratories
5680 West End Rd., Arcata CA 95521
Attn: Roxanne Moore (707) 822-4649

Instructions/Remarks

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb											
1	06/08/16	0910	BS1-NCL-7-1	W	1	500 mL	X											
2	06/08/16	1200	SSB-NCL-7-1	W	1	500 mL	X											
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		

Relinquished By:	Date/Time	Received By:
Mark Ku	6-8-16 | 1400	KLF Sample Control
KLF Sample Control / Mark Ku	6-9-16 | 1800	Fed Ex

Instructions/Remarks

Send Results To:
rfiroved@calrice.org
jenny.krenz@CH2M.com
criddle@kleinfelder.com

CHAIN-OF-CUSTODY

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: 6/9/2016
StationID & Name : SR1	FIRST SAMPLE TIME: 06:35
Project ID: 20154800.002A-01 — Arrival Time: 6:25 — Departure Time: 6:50	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS		
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk, Other	WADEABLE: YES / NO	PICTURE NAME/S: MG
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy	
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow	
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None	
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other	
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 20 — Sample Depth: 10

PHYSICAL PARAMETERS	SAC	SR
Water Temp (Celsius):	21.93	21.9
Air Temp (°F):	60	
*pH>8.5 or <6.5 pH:	7.38	7.18
*DO<7.0 DO (mg/L):	7.87	8.47

SAMPLE COLLECTION	
Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)	
STARTING BANK: LB / RB / NA	
OCCUPATION METHOD: Walk-in, Bridge, Other: dock	
SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: kemmerer	
SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water dock	
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other:	
HYDROMODLOC: US / DS / NA	

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				
					Staff Gauge: 5

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: 6/9/2016
StationID & Name : SSB	FIRST SAMPLE TIME: 07.30
Project ID: 20154800.002A-01 — Arrival Time: 7:20 — Departure Time: 07:40	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS		WADEABLE: YES / NO	PICTURE NAME/S:
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other			
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy		
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow		
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None		
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other		
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs			

Comments:

Water Column Thickness: 8 Sample Depth: 4

PHYSICAL PARAMETERS	SAC	SR	SAMPLE COLLECTION	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Water Temp (Celsius):	24.70	24.67	STARTING BANK:	LB / RB / NA
Air Temp (°F):	65		OCCUPATION METHOD:	Walk-in, Bridge, Other: _____
*pH>8.5 or <6.5 pH:	7.47	7.06	SAMPLING EQUIPMENT:	Indiv bottle by hand, By pole, Other: Kemmerer
*DO<7.0 DO (mg/L):	2.81	3.06	SAMPLE LOCATION:	Bank, Thalweg, Midchannel, Open Water
			HYDRO-MODIFICATION:	None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____
			HYDROMODLOC:	US / DS / NA

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: 6/9/2016
StationID & Name : BS1	FIRST SAMPLE TIME: 08:35
Project ID: 20154800.002A-01 — Arrival Time: 8:25 — Departure Time: 8:50	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS	WADEABLE: YES / NO	PICTURE NAME/S:
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other		
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy	
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow	
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None	
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other	
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 10 Sample Depth: 5

PHYSICAL PARAMETERS	SAC	SR	SAMPLE COLLECTION	Sample Depth (circle one): 0.1 m (subsurface grab) 88 (integrated)
Water Temp (Celsius):	24.77	24.74	STARTING BANK:	LB / RB/ NA
Air Temp (°F):	65		OCCUPATION METHOD:	Walk-in, Bridge, Other: _____
*pH>8.5 or <6.5 pH:	7.65	7.27	SAMPLING EQUIPMENT:	Indiv bottle by hand, By pole, Other: kemmerer
*DO<7.0 DO (mg/L):	3.43	3.61	SAMPLE LOCATION:	Bank, Thalweg, Midchannel, Open Water
			HYDRO-MODIFICATION:	None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____
			HYDROMODLOC:	US / DS / NA

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: 6/9/2016
StationID & Name : CBD5	FIRST SAMPLE TIME: 09:30
Project ID: 20154800.002A-01 — Arrival Time: 09:20 — Departure Time: 09:40	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS		
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other	WADEABLE: YES / NO	PICTURE NAME/S:
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy	
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow	
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None	
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other	
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 8' Sample Depth: 4

PHYSICAL PARAMETERS	SAC	SR	SAMPLE COLLECTION	Sample Depth (circle one): 0.1 m (subsurface grab) / 88 (integrated)
Water Temp (Celsius):	23.18	23.15	STARTING BANK:	LB / RB / NA
Air Temp (°F):	70		OCCUPATION METHOD:	Walk-in, Bridge, Other: _____
*pH>8.5 or <6.5 pH:	7.88	7.75	SAMPLING EQUIPMENT:	Indiv bottle by hand, By pole, Other: Kemmerer
*DO<7.0 DO (mg/L):	6.44	6.86	SAMPLE LOCATION:	Bank, Thalweg, Midchannel, Open Water
		✓	HYDRO-MODIFICATION:	None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____
		6 (six)	HYDROMODLOC:	US / DS / NA

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: 6/9/2016
StationID & Name : CBD1	FIRST SAMPLE TIME: 10:35
Project ID: 20154800.002A-01 — Arrival Time: 10:20 — Departure Time: 10:45	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS		WADEABLE: YES / NO	PICTURE NAME/S:
DOMINANT SUBSTRATE:	Concrete, Cobble, Gravel, Sand, Mud, Unk., Other		
SITE ODOR:	None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE:	clear, partly cloudy, overcast, fog, hazy
OTHER PRESENCE:	Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION:	None, Foggy, Drizzle, Rain, Snow
WATER ODOR:	None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs):	Unknown, <1", >1", None
WATER CLARITY:	Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR:	colorless, green, yellow, brown, other
OBSERVED FLOW:	NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 11'

Sample Depth: 5.5'

PHYSICAL PARAMETERS	SAC	SR	SAMPLE COLLECTION	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Water Temp (Celsius):	26.05	26.33	STARTING BANK:	LB / RB / NA
Air Temp (°F):	75		OCCUPATION METHOD:	Walk-in, Bridge, Other: _____
*pH>8.5 or <6.5 pH:	7.78	7.66	SAMPLING EQUIPMENT:	Indiv bottle by hand, By pole, Other: hemmerer
*DO<7.0 DO (mg/L):	4.18	4.40	SAMPLE LOCATION:	Bank, Thalweg, Midchannel, Open Water
			HYDRO-MODIFICATION:	None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____
			HYDROMODLOC:	US / DS / NA

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: 6/9/2016
StationID & Name : N	FIRST SAMPLE TIME: 1320
Project ID: 20154800.002A-01 — Arrival Time: 1305 — Departure Time: 1330	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS	WADEABLE: YES / NO	PICTURE NAME/S:
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk, Other		
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy	
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow	
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None	
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other	
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 5'

Sample Depth: 2.5'

PHYSICAL PARAMETERS	SAC	SR
Water Temp (Celsius):	25.00	25.05
Air Temp (°F):	75	
*pH>8.5 or <6.5 pH:	7.25	7.35
*DO<7.0 DO (mg/L):	3.05	3.15

SAMPLE COLLECTION	
Sample Depth (circle one): 0.1 m, subsurface grab, -88 (integrated)	
STARTING BANK: LB / RB/ NA	
OCCUPATION METHOD: Walk-in, Bridge, Other: _____	
SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: Remover	
SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water	
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____	
HYDROMODLOC: US / DS / NA	

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: 6/9/2016
StationID & Name : RD 68	FIRST SAMPLE TIME: 1355
Project ID: 20154800.002A-01 — Arrival Time: 1340 — Departure Time: 1400	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS		WADEABLE: YES / NO	PICTURE NAME/S:
DOMINANT SUBSTRATE:	Concrete, Cobble, Gravel, Sand, Mud, Unk., Other		
SITE ODOR:	None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE:	clear, partly cloudy, overcast, fog, hazy
OTHER PRESENCE:	Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION:	None, Foggy, Drizzle, Rain, Snow
WATER ODOR:	None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs):	Unknown, <1", >1", None
WATER CLARITY:	Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR:	colorless, green, yellow, brown, other
OBSERVED FLOW:	NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 4'

Sample Depth: 2'

PHYSICAL PARAMETERS	SAC	SR	SAMPLE COLLECTION	
				Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Water Temp (Celsius):	24.86	24.87	STARTING BANK:	LB / RB/ NA
Air Temp (°F):	75		OCCUPATION METHOD:	Walk-in, Bridge, Other: _____
*pH>8.5 or <6.5 pH:	8.11	8.25	SAMPLING EQUIPMENT:	Indiv bottle by hand, By pole, Other: Flowmeter
*DO<7.0 DO (mg/L):	11.01	11.82	SAMPLE LOCATION:	Bank, Thalweg, Midchannel, Open Water
			HYDRO-MODIFICATION:	None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____
			HYDROMODLOC:	US / DS / NA

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: 6/9/2016
StationID & Name : K	FIRST SAMPLE TIME: 1440
Project ID: 20154800.002A-01 — Arrival Time: 1430 — Departure Time: 1450	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS		WADEABLE: YES / NO	PICTURE NAME/S:
DOMINANT SUBSTRATE:	Concrete, Cobble, Gravel, Sand, Mud, Unk., Other		
SITE ODOR:	None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE:	clear, partly cloudy, overcast, fog, hazy
OTHER PRESENCE:	Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION:	None, Foggy, Drizzle, Rain, Snow
WATER ODOR:	None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs):	Unknown, <1", >1", None
WATER CLARITY:	Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR:	colorless, green, yellow, brown, other
OBSERVED FLOW:	NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 3'

Sample Depth: 1.5'

PHYSICAL PARAMETERS	SAC	SR
Water Temp (Celsius):	23.91	23.83
Air Temp (°F):	80°	
*pH>8.5 or <6.5 pH:	7.46	7.79
*DO<7.0 DO (mg/L):	8.22	8.58

SAMPLE COLLECTION	
Sample Depth (circle one):	0.1 m (subsurface grab) -88 (integrated)
STARTING BANK:	LB / RB / NA
OCCUPATION METHOD:	Walk-in, Bridge, Other: _____
SAMPLING EQUIPMENT:	Indiv bottle by hand, By pole, Other: Kammerer
SAMPLE LOCATION:	Bank, Thalweg, Midchannel, Open Water
HYDRO-MODIFICATION:	None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____
HYDROMODLOC:	US / DS / NA

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

KLEINFELDER
INSTRUMENT CALIBRATION LOG

Sampler Name/No.: Mark Lee

Date: 6/9/2016

Project No.: 20154800.002A-01

Job Name: RPP 2016

Calibration Start Time: 0510

pH Meter: YSI-SAC								EC Meter: YSI-SAC	
	Time	Temp. via Thermometer	Temp. via YSI Meter	pH7	mVpH (pH 7)	pH10	mVpH (pH10)		1413 umho
Reading (initial)	05:25	22.5	23.05	7.58	-34.5	9.66	-191.2	Reading (initial)	1412
Calibration (initial)		23.0	23.28	7.00	-35.5	10.00	-191.3	Calibration (initial)	1413
Reading (intermediate)								Reading (intermediate)	
Calibration (intermediate)								Calibration (intermediate)	
Reading (end of day)	1650		26.33	6.94	-31.8	9.97	-193.0	Reading (end of day)	1412

Comments:

Turbidity Meter (make/number): _____

	___NTU	___NTU	___NTU	Battery Check	
Reading (Initial)					
Calibration					

D.O. Meter: YSI-SAC

Barometric Pressure: 755.5 mmHg

	mg/L	%
Reading (initial):	10.15	104.0
Reading (adj.):	9.62	99.4
Intermediate Reading (initial):		
Intermediate Reading (adj.):		

KLEINFELDER
INSTRUMENT CALIBRATION LOG

Sampler Name/No.: Mark Lee

Date: 6/9/2016

Project No.: 20154800.002A-01

Job Name: RPP 2016

Calibration Start Time: 0510

pH Meter: YSI-SR								EC Meter: YSI-SR	
	Time	Temp. via Thermometer	Temp. via YSI Meter	pH7	mVpH (pH 7)	pH10	mVpH (pH10)		1413 umho
Reading (initial)	0525	23.0	23.89	7.60	-35.3	9.82	-201.0	Reading (initial)	1420
Calibration (initial)	0600	23.5	22.28	7.00	-35.2	10.00	-201.1	Calibration (initial)	1413
Reading (intermediate)								Reading (intermediate)	
Calibration (intermediate)								Calibration (intermediate)	
Reading (end of day)	1650		26.37	6.91	-30.2	9.92	-200.0	Reading (end of day)	1408

Comments:

Turbidity Meter (make/number):	____NTU	____NTU	____NTU	Battery Check
Reading (Initial)				
Calibration				

D.O. Meter: YSI-SR			
Barometric Pressure: 752.2 mmHg			
		mg/L	%
	Reading (initial):	9.54	100.1
	Reading (adj.):	9.47	99.1
Intermediate Reading (initial):			
Intermediate Reading (adj.):			

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COC# 229234

Project No.	Project Name
20154800.002A Task 01	RPP- W7D2

L.P. No. (PO No.):

Samplers: (Signature/Number): Mark Lee / 01556

Receiving Lab:
North Coast Laboratories
5680 West End Rd., Arcata CA 95521
Attn: Roxanne Moore (707) 822-4649

Instructions/Remarks:

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb											Instructions/Remarks
1	06/09/16	0635	SR1-NCL-7-2	W	1	500 mL Amber	X											
2	06/09/16	0730	SSB-NCL-7-2	W	1	500 mL Amber	X											
3	06/09/16	0835	BS1-NCL-7-2	W	1	500 mL Amber	X											
4	06/09/16	0930	CBD5-NCL-7-2	W	1	500 mL Amber	X											
5	06/09/16	1035	CBD1-NCL-7-2	W	1	500 mL Amber	X											
6	↓	1320	IN-NCL-7-2	↓	↓	↓	X											
7	↓	1355	RD68-NCL-7-2	↓	↓	↓	X											
8	↓	1440	K-NCL-7-2	↓	↓	↓	X											
9																		
10																		
11																		
12																		
13																		
14																		
15																		

Relinquished By:	Date/Time	Received By:
[signature]	6-9-16 / 1800	Fed Ex

Instructions/Remarks
Standard TAT
Please send results no later than June 17, 2016
Thank you

Send Results To:
rfiroved@calrice.org
jenny.krenz@CH2M.com
criddle@kleinfelder.com

CHAIN-OF-CUSTODY

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: 6/10/2016
StationID & Name : Q	FIRST SAMPLE TIME: 0855
Project ID: 20154800.002A-01 — Arrival Time: 0840 — Departure Time: 0900	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mike van den Enden	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS	
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other	WADEABLE: YES / NO — PICTURE NAME/S: 4
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs	

Comments:

Water Column Thickness: 7' Sample Depth: 3.5'

PHYSICAL PARAMETERS	SAC	SR
Water Temp (Celsius):	19.64	19.61
Air Temp (°F):	70°	
*pH>8.5 or <6.5 pH:	7.32	7.52
*DO<7.0 DO (mg/L):	9.16	9.36

SAMPLE COLLECTION	
Sample Depth (circle one):	0.1 m (subsurface grab) -88 (integrated)
STARTING BANK:	LB / RB / NA
OCCUPATION METHOD:	Walk-in, Bridge, Other: Culvert
SAMPLING EQUIPMENT:	Indiv bottle by hand, By pole, Other: _____
SAMPLE LOCATION:	Bank, Thalweg, Midchannel, Open Water
HYDRO-MODIFICATION:	None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____
HYDROMODLOC:	US / DS / NA

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: 6/10/2016
StationID & Name : P	FIRST SAMPLE TIME: 0930
Project ID: 20154800.002A-01 — Arrival Time: 0915 — Departure Time: 0940	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mike van den Enden	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS		
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other	WADEABLE: YES / NO	PICTURE NAME/S: 4
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other		SKY CODE: clear, partly cloudy, overcast, fog, hazy
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other		PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other		PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)		WATERCOLOR: colorless, green, yellow, brown, other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 4' Sample Depth: 2'

PHYSICAL PARAMETERS	SAC	SR	SAMPLE COLLECTION	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Water Temp (Celsius):	21.65	21.62	STARTING BANK:	LB / RB / NA
Air Temp (°F):	70°		OCCUPATION METHOD:	Walk-in, Bridge, Other: _____
*pH>8.5 or <6.5 pH:	7.55	7.55	SAMPLING EQUIPMENT:	Indiv bottle by hand, By pole, Other: _____
*DO<7.0 DO (mg/L):	7.64	7.83	SAMPLE LOCATION:	Bank, Thalweg, Midchannel, Open Water
			HYDRO-MODIFICATION:	None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____
			HYDROMODLOC:	US / DS / NA

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: 6/10/2016
StationID & Name : I	FIRST SAMPLE TIME: 1005
Project ID: 20154800.002A-01 — Arrival Time: 0950 — Departure Time: 1015	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mike van den Enden	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS	
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other	WADEABLE: YES / NO — PICTURE NAME/S: 4
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1 cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs	

Comments:

Water Column Thickness: 4 — Sample Depth: 2'

PHYSICAL PARAMETERS	SAC	SR
Water Temp (Celsius):	23.99	23.96
Air Temp (°F):	70°	
*pH>8.5 or <6.5 pH:	7.82	7.80
*DO<7.0 DO (mg/L):	6.95	7.04

SAMPLE COLLECTION	
Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)	
STARTING BANK: LB / RB / NA	
OCCUPATION METHOD: Walk-in, Bridge, Other: _____	
SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: KEMMERER-HOR	
SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water	
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____	
HYDROMODLOC: US / DS / NA	

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: 6/10/2016
StationID & Name : L	FIRST SAMPLE TIME: 1055
Project ID: 20154800.002A-01 — Arrival Time: 1045 — Departure Time: 1105	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mike van den Enden	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS		
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk, Other	WADEABLE: YES / NO	PICTURE NAME/S: 4
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other		SKY CODE: clear, partly cloudy, overcast, fog, hazy
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other		PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other		PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)		WATERCOLOR: colorless, green, yellow, brown, other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 2 Sample Depth: 1

PHYSICAL PARAMETERS	SAC	SR
Water Temp (Celsius):	21.90	21.87
Air Temp (°F):	72°	
*pH>8.5 or <6.5 pH:	7.58	7.79
*DO<7.0 DO (mg/L):	8.00	8.02

SAMPLE COLLECTION	
Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)	
STARTING BANK: LB / RB / NA	
OCCUPATION METHOD: Walk-in, Bridge, Other: _____	
SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: _____	
SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water	
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____	
HYDROMODLOC: US / DS / NA	

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

KLEINFELDER
INSTRUMENT CALIBRATION LOG

Sampler Name/No.: Mark Lee

Date: 6/10/2016

Project No.: 20154800.002A-01

Job Name: RPP 2016

Calibration Start Time: 0545

pH Meter: YSI-SR								EC Meter: YSI-SR	
	Time	Temp. via Thermometer	Temp. via YSI Meter	pH7	mVpH (pH 7)	pH10	mVpH (pH10)		1413 umho
Reading (initial)	0555	22.5	23.16	7.62	-36.1	9.85	-202.4	Reading (initial)	1422
Calibration (initial)		21.0	21.88	7.00	-35.9	10.00	-202.3	Calibration (initial)	1413
Reading (intermediate)								Reading (intermediate)	
Calibration (intermediate)								Calibration (intermediate)	
Reading (end of day)	1235		23.7	6.91	-31.0	9.82	-194.3	Reading (end of day)	1409

Comments:

Turbidity Meter (make/number): _____

	___NTU	___NTU	___NTU	Battery Check
Reading (Initial)				
Calibration				

D.O. Meter: YSI-SR

Barometric Pressure: 754.3 mmHg

	mg/L	%
Reading (initial):	10.06	103.3
Reading (adj.):	9.67	99.3
Intermediate Reading (initial):		
Intermediate Reading (adj.):		

KLEINFELDER
INSTRUMENT CALIBRATION LOG

Sampler Name/No.: Mark Lee

Date: 6/10/2016

Project No.: 20154800.002A-01

Job Name: RPP 2016

Calibration Start Time: 0545

pH Meter: YSI-SAC								EC Meter: YSI-SAC	
	Time	Temp. via Thermometer	Temp. via YSI Meter	pH7	mVpH (pH 7)	pH10	mVpH (pH10)		1413 umho
Reading (initial)	0555	23.5	23.82	7.49	-28.6	9.65	-183.6	Reading (initial)	1415
Calibration (initial)		22.0	22.64	7.00	-28.6	10.00	-183.5	Calibration (initial)	1413
Reading (intermediate)								Reading (intermediate)	
Calibration (intermediate)								Calibration (intermediate)	
Reading (end of day)	1235		26.08	7.12	-34.7	9.83	-177.1	Reading (end of day)	1411

Comments:

Turbidity Meter (make/number): _____

	___NTU	___NTU	___NTU	Battery Check
Reading (Initial)				
Calibration				

D.O. Meter: YSI-SAC

Barometric Pressure: 755.8 mmHg

	mg/L	%
Reading (initial):	9.97	102.4
Reading (adj.):	9.64	99.3
Intermediate Reading (initial):		
Intermediate Reading (adj.):		

KLEINFELDER
Bright People. Right Solutions.

COC# 616413

Project No.	Project Name
20154800.002A Task 01	RPP- W7D3

L.P. No. (PO No.):

Samplers: (Signature/Number): Mark Lee / 01556

Receiving Lab:
North Coast Laboratories
5680 West End Rd., Arcata CA 95521
Attn: Roxanne Moore (707) 822-4649

Instructions/Remarks:
Please provide results by June 21 (run analysis before RPP W8D1 samples)

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb
1	06/10/16	1005	I-NCL-7-3	W	1	500 mL Amber	X
2	06/10/16	0930	P-NCL-7-3	W	1	500 mL Amber	X
3	06/10/16	0855	Q-NCL-7-3	W	1	500 mL Amber	X
4	06/10/16	1055	L-NCL-7-3	W	1	500 mL Amber	X
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Relinquished By:	Date/Time	Received By:
Mark Lee	6-10-16 1230	KLF Sample Control
Relinquished By:	Date/Time	Received By:
Relinquished By:	Date/Time	Received By:

Instructions/Remarks
Standard TAT

Send Results To:
rfiroved@calrice.org
jenny.krenz@CH2M.com
criddle@kleinfelder.com

CHAIN-OF-CUSTODY

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: **6/14/2016**
StationID & Name : **SR1**	FIRST SAMPLE TIME: 06:40
Project ID: **20154800.002A-01** — Arrival Time: 06:30 — Departure Time: 06:45	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS	
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other	**WADEABLE: YES / NO** — **PICTURE NAME/S:**
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs	

Comments:

Water Column Thickness: 21 **Sample Depth:** 10.5

PHYSICAL PARAMETERS	SAC	SR
Water Temp (Celsius):	21.28	21.25
Air Temp (°F):	60	
*pH>8.5 or <6.5 pH:	7.38	7.10
*DO<7.0 DO (mg/L):	8.65	8.69
	6 six	

SAMPLE COLLECTION Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)

STARTING BANK: LB / RB / NA

OCCUPATION METHOD: Walk-in, Bridge, Other: dock

SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: kemmerer

SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water dock

HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____

HYDROMODLOC: US / DS / NA

CALCULATED SITE DISCHARGE (cfs): Transfer Calculated Value From Discharge Worksheet

Wet Channel Width (m): — Wet Channel Width (m):

Midchannel depth (m): — Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				
					Staff Gauge: 5.5

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC			Date: 6/14/2016
StationID & Name : SSB			FIRST SAMPLE TIME: 07:35
Project ID: 20154800.002A-01	Arrival Time: 07:25	Departure Time: 07:40	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei			Actual Lat & Long:
			Datum: / Accuracy (ft / m):

OBSERVATIONS		
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk, Other	WADEABLE: YES / NO	PICTURE NAME/S:
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy	
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow	
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None	
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other	
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 5 **Sample Depth:** 2.5

PHYSICAL PARAMETERS	SAC	SR	SAMPLE COLLECTION	
Water Temp (Celsius):	23.23	23.17	Sample Depth (circle one):	0.1 m (subsurface grab) >88 (integrated)
Air Temp (°F):	65		STARTING BANK:	LB / RB/ NA
*pH>8.5 or <6.5 pH:	7.58	7.12	OCCUPATION METHOD:	Walk-in, Bridge, Other: _____
*DO<7.0 DO (mg/L):	2.66	2.70	SAMPLING EQUIPMENT:	Indiv bottle by hand, By pole, Other: Kemmerer
			SAMPLE LOCATION:	Bank, Thalweg, Midchannel, Open Water
			HYDRO-MODIFICATION:	None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____
			HYDROMODLOC:	US / DS / NA

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				QAQC

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: 6/14/2016
StationID & Name : **BS1**	FIRST SAMPLE TIME: 08:35
Project ID: **20154800.002A-01** — Arrival Time: 08:25 — Departure Time: 8:45	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS	
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other	WADEABLE: YES / NO — PICTURE NAME/S:
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs	

Comments:

Water Column Thickness: 9 **Sample Depth:** 4.5'

PHYSICAL PARAMETERS	SAC	SR
Water Temp (Celsius):	23.54	23.51
Air Temp (°F):	65	
*pH>8.5 or <6.5 pH:	7.91	7.31
*DO<7.0 DO (mg/L):	4.85	4.70

SAMPLE COLLECTION	
Sample Depth (circle one): 0.1 m (subsurface grab) 0.8 (integrated)	
STARTING BANK: LB / RB/ NA	
OCCUPATION METHOD: Walk-in, Bridge, Other: _____	
SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: Kemmerer	
SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water	
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____	
HYDROMODLOC: US / DS / NA	

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: 6/14/2016
StationID & Name : **CBD5**	FIRST SAMPLE TIME: 09:20
Project ID: **20154800.002A-01** — Arrival Time: 09:10 — Departure Time: 09:30	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS	
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk, Other	WADEABLE: YES / NO — PICTURE NAME/S:
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs	

Comments:

Water Column Thickness: 7 **Sample Depth:** 3.5

PHYSICAL PARAMETERS	SAC	SR
Water Temp (Celsius):	22.65	22.61
Air Temp (°F):	65	
*pH>8.5 or <6.5 pH:	8.21	7.81
*DO<7.0 DO (mg/L):	7.76	7.50
8.21		

SAMPLE COLLECTION	
Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)	
STARTING BANK: LB / RB/ NA	
OCCUPATION METHOD: Walk-in, Bridge, Other: _____	
SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: kemmerer	
SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water	
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____	
HYDROMODLOC: US / DS / NA	

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: **6/14/2016**
StationID & Name : **CBD1**	FIRST SAMPLE TIME: 10:25
Project ID: **20154800.002A-01** — Arrival Time: 10:15 — Departure Time: ~~10:40~~ 10:40	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei MG	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS	
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other	WADEABLE: YES / NO — PICTURE NAME/S:
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs	

Comments:

Water Column Thickness: 10' **Sample Depth:** 5'

PHYSICAL PARAMETERS	SAC	SR
Water Temp (Celsius):	23.56	23.45
Air Temp (°F):	70	
*pH>8.5 or <6.5 pH:	7.95	7.62
*DO<7.0 DO (mg/L):	4.38	4.01

SAMPLE COLLECTION	
Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)	
STARTING BANK: LB / RB/ NA	
OCCUPATION METHOD: Walk-In, Bridge, Other: _____	
SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: kemmerer	
SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water	
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____	
HYDROMODLOC: US / DS / NA	

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

KLEINFELDER
INSTRUMENT CALIBRATION LOG

Sampler Name/No.: Mark Lee

Date: 6/14/2016

Project No.: 20154800.002A-01

Job Name: RPP 2016

Calibration Start Time: 0510

pH Meter: YSI-SAC								EC Meter: YSI-SAC	
	Time	Temp. via Thermometer	Temp. via YSI Meter	pH7	mVpH (pH 7)	pH10	mVpH (pH10)		1413 umho
Reading (initial)	0535	22.0	22.07	7.78	-16.3	9.70	-174.1	Reading (initial)	1418
Calibration (initial)	0605	21.0	20.3	7.00	-16.3	10.00	-174.2	Calibration (initial)	1413
Reading (intermediate)								Reading (intermediate)	
Calibration (intermediate)								Calibration (intermediate)	
Reading (end of day)	1200		23.83	7.22	-27.9	10.12	-181.5	Reading (end of day)	1437

Comments:

Turbidity Meter (make/number): ____

	____NTU	____NTU	____NTU	Battery Check
Reading (Initial)				
Calibration				

D.O. Meter: YSI-SAC

Barometric Pressure: 757.3 mmHg

	mg/L	%
Reading (initial):	9.01	95.1
Reading (adj.):	9.49	99.9
Intermediate Reading (initial):		
Intermediate Reading (adj.):		

KLEINFELDER
INSTRUMENT CALIBRATION LOG

Sampler Name/No.: Mark Lee

Date: 6/14/2016

Project No.: 20154800.002A-01

Job Name: RPP 2016

Calibration Start Time: 0510

	pH Meter: YSI-SR							EC Meter: YSI-SR	
	Time	Temp. via Thermometer	Temp. via YSI Meter	pH7	mVpH (pH 7)	pH10	mVpH (pH10)		1413 umho
Reading (initial)	0530	22.0	22.40	7.62	-36.2	9.83	-200.9	Reading (initial)	1455
Calibration (initial)	0605	20.5	21.13	7.00	-36.2	10.00	-201.0	Calibration (initial)	1413
Reading (intermediate)								Reading (intermediate)	
Calibration (intermediate)								Calibration (intermediate)	
Reading (end of day)	1200		24.25	6.99	-35.8	9.98	-201.2	Reading (end of day)	734

Comments:

Turbidity Meter (make/number): _____

	____NTU	____NTU	____NTU	Battery Check	
Reading (Initial)					
Calibration					

D.O. Meter: YSI-SR

Barometric Pressure: 752.8 mmHg

		mg/L	%
	Reading (initial):	9.83	102.0
	Reading (adj.):	9.56	99.1
	Intermediate Reading (initial):		
	Intermediate Reading (adj.):		

KLEINFELDER
Bright People. Right Solutions

COC# 616413

Project No.	Project Name
20154800.002A Task 01	RPP- W7D3

L.P. No. (PO No.):

Samplers: (Signature/Number): Mark Lee / 01556

Receiving Lab:
North Coast Laboratories
5680 West End Rd., Arcata CA 95521
Attn: Roxanne Moore (707) 822-4649

Instructions/Remarks: Please provide results by June 21 (run analysis before RPP W8D1 samples)

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb
1	06/10/16	1005	I-NCL-7-3	W	1	500 mL Amber	X
2	06/10/16	0930	P-NCL-7-3	W	1	500 mL Amber	X
3	06/10/16	0855	Q-NCL-7-3	W	1	500 mL Amber	X
4	06/10/16	1055	L-NCL-7-3	W	1	500 mL Amber	X
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Relinquished By:	Date/Time	Received By:
Mark Lee	6-10-16 | 1230	KLF Sample Control
Relinquished By: Mark Lee KLF Sample Control	6-14-16 | 1400	Fed Ex
Relinquished By:	Date/Time	Received By:

Instructions/Remarks
Standard TAT

Send Results To:
rfiroved@calrice.org
jenny.krenz@CH2M.com
criddle@kleinfelder.com

CHAIN-OF-CUSTODY

KLEINFELDER
Bright People. Right Solutions

COC# 884312

Project No.	Project Name
20154800.002A Task 01	RPP- W8D1

L.P. No. (PO No.):

Samplers: (Signature/Number): Mark Lee / 01556

Receiving Lab:
North Coast Laboratories
5680 West End Rd., Arcata CA 95521
Attn: Roxanne Moore (707) 822-4649

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb
1	06/14/16	0640	SR1-NCL-8-1	W	1	500 mL	X
2	06/14/16	0735	SSB-NCL-8-1	W	1	500 mL	X
3	06/14/16	0835	BS1-NCL-8-1	W	1	500 mL	X
4	06/14/16	0920	CBD5-NCL-8-1	W	1	500 mL	X
5	06/14/16	1025	CBD1-NCL-8-1	W	1	500 mL	X
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Instructions/Remarks

Please email results no later than Wed. 6-22-16

Thank you.

Mark Lee

Relinquished By:	Date/Time	Received By:
Mark Lee	6-14-16 1400	Fed Ex

Instructions/Remarks
Please email results no later than Wed., 6-22-16.

Send Results To:
rfiroved@calrice.org
jenny.krenz@CH2M.com
criddle@kleinfelder.com

CHAIN-OF-CUSTODY

KLEINFELDER
Bright People. Right Solutions.

COC# 222640

Project No.	Project Name
20154800.002A Task 01	RPP- W8D1

L.P. No. (PO No.):

Samplers: (Signature/Number): Mark Lee / 01556

Receiving Lab:
CLS Labs
3249 Fitzgerald Road
Rancho Cordova, CA 95742
Attn: Scott Furnas
916-638-7301

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb (EPA 507)	Instructions/Remarks
1	06/14/16	0735	SSB-CL-8-1	W	1	1-L Amber	X	QC Sample
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

Relinquished By:	Date/Time	Received By:
Relinquished By:	Date/Time	Received By:
Relinquished By: Mark Lee	Date/Time 6-14-16 1345	Received By: Shelli Furnas 13:45 (1.2)

Instructions/Remarks
Standard TAT

Send Results To:
criddle@kleinfelder.com
sgardner@kleinfelder.com
rcohen@kleinfelder.com

CHAIN-OF-CUSTODY

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: **6/21/2016**
StationID & Name : **SR1**	FIRST SAMPLE TIME: 6:45
Project ID: **20154800.002A-01** — Arrival Time: 6:35 — Departure Time: 7:00	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS		
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other	WADEABLE: YES / NO	PICTURE NAME/S:
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy	
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow	
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None	
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other	
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 21.5' **Sample Depth:** 10.75'

PHYSICAL PARAMETERS	SAC	SR
Water Temp (Celsius):	20.60	20.57
Air Temp (°F):	60	
*pH>8.5 or <6.5 * pH:	6.38	7.26
*DO<7.0 DO (mg/L):	9.62	9.75

SAMPLE COLLECTION	
Sample Depth (circle one):	0.1 m (subsurface grab) 88 (integrated)
STARTING BANK:	LB / RB/ NA
OCCUPATION METHOD:	Walk-in, Bridge, Other: dock
SAMPLING EQUIPMENT:	Indiv bottle by hand, By pole, Other: kemmerer
SAMPLE LOCATION:	Bank, Thalweg, Midchannel, Open Water dock
HYDRO-MODIFICATION:	None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other:
HYDROMODLOC:	US / DS / NA

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				
		* Difference in pH has bee similar			
		at this ste very often this			
		season			Staff Gauge: 6'

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: **6/21/2016**
StationID & Name : **CBD5**	FIRST SAMPLE TIME: 0910
Project ID: **20154800.002A-01** — Arrival Time: 0855 — Departure Time: 0945	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS		
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other	WADEABLE: YES / NO	PICTURE NAME/S:
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy	
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow	
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None	
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other	
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 9' **Sample Depth:** 4.5'

PHYSICAL PARAMETERS	SAC	SR
Water Temp (Celsius):	24.92	24.89
Air Temp (°F):	70's	
*pH>8.5 or <6.5 pH:	7.78	7.69
*DO<7.0 DO (mg/L):	7.03	6.95

SAMPLE COLLECTION	
Sample Depth (circle one):	0.1 m (subsurface grab) -88 (integrated)
STARTING BANK:	LB / RB / NA
OCCUPATION METHOD:	Walk-in, Bridge, Other: _____
SAMPLING EQUIPMENT:	Indiv bottle by hand, By pole, Other: Kemmerer
SAMPLE LOCATION:	Bank, Thalweg, Midchannel, Open Water
HYDRO-MODIFICATION:	None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____
HYDROMODLOC:	US / DS / NA

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: **6/21/2016**
StationID & Name : **CBD1**	FIRST SAMPLE TIME: 1100
Project ID: **20154800.002A-01** — Arrival Time: 1045 — Departure Time: 1155	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS	
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other	WADEABLE: YES / NO — PICTURE NAME/S:
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs	

Comments:

Water Column Thickness: 10.5' **Sample Depth:** 5.25'

PHYSICAL PARAMETERS	SAC	SR
Water Temp (Celsius):	24.01	23.93
Air Temp (°F):	80's	
*pH>8.5 or <6.5 pH:	7.35	7.60
*DO<7.0 DO (mg/L):	4.88	4.81

SAMPLE COLLECTION	
Sample Depth (circle one): 0.1 m, subsurface grab, -88 (integrated)	
STARTING BANK: LB / RB / NA	
OCCUPATION METHOD: Walk-in, Bridge, Other: _____	
SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: Kemmerer	
SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water	
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____	
HYDROMODLOC: US / DS / NA	

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
					QAQC (RB) ✓
	See Attached Chain of Custodies				

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: **6/22/2016**
StationID & Name : **BS1**	FIRST SAMPLE TIME: 0905
Project ID: **20154800.002A-01** Arrival Time: 0850 Departure Time: 0945	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: Accuracy (ft / m):

OBSERVATIONS		WADEABLE: YES / NO	PICTURE NAME/S:
DOMINANT SUBSTRATE:	Concrete, Cobble, Gravel, Sand, Mud, Unk, Other		
SITE ODOR:	None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE:	clear, partly cloudy, overcast, fog, hazy
OTHER PRESENCE:	Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION:	None, Foggy, Drizzle, Rain, Snow
WATER ODOR:	None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs):	Unknown, <1", >1", None
WATER CLARITY:	Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR:	colorless, green, yellow, brown, other
OBSERVED FLOW:	NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 10' **Sample Depth:** 5'

PHYSICAL PARAMETERS	SAC	SR
Water Temp (Celsius):	25.29	25.27
Air Temp (°F):	70's	
*pH>8.5 or <6.5 pH:	7.46	7.44
*DO<7.0 DO (mg/L):	5.44	5.63

SAMPLE COLLECTION	
Sample Depth (circle one):	0.1 m (subsurface grab) -88 (integrated)
STARTING BANK:	LB / RB/ NA
OCCUPATION METHOD:	Walk-in, Bridge, Other: _____
SAMPLING EQUIPMENT:	Indiv bottle by hand, By pole, Other: Remover
SAMPLE LOCATION:	Bank, Thalweg, Midchannel, Open Water
HYDRO-MODIFICATION:	None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____
HYDROMODLOC:	US / DS / NA

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: 6/22/2016
StationID & Name : **SSB**	FIRST SAMPLE TIME: 1125
Project ID: **20154800.002A-01** — Arrival Time: 1115 — Departure Time: 1155	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS	
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other	WADEABLE: YES / NO — PICTURE NAME/S: X 2
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other
X OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs	

Comments:

Water Column Thickness: 9' **Sample Depth:** 4.5'

PHYSICAL PARAMETERS	SAC	SR
Water Temp (Celsius):	25.84	25.71
Air Temp (°F):	85	
*pH>8.5 or <6.5 pH:	6.86	7.21
*DO<7.0 DO (mg/L):	1.08	0.94

SAMPLE COLLECTION	
Sample Depth (circle one):	0 1 m (subsurface grab) -88 (integrated)
STARTING BANK:	LB / RB / NA
OCCUPATION METHOD:	Walk-in, Bridge, Other: _____
SAMPLING EQUIPMENT:	Indiv bottle by hand, By pole, Other: Kemmerer
SAMPLE LOCATION:	Bank, Thalweg, Midchannel, Open Water
HYDRO-MODIFICATION:	None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____
HYDROMODLOC:	US / DS / NA

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				
		X Pumps not running but much flow (brown water) observed			
		traveling below pumps south of sample			site

KLEINFELDER
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COC# 544194

Project No.	Project Name
20154800.002A Task 01	RPP- W9D1

L.P. No. (PO No.):

Samplers: (Signature/Number): Mark Lee / 01556

Receiving Lab:
CLS Labs
3249 Fitzgerald Road
Rancho Cordova, CA 95742
Attn: Scott Furnas
916-638-7301

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb (EPA 507)	Instructions/Remarks
1	06/21/16	1100	CBD1-CL-9-1	W	1	1-L Amber	X	QC Sample
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

Relinquished By:	Date/Time	Received By:
Mark Lee	6-21-16 1430	[illegible] 6-21-16 1430 (1-8)

Instructions/Remarks
Standard TAT

Send Results To:
criddle@kleinfelder.com
sgardner@kleinfelder.com
rcohen@kleinfelder.com

CHAIN-OF-CUSTODY

KLEINFELDER
Bright People Right Solutions

COC# 909382

Project No.	Project Name
20154800.002A Task 01	RPP- W9D1

L.P. No. (PO No.):

Samplers: (Signature/Number): Mark Lee / 01556

Receiving Lab:
North Coast Laboratories
5680 West End Rd., Arcata CA 95521
Attn: Roxanne Moore (707) 822-4649

Instructions/Remarks

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb
1	06/21/16	0645	SR1-NCL-9-1	W	1	500 mL	X
2	06/21/16	0910	CBD5-NCL-9-1	W	1	500 mL	X
3	06/21/16	1100	CBD1-NCL-9-1	W	1	500 mL	X
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Mark Lee

Relinquished By:	Date/Time	Received By:
Mark Lee	6-21-16 / 1245	KLF Sample Control
Relinquished By: KLF Sample Control / Mark Lee	6-22-16 / 1630	Fed Ex
Relinquished By:	Date/Time	Received By:

Instructions/Remarks
Standard TAT

Send Results To:
rfiroved@calrice.org
jenny.krenz@CH2M.com
criddle@kleinfelder.com

CHAIN-OF-CUSTODY

KLEINFELDER
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COC# 909382

Project No.	Project Name
20154800.002A Task 01	RPP- W9D1

L.P. No. (PO No.):

Samplers: (Signature/Number): Mark Lee/1556

Receiving Lab:
North Coast Laboratories
5680 West End Rd., Arcata CA 95521
Attn: Roxanne Moore (707) 822-4649

Instructions/Remarks

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb										
1	06/22/16	0905	BS1-NCL-9-1	W	1	500 mL	X										
2	06/22/16	1125	SSB-NCL-9-1	W	1	500 mL	X										
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	

Relinquished By:	Date/Time	Received By:
Mark Lee	6-22-16 / 1630	Fed Ex

Instructions/Remarks

Send Results To:
rfiroved@calrice.org
jenny.krenz@CH2M.com
criddle@kleinfelder.com

CHAIN-OF-CUSTODY

KLEINFELDER
INSTRUMENT CALIBRATION LOG

Sampler Name/No.: Mark Lee

Date: 6/21/2016

Project No.: 20154800.002A-01/02

Job Name: RPP/RWDR 2016

Calibration Start Time: 0520

pH Meter: YSI-SAC								EC Meter: YSI-SAC	
	Time	Temp. via Thermometer	Temp. via YSI Meter	pH7	mVpH (pH 7)	pH10	mVpH (pH10)		1413 umho
Reading (initial)	0535	26.0	25.71	7.21	-12.2	9.88	-181.9	Reading (initial)	1451
Calibration (initial)	0610	24.5	23.58	7.00	-12.1	10.00	-182.0	Calibration (initial)	1413
Reading (intermediate)								Reading (intermediate)	
Calibration (intermediate)								Calibration (intermediate)	
Reading (end of day)	1245		28.79	7.16	-21.6	10.01	-185.4	Reading (end of day)	1409

Comments:

Turbidity Meter (make/number): HF Scientific

	1000 NTU	10.0 NTU	0.02 NTU	Battery Check
Reading (Initial)	1003	10.03	0.01	
Calibration	1000	10.0	0.02	

D.O. Meter: YSI-SAC

Barometric Pressure: 758.2 mmHg

	mg/L	%
Reading (initial):	8.22	91.4
Reading (adj.):	8.98	100.0
Intermediate Reading (initial):		
Intermediate Reading (adj.):		

KLEINFELDER
INSTRUMENT CALIBRATION LOG

Sampler Name/No.: Mark Lee

Date: 6/21/2016

Project No.: 20154800.002A-01/02

Job Name: RPP/RWDR 2016

Calibration Start Time: 0520

pH Meter: YSI-SR								EC Meter: YSI-SR	
	Time	Temp. via Thermometer	Temp. via YSI Meter	pH7	mVpH (pH 7)	pH10	mVpH (pH10)		1413 umho
Reading (initial)	0535	26.0	25.90	7.60	-35.5	9.87	-204.1	Reading (initial)	1459
Calibration (initial)	0610	24.0	24.32	7.00	-35.4	10.00	-204.3	Calibration (initial)	1413
Reading (intermediate)								Reading (intermediate)	
Calibration (intermediate)								Calibration (intermediate)	
Reading (end of day)	1245		28.52	6.96	-33.2	9.86	-199.3	Reading (end of day)	1407

Comments:

Turbidity Meter (make/number): _____

	____NTU	____NTU	____NTU	Battery Check	
Reading (Initial)					
Calibration					

D.O. Meter: YSI-SR

Barometric Pressure: 757.5 mmHg

	mg/L	%
Reading (initial):	8.60	95.5
Reading (adj.):	8.98	99.7
Intermediate Reading (initial):		
Intermediate Reading (adj.):		

KLEINFELDER
INSTRUMENT CALIBRATION LOG

Sampler Name/No.: Mark Lee

Date: 6/22/2016

Project No.: 20154800.002A-01/02

Job Name: RPP/RWDR 2016

Calibration Start Time: 0520

pH Meter: YSI-SAC								EC Meter: YSI-SAC	
	Time	Temp. via Thermometer	Temp. via YSI Meter	pH7	mVpH (pH 7)	pH10	mVpH (pH10)		1413 umho
Reading (initial)	0530	26.0	26.03	7.27	-16.1	9.91	-188.0	Reading (initial)	1450
Calibration (initial)	0605	25.0	23.98	7.00	-16.4	10.00	-188.1	Calibration (initial)	1413
Reading (intermediate)								Reading (intermediate)	
Calibration (intermediate)								Calibration (intermediate)	
Reading (end of day)	1520		28.99	7.01	-16.9	9.93	-185.9	Reading (end of day)	1407

Comments:

Turbidity Meter (make/number): HF Scientific

	1000 NTU	10.0 NTU	0.02 NTU	Battery Check	
Reading (Initial)	1000	9.97	0.01		
Calibration	1000	10.0	0.02		

D.O. Meter: YSI-SAC

Barometric Pressure: 756.0 mmHg

	mg/L	%
Reading (initial):	99.5	9.08
Reading (adj.):	9.11	99.6
Intermediate Reading (initial):		
Intermediate Reading (adj.):		

KLEINFELDER
INSTRUMENT CALIBRATION LOG

Sampler Name/No.: Mark Lee

Date: 6/22/2016

Project No.: 20154800.002A-01/02

Job Name: RPP/RWDR 2016

Calibration Start Time: 0520

pH Meter: YSI-SR								EC Meter: YSI-SR	
	Time	Temp. via Thermometer	Temp. via YSI Meter	pH7	mVpH (pH 7)	pH10	mVpH (pH10)		1413 umho
Reading (initial)	0530	26.0	26.54	7.64	-38.0	9.81	-203.5	Reading (initial)	1459
Calibration (initial)	0608	24.76	24.50	7.00	-38.0	10.00	-203.6	Calibration (initial)	1413
Reading (intermediate)								Reading (intermediate)	
Calibration (intermediate)								Calibration (intermediate)	
Reading (end of day)	1520		28.88	6.97	-36.1	9.97	-204.8	Reading (end of day)	1404

Comments:

Turbidity Meter (make/number): _____

	____NTU	____NTU	____NTU	Battery Check	
Reading (Initial)					
Calibration					

D.O. Meter: YSI-SR

Barometric Pressure: 753.2 mmHg

	mg/L	%
Reading (initial):	9.61	104.9
Reading (adj.):	9.09	99.10
Intermediate Reading (initial):		
Intermediate Reading (adj.):		

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: 6/28/2016
StationID & Name : SR1	FIRST SAMPLE TIME: 7:00
Project ID: 20154800.002A-01 — Arrival Time: 6:30 — Departure Time: 07:10	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS	
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other	WADEABLE: YES / NO — PICTURE NAME/S:
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs	

Comments:

Water Column Thickness: 20.5'

Sample Depth: 10.25'

PHYSICAL PARAMETERS	SAC	SR (six)
Water Temp (Celsius):	22.68	22.65
Air Temp (°F):	60	
*pH>8.5 or <6.5 six pH:	6.09	7.02
*DO<7.0 DO (mg/L):	8.74	8.96

SAMPLE COLLECTION	
Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)	
STARTING BANK: LB / RB / NA	
OCCUPATION METHOD: Walk-in, Bridge, Other: dock	
SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: kemmerer	
SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water dock	
HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____	
HYDROMODLOC: US / DS / NA	

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				
					Staff Gauge: 5.5

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: 6/28/2016
StationID & Name : SSB	FIRST SAMPLE TIME: 08:10
Project ID: 20154800.002A-01 — Arrival Time: 07:55 — Departure Time: 08:20	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS	
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other	WADEABLE: YES / NO — PICTURE NAME/S: *2
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other (dark)
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs	

Comments:

Water Column Thickness: 9' Sample Depth: 4.5'

PHYSICAL PARAMETERS	SAC	SR	SAMPLE COLLECTION	
Water Temp (Celsius):	27.96	27.93	Sample Depth (circle one)	0.1 m (subsurface grab) 0.88 (integrated)
Air Temp (°F):	65		STARTING BANK:	LB / RB / NA
*pH>8.5 or <6.5 pH:	7.43	7.00	OCCUPATION METHOD:	Walk-in, Bridge, Other: _____
* *DO<7.0 DO (mg/L):	0.50	0.70	SAMPLING EQUIPMENT:	Indiv bottle by hand, By pole, Other: kemmerer
			SAMPLE LOCATION:	Bank, Thalweg, Midchannel, Open Water
			HYDRO-MODIFICATION:	None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____
			HYDROMODLOC:	US / DS / NA

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				
	* D.O. last week ~ 1.0. Much vegitation on opposite side of bridges. Water is dark green				

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC			Date: 6/28/2016
StationID & Name : BS1			FIRST SAMPLE TIME: 09:10
Project ID: 20154800.002A-01	Arrival Time: 09:00	Departure Time: 09:20	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei			Actual Lat & Long:
			Datum: / Accuracy (ft / m):

OBSERVATIONS		
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other	WADEABLE: YES / NO	PICTURE NAME/S:
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy	
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow	
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None	
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other	
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 9'

Sample Depth: 4.5'

PHYSICAL PARAMETERS	SAC	SR
Water Temp (Celsius):	28.11	28.08
Air Temp (°F):	70	
*pH>8.5 or <6.5 pH:	7.68	7.41
*DO<7.0 DO (mg/L):	4.80	5.18

SAMPLE COLLECTION	
Sample Depth (circle one):	0.1 m (subsurface grab) / 88 (integrated)
STARTING BANK:	LB / RB / NA
OCCUPATION METHOD:	Walk-in, Bridge, Other: _____
SAMPLING EQUIPMENT:	Indiv bottle by hand, By pole, Other: Kemmerer
SAMPLE LOCATION:	Bank, Thalweg, Midchannel, Open Water
HYDRO-MODIFICATION:	None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____
HYDROMODLOC:	US / DS / NA

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: 6/28/2016
StationID & Name : CBD5	FIRST SAMPLE TIME: 9:50
Project ID: 20154800.002A-01 — Arrival Time: 9:40 — Departure Time: 10:00	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: — Accuracy (ft / m):

OBSERVATIONS	WADEABLE: YES / NO	PICTURE NAME/S:
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other		
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy	
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow	
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None	
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other	
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 7'

Sample Depth: 3.5'

PHYSICAL PARAMETERS	SAC	SR
Water Temp (Celsius):	28.05	28.00
Air Temp (°F):	75	
*pH>8.5 or <6.5 pH:	7.88	7.73
*DO<7.0 DO (mg/L):	6.49	6.63
	↓	
	Four	

SAMPLE COLLECTION Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)

STARTING BANK: LB / RB/ NA

OCCUPATION METHOD: Walk-in, Bridge, Other: _____

SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: Kemmerer

SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water

HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____

HYDROMODLOC: US / DS / NA

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC	Date: **6/28/2016**
StationID & Name : **CBD1**	FIRST SAMPLE TIME: 10:55
Project ID: **20154800.002A-01** Arrival Time: 10:45 Departure Time: 11:10	Target Lat. & Long.:
Sampling Crew (and Agency): Mark Lee / Mehdi Galouei	Actual Lat & Long:
	Datum: Accuracy (ft / m):

OBSERVATIONS	WADEABLE: YES / NO	PICTURE NAME/S:
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other		
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	SKY CODE: clear, partly cloudy, overcast, fog, hazy	
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other	PRECIPITATION: None, Foggy, Drizzle, Rain, Snow	
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other	PRECIPITATION (last 24 hrs): Unknown, <1", >1", None	
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)	WATERCOLOR: colorless, green, yellow, brown, other	
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, 0.1 - 1cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 8' **Sample Depth:** 4'

PHYSICAL PARAMETERS	SAC	SR	SAMPLE COLLECTION	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Water Temp (Celsius):	28.62	28.66	STARTING BANK:	LB / RB / NA
Air Temp (°F):	90		OCCUPATION METHOD:	Walk-in, Bridge, Other: _____
*pH>8.5 or <6.5 pH:	7.37	7.62	SAMPLING EQUIPMENT:	Indiv bottle by hand, By pole, Other: Kemmerel
*DO<7.0 DO (mg/L):	3.90	4.08	SAMPLE LOCATION:	Bank, Thalweg, Midchannel, Open Water
			HYDRO-MODIFICATION:	None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: _____
			HYDROMODLOC:	US / DS / NA

CALCULATED SITE DISCHARGE (cfs):		Wet Channel Width (m):	Wet Channel Width (m):
Transfer Calculated Value From Discharge Worksheet		Midchannel depth (m):	Stage:

√	Sample ID	Analyte	Container	Number	Notes
	See Attached Chain of Custodies				

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COC# 358922

Project No.	Project Name
20154800.002A Task 01	RPP- W10D1

L.P. No. (PO No.):

Samplers: (Signature/Number): Mark Lee / 01556

Receiving Lab:
North Coast Laboratories
5680 West End Rd., Arcata CA 95521
Attn: Roxanne Moore (707) 822-4649

Instructions/Remarks

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb
1	06/28/16	0700	SR1-NCL-10-1	W	1	500 mL	X
2	06/28/16	0810	SSB-NCL-10-1	W	1	500 mL	X
3	06/28/16	0910	BS1-NCL-10-1	W	1	500 mL	X
4	06/28/16	0950	CBD5-NCL-10-1	W	1	500 mL	X
5	06/28/16	1050	CBD1-NCL-10-1	W	1	500 mL	X
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Relinquished By:	Date/Time	Received By:
Mark Lee	6/28/16 1630	Fed Ex
Relinquished By:	Date/Time	Received By:
Relinquished By:	Date/Time	Received By:

Instructions/Remarks
Standard TAT

Send Results To:
rfiroved@calrice.org
jenny.krenz@CH2M.com
criddle@kleinfelder.com

CHAIN-OF-CUSTODY

KLEINFELDER
INSTRUMENT CALIBRATION LOG

Sampler Name/No.: Mark Lee

Date: 6/28/2016

Project No.: 20154800.002A-01

Job Name: RPP 2016

Calibration Start Time: 0530

pH Meter: YSI-SAC								EC Meter: YSI-SAC	
	Time	Temp. via Thermometer	Temp. via YSI Meter	pH7	mVpH (pH 7)	pH10	mVpH (pH10)		1413 umho
Reading (initial)	0550	28.0	27.77	7.20	-12.2	9.91	-185.4	Reading (initial)	1457
Calibration (initial)	0620	28.0	27.92	7.00	-12.3	10.00	-185.4	Calibration (initial)	1413
Reading (intermediate)								Reading (intermediate)	
Calibration (intermediate)								Calibration (intermediate)	
Reading (end of day)	1245		33.95	7.12	-19.2	9.92	-184.3	Reading (end of day)	1405

Comments:

Turbidity Meter (make/number): _____

	____NTU	____NTU	____NTU	Battery Check
Reading (Initial)				
Calibration				

D.O. Meter: YSI-SAC

Barometric Pressure: 756.8 mmHg

	mg/L	%
Reading (initial):	8.22	98.5
Reading (adj.):	8.32	99.6
Intermediate Reading (initial):		
Intermediate Reading (adj.):		

KLEINFELDER
INSTRUMENT CALIBRATION LOG

Sampler Name/No.: Mark Lee

Date: 6/28/2016

Project No.: 20154800.002A-01

Job Name: RPP 2016

Calibration Start Time: 0530

pH Meter: YSI-SR								EC Meter: YSI-SR	
	Time	Temp. via Thermometer	Temp. via YSI Meter	pH7	mVpH (pH 7)	pH10	mVpH (pH10)		1413 umho
Reading (initial)	0550	28.0	27.94	7.61	-36.4	9.81	-203.5	Reading (initial)	1458
Calibration (initial)	0620	28.0	27.12	7.00	-36.4	10.00	-203.5	Calibration (initial)	1413
Reading (intermediate)								Reading (intermediate)	
Calibration (intermediate)								Calibration (intermediate)	
Reading (end of day)	1245		33.80	6.92	-31.7	9.86	-198.7	Reading (end of day)	1408

Comments:

Turbidity Meter (make/number):

	___NTU	___NTU	___NTU	Battery Check	
Reading (Initial)					
Calibration					

D.O. Meter: YSI-SR

Barometric Pressure: 755.4 mmHg

	mg/L	%
Reading (initial):	8.26	99.8
Reading (adj.):	8.23	99.4
Intermediate Reading (initial):		
Intermediate Reading (adj.):		

Appendix F-2
North Coast (Valent sub) Results

NORTH COAST LABORATORIES LTD.

May 05, 2016

Valent USA Corporation
6560 Trinity Court
Dublin, CA 94568

Order No.: 1604512
Invoice No.: 127238
PO No.:

Attn: Charles Green

ELAP No.1247-Expires July 2016

RE: RPP-W1D1 20154800.002A Task 01

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	SR1-NCL-1-1
02A	CBD5-NCL-1-1
03A	CBD1-NCL-1-1
04A	BS1-NCL-1-1
05A	SSB-NCL-1-1

ND = Not Detected at the Reporting Limit

Limit = Reporting Limit

Flag = Explanation in Case Narrative

All solid results are expressed on a wet-weight basis unless otherwise noted.

Approved for release by:

Roxanne Moore, Project Manager

Date: 05-May-2016
WorkOrder: 1604512

ANALYTICAL REPORT

Client Sample ID: SR1-NCL-1-1 **Received:** 4/29/2016
Lab ID: 1604512-01A **Collected:** 4/26/2016 8:15

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.51	µg/L	1.0	5/2/2016	5/3/2016

Client Sample ID: CBD5-NCL-1-1 **Received:** 4/29/2016
Lab ID: 1604512-02A **Collected:** 4/26/2016 11:15

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.51	µg/L	1.0	5/2/2016	5/3/2016

Client Sample ID: CBD1-NCL-1-1 **Received:** 4/29/2016
Lab ID: 1604512-03A **Collected:** 4/26/2016 14:15

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.52	µg/L	1.0	5/2/2016	5/3/2016

Client Sample ID: BS1-NCL-1-1 **Received:** 4/29/2016
Lab ID: 1604512-04A **Collected:** 4/27/2016 10:10

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.50	µg/L	1.0	5/2/2016	5/3/2016

Client Sample ID: SSB-NCL-1-1 **Received:** 4/29/2016
Lab ID: 1604512-05A **Collected:** 4/27/2016 12:55

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.50	µg/L	1.0	5/2/2016	5/3/2016

North Coast Laboratories, Ltd.

Date: 5/5/2016

CLIENT: Valent USA Corporation
Work Order: 1604512
Project: RPP-W1D1 20154800.002A Task 01

QC SUMMARY REPORT

Method Blank

Sample ID **MB-33293** Batch ID: **33293** Test Code: **THIOW** Units: **µg/L** Analysis Date **5/3/2016 7:15:54 PM** Prep Date **5/2/2016**

Client ID: Run ID: **ORLCMSMS1_160503A** SeqNo: **1244024**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	ND	0.50									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

North Coast Laboratories, Ltd.

Date: 5/5/2016

CLIENT: Valent USA Corporation
Work Order: 1604512
Project: RPP-W1D1 20154800.002A Task 01

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID **LCS-33293** Batch ID: **33293** Test Code: **THIOW** Units: **µg/L** Analysis Date **5/3/2016 7:53:23 PM** Prep Date **5/2/2016**
Client ID: Run ID: **ORLCMSMS1_160503A** SeqNo: **1244026**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	0.8278	0.50	1.00	0	82.8%	70	120	0			

Sample ID **LCSD-33293** Batch ID: **33293** Test Code: **THIOW** Units: **µg/L** Analysis Date **5/3/2016 8:12:07 PM** Prep Date **5/2/2016**
Client ID: Run ID: **ORLCMSMS1_160503A** SeqNo: **1244027**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	0.9408	0.50	1.00	0	94.1%	70	120	0.828	12.8%	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

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COC# 907161

1604512

Page 1 of 2

Project No.	Project Name
20154800.002A Task 01	RPP- W1D1

L.P. No. (PO No.)

Samplers: (Signature/Number) Feng Lo 11075

Receiving Lab:
North Coast Laboratories
5680 West End Rd., Arcata CA 95521
Attn: Roxanne Moore (707) 822-4649

Instructions/Remarks

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb											Instructions/Remarks
1	04/26/16	0815	SR1-NCL-1-1	W	1	500 mL	X											
2	04/26/16	1115	CBD5-NCL-1-1	W	1	500 mL	X											
3	04/26/16	1415	CBD1-NCL-1-1	W	1	500 mL	X											
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		

Relinquished By:	Date/Time	Received By:	Instructions/Remarks	Send Results To:
[signature]	4/26/16 1050	Sample Control Room #3	Standard TAT	rfiroved@calrice.org jenny.krenz@CH2M.com criddle@kleinfelder.com
Relinquished By: [signature] Sample Control	4-28-16 1530	Received By: Fed Ex		
Relinquished By:	Date/Time	Received By: [signature] 4/29/16	1300	

2.0°C

CHAIN-OF-CUSTODY

1604512

KLEINFELDER
Bright People. Right Solutions.

COC# 907161

Page 2 of 2

Project No.	Project Name
20154800.002A Task 01	RPP- W1D1

L.P. No. (PO No.):

Samplers: (Signature/Number): Sergio 1195

Receiving Lab:
North Coast Laboratories
5680 West End Rd., Arcata CA 95521
Attn: Roxanne Moore (707) 822-4649

Instructions/Remarks

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb										
1	04/27/16	1010	BS1-NCL-1-1	W	1	500 mL	X										
2	04/27/16	1255	SSB-NCL-1-1	W	1	500 mL	X										
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	

Relinquished By:	Date/Time	Received By:	Instructions/Remarks	Send Results To:
[signature]	4/27/16 1650	Sample Control Room #3	standard TAT	rfiroved@calrice.org jenny.krenz@CH2M.com criddle@kleinfelder.com
[signature] Sample Control	4/28/16 1530	Fed Ex		
		[signature] 4/29/16 1300 2.0°C		

CHAIN-OF-CUSTODY

NORTH COAST LABORATORIES LTD.

May 12, 2016

Valent USA Corporation
6560 Trinity Court
Dublin, CA 94568

Order No.: 1605060
Invoice No.: 127374
PO No.: CR-2422/VP-39250

Attn: Charles Green

ELAP No.1247-Expires July 2016

RE: RPP-W2D1 20154800.002A Task 01

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	SR1-NCL-2-1
02A	SSB-NCL-2-1
03A	BS1-NCL-2-1
04A	CBD5-NCL-2-1
05A	CBD1-NCL-2-1

ND = Not Detected at the Reporting Limit

Limit = Reporting Limit

Flag = Explanation in Case Narrative

All solid results are expressed on a wet-weight basis unless otherwise noted.

Approved for release by:

Roxanne Moore, Project Manager

Date: 12-May-2016
WorkOrder: 1605060

ANALYTICAL REPORT

Client Sample ID: SR1-NCL-2-1 **Received:** 5/4/2016
Lab ID: 1605060-01A **Collected:** 5/3/2016 7:50

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.50	µg/L	1.0	5/5/2016	5/10/2016

Client Sample ID: SSB-NCL-2-1 **Received:** 5/4/2016
Lab ID: 1605060-02A **Collected:** 5/3/2016 8:55

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.50	µg/L	1.0	5/5/2016	5/10/2016

Client Sample ID: BS1-NCL-2-1 **Received:** 5/4/2016
Lab ID: 1605060-03A **Collected:** 5/3/2016 10:15

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.50	µg/L	1.0	5/5/2016	5/10/2016

Client Sample ID: CBD5-NCL-2-1 **Received:** 5/4/2016
Lab ID: 1605060-04A **Collected:** 5/3/2016 11:50

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.50	µg/L	1.0	5/5/2016	5/10/2016

Client Sample ID: CBD1-NCL-2-1 **Received:** 5/4/2016
Lab ID: 1605060-05A **Collected:** 5/3/2016 13:20

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.50	µg/L	1.0	5/5/2016	5/10/2016

North Coast Laboratories, Ltd.

Date: 5/12/2016

CLIENT: Valent USA Corporation
Work Order: 1605060
Project: RPP-W2D1 20154800.002A Task 01

QC SUMMARY REPORT

Method Blank

Sample ID **MB-33309** Batch ID: **33309** Test Code: **THIOW** Units: **µg/L** Analysis Date **5/10/2016 8:13:17 PM** Prep Date **5/5/2016**

Client ID: Run ID: **ORLCMSMS1_160510A** SeqNo: **1245337**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	ND	0.50									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

North Coast Laboratories, Ltd.

Date: 5/12/2016

CLIENT: Valent USA Corporation
Work Order: 1605060
Project: RPP-W2D1 20154800.002A Task 01

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID **LCS-33309** Batch ID: **33309** Test Code: **THIOW** Units: **µg/L** Analysis Date **5/10/2016 8:50:46 PM** Prep Date **5/5/2016**
Client ID: Run ID: **ORLCMSMS1_160510A** SeqNo: **1245339**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	0.8340	0.50	1.00	0	83.4%	70	120	0			

Sample ID **LCSD-33309** Batch ID: **33309** Test Code: **THIOW** Units: **µg/L** Analysis Date **5/10/2016 9:09:30 PM** Prep Date **5/5/2016**
Client ID: Run ID: **ORLCMSMS1_160510A** SeqNo: **1245340**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	0.9503	0.50	1.00	0	95.0%	70	120	0.834	13.0%	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

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COC# 827879

Page 1 of 1

Project No.	Project Name
20154800.002A Task 01	RPP- W2D1

L.P. No. (PO No.):

Samplers: (Signature/Number): Mark Lee / 01556

Receiving Lab:
North Coast Laboratories
5680 West End Rd., Arcata CA 95521
Attn: Roxanne Moore (707) 822-4649

Instructions/Remarks

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb										
1	05/03/16	0750	SR1-NCL-2-1	W	1	500 mL	X										
2	05/03/16	0855	SSB-NCL-2-1	W	1	500 mL	X										
3	05/03/16	1015	BS1-NCL-2-1	W	1	500 mL	X										
4	05/03/16	1150	CBD5-NCL-2-1	W	1	500 mL	X										
5	05/03/16	1320	CBD1-NCL-2-1	W	1	500 mL	X										
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	

Relinquished By:	Date/Time	Received By:
Mark Lee	5/3/16 1630	Fed Ex
Relinquished By:	Date/Time	Received By: 5/4/16 1022
Relinquished By:	Date/Time	Received By:

Instructions/Remarks
Standard TAT

24° C

Send Results To:
rfiroved@calrice.org
jenny.krenz@CH2M.com
criddle@kleinfelder.com

CHAIN-OF-CUSTODY

NORTH COAST LABORATORIES LTD.

May 20, 2016

Valent USA Corporation
6560 Trinity Court
Dublin, CA 94568

Order No.: 1605265
Invoice No.: 127518
PO No.:

Attn: Charles Green

ELAP No.1247-Expires July 2016

RE: RPP-W3D1 20154800.002A Task 01

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	SR1-NCL-3-1
02A	CBD5-NCL-3-1
03A	CBD1-NCL-3-1
04A	BS1-NCL-3-1
05A	SSB-NCL-3-1
06A	CRC1-NCL-3-1

ND = Not Detected at the Reporting Limit

Limit = Reporting Limit

Flag = Explanation in Case Narrative

All solid results are expressed on a wet-weight basis unless otherwise noted.

Approved for release by:

Roxanne Moore, Project Manager

Date: 20-May-2016
WorkOrder: 1605265

ANALYTICAL REPORT

Client Sample ID: SR1-NCL-3-1 **Received:** 5/13/2016
Lab ID: 1605265-01A **Collected:** 5/10/2016 8:20

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.50	µg/L	0.99	5/16/2016	5/18/2016

Client Sample ID: CBD5-NCL-3-1 **Received:** 5/13/2016
Lab ID: 1605265-02A **Collected:** 5/10/2016 12:15

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	***1.3***		0.49	µg/L	0.97	5/16/2016	5/18/2016

Client Sample ID: CBD1-NCL-3-1 **Received:** 5/13/2016
Lab ID: 1605265-03A **Collected:** 5/10/2016 14:30

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	***0.57***		0.49	µg/L	0.99	5/16/2016	5/18/2016

Client Sample ID: BS1-NCL-3-1 **Received:** 5/13/2016
Lab ID: 1605265-04A **Collected:** 5/11/2016 11:10

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.50	µg/L	1.0	5/16/2016	5/18/2016

Client Sample ID: SSB-NCL-3-1 **Received:** 5/13/2016
Lab ID: 1605265-05A **Collected:** 5/11/2016 14:10

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.50	µg/L	1.0	5/16/2016	5/18/2016

Client Sample ID: CRC1-NCL-3-1 **Received:** 5/13/2016
Lab ID: 1605265-06A **Collected:** 5/11/2016 7:00

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	***1.5***		0.50	µg/L	0.99	5/16/2016	5/19/2016

North Coast Laboratories, Ltd.

Date: 5/20/2016

CLIENT: Valent USA Corporation
Work Order: 1605265
Project: RPP-W3D1 20154800.002A Task 01

QC SUMMARY REPORT

Method Blank

Sample ID **MB-33364** Batch ID: **33364** Test Code: **THIOW** Units: **µg/L** Analysis Date **5/18/2016 8:11:45 PM** Prep Date **5/16/2016**

Client ID: Run ID: **ORLCMSMS1_160518A** SeqNo: **1246970**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	ND	0.50									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

North Coast Laboratories, Ltd.

Date: 5/20/2016

CLIENT: Valent USA Corporation
Work Order: 1605265
Project: RPP-W3D1 20154800.002A Task 01

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID **LCS-33364** Batch ID: **33364** Test Code: **THIOW** Units: **µg/L** Analysis Date **5/18/2016 8:49:14 PM** Prep Date **5/16/2016**
Client ID: Run ID: **ORLCMSMS1_160518A** SeqNo: **1246972**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	0.8126	0.50	1.00	0	81.3%	70	120	0			

Sample ID **LCSD-33364** Batch ID: **33364** Test Code: **THIOW** Units: **µg/L** Analysis Date **5/18/2016 9:07:59 PM** Prep Date **5/16/2016**
Client ID: Run ID: **ORLCMSMS1_160518A** SeqNo: **1246973**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	0.8231	0.50	1.00	0	82.3%	70	120	0.813	1.28%	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

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COC# 713653

1605265

Page 2 of 2

Project No.	Project Name
20154800.002A Task 01	RPP- W3D1

L.P. No. (PO No.):

Samplers: (Signature/Number):

Receiving Lab:
North Coast Laboratories
5680 West End Rd., Arcata CA 95521
Attn: Roxanne Moore (707) 822-4649

Instructions/Remarks:

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb
1	05/11/16	1110	BS1-NCL-3-1	W	1	500 mL	X
2	05/11/16	1410	SSB-NCL-3-1	W	1	500 mL	X
3	05/11/16	0700	CRC1-NCL-3-1	W	1	500 mL	X
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Relinquished By:	Date/Time	Received By:
Mark Ku	5-11-16 | 1700	KLF Sample Control #2
Relinquished By: KLF Sample Control, Mark Ku	5-12-16 | 1630	Received By: Fed Ex
Relinquished By:	Date/Time	Received By:

Instructions/Remarks: Standard TAT

Send Results To:
rfiroved@calrice.org
jenny.krenz@CH2M.com
criddle@kleinfelder.com

5/13/16 1220 3.6°

CHAIN-OF-CUSTODY

1605265

KLEINFELDER
Bright People. Right Solutions.

COC# 713653

Page 1 of 2

Project No.	Project Name
20154800.002A Task 01	RPP- W3D1

L.P. No. (PO No.):

Samplers: (Signature/Number): Mark Lee / 01556

Receiving Lab:
North Coast Laboratories
5680 West End Rd., Arcata CA 95521
Attn: Roxanne Moore (707) 822-4649

Instructions/Remarks

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb											Instructions/Remarks
1	05/10/16	0820	SR1-NCL-3-1	W	1	500 mL	X											
2	05/10/16	1215	CBD5-NCL-3-1	W	1	500 mL	X											
3	05/10/16	1430	CBD1-NCL-3-1	W	1	500 mL	X											
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		

Relinquished By:	Date/Time	Received By:
Mark Lee	5-10-16 / 1750	KLF Sample Control #2
Relinquished By: KLF Sample Control, Mark Lee	5-12-16 / 1630	Received By: Fed Ex
Relinquished By:	Date/Time	Received By:

Instructions/Remarks
Standard TAT

Send Results To:
rfiroved@calrice.org
jenny.krenz@CH2M.com
criddle@kleinfelder.com

5/13/16
1220 3.6°C

ENV-02

CHAIN-OF-CUSTODY

NORTH COAST LABORATORIES LTD.

May 27, 2016

Valent USA Corporation
6560 Trinity Court
Dublin, CA 94568

Order No.: 1605362
Invoice No.: 127639
PO No.: CR-2422/VP-29320

Attn: Charles Green

ELAP No.1247-Expires July 2016

RE: RPP-W4D1 20154800.002A Task 01

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	SR1-NCL-4-1
02A	SSB-NCL-4-1
03A	BS1-NCL-4-1
04A	CBD5-NCL-4-1
05A	CBD1-NCL-4-1

ND = Not Detected at the Reporting Limit

Limit = Reporting Limit

Flag = Explanation in Case Narrative

All solid results are expressed on a wet-weight basis unless otherwise noted.

Approved for release by:

Roxanne Moore, Project Manager

Date: 27-May-2016
WorkOrder: 1605362

ANALYTICAL REPORT

Client Sample ID: SR1-NCL-4-1 **Received:** 5/20/2016
Lab ID: 1605362-01A **Collected:** 5/17/2016 8:05

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.51	µg/L	1.0	5/24/2016	5/25/2016

Client Sample ID: SSB-NCL-4-1 **Received:** 5/20/2016
Lab ID: 1605362-02A **Collected:** 5/17/2016 9:00

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.50	µg/L	1.0	5/24/2016	5/25/2016

Client Sample ID: BS1-NCL-4-1 **Received:** 5/20/2016
Lab ID: 1605362-03A **Collected:** 5/17/2016 10:35

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.51	µg/L	1.0	5/24/2016	5/25/2016

Client Sample ID: CBD5-NCL-4-1 **Received:** 5/20/2016
Lab ID: 1605362-04A **Collected:** 5/17/2016 11:20

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	***1.9***		0.50	µg/L	1.0	5/24/2016	5/25/2016

Client Sample ID: CBD1-NCL-4-1 **Received:** 5/20/2016
Lab ID: 1605362-05A **Collected:** 5/17/2016 12:50

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.50	µg/L	1.0	5/24/2016	5/25/2016

North Coast Laboratories, Ltd.

Date: 5/27/2016

CLIENT: Valent USA Corporation
Work Order: 1605362
Project: RPP-W4D1 20154800.002A Task 01

QC SUMMARY REPORT

Method Blank

Sample ID **MB-33403** Batch ID: **33403** Test Code: **THIOW** Units: **µg/L** Analysis Date **5/25/2016 5:46:07 PM** Prep Date **5/24/2016**

Client ID: Run ID: **ORLCMSMS1_160525A** SeqNo: **1248221**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	ND	0.50									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

North Coast Laboratories, Ltd.

Date: 5/27/2016

CLIENT: Valent USA Corporation
Work Order: 1605362
Project: RPP-W4D1 20154800.002A Task 01

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID **LCS-33403** Batch ID: **33403** Test Code: **THIOW** Units: **µg/L** Analysis Date **5/25/2016 6:04:51 PM** Prep Date **5/24/2016**
Client ID: Run ID: **ORLCMSMS1_160525A** SeqNo: **1248222**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	0.9032	0.50	1.00	0	90.3%	70	120	0			

Sample ID **LCSD-33403** Batch ID: **33403** Test Code: **THIOW** Units: **µg/L** Analysis Date **5/25/2016 6:23:35 PM** Prep Date **5/24/2016**
Client ID: Run ID: **ORLCMSMS1_160525A** SeqNo: **1248223**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	0.8222	0.50	1.00	0	82.2%	70	120	0.903	9.39%	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

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Bright People. Right Solutions.

COC# 161831

Page 1 of 1

1605362

Project No.	Project Name
20154800.002A Task 01	RPP- W4D1

L.P. No. (PO No.):

Samplers: (Signature/Number): Mark Lee / 01556

Receiving Lab:
North Coast Laboratories
5680 West End Rd., Arcata CA 95521
Attn: Roxanne Moore (707) 822-4649

Instructions/Remarks

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb										
1	05/17/16	0805	SR1-NCL-4-1	W	1	500 mL Amber	X										
2	05/17/16	0900	SSB-NCL-4-1	W	1	500 mL Amber	X										
3	05/17/16	1035	BS1-NCL-4-1	W	1	500 mL Amber	X										
4	05/17/16	1120	CBD5-NCL-4-1	W	1	500 mL Amber	X										
5	05/17/16	1250	CBD1-NCL-4-1	W	1	500 mL Amber	X										
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	

Relinquished By:	Date/Time	Received By:
Mark Lee	5-17-16 | 1430	KLF Sample Control #2
Sample Control	5/19/16 | 1330	Fed EX

Instructions/Remarks
Standard TAT

5/20/16 1208 9.4°C

Send Results To:
rfiroved@calrice.org
jenny.krenz@CH2M.com
criddle@kleinfelder.com

CHAIN-OF-CUSTODY

NORTH COAST LABORATORIES LTD.

May 27, 2016

Valent USA Corporation
6560 Trinity Court
Dublin, CA 94568

Attn: Charles Green

Order No.: 1605363
Invoice No.: 127640
PO No.: CR-2422/VP-29320
ELAP No.1247-Expires July 2016

RE: RPP-W4D2 20154800.002A Task 01

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	SR1-NCL-4-2
02A	SSB-NCL-4-2
03A	BS1-NCL-4-2
04A	CBD5-NCL-4-2
05A	CBD1-NCL-4-2

ND = Not Detected at the Reporting Limit

Limit = Reporting Limit

Flag = Explanation in Case Narrative

All solid results are expressed on a wet-weight basis unless otherwise noted.

Approved for release by:

Roxanne Moore, Project Manager

Date: 27-May-2016
WorkOrder: 1605363

ANALYTICAL REPORT

Client Sample ID: SR1-NCL-4-2 **Received:** 5/20/2016
Lab ID: 1605363-01A **Collected:** 5/19/2016 6:20

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.50	µg/L	1.0	5/24/2016	5/25/2016

Client Sample ID: SSB-NCL-4-2 **Received:** 5/20/2016
Lab ID: 1605363-02A **Collected:** 5/19/2016 8:55

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.51	µg/L	1.0	5/24/2016	5/25/2016

Client Sample ID: BS1-NCL-4-2 **Received:** 5/20/2016
Lab ID: 1605363-03A **Collected:** 5/19/2016 10:40

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.51	µg/L	1.0	5/24/2016	5/25/2016

Client Sample ID: CBD5-NCL-4-2 **Received:** 5/20/2016
Lab ID: 1605363-04A **Collected:** 5/19/2016 11:20

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	***1.5***		0.50	µg/L	1.0	5/24/2016	5/25/2016

Client Sample ID: CBD1-NCL-4-2 **Received:** 5/20/2016
Lab ID: 1605363-05A **Collected:** 5/19/2016 9:25

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.50	µg/L	1.0	5/24/2016	5/25/2016

North Coast Laboratories, Ltd.

Date: 5/27/2016

CLIENT: Valent USA Corporation
Work Order: 1605363
Project: RPP-W4D2 20154800.002A Task 01

QC SUMMARY REPORT

Method Blank

Sample ID **MB-33403** Batch ID: **33403** Test Code: **THIOW** Units: **µg/L** Analysis Date **5/25/2016 5:46:07 PM** Prep Date **5/24/2016**

Client ID: Run ID: **ORLCMSMS1_160525A** SeqNo: **1248221**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	ND	0.50									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

North Coast Laboratories, Ltd.

Date: 5/27/2016

CLIENT: Valent USA Corporation
Work Order: 1605363
Project: RPP-W4D2 20154800.002A Task 01

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID **LCS-33403** Batch ID: **33403** Test Code: **THIOW** Units: **µg/L** Analysis Date **5/25/2016 6:04:51 PM** Prep Date **5/24/2016**
Client ID: Run ID: **ORLCMSMS1_160525A** SeqNo: **1248222**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	0.9032	0.50	1.00	0	90.3%	70	120	0			

Sample ID **LCSD-33403** Batch ID: **33403** Test Code: **THIOW** Units: **µg/L** Analysis Date **5/25/2016 6:23:35 PM** Prep Date **5/24/2016**
Client ID: Run ID: **ORLCMSMS1_160525A** SeqNo: **1248223**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	0.8222	0.50	1.00	0	82.2%	70	120	0.903	9.39%	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

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COC# 444516

Page 1 of 1

1605363

Project No.	Project Name
20154800.002A Task 01	RPP- W4D2

L.P. No. (PO No.):

Samplers: (Signature/Number): ~~Mark Lee / 01556~~ SiL. Seng Lo / 11075

Receiving Lab:
North Coast Laboratories
5680 West End Rd., Arcata CA 95521
Attn: Roxanne Moore (707) 822-4649

Instructions/Remarks

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb											Instructions/Remarks
1	05/19/16	0620	SR1-NCL-4-2	W	1	500 mL Amber	X											
2	05/19/16	0855	SSB-NCL-4-2	W	1	500 mL Amber	X											
3	05/19/16	1040	BS1-NCL-4-2	W	1	500 mL Amber	X											
4	05/19/16	1120	CBD5-NCL-4-2	W	1	500 mL Amber	X											
5	05/19/16	0925	CBD1-NCL-4-2	W	1	500 mL Amber	X											
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		

Relinquished By:	Date/Time	Received By:
	5/19/16 1330	Fed EX
Relinquished By:	Date/Time	Received By:
		5/20/16 1208
Relinquished By:	Date/Time	Received By:

Instructions/Remarks
Standard TAT

4.2°C

Send Results To:
rfiroved@calrice.org
jenny.krenz@CH2M.com
criddle@kleinfelder.com

CHAIN-OF-CUSTODY

NORTH COAST LABORATORIES LTD.

June 08, 2016

Valent USA Corporation
6560 Trinity Court
Dublin, CA 94568

Order No.: 1605485
Invoice No.: 127814
PO No.: CR-2422/VP-29320

Attn: Charles Green

ELAP No.1247-Expires July 2016

RE: RPP-W5D1 and W5D2 20154800.002A Task 01

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	SR1-NCL-5-1
02A	CBD5-NCL-5-1
03A	CBD1-NCL-5-1
04A	BS1-NCL-5-1
05A	SSB-NCL-5-1
06A	SR1-NCL-5-2
07A	SSB-NCL-5-2
08A	BS1-NCL-5-2
09A	CBD5-NCL-5-2
10A	CBD1-NCL-5-2

ND = Not Detected at the Reporting Limit

Limit = Reporting Limit

Flag = Explanation in Case Narrative

All solid results are expressed on a wet-weight basis unless otherwise noted.

Approved for release by:

Roxanne Moore, Project Manager

Date: 08-Jun-2016
WorkOrder: 1605485

ANALYTICAL REPORT

Client Sample ID: SR1-NCL-5-1 **Received:** 5/27/2016
Lab ID: 1605485-01A **Collected:** 5/24/2016 7:50

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.50	µg/L	1.0	5/27/2016	6/7/2016

Client Sample ID: CBD5-NCL-5-1 **Received:** 5/27/2016
Lab ID: 1605485-02A **Collected:** 5/24/2016 11:40

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	***11***		0.51	µg/L	1.0	5/27/2016	6/7/2016

Client Sample ID: CBD1-NCL-5-1 **Received:** 5/27/2016
Lab ID: 1605485-03A **Collected:** 5/24/2016 13:30

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	***3.2***		0.50	µg/L	1.0	5/27/2016	6/7/2016

Client Sample ID: BS1-NCL-5-1 **Received:** 5/27/2016
Lab ID: 1605485-04A **Collected:** 5/25/2016 10:40

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.50	µg/L	1.0	5/27/2016	6/7/2016

Client Sample ID: SSB-NCL-5-1 **Received:** 5/27/2016
Lab ID: 1605485-05A **Collected:** 5/25/2016 13:20

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.51	µg/L	1.0	5/27/2016	6/7/2016

Client Sample ID: SR1-NCL-5-2 **Received:** 5/27/2016
Lab ID: 1605485-06A **Collected:** 5/26/2016 6:20

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.51	µg/L	1.0	5/27/2016	6/7/2016

Client Sample ID: SSB-NCL-5-2 **Received:** 5/27/2016
Lab ID: 1605485-07A **Collected:** 5/26/2016 7:30

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.50	µg/L	1.0	5/27/2016	6/7/2016

Date: 08-Jun-2016
WorkOrder: 1605485

ANALYTICAL REPORT

Client Sample ID: BS1-NCL-5-2 **Received:** 5/27/2016
Lab ID: 1605485-08A **Collected:** 5/26/2016 8:35

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.51	µg/L	1.0	5/27/2016	6/7/2016

Client Sample ID: CBD5-NCL-5-2 **Received:** 5/27/2016
Lab ID: 1605485-09A **Collected:** 5/26/2016 9:35

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	***2.2***		0.51	µg/L	1.0	5/27/2016	6/7/2016

Client Sample ID: CBD1-NCL-5-2 **Received:** 5/27/2016
Lab ID: 1605485-10A **Collected:** 5/26/2016 10:40

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	***2.8***		0.51	µg/L	1.0	5/27/2016	6/8/2016

North Coast Laboratories, Ltd.

Date: 6/8/2016

CLIENT: Valent USA Corporation
Work Order: 1605485
Project: RPP-W5D1 and W5D2 20154800.002A Task 0

QC SUMMARY REPORT

Method Blank

Sample ID **MB-33420** Batch ID: **33420** Test Code: **THIOW** Units: **µg/L** Analysis Date **6/7/2016 7:39:42 PM** Prep Date **5/27/2016**

Client ID: Run ID: **ORLCMSMS1_160607A** SeqNo: **1250078**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	ND	0.50									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

North Coast Laboratories, Ltd.

Date: 6/8/2016

CLIENT: Valent USA Corporation
Work Order: 1605485
Project: RPP-W5D1 and W5D2 20154800.002A Task 0

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID **LCS-33420** Batch ID: **33420** Test Code: **THIOW** Units: **µg/L** Analysis Date **6/7/2016 7:58:27 PM** Prep Date **5/27/2016**
Client ID: Run ID: **ORLCMSMS1_160607A** SeqNo: **1250079**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	0.9505	0.50	1.00	0	95.0%	70	120	0			

Sample ID **LCSD-33420** Batch ID: **33420** Test Code: **THIOW** Units: **µg/L** Analysis Date **6/7/2016 8:17:11 PM** Prep Date **5/27/2016**
Client ID: Run ID: **ORLCMSMS1_160607A** SeqNo: **1250080**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	0.9589	0.50	1.00	0	95.9%	70	120	0.950	0.880%	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

1605485

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COC# 258535

Page 1 of 2

Project No.	Project Name
20154800.002A Task 01	RPP- W5D1

L.P. No. (PO No.):

Samplers: (Signature/Number): Mark Lee / 01556

Receiving Lab:
North Coast Laboratories
5680 West End Rd., Arcata CA 95521
Attn: Roxanne Moore (707) 822-4649

Instructions/Remarks

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb											
1	05/24/16	0750	SR1-NCL-5-1	W	1	500 mL	X											
2	05/24/16	1140	CBD5-NCL-5-1	W	1	500 mL	X											
3	05/24/16	1330	CBD1-NCL-5-1	W	1	500 mL	X											
4																		
5																		
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7																		
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11																		
12																		
13																		
14																		
15																		

Relinquished By:	Date/Time	Received By:
Mark Lee	5/24/16 1600	KLR Sample Control
Relinquished By: KLR Sample Control / Mark Lee	5/24/16 1430	Received By: Fed Ex
Relinquished By:	Date/Time	Received By: 5/27/16 1137

Instructions/Remarks
Standard TAT

Send Results To:
rfiroved@calrice.org
jenny.krenz@CH2M.com
criddle@kleinfelder.com

1-6 °C on ice

CHAIN-OF-CUSTODY

1605485

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COC# 258535

Page 2 of 2

Project No.	Project Name
20154800.002A Task 01	RPP- W5D1

L.P. No. (PO No.)

Samplers: (Signature/Number)

Receiving Lab:
North Coast Laboratories
5680 West End Rd., Arcata CA 95521
Attn: Roxanne Moore (707) 822-4649

Instructions/Remarks

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb											
1	05/25/16	1040	BS1-NCL-5-1	W	1	500 mL	X											
2	05/25/16	1320	SSB-NCL-5-1	W	1	500 mL	X											
3																		
4																		
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12																		
13																		
14																		
15																		

Relinquished By:	Date/Time	Received By:
Marsh	5-25-16 1600	KLF Sample Control
Relinquished By: KLF Sample Control / Marsh	Date/Time 5-26-16 1430	Received By: Fed Ex
Relinquished By:	Date/Time	Received By: 5/27/16 1137

Instructions/Remarks

Send Results To:
rfiroved@calrice.org
jenny.krenz@CH2M.com
criddle@kleinfelder.com

1.6 °C onice

CHAIN-OF-CUSTODY

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COC# 111379

Project No.	Project Name
20154800.002A Task 01	RPP- W5D2

L.P. No. (PO No.)

Samplers: (Signature/Number)
Mark Lee / 01556

Receiving Lab:
North Coast Laboratories
5680 West End Rd., Arcata CA 95521
Attn: Roxanne Moore (707) 822-4649

Instructions/Remarks

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb
1	05/26/16	0620	SR1-NCL-5-2	W	1	500 mL Amber	X
2	05/26/16	0730	SSB-NCL-5-2	W	1	500 mL Amber	X
3	05/26/16	0835	BS1-NCL-5-2	W	1	500 mL Amber	X
4	05/26/16	0935	CBD5-NCL-5-2	W	1	500 mL Amber	X
5	05/26/16	1040	CBD1-NCL-5-2	W	1	500 mL Amber	X
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Relinquished By:	Date/Time	Received By:
Mark Lee	5/26/16 1430	Fed Ex
		5/27/16 1137

Instructions/Remarks
Standard TAT

Send Results To:
rfiroved@calrice.org
jenny.krenz@CH2M.com
criddle@kleinfelder.com

1.6°C on ice

CHAIN-OF-CUSTODY

NORTH COAST LABORATORIES LTD.

June 08, 2016

Valent USA Corporation
6560 Trinity Court
Dublin, CA 94568

Order No.: 1606050
Invoice No.: 127815
PO No.: CR-2422/VP-29320

Attn: Charles Green

ELAP No.1247-Expires July 2016

RE: RPP-W6D1 and W6D2 20154800.002A Task 01

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	SR1-NCL-6-1
02A	SSB-NCL-6-1
03A	BS1-NCL-6-1
04A	CBD5-NCL-6-1
05A	CBD1-NCL-6-1
06A	N-B-6-1
07A	Rd68-B-6-1
08A	SR1-NCL-6-2
09A	CBD1-NCL-6-2
10A	N-NCL-6-2
11A	Rd.68-NCL-6-2
12A	CBD5-NCL-6-2
13A	BS1-NCL-6-2
14A	SSB-NCL-6-2

ND = Not Detected at the Reporting Limit

Limit = Reporting Limit

Flag = Explanation in Case Narrative

All solid results are expressed on a wet-weight basis unless otherwise noted.

Approved for release by:

Roxanne Moore, Project Manager

Date: 08-Jun-2016
WorkOrder: 1606050

ANALYTICAL REPORT

Client Sample ID: SR1-NCL-6-1 **Received:** 6/3/2016
Lab ID: 1606050-01A **Collected:** 5/31/2016 7:10

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.52	µg/L	1.0	6/6/2016	6/8/2016

Client Sample ID: SSB-NCL-6-1 **Received:** 6/3/2016
Lab ID: 1606050-02A **Collected:** 5/31/2016 13:15

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.51	µg/L	1.0	6/6/2016	6/8/2016

Client Sample ID: BS1-NCL-6-1 **Received:** 6/3/2016
Lab ID: 1606050-03A **Collected:** 5/31/2016 12:15

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	***1.1***		0.51	µg/L	1.0	6/6/2016	6/8/2016

Client Sample ID: CBD5-NCL-6-1 **Received:** 6/3/2016
Lab ID: 1606050-04A **Collected:** 5/31/2016 11:30

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	***0.57***		0.50	µg/L	1.0	6/6/2016	6/8/2016

Client Sample ID: CBD1-NCL-6-1 **Received:** 6/3/2016
Lab ID: 1606050-05A **Collected:** 5/31/2016 8:10

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.51	µg/L	1.0	6/6/2016	6/8/2016

Client Sample ID: N-B-6-1 **Received:** 6/3/2016
Lab ID: 1606050-06A **Collected:** 5/31/2016 9:40

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.50	µg/L	1.0	6/6/2016	6/8/2016

Client Sample ID: Rd68-B-6-1 **Received:** 6/3/2016
Lab ID: 1606050-07A **Collected:** 5/31/2016 10:20

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	***1.9***		0.51	µg/L	1.0	6/6/2016	6/8/2016

Date: 08-Jun-2016
WorkOrder: 1606050

ANALYTICAL REPORT

Client Sample ID: SR1-NCL-6-2 **Received:** 6/3/2016
Lab ID: 1606050-08A **Collected:** 6/2/2016 6:40

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.51	µg/L	1.0	6/6/2016	6/8/2016

Client Sample ID: CBD1-NCL-6-2 **Received:** 6/3/2016
Lab ID: 1606050-09A **Collected:** 6/2/2016 7:40

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	***0.61***		0.51	µg/L	1.0	6/6/2016	6/8/2016

Client Sample ID: N-NCL-6-2 **Received:** 6/3/2016
Lab ID: 1606050-10A **Collected:** 6/2/2016 9:25

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	***1.6***		0.50	µg/L	1.0	6/6/2016	6/8/2016

Client Sample ID: Rd.68-NCL-6-2 **Received:** 6/3/2016
Lab ID: 1606050-11A **Collected:** 6/2/2016 10:00

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	***0.58***		0.50	µg/L	1.0	6/6/2016	6/8/2016

Client Sample ID: CBD5-NCL-6-2 **Received:** 6/3/2016
Lab ID: 1606050-12A **Collected:** 6/2/2016 10:45

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.51	µg/L	1.0	6/6/2016	6/8/2016

Client Sample ID: BS1-NCL-6-2 **Received:** 6/3/2016
Lab ID: 1606050-13A **Collected:** 6/2/2016 11:20

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	***0.94***		0.50	µg/L	1.0	6/6/2016	6/8/2016

Client Sample ID: SSB-NCL-6-2 **Received:** 6/3/2016
Lab ID: 1606050-14A **Collected:** 6/2/2016 12:30

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.51	µg/L	1.0	6/6/2016	6/8/2016

North Coast Laboratories, Ltd.

Date: 6/8/2016

CLIENT: Valent USA Corporation
Work Order: 1606050
Project: RPP-W6D1 and W6D2 20154800.002A Task 0

QC SUMMARY REPORT

Method Blank

Sample ID **MB-33447** Batch ID: **33447** Test Code: **THIOW** Units: **µg/L** Analysis Date **6/8/2016 12:20:56 AM** Prep Date **6/6/2016**

Client ID: Run ID: **ORLCMSMS1_160607A** SeqNo: **1250093**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	ND	0.50									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

North Coast Laboratories, Ltd.

Date: 6/8/2016

CLIENT: Valent USA Corporation
Work Order: 1606050
Project: RPP-W6D1 and W6D2 20154800.002A Task 0

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID **LCS-33447** Batch ID: **33447** Test Code: **THIOW** Units: **µg/L** Analysis Date **6/8/2016 12:39:43 AM** Prep Date **6/6/2016**
Client ID: Run ID: **ORLCMSMS1_160607A** SeqNo: **1250094**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	0.9393	0.50	1.00	0	93.9%	70	120	0			

Sample ID **LCSD-33447** Batch ID: **33447** Test Code: **THIOW** Units: **µg/L** Analysis Date **6/8/2016 12:58:29 AM** Prep Date **6/6/2016**
Client ID: Run ID: **ORLCMSMS1_160607A** SeqNo: **1250095**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	0.9205	0.50	1.00	0	92.0%	70	120	0.939	2.02%	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

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COC# 282875

Page 1 of 1

Project No.	Project Name
20154800.002A Task 01	RPP- W6D1

L.P. No. (PO No.)

Samplers: (Signature/Number)
Mark Lee / 01556

Receiving Lab:
North Coast Laboratories
5680 West End Rd., Arcata CA 95521
Attn: Roxanne Moore (707) 822-4649

Instructions/Remarks

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb
1	05/31/16	0710	SR1-NCL-6-1	W	1	500 mL Amber	X
2	05/31/16	1315	SSB-NCL-6-1	W	1	500 mL Amber	X
3	05/31/16	1215	BS1-NCL-6-1	W	1	500 mL Amber	X
4	05/31/16	1130	CBD5-NCL-6-1	W	1	500 mL Amber	X
5	05/31/16	0810	CBD1-NCL-6-1	W	1	500 mL Amber	X
6	↓	0940	N-B-6-1	↓	↓	↓	↓
7	↓	1020	RD68-B-6-1	↓	↓	↓	↓
8							
9							
10							
11							
12							
13							
14							
15							

Mark Lee

Relinquished By:	Date/Time	Received By:
Mark Lee	5/31/16 1430	KLR Sample Control
KLR Sample Control / Mark Lee	6/2/16 1830	Fed Ex
		6/3/14 1300

Instructions/Remarks
Standard TAT

2-8°C

Send Results To:
rfiroved@calrice.org
jenny.krenz@CH2M.com
criddle@kleinfelder.com

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KLEINFELDER
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COC# 567396

Page 1 of 1

Project No.	Project Name
20154800.002A Task 01	RPP- W6D2

L.P. No. (PO No.):

Samplers: (Signature/Number): Mark Lee / 01556

Receiving Lab:
North Coast Laboratories
5680 West End Rd., Arcata CA 95521
Attn: Roxanne Moore (707) 822-4649

Instructions/Remarks

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb
1	06/02/16	0640	SR1-NCL-6-2	W	1	500 mL Amber	X
2	06/02/16	0740	CBD1-NCL-6-2	W	1	500 mL Amber	X
3	06/02/16	0925	N-NCL-6-2	W	1	500 mL Amber	X
4	06/02/16	1000	Rd.68-NCL-6-2	W	1	500 mL Amber	X
5	06/02/16	1045	CBD5-NCL-6-2	W	1	500 mL Amber	X
6	06/02/16	1120	BS1-NCL-6-2	W	1	500 mL Amber	X
7	06/02/16	1230	SSB-NCL-6-2	W	1	500 mL Amber	X
8							
9							
10							
11							
12							
13							
14							
15							

Mark Lee

Relinquished By:	Date/Time	Received By:
Mark Lee	6-2-16 1530	Fed Ex
Relinquished By:	Date/Time	Received By:
		6/3/16 1300
Relinquished By:	Date/Time	Received By:

Instructions/Remarks
Standard TAT

2-8°C

Send Results To:
rfiroved@calrice.org
jenny.krenz@CH2M.com
criddle@kleinfelder.com

CHAIN-OF-CUSTODY

NORTH COAST LABORATORIES LTD.

June 17, 2016

Valent USA Corporation
6560 Trinity Court
Dublin, CA 94568

Order No.: 1606177
Invoice No.: 127977
PO No.: CR-2422/VP-29320

Attn: Charles Green

ELAP No.1247-Expires July 2016

RE: RPP-W7D1 and W7D2 20154800.002A Task 01

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	SR1-NCL-7-2
02A	SSB-NCL-7-2
03A	BS1-NCL-7-2
04A	CBD5-NCL-7-2
05A	CBD1-NCL-7-2
06A	N-NCL-7-2
07A	Rd68-NCL-7-2
08A	K-NCL-7-2
09A	SR1-NCL-7-1
10A	CBD5-NCL-7-1
11A	CBD1-NCL-7-1
12A	CRC1-NCL-7-1
13A	BS1-NCL-7-1
14A	SSB-NCL-7-1

ND = Not Detected at the Reporting Limit

Limit = Reporting Limit

Flag = Explanation in Case Narrative

All solid results are expressed on a wet-weight basis unless otherwise noted.

Approved for release by:

Roxanne Moore, Project Manager

Date: 17-Jun-2016
WorkOrder: 1606177

ANALYTICAL REPORT

Client Sample ID: SR1-NCL-7-2 **Received:** 6/10/2016
Lab ID: 1606177-01A **Collected:** 6/9/2016 6:35

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.50	µg/L	1.0	6/10/2016	6/16/2016

Client Sample ID: SSB-NCL-7-2 **Received:** 6/10/2016
Lab ID: 1606177-02A **Collected:** 6/9/2016 7:30

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.51	µg/L	1.0	6/10/2016	6/16/2016

Client Sample ID: BS1-NCL-7-2 **Received:** 6/10/2016
Lab ID: 1606177-03A **Collected:** 6/9/2016 8:35

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.51	µg/L	1.0	6/10/2016	6/16/2016

Client Sample ID: CBD5-NCL-7-2 **Received:** 6/10/2016
Lab ID: 1606177-04A **Collected:** 6/9/2016 9:30

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	***0.71***		0.51	µg/L	1.0	6/10/2016	6/16/2016

Client Sample ID: CBD1-NCL-7-2 **Received:** 6/10/2016
Lab ID: 1606177-05A **Collected:** 6/9/2016 10:35

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	***1.0***		0.51	µg/L	1.0	6/10/2016	6/16/2016

Client Sample ID: N-NCL-7-2 **Received:** 6/10/2016
Lab ID: 1606177-06A **Collected:** 6/9/2016 13:20

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.51	µg/L	1.0	6/10/2016	6/16/2016

Client Sample ID: Rd68-NCL-7-2 **Received:** 6/10/2016
Lab ID: 1606177-07A **Collected:** 6/9/2016 13:55

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.51	µg/L	1.0	6/10/2016	6/16/2016

Date: 17-Jun-2016
WorkOrder: 1606177

ANALYTICAL REPORT

Client Sample ID: K-NCL-7-2 **Received:** 6/10/2016
Lab ID: 1606177-08A **Collected:** 6/9/2016 14:40

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	***0.54***		0.51	µg/L	1.0	6/10/2016	6/16/2016

Client Sample ID: SR1-NCL-7-1 **Received:** 6/10/2016
Lab ID: 1606177-09A **Collected:** 6/7/2016 6:55

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.51	µg/L	1.0	6/10/2016	6/16/2016

Client Sample ID: CBD5-NCL-7-1 **Received:** 6/10/2016
Lab ID: 1606177-10A **Collected:** 6/7/2016 10:00

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	***1.0***		0.51	µg/L	1.0	6/10/2016	6/16/2016

Client Sample ID: CBD1-NCL-7-1 **Received:** 6/10/2016
Lab ID: 1606177-11A **Collected:** 6/7/2016 12:20

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	***1.7***		0.51	µg/L	1.0	6/10/2016	6/16/2016

Client Sample ID: CRC1-NCL-7-1 **Received:** 6/10/2016
Lab ID: 1606177-12A **Collected:** 6/7/2016 14:30

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	***1.7***		0.50	µg/L	1.0	6/10/2016	6/16/2016

Client Sample ID: BS1-NCL-7-1 **Received:** 6/10/2016
Lab ID: 1606177-13A **Collected:** 6/8/2016 9:10

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.50	µg/L	1.0	6/10/2016	6/16/2016

Client Sample ID: SSB-NCL-7-1 **Received:** 6/10/2016
Lab ID: 1606177-14A **Collected:** 6/8/2016 12:00

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.51	µg/L	1.0	6/10/2016	6/17/2016

North Coast Laboratories, Ltd.

Date: 6/17/2016

CLIENT: Valent USA Corporation
Work Order: 1606177
Project: RPP-W7D1 and W7D2 20154800.002A Task 0

QC SUMMARY REPORT

Method Blank

Sample ID **MB-33462** Batch ID: **33462** Test Code: **THIOW** Units: **µg/L** Analysis Date **6/16/2016 6:30:41 PM** Prep Date **6/10/2016**

Client ID: Run ID: **ORLCMSMS1_160616A** SeqNo: **1251159**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	ND	0.50									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

North Coast Laboratories, Ltd.

Date: 6/17/2016

CLIENT: Valent USA Corporation
Work Order: 1606177
Project: RPP-W7D1 and W7D2 20154800.002A Task 0

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID **LCS-33462** Batch ID: **33462** Test Code: **THIOW** Units: **µg/L** Analysis Date **6/16/2016 6:49:24 PM** Prep Date **6/10/2016**
Client ID: Run ID: **ORLCMSMS1_160616A** SeqNo: **1251160**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	1.012	0.50	1.00	0	101%	70	120	0			

Sample ID **LCSD-33462** Batch ID: **33462** Test Code: **THIOW** Units: **µg/L** Analysis Date **6/16/2016 7:08:09 PM** Prep Date **6/10/2016**
Client ID: Run ID: **ORLCMSMS1_160616A** SeqNo: **1251161**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	0.9523	0.50	1.00	0	95.2%	70	120	1.01	6.03%	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

1606177

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COC# 229234

Page 1 of 1

Project No.	Project Name
20154800.002A Task 01	RPP- W7D2

L.P. No. (PO No.):

Samplers: (Signature/Number): Mark Lee / 01556

Receiving Lab:
North Coast Laboratories
5680 West End Rd., Arcata CA 95521
Attn: Roxanne Moore (707) 822-4649

Instructions/Remarks

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb
1	06/09/16	0635	SR1-NCL-7-2	W	1	500 mL Amber	X
2	06/09/16	0730	SSB-NCL-7-2	W	1	500 mL Amber	X
3	06/09/16	0835	BS1-NCL-7-2	W	1	500 mL Amber	X
4	06/09/16	0930	CBD5-NCL-7-2	W	1	500 mL Amber	X
5	06/09/16	1035	CBD1-NCL-7-2	W	1	500 mL Amber	X
6	↓	1320	IN-NCL-7-2	↓	↓	↓	X
7	↓	1355	RD68-NCL-7-2	↓	↓	↓	X
8	↓	1440	K-NCL-7-2	↓	↓	↓	X
9							
10							
11							
12							
13							
14							
15							

Mark Lee

Relinquished By:	Date/Time	Received By:
Mark Lee	6-9-16 18:00	Fed Ex
		6/10/16 1220

Instructions/Remarks
Standard TAT
Please send results no later than June 17, 2016
Thank you

Send Results To:
rfiroved@calrice.org
jenny.krenz@CH2M.com
criddle@kleinfelder.com

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COC# 502861

Page 1 of 2

Project No.	Project Name
20154800.002A Task 01	RPP- W7D1

L.P. No. (PO No.)

Samplers: (Signature/Number)
Mark Lee / 01556

Receiving Lab:
North Coast Laboratories
5680 West End Rd., Arcata CA 95521
Attn: Roxanne Moore (707) 822-4649

Instructions/Remarks

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb											Instructions/Remarks
1	06/07/16	0655	SR1-NCL-7-1	W	1	500 mL	X											
2	06/07/16	1000	CBD5-NCL-7-1	W	1	500 mL	X											
3	06/07/16	1220	CBD1-NCL-7-1	W	1	500 mL	X											
4	06/07/16	1430	CRC1-NCL-7-1	W	1	500 mL	X											
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		

Relinquished By:	Date/Time	Received By:
Mark Lee	6-7-16 1445	KLF Sample Control
KLF Sample Control / Mark Lee	6-9-16 1800	Fed Ex
		6/10/16 1220

Instructions/Remarks
Standard TAT

Send Results To:
rfiroved@calrice.org
jenny.krenz@CH2M.com
criddle@kleinfelder.com

1.6°C

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COC# 502861

Page 2 of 2

Project No.	Project Name
20154800.002A Task 01	RPP- W7D1

L.P. No. (PO No.)

Samplers: (Signature/Number)

Receiving Lab:
North Coast Laboratories
5680 West End Rd., Arcata CA 95521
Attn: Roxanne Moore (707) 822-4649

Instructions/Remarks

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb											
1	06/08/16	0910	BS1-NCL-7-1	W	1	500 mL	X											
2	06/08/16	1200	SSB-NCL-7-1	W	1	500 mL	X											
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		

Relinquished By:	Date/Time	Received By:
Mark Ken	6-8-16 1400	KLF Sample Control
Relinquished By: KLF Sample Control / Mark Ken	Date/Time 6-9-16 1800	Received By: Fed Ex
Relinquished By:	Date/Time	Received By: 6/10/16 1220

Instructions/Remarks

Send Results To:
rfiroved@calrice.org
jenny.krenz@CH2M.com
criddle@kleinfelder.com

1-6°C

CHAIN-OF-CUSTODY

NORTH COAST LABORATORIES LTD.

June 23, 2016

Valent USA Corporation
6560 Trinity Court
Dublin, CA 94568

Attn: Charles Green

Order No.: 1606232
Invoice No.: 128053
PO No.: CR-2422/VP-29320
ELAP No.1247-Expires July 2016

RE: RPP-W7D3 and W8D1 20154800.002A Task 01

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	1-NCL-7-3
02A	P-NCL-7-3
03A	Q-NCL-7-3
04A	L-NCL-7-3
05A	SR1-NCL-8-1
06A	SSB-NCL-8-1
07A	BS1-NCL-8-1
08A	CBD5-NCL-8-1
09A	CBD1-NCL-8-1

ND = Not Detected at the Reporting Limit

Limit = Reporting Limit

Flag = Explanation in Case Narrative

All solid results are expressed on a wet-weight basis unless otherwise noted.

Approved for release by:

Roxanne Moore, Project Manager

Date: 23-Jun-2016
WorkOrder: 1606232

ANALYTICAL REPORT

Client Sample ID: 1-NCL-7-3 **Received:** 6/15/2016
Lab ID: 1606232-01A **Collected:** 6/10/2016 10:05

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.51	µg/L	1.0	6/15/2016	6/17/2016

Client Sample ID: P-NCL-7-3 **Received:** 6/15/2016
Lab ID: 1606232-02A **Collected:** 6/10/2016 9:30

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.51	µg/L	1.0	6/15/2016	6/17/2016

Client Sample ID: Q-NCL-7-3 **Received:** 6/15/2016
Lab ID: 1606232-03A **Collected:** 6/10/2016 8:55

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.51	µg/L	1.0	6/15/2016	6/17/2016

Client Sample ID: L-NCL-7-3 **Received:** 6/15/2016
Lab ID: 1606232-04A **Collected:** 6/10/2016 10:55

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.50	µg/L	1.0	6/15/2016	6/17/2016

Client Sample ID: SR1-NCL-8-1 **Received:** 6/15/2016
Lab ID: 1606232-05A **Collected:** 6/14/2016 6:40

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.51	µg/L	1.0	6/15/2016	6/17/2016

Client Sample ID: SSB-NCL-8-1 **Received:** 6/15/2016
Lab ID: 1606232-06A **Collected:** 6/14/2016 7:35

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.52	µg/L	1.0	6/15/2016	6/17/2016

Client Sample ID: BS1-NCL-8-1 **Received:** 6/15/2016
Lab ID: 1606232-07A **Collected:** 6/14/2016 8:35

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.51	µg/L	1.0	6/15/2016	6/17/2016

Date: 23-Jun-2016
WorkOrder: 1606232

ANALYTICAL REPORT

Client Sample ID: CBD5-NCL-8-1 **Received:** 6/15/2016
Lab ID: 1606232-08A **Collected:** 6/14/2016 9:20

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.51	µg/L	1.0	6/15/2016	6/17/2016

Client Sample ID: CBD1-NCL-8-1 **Received:** 6/15/2016
Lab ID: 1606232-09A **Collected:** 6/14/2016 10:25

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.51	µg/L	1.0	6/15/2016	6/17/2016

North Coast Laboratories, Ltd.

Date: 6/23/2016

CLIENT: Valent USA Corporation
Work Order: 1606232
Project: RPP-W7D3 and W8D1 20154800.002A Task 0

QC SUMMARY REPORT

Method Blank

Sample ID **MB-33482** Batch ID: **33482** Test Code: **THIOW** Units: **µg/L** Analysis Date **6/17/2016 12:26:52 AM** Prep Date **6/15/2016**

Client ID: Run ID: **ORLCMSMS1_160616A** SeqNo: **1251178**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	ND	0.50									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

North Coast Laboratories, Ltd.

Date: 6/23/2016

CLIENT: Valent USA Corporation
Work Order: 1606232
Project: RPP-W7D3 and W8D1 20154800.002A Task 0

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID **LCS-33482** Batch ID: **33482** Test Code: **THIOW** Units: **µg/L** Analysis Date **6/17/2016 1:04:21 AM** Prep Date **6/15/2016**
Client ID: Run ID: **ORLCMSMS1_160616A** SeqNo: **1251180**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	0.9775	0.50	1.00	0	97.8%	70	120	0			

Sample ID **LCSD-33482** Batch ID: **33482** Test Code: **THIOW** Units: **µg/L** Analysis Date **6/17/2016 1:23:05 AM** Prep Date **6/15/2016**
Client ID: Run ID: **ORLCMSMS1_160616A** SeqNo: **1251181**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	0.9967	0.50	1.00	0	99.7%	70	120	0.978	1.95%	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

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Bright People. Right Solutions.

COC# 616413

1606232

Page 1 of 1

Project No.	Project Name
20154800.002A Task 01	RPP- W7D3

L.P. No. (PO No.)

Samplers: (Signature/Number)
Mark Lee / 01556

Receiving Lab:
North Coast Laboratories
5680 West End Rd., Arcata CA 95521
Attn: Roxanne Moore (707) 822-4649

Instructions/Remarks
Please provide results by June 21 (run analysis before RPP W8D1 samples)

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb
1	06/10/16	1005	I-NCL-7-3	W	1	500 mL Amber	X
2	06/10/16	0930	P-NCL-7-3	W	1	500 mL Amber	X
3	06/10/16	1055	Q-NCL-7-3	W	1	500 mL Amber	X
4	06/10/16	1055	L-NCL-7-3	W	1	500 mL Amber	X
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Relinquished By:	Date/Time	Received By:
Mark Lee	6-10-16 | 1230	KLF Sample Control
Mark Lee KLF Sample Control	6-14-16 | 1400	Fed Ex
	6/15/16 | 1130	

Instructions/Remarks
Standard TAT

Send Results To:
rfiroved@calrice.org
jenny.krenz@CH2M.com
criddle@kleinfelder.com

Temp 5.6 C

CHAIN-OF-CUSTODY

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COC# 884312

Page 1 of 1

Project No.	Project Name
20154800.002A Task 01	RPP- W8D1

L.P. No. (PO No.):

Samplers: (Signature/Number): Mark Lee / 01556

Receiving Lab:
North Coast Laboratories
5680 West End Rd., Arcata CA 95521
Attn: Roxanne Moore (707) 822-4649

Instructions/Remarks

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb										
1	06/14/16	0640	SR1-NCL-8-1	W	1	500 mL	X										
2	06/14/16	0735	SSB-NCL-8-1	W	1	500 mL	X										
3	06/14/16	0855	BS1-NCL-8-1	W	1	500 mL	X										
4	06/14/16	0920	CBD5-NCL-8-1	W	1	500 mL	X										
5	06/14/16	1025	CBD1-NCL-8-1	W	1	500 mL	X										
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	

Mark Lee

Instructions/Remarks:
Please email results no later than Wed. 6-22-16
Thank you.

Relinquished By:	Date/Time	Received By:
Mark Lee	6-14-16 1400	Fed Ex
	6/15/16 1130	

Instructions/Remarks
Please email results no later than Wed., 6-22-16.

Send Results To:
rfiroved@calrice.org
jenny.krenz@CH2M.com
criddle@kleinfelder.com

CHAIN-OF-CUSTODY

temp 5.6c

NORTH COAST LABORATORIES LTD.

July 01, 2016

Valent USA Corporation
6560 Trinity Court
Dublin, CA 94568

Attn: Charles Green

RE: RPP-W9D1 20154800.002A Task 01

Order No.: 1606364
Invoice No.: 128186
PO No.: CR-2422/VP-29320
ELAP No.1247-Expires July 2016

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	SR1-NCL-9-1
02A	CBD5-NCL-9-1
03A	CBD1-NCL-9-1
04A	BS1-NCL-9-1
05A	SSB-NCL-9-1

ND = Not Detected at the Reporting Limit

Limit = Reporting Limit

Flag = Explanation in Case Narrative

All solid results are expressed on a wet-weight basis unless otherwise noted.

Approved for release by:

Roxanne Moore, Project Manager

Date: 01-Jul-2016
WorkOrder: 1606364

ANALYTICAL REPORT

Client Sample ID: SR1-NCL-9-1 **Received:** 6/23/2016
Lab ID: 1606364-01A **Collected:** 6/21/2016 6:45

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.51	µg/L	1.0	6/24/2016	6/29/2016

Client Sample ID: CBD5-NCL-9-1 **Received:** 6/23/2016
Lab ID: 1606364-02A **Collected:** 6/21/2016 9:10

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.51	µg/L	1.0	6/24/2016	6/29/2016

Client Sample ID: CBD1-NCL-9-1 **Received:** 6/23/2016
Lab ID: 1606364-03A **Collected:** 6/21/2016 11:00

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.51	µg/L	1.0	6/24/2016	6/29/2016

Client Sample ID: BS1-NCL-9-1 **Received:** 6/23/2016
Lab ID: 1606364-04A **Collected:** 6/22/2016 9:05

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	***0.51***		0.51	µg/L	1.0	6/24/2016	6/29/2016

Client Sample ID: SSB-NCL-9-1 **Received:** 6/23/2016
Lab ID: 1606364-05A **Collected:** 6/22/2016 11:25

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.51	µg/L	1.0	6/24/2016	6/29/2016

North Coast Laboratories, Ltd.

Date: 7/1/2016

CLIENT: Valent USA Corporation
Work Order: 1606364
Project: RPP-W9D1 20154800.002A Task 01

QC SUMMARY REPORT

Method Blank

Sample ID **MB-33519** Batch ID: **33519** Test Code: **THIOW** Units: **µg/L** Analysis Date **6/29/2016 6:11:54 PM** Prep Date **6/24/2016**

Client ID: Run ID: **ORLCMSMS1_160629A** SeqNo: **1253005**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	ND	0.50									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

North Coast Laboratories, Ltd.

Date: 7/1/2016

CLIENT: Valent USA Corporation
Work Order: 1606364
Project: RPP-W9D1 20154800.002A Task 01

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID **LCS-33519** Batch ID: **33519** Test Code: **THIOW** Units: **µg/L** Analysis Date **6/29/2016 6:30:39 PM** Prep Date **6/24/2016**
Client ID: Run ID: **ORLCMSMS1_160629A** SeqNo: **1253006**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	1.043	0.50	1.00	0	104%	70	120	0			

Sample ID **LCSD-33519** Batch ID: **33519** Test Code: **THIOW** Units: **µg/L** Analysis Date **6/29/2016 6:49:25 PM** Prep Date **6/24/2016**
Client ID: Run ID: **ORLCMSMS1_160629A** SeqNo: **1253007**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	0.8745	0.50	1.00	0	87.4%	70	120	1.04	17.6%	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

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COC# 909382

1606364 Page 1 of 2

Project No.	Project Name
20154800.002A Task 01	RPP- W9D1

L.P. No. (PO No.)

Samplers: (Signature/Number)
Mark Lee / 01556

Receiving Lab:
North Coast Laboratories
5680 West End Rd., Arcata CA 95521
Attn: Roxanne Moore (707) 822-4649

Instructions/Remarks

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb											Instructions/Remarks
1	06/21/16	0645	SR1-NCL-9-1	W	1	500 mL	X											
2	06/21/16	0910	CBD5-NCL-9-1	W	1	500 mL	X											
3	06/21/16	1100	CBD1-NCL-9-1	W	1	500 mL	X											
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		

Mark Lee

Relinquished By:	Date/Time	Received By:
Mark Lee	6-21-16 1245	KLF Sample Control
Relinquished By: KLF Sample Control / Mark Lee	6-22-16 1630	Received By: Fed Ex
Relinquished By:	Date/Time	Received By: 6/23/16 1135

Instructions/Remarks
Standard TAT

Send Results To:
rfiroved@calrice.org
jenny.krenz@CH2M.com
criddle@kleinfelder.com

1.0°C

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1604364

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COC# 909382

Page 2 of 2

Project No.	Project Name
20154800.002A Task 01	RPP- W9D1

L.P. No. (PO No.):

Samplers: (Signature/Number): Mark Lee/1586

Receiving Lab:
North Coast Laboratories
5680 West End Rd., Arcata CA 95521
Attn: Roxanne Moore (707) 822-4649

Instructions/Remarks

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb
1	06/22/16	0905	BS1-NCL-9-1	W	1	500 mL	X
2	06/22/16	1125	SSB-NCL-9-1	W	1	500 mL	X
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Relinquished By:	Date/Time	Received By:
Mark Lee	6-22-16 1630	Fed Ex
		6/23/16 1135 1.0°C

Instructions/Remarks

Send Results To:
rfiroved@calrice.org
jenny.krenz@CH2M.com
criddle@kleinfelder.com

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NORTH COAST LABORATORIES LTD.

July 01, 2016

Valent USA Corporation
6560 Trinity Court
Dublin, CA 94568

Attn: Charles Green

Order No.: 1606442
Invoice No.: 128192
PO No.: CR-2422/VP-29320
ELAP No.1247-Expires July 2016

RE: RPP-W10D1 20154800.002A Task 01

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	SR1-NCL-10-1
02A	SSB-NCL-10-1
03A	BS1-NCL-10-1
04A	CBD5-NCL-10-1
05A	CBD1-NCL-10-1

ND = Not Detected at the Reporting Limit

Limit = Reporting Limit

Flag = Explanation in Case Narrative

All solid results are expressed on a wet-weight basis unless otherwise noted.

Approved for release by:

Roxanne Moore, Project Manager

Date: 01-Jul-2016
WorkOrder: 1606442

ANALYTICAL REPORT

Client Sample ID: SR1-NCL-10-1 **Received:** 6/29/2016
Lab ID: 1606442-01A **Collected:** 6/28/2016 7:00

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.50	µg/L	0.99	6/29/2016	6/29/2016

Client Sample ID: SSB-NCL-10-1 **Received:** 6/29/2016
Lab ID: 1606442-02A **Collected:** 6/28/2016 8:10

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.51	µg/L	1.0	6/29/2016	6/29/2016

Client Sample ID: BS1-NCL-10-1 **Received:** 6/29/2016
Lab ID: 1606442-03A **Collected:** 6/28/2016 9:10

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.50	µg/L	1.0	6/29/2016	6/29/2016

Client Sample ID: CBD5-NCL-10-1 **Received:** 6/29/2016
Lab ID: 1606442-04A **Collected:** 6/28/2016 9:50

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.50	µg/L	1.0	6/29/2016	6/29/2016

Client Sample ID: CBD1-NCL-10-1 **Received:** 6/29/2016
Lab ID: 1606442-05A **Collected:** 6/28/2016 10:55

Test Name: Thiobencarb **Reference:** RM-16W-5a

Parameter	Result	Flag	Limit	Units	DF	Extracted	Analyzed
Thiobencarb	ND		0.50	µg/L	1.0	6/29/2016	6/30/2016

North Coast Laboratories, Ltd.

Date: 7/1/2016

CLIENT: Valent USA Corporation
Work Order: 1606442
Project: RPP-W10D1 20154800.002A Task 01

QC SUMMARY REPORT

Method Blank

Sample ID **MB-33530** Batch ID: **33530** Test Code: **THIOW** Units: **µg/L** Analysis Date **6/29/2016 9:19:25 PM** Prep Date **6/29/2016**

Client ID: Run ID: **ORLCMSMS1_160629A** SeqNo: **1253015**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	ND	0.50									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

North Coast Laboratories, Ltd.

Date: 7/1/2016

CLIENT: Valent USA Corporation
Work Order: 1606442
Project: RPP-W10D1 20154800.002A Task 01

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID **LCS-33530** Batch ID: **33530** Test Code: **THIOW** Units: **µg/L** Analysis Date **6/29/2016 9:38:10 PM** Prep Date **6/29/2016**
Client ID: Run ID: **ORLCMSMS1_160629A** SeqNo: **1253016**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	0.9696	0.50	1.00	0	97.0%	70	120	0			

Sample ID **LCSD-33530** Batch ID: **33530** Test Code: **THIOW** Units: **µg/L** Analysis Date **6/29/2016 10:15:40 PM** Prep Date **6/29/2016**
Client ID: Run ID: **ORLCMSMS1_160629A** SeqNo: **1253018**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	0.8760	0.50	1.00	0	87.6%	70	120	0.970	10.1%	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

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COC# 358922

Page 1 of 1

Project No.	Project Name
20154800.002A Task 01	RPP- W10D1

L.P. No. (PO No.)

Samplers: (Signature/Number)
Mark Lee / 01556

Receiving Lab:
North Coast Laboratories
5680 West End Rd., Arcata CA 95521
Attn: Roxanne Moore (707) 822-4649

Instructions/Remarks

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb
1	06/28/16	0700	SR1-NCL-10-1	W	1	500 mL	X
2	06/28/16	0810	SSB-NCL-10-1	W	1	500 mL	X
3	06/28/16	0910	BS1-NCL-10-1	W	1	500 mL	X
4	06/28/16	0950	CBD5-NCL-10-1	W	1	500 mL	X
5	06/28/16	1055	CBD1-NCL-10-1	W	1	500 mL	X
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Relinquished By:	Date/Time	Received By:
Mark Lee	6/28/16 1630	Fed Ex
Relinquished By:	Date/Time	Received By: 6/28/16 1208
Relinquished By:	Date/Time	Received By: 4.4°C

Instructions/Remarks
Standard TAT

Send Results To:
rfiroved@calrice.org
jenny.krenz@CH2M.com
criddle@kleinfelder.com

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Appendix F-3
CLS Results

CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

May 05, 2016

CLS Work Order #: CZD1377
COC #: 732451

Craig Riddle
Kleinfelder (Sacramento)
2882 Prospect Park Dr. suite 200
Rancho Cordova, CA 95742

Project Name: RPP-W1D1

Enclosed are the results of analyses for samples received by the laboratory on 04/28/16 08:23. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

James Liang, Ph.D.
Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES

 05/05/16 12:27

Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: RPP-W1D1 Project Number: 20154800.002A Task 01 Project Manager: Craig Riddle	**CLS Work Order #: CZD1377** COC #: 732451

KLEINFELDER

COC# 732451

CZD1377

Page 1 of 1

Project No.	Project Name
20154800.002A Task 01	RPP- W1D1

L.P. No. (PO No.)

Samplers: (Signature/Number) Seng Lo 1145

Receiving Lab:
CLS Labs
3249 Fitzgerald Road
Rancho Cordova, CA 95742
Attn: Scott Furnas
916-638-7301

Instructions/Remarks

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb (EPA 507)										
1	04/26/16	S.L. 1145 | 1345	CBD5-CL-1-1	W	1	1-L Amber	X										QC Sample
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	

Relinquished By	Date/Time	Received By	Instructions/Remarks	Send Results To:
	4/28/16 | 1650	Sample Control Room #3	Standard TAT	criddle@kleinfelder.com sgardner@kleinfelder.com rcohen@kleinfelder.com
	4-28-16 | 0730			
	4-28-16 | 0825	4/28/16 823 (0.3)		

ENV-02

CHAIN-OF-CUSTODY

CALIFORNIA LABORATORY SERVICES

 05/05/16 12:27

Kleinfelder (Sacramento)	Project: RPP-W1D1	
2882 Prospect Park Dr. suite 200	Project Number: 20154800.002A Task 01	**CLS Work Order #: CZD1377**
Rancho Cordova, CA 95742	Project Manager: Craig Riddle	COC #: 732451

Nitrogen/Phosphorus Pesticides by EPA Method 507

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CBD5-CL-1-1 (CZD1377-01) Water Sampled: 04/26/16 13:45 Received: 04/28/16 08:23									
Thiobencarb	ND	1.0	µg/L	1	CZ03068	05/02/16	05/02/16	EPA 507	
Surrogate: EPN		*87 %*		*65-135*	"	"	"	"	

CALIFORNIA LABORATORY SERVICES

 05/05/16 12:27

Kleinfelder (Sacramento)	Project: RPP-W1D1	
2882 Prospect Park Dr. suite 200	Project Number: 20154800.002A Task 01	**CLS Work Order #: CZD1377**
Rancho Cordova, CA 95742	Project Manager: Craig Riddle	COC #: 732451

Nitrogen/Phosphorus Pesticides by EPA Method 507 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CZ03068 - EPA 3510B GCNV										
Blank (CZ03068-BLK1)				Prepared & Analyzed: 05/02/16						
Thiobencarb	ND	1.0	µg/L							
Surrogate: EPN	*2.46*		*"*	*2.50*		*98*	*65-135*			
LCS (CZ03068-BS1)				Prepared & Analyzed: 05/02/16						
Thiobencarb	5.49	1.0	µg/L	5.00		110	75-120			
Surrogate: EPN	*2.34*		*"*	*2.50*		*93*	*65-135*			
LCS Dup (CZ03068-BSD1)				Prepared & Analyzed: 05/02/16						
Thiobencarb	5.85	1.0	µg/L	5.00		117	75-120	6	25	
Surrogate: EPN	*2.28*		*"*	*2.50*		*91*	*65-135*			

CALIFORNIA LABORATORY SERVICES

05/05/16 12:27

Kleinfelder (Sacramento)	Project: RPP-W1D1	
2882 Prospect Park Dr. suite 200	Project Number: 20154800.002A Task 01	**CLS Work Order #: CZD1377**
Rancho Cordova, CA 95742	Project Manager: Craig Riddle	COC #: 732451

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

May 11, 2016

CLS Work Order #: CZE0155
COC #: 206671

Craig Riddle
Kleinfelder (Sacramento)
2882 Prospect Park Dr. suite 200
Rancho Cordova, CA 95742

Project Name: RPP-W2D1

Enclosed are the results of analyses for samples received by the laboratory on 05/04/16 08:00. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

James Liang, Ph.D.
Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES

 05/11/16 12:10

Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: RPP-W2D1 Project Number: 20154800.001A Task 01 Project Manager: Craig Riddle	**CLS Work Order #: CZE0155** COC #: 206671

KLEINFELDER

COC# 206671

CZE 0155

Page 1 of 1

Project No.	Project Name	
20154800.002A Task 01	RPP- W2D1	
L.P. No. (PO No.)	Samplers: (Signature/Number) Mark Lee / 01556	

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb (EPA 507)	Instructions/Remarks
1	05/03/16	1150	CBD5-CL-2-1	W	1	1-L Amber	X	QC Sample
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

Receiving Lab:
CLS Labs
3249 Fitzgerald Road
Rancho Cordova, CA 95742
Attn: Scott Furnas
916-638-7301

Relinquished By:	Date/Time	Received By:
Mark Lee	5/3/16 1445	Sample Control #2
SC#2	5/4/16 730	
	5/4/16 800	W. Alexana 5/4/16 0800 SC

Instructions/Remarks
Standard TAT

Send Results To:
criddle@kleinfelder.com
sgardner@kleinfelder.com
rcohen@kleinfelder.com

ENV-02 CHAIN-OF-CUSTODY

CALIFORNIA LABORATORY SERVICES

05/11/16 12:10

Kleinfelder (Sacramento)	Project: RPP-W2D1	
2882 Prospect Park Dr. suite 200	Project Number: 20154800.001A Task 01	**CLS Work Order #: CZE0155**
Rancho Cordova, CA 95742	Project Manager: Craig Riddle	COC #: 206671

Nitrogen/Phosphorus Pesticides by EPA Method 507

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CBD5-CL-2-1 (CZE0155-01) Water Sampled: 05/03/16 11:50 Received: 05/04/16 08:00									
Thiobencarb	ND	1.0	µg/L	1	CZ03154	05/04/16	05/05/16	EPA 507	
Surrogate: EPN		*82 %*		*65-135*	"	"	"	"	

CALIFORNIA LABORATORY SERVICES

 05/11/16 12:10

Kleinfelder (Sacramento)	Project: RPP-W2D1	
2882 Prospect Park Dr. suite 200	Project Number: 20154800.001A Task 01	**CLS Work Order #: CZE0155**
Rancho Cordova, CA 95742	Project Manager: Craig Riddle	COC #: 206671

Nitrogen/Phosphorus Pesticides by EPA Method 507 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CZ03154 - EPA 3510B GCNV										
Blank (CZ03154-BLK1)				Prepared: 05/04/16 Analyzed: 05/05/16						
Thiobencarb	ND	1.0	µg/L							
Surrogate: EPN	*2.14*		*"*	*2.50*		*86*	*65-135*			
LCS (CZ03154-BS1)				Prepared: 05/04/16 Analyzed: 05/05/16						
Thiobencarb	5.97	1.0	µg/L	5.00		119	75-120			
Surrogate: EPN	*2.31*		*"*	*2.50*		*92*	*65-135*			
LCS Dup (CZ03154-BSD1)				Prepared: 05/04/16 Analyzed: 05/05/16						
Thiobencarb	5.96	1.0	µg/L	5.00		119	75-120	0.05	25	
Surrogate: EPN	*2.28*		*"*	*2.50*		*91*	*65-135*			

Kleinfelder (Sacramento)	Project: RPP-W2D1	
2882 Prospect Park Dr. suite 200	Project Number: 20154800.001A Task 01	**CLS Work Order #: CZE0155**
Rancho Cordova, CA 95742	Project Manager: Craig Riddle	COC #: 206671

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

May 19, 2016

CLS Work Order #: CZE0556
COC #: 926561

Sue Gardner
Kleinfelder (Sacramento)
2882 Prospect Park Dr. suite 200
Rancho Cordova, CA 95742

Project Name: RPP-W3D1

Enclosed are the results of analyses for samples received by the laboratory on 05/12/16 10:25. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

James Liang, Ph.D.
Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES

 05/19/16 15:57

Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: RPP-W3D1 Project Number: 20154800.001A Task 01 Project Manager: Sue Gardner	**CLS Work Order #: CZE0556** COC #: 926561

KLEINFELDER

COC# 926561

CZE0556

Page 1 of 1

Project No.	Project Name	Receiving Lab
20154800.002A Task 01	RPP- W3D1	CLS Labs 3249 Fitzgerald Road Rancho Cordova, CA 95742 Attn: Scott Furnas 916-638-7301
L.P. No. (PO No.)	Samplers: (Signature/Number) Mark Lee / 01556	

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb (EPA 507)	Instructions/Remarks
1	05/11/16	0700	CRC1-CL-3-1	W	1	1-L Amber	X	QC Sample
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

Relinquished By	Date/Time	Received By	Instructions/Remarks	Send Results To
Mark Lee	5-11-16 1700	KLF Sample Control #2	Standard TAT	criddle@kleinfelder.com sgardner@kleinfelder.com rcohen@kleinfelder.com
KLF Sample Control #2	5-12-16 0950	Mark Lee		
Mark Lee	5-12-16 1025	[illegible] 5/12/16 1025		

2.4

ENV-02 CHAIN-OF-CUSTODY

CALIFORNIA LABORATORY SERVICES

05/19/16 15:57

Kleinfelder (Sacramento)	Project: RPP-W3D1	
2882 Prospect Park Dr. suite 200	Project Number: 20154800.001A Task 01	**CLS Work Order #: CZE0556**
Rancho Cordova, CA 95742	Project Manager: Sue Gardner	COC #: 926561

Nitrogen/Phosphorus Pesticides by EPA Method 507

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CRC1-CL-3-1 (CZE0556-01) Water Sampled: 05/11/16 07:00 Received: 05/12/16 10:25									
Thiobencarb	**1.4**	1.0	µg/L	1	CZ03441	05/13/16	05/18/16	EPA 507	
Surrogate: EPN		*94 %*		*65-135*		"	"	"	"

CALIFORNIA LABORATORY SERVICES

 05/19/16 15:57

Kleinfelder (Sacramento)	Project: RPP-W3D1	
2882 Prospect Park Dr. suite 200	Project Number: 20154800.001A Task 01	**CLS Work Order #: CZE0556**
Rancho Cordova, CA 95742	Project Manager: Sue Gardner	COC #: 926561

Nitrogen/Phosphorus Pesticides by EPA Method 507 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CZ03441 - EPA 3510B GCNV										
Blank (CZ03441-BLK1)				Prepared: 05/13/16 Analyzed: 05/18/16						
Thiobencarb	ND	1.0	µg/L							
Surrogate: EPN	*2.45*		*"*	*2.50*		*98*	*65-135*			
LCS (CZ03441-BS1)				Prepared: 05/13/16 Analyzed: 05/18/16						
Thiobencarb	4.75	1.0	µg/L	5.00		95	75-120			
Surrogate: EPN	*2.17*		*"*	*2.50*		*87*	*65-135*			
LCS Dup (CZ03441-BSD1)				Prepared: 05/13/16 Analyzed: 05/18/16						
Thiobencarb	5.78	1.0	µg/L	5.00		116	75-120	20	25	
Surrogate: EPN	*3.21*		*"*	*2.50*		*129*	*65-135*			

CALIFORNIA LABORATORY SERVICES

05/19/16 15:57

Kleinfelder (Sacramento)	Project: RPP-W3D1	
2882 Prospect Park Dr. suite 200	Project Number: 20154800.001A Task 01	**CLS Work Order #: CZE0556**
Rancho Cordova, CA 95742	Project Manager: Sue Gardner	COC #: 926561

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

May 26, 2016

CLS Work Order #: CZE0745
COC #: 971795

Craig Riddle
Kleinfelder (Sacramento)
2882 Prospect Park Dr. suite 200
Rancho Cordova, CA 95742

Project Name: RPP-W4D1

Enclosed are the results of analyses for samples received by the laboratory on 05/17/16 15:50. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

James Liang, Ph.D.
Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES

 05/26/16 09:55

Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: RPP-W4D1 Project Number: 20154800.001A Task 01 Project Manager: Craig Riddle	**CLS Work Order #: CZE0745** COC #: 971795

KLEINFELDER

COC# 971795

CZE0745

Page 1 of 1

Project No.	Project Name	
20154800.002A Task 01	RPP- W4D1	
L.P. No. (PO No.)	Samplers: (Signature/Number) Mark Lee / 01556	

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb (EPA 507)	Instructions/Remarks
1	05/17/16	1035	BS1-CL-4-1	W	1	1-L Amber	X	QC Sample
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

Receiving Lab:
CLS Labs
3249 Fitzgerald Road
Rancho Cordova, CA 95742
Attn: Scott Furnas
916-638-7301

Relinquished By:	Date/Time	Received By:
Relinquished By:	Date/Time	Received By:
Relinquished By: Mark Lee	5-17-16 / 550	Received By: 5/17/16 1550 (GT)

Instructions/Remarks
Standard TAT

Send Results To:
criddle@kleinfelder.com
sgardner@kleinfelder.com
rcohen@kleinfelder.com

ENV-02 **CHAIN-OF-CUSTODY**

CALIFORNIA LABORATORY SERVICES

 05/26/16 09:55

Kleinfelder (Sacramento)	Project: RPP-W4D1	
2882 Prospect Park Dr. suite 200	Project Number: 20154800.001A Task 01	**CLS Work Order #: CZE0745**
Rancho Cordova, CA 95742	Project Manager: Craig Riddle	COC #: 971795

Nitrogen/Phosphorus Pesticides by EPA Method 507

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BS1-CL-4-1 (CZE0745-01) Water Sampled: 05/17/16 10:35 Received: 05/17/16 15:50									
Thiobencarb	ND	1.0	µg/L	1	CZ03631	05/20/16	05/25/16	EPA 507	
Surrogate: EPN		*95 %*		*65-135*		"	"	"	"

CALIFORNIA LABORATORY SERVICES

 05/26/16 09:55

Kleinfelder (Sacramento)	Project: RPP-W4D1	
2882 Prospect Park Dr. suite 200	Project Number: 20154800.001A Task 01	**CLS Work Order #: CZE0745**
Rancho Cordova, CA 95742	Project Manager: Craig Riddle	COC #: 971795

Nitrogen/Phosphorus Pesticides by EPA Method 507 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CZ03631 - EPA 3510B GCNV										
Blank (CZ03631-BLK1)				Prepared: 05/20/16 Analyzed: 05/25/16						
Thiobencarb	ND	1.0	µg/L							
Surrogate: EPN	*2.56*		*"*	*2.50*		*102*	*65-135*			
LCS (CZ03631-BS1)				Prepared: 05/20/16 Analyzed: 05/25/16						
Thiobencarb	5.96	1.0	µg/L	5.00		119	75-120			
Surrogate: EPN	*2.67*		*"*	*2.50*		*107*	*65-135*			
LCS Dup (CZ03631-BSD1)				Prepared: 05/20/16 Analyzed: 05/25/16						
Thiobencarb	5.76	1.0	µg/L	5.00		115	75-120	4	25	
Surrogate: EPN	*2.15*		*"*	*2.50*		*86*	*65-135*			

CALIFORNIA LABORATORY SERVICES

05/26/16 09:55

Kleinfelder (Sacramento)	Project: RPP-W4D1	
2882 Prospect Park Dr. suite 200	Project Number: 20154800.001A Task 01	**CLS Work Order #: CZE0745**
Rancho Cordova, CA 95742	Project Manager: Craig Riddle	COC #: 971795

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

June 03, 2016

CLS Work Order #: CZE1127
COC #: 379799

Sue Gardner
Kleinfelder (Sacramento)
2882 Prospect Park Dr. suite 200
Rancho Cordova, CA 95742

Project Name: RPP-W5D1

Enclosed are the results of analyses for samples received by the laboratory on 05/26/16 14:30. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

James Liang, Ph.D.
Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES

 06/03/16 15:23

Kleinfelder (Sacramento)	Project: RPP-W5D1	
2882 Prospect Park Dr. suite 200	Project Number: 20154800.001A Task 01	**CLS Work Order #: CZE1127**
Rancho Cordova, CA 95742	Project Manager: Sue Gardner	COC #: 379799

KLEINFELDER
Bright People. Right Solutions.

COC# 379799

CZE1127

Page 1 of 1

Project No.: 20154800.002A Task 01

Project Name: RPP- W5D1

L.P. No. (PO No.):

Samplers: (Signature/Number): Mark Lee / 01556

Receiving Lab:
CLS Labs
3249 Fitzgerald Road
Rancho Cordova, CA 95742
Attn: Scott Furnas
916-638-7301

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb (EPA 507)	Instructions/Remarks
1	05/24/16	0750	SR1-CL-5-1	W	1	1-L Amber	X	QC Sample
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

Relinquished By:	Date/Time	Received By:
Mark Lee	5-24-16 1600	KLF Sample Control
Relinquished By: KLF Sample Control	5/24/16 1430	Received By: 5/24/16 1430
Relinquished By:	Date/Time	Received By: Z.L

Instructions/Remarks
Standard TAT

Send Results To:
criddle@kleinfelder.com
sgardner@kleinfelder.com
rcohen@kleinfelder.com

ENV-02 CHAIN-OF-CUSTODY

CALIFORNIA LABORATORY SERVICES

 06/03/16 15:23

Kleinfelder (Sacramento)	Project: RPP-W5D1	
2882 Prospect Park Dr. suite 200	Project Number: 20154800.001A Task 01	**CLS Work Order #: CZE1127**
Rancho Cordova, CA 95742	Project Manager: Sue Gardner	COC #: 379799

Nitrogen/Phosphorus Pesticides by EPA Method 507

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SR1-CL-5-1 (CZE1127-01) Water Sampled: 05/24/16 07:50 Received: 05/26/16 14:30									
Thiobencarb	ND	1.0	µg/L	1	CZ03774	05/27/16	05/31/16	EPA 507	
Surrogate: EPN		*82 %*		*65-135*		"	"	"	"

CALIFORNIA LABORATORY SERVICES

 06/03/16 15:23

Kleinfelder (Sacramento)	Project: RPP-W5D1	
2882 Prospect Park Dr. suite 200	Project Number: 20154800.001A Task 01	**CLS Work Order #: CZE1127**
Rancho Cordova, CA 95742	Project Manager: Sue Gardner	COC #: 379799

Nitrogen/Phosphorus Pesticides by EPA Method 507 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CZ03774 - EPA 3510B GCNV										
Blank (CZ03774-BLK1)				Prepared: 05/27/16 Analyzed: 05/31/16						
Thiobencarb	ND	1.0	µg/L							
Surrogate: EPN	*2.31*		*"*	*2.50*		*92*	*65-135*			
LCS (CZ03774-BS1)				Prepared: 05/27/16 Analyzed: 05/31/16						
Thiobencarb	5.28	1.0	µg/L	5.00		106	75-120			
Surrogate: EPN	*2.18*		*"*	*2.50*		*87*	*65-135*			
LCS Dup (CZ03774-BSD1)				Prepared: 05/27/16 Analyzed: 05/31/16						
Thiobencarb	5.10	1.0	µg/L	5.00		102	75-120	3	25	
Surrogate: EPN	*2.13*		*"*	*2.50*		*85*	*65-135*			

Kleinfelder (Sacramento)	Project: RPP-W5D1	
2882 Prospect Park Dr. suite 200	Project Number: 20154800.001A Task 01	**CLS Work Order #: CZE1127**
Rancho Cordova, CA 95742	Project Manager: Sue Gardner	COC #: 379799

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

June 09, 2016

CLS Work Order #: CZF0002
COC #: 977324

Craig Riddle
Kleinfelder (Sacramento)
2882 Prospect Park Dr. suite 200
Rancho Cordova, CA 95742

Project Name: RPP-W6D1

Enclosed are the results of analyses for samples received by the laboratory on 06/01/16 08:37. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

James Liang, Ph.D.
Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES

 06/09/16 15:39

Kleinfelder (Sacramento)	Project: RPP-W6D1	
2882 Prospect Park Dr. suite 200	Project Number: 20154800.002A Task 01	**CLS Work Order #: CZF0002**
Rancho Cordova, CA 95742	Project Manager: Craig Riddle	COC #: 977324

KLEINFELDER Bright People. Right Solutions.

COC# 977324

CZF0002

Page 1 of 1

Project No.: 20154800.002A Task 01

Project Name: RPP- W6D1

L.P. No. (PO No.):

Samplers: (Signature/Number): Mark Lee / 01556

Receiving Lab: **CLS Labs, 3249 Fitzgerald Road, Rancho Cordova, CA 95742, Attn: Scott Furnas, 916-638-7301**

Instructions/Remarks

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb (EPA 507)	Instructions/Remarks
1	05/31/16	0810	CBD1-CL-6-1	W	1	1-L Amber	X	QC Sample
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

Relinquished By	Date/Time	Received By
Mark Lee	5/31/16 1430	KLF Sample Control
KLF Sample Control	6-1-16 0815	Mark Lee
Mark Lee	6-1-16 0830	6-1-16 829 (0.9)

Instructions/Remarks: Standard TAT

Send Results To: criddle@kleinfelder.com, sgardner@kleinfelder.com, rcohen@kleinfelder.com

ENV-02 CHAIN-OF-CUSTODY

CALIFORNIA LABORATORY SERVICES

 06/09/16 15:39

Kleinfelder (Sacramento)	Project: RPP-W6D1	
2882 Prospect Park Dr. suite 200	Project Number: 20154800.002A Task 01	**CLS Work Order #: CZF0002**
Rancho Cordova, CA 95742	Project Manager: Craig Riddle	COC #: 977324

Nitrogen/Phosphorus Pesticides by EPA Method 507

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CBD1-CL-6-1 (CZF0002-01) Water Sampled: 05/31/16 08:10 Received: 06/01/16 08:37									
Thiobencarb	ND	1.0	µg/L	1	CZ03907	06/02/16	06/03/16	EPA 507	
Surrogate: EPN		*100 %*		*65-135*		"	"	"	"

CALIFORNIA LABORATORY SERVICES

 06/09/16 15:39

Kleinfelder (Sacramento)	Project: RPP-W6D1	
2882 Prospect Park Dr. suite 200	Project Number: 20154800.002A Task 01	**CLS Work Order #: CZF0002**
Rancho Cordova, CA 95742	Project Manager: Craig Riddle	COC #: 977324

Nitrogen/Phosphorus Pesticides by EPA Method 507 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CZ03907 - EPA 3510B GCNV										
Blank (CZ03907-BLK1)				Prepared: 06/02/16 Analyzed: 06/03/16						
Thiobencarb	ND	1.0	µg/L							
Surrogate: EPN	*2.76*		*"*	*2.50*		*110*	*65-135*			
LCS (CZ03907-BS1)				Prepared: 06/02/16 Analyzed: 06/03/16						
Thiobencarb	5.90	1.0	µg/L	5.00		118	75-120			
Surrogate: EPN	*2.67*		*"*	*2.50*		*107*	*65-135*			
LCS Dup (CZ03907-BSD1)				Prepared: 06/02/16 Analyzed: 06/03/16						
Thiobencarb	5.75	1.0	µg/L	5.00		115	75-120	2	25	
Surrogate: EPN	*2.70*		*"*	*2.50*		*108*	*65-135*			

CALIFORNIA LABORATORY SERVICES

 06/09/16 15:39

Kleinfelder (Sacramento)	Project: RPP-W6D1	
2882 Prospect Park Dr. suite 200	Project Number: 20154800.002A Task 01	**CLS Work Order #: CZF0002**
Rancho Cordova, CA 95742	Project Manager: Craig Riddle	COC #: 977324

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

June 16, 2016

CLS Work Order #: CZF0332
COC #:

Sue Gardner
Kleinfelder (Sacramento)
2882 Prospect Park Dr. suite 200
Rancho Cordova, CA 95742

Project Name: RPP-W7D1

Enclosed are the results of analyses for samples received by the laboratory on 06/08/16 14:49. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

James Liang, Ph.D.
Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES

 06/16/16 12:20

Kleinfelder (Sacramento)	Project: RPP-W7D1	
2882 Prospect Park Dr. suite 200	Project Number: 20154800.002A Task 01	**CLS Work Order #: CZF0332**
Rancho Cordova, CA 95742	Project Manager: Sue Gardner	COC #:

KLEINFELDER
Bright People. Right Solutions.

COC# 383216

Page 1 of 1

CZF0332

Project No.	Project Name	Receiving Lab:
20154800.002A Task 01	RPP- W7D1	**CLS Labs** **3249 Fitzgerald Road** **Rancho Cordova, CA 95742** **Attn: Scott Furnas** **916-638-7301**
L.P. No. (PO No.)	Samplers: (Signature/Number) Mark Lee / 01556	

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb (EPA 507)	Instructions/Remarks
1	06/07/16	1430	CRC1-CL-7-1	W	1	1-L Amber	X	QC Sample
2								
3								
4								
5								
6								
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13								
14								
15								

Relinquished By:	Date/Time	Received By:	Instructions/Remarks	Send Results To:
Mark Lee	6-7-16 1445	KLF Sample Control	Standard TAT	criddle@kleinfelder.com sgardner@kleinfelder.com rcohen@kleinfelder.com
KLF Sample Control	6-8-16 1430	Mark Lee		
Mark Lee	6-8-16 1449	Gmlenfelder Gmlen		

(U.G)

ENV-02 CHAIN-OF-CUSTODY

CALIFORNIA LABORATORY SERVICES

 06/16/16 12:20

Kleinfelder (Sacramento)	Project: RPP-W7D1	
2882 Prospect Park Dr. suite 200	Project Number: 20154800.002A Task 01	**CLS Work Order #: CZF0332**
Rancho Cordova, CA 95742	Project Manager: Sue Gardner	COC #:

Nitrogen/Phosphorus Pesticides by EPA Method 507

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CRC1-CL-7-1 (CZF0332-01) Water Sampled: 06/07/16 14:30 Received: 06/08/16 14:49									
Thiobencarb	**2.1**	1.0	µg/L	1	CZ04207	06/13/16	06/15/16	EPA 507	
Surrogate: EPN		*119 %*		*65-135*		"	"	"	"

CALIFORNIA LABORATORY SERVICES

 06/16/16 12:20

Kleinfelder (Sacramento)	Project: RPP-W7D1	
2882 Prospect Park Dr. suite 200	Project Number: 20154800.002A Task 01	**CLS Work Order #: CZF0332**
Rancho Cordova, CA 95742	Project Manager: Sue Gardner	COC #:

Nitrogen/Phosphorus Pesticides by EPA Method 507 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CZ04207 - EPA 3510B GCNV										
Blank (CZ04207-BLK1)				Prepared: 06/13/16 Analyzed: 06/15/16						
Thiobencarb	ND	1.0	µg/L							
Surrogate: EPN	*2.58*		*"*	*2.50*		*103*	*65-135*			
LCS (CZ04207-BS1)				Prepared: 06/13/16 Analyzed: 06/15/16						
Thiobencarb	5.43	1.0	µg/L	5.00		109	75-120			
Surrogate: EPN	*2.60*		*"*	*2.50*		*104*	*65-135*			
LCS Dup (CZ04207-BSD1)				Prepared: 06/13/16 Analyzed: 06/15/16						
Thiobencarb	5.93	1.0	µg/L	5.00		119	75-120	9	25	
Surrogate: EPN	*3.10*		*"*	*2.50*		*124*	*65-135*			

CALIFORNIA LABORATORY SERVICES

06/16/16 12:20

Kleinfelder (Sacramento)	Project: RPP-W7D1	
2882 Prospect Park Dr. suite 200	Project Number: 20154800.002A Task 01	**CLS Work Order #: CZF0332**
Rancho Cordova, CA 95742	Project Manager: Sue Gardner	COC #:

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

June 21, 2016

CLS Work Order #: CZF0542
COC #:

Craig Riddle
Kleinfelder (Sacramento)
2882 Prospect Park Dr. suite 200
Rancho Cordova, CA 95742

Project Name: RPP-W8D1

Enclosed are the results of analyses for samples received by the laboratory on 06/14/16 13:45. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

James Liang, Ph.D.
Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES

 06/21/16 15:13

Kleinfelder (Sacramento)	Project: RPP-W8D1	
2882 Prospect Park Dr. suite 200	Project Number: 20154800.002A Task 01	**CLS Work Order #: CZF0542**
Rancho Cordova, CA 95742	Project Manager: Craig Riddle	COC #:

KLEINFELDER
Bright People. Right Solutions.

COC# 222640

CZF0542

Page 1 of 1

Project No.: 20154800.002A Task 01

Project Name: RPP- W8D1

L.P. No. (PO No.):

Samplers: (Signature/Number): Mark Lee / 01556

Receiving Lab:
CLS Labs
3249 Fitzgerald Road
Rancho Cordova, CA 95742
Attn: Scott Furnas
916-638-7301

Instructions/Remarks

	Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	Analysis: Thiobencarb (EPA 507)											Instructions/Remarks
1	06/14/16	0735	SSB-CL-8-1	W	1	1-L Amber	X											QC Sample
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		

Relinquished By:	Date/Time	Received By:
Mark Lee	6-14-16 1545	Shelli Furnas 13:46 (1.2)

Instructions/Remarks
Standard TAT

Send Results To:
criddle@kleinfelder.com
sgardner@kleinfelder.com
rcohen@kleinfelder.com

ENV-02 CHAIN-OF-CUSTODY

CALIFORNIA LABORATORY SERVICES

 06/21/16 15:13

Kleinfelder (Sacramento)	Project: RPP-W8D1	
2882 Prospect Park Dr. suite 200	Project Number: 20154800.002A Task 01	**CLS Work Order #: CZF0542**
Rancho Cordova, CA 95742	Project Manager: Craig Riddle	COC #:

KLEINFELDER
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CZF 0542-2

PROJECT NO.: 20154800.002A-01
PROJECT NAME: RPP W8D1
L.P. NO. (PO. NO.):
SAMPLERS: (Signature/Number)
RECEIVING LAB: CLS
INSTRUCTIONS/REMARKS: attn: Scott Furnas

	DATE MM/DD/YY	SAMPLE I.D. TIME HH-MM-SS	SAMPLE I.D.	MATRIX	NO. OF CONTAINERS	TYPE OF CONTAINERS	ANALYSIS: TAH to benzene (EPA 507)
1	6-14-16	0735	SSB-B-8-1	W	1	1L Amber	X
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

Note: Sample submitted from KLF Sample Control/COC #891382 as replacement for sample # SSB-CL-8-1 submitted on 6-14-16 to CLS via COC # 222640

Relinquished by: (Signature)	Date/Time	Received by: (Signature)
KLF Sample Control	6/20/16 1130	Mark K
Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature) Mark K	6/21/16 1155	Received for Laboratory by: (Signature)

Instructions/Remarks: Standard TAT

Send Results To:
criddle@kleinfelder.com
sgardner@kleinfelder.com
rcohen@kleinfelder.com
Attn:

ENV-02 REV 05/08) White – Sampler (C-0) Canary – Return Copy To Shipper Pink – Lab Copy

CHAIN OF CUSTODY

COC No. 29066

CALIFORNIA LABORATORY SERVICES

 06/21/16 15:13

Kleinfelder (Sacramento)	Project: RPP-W8D1	
2882 Prospect Park Dr. suite 200	Project Number: 20154800.002A Task 01	**CLS Work Order #: CZF0542**
Rancho Cordova, CA 95742	Project Manager: Craig Riddle	COC #:

Nitrogen/Phosphorus Pesticides by EPA Method 507

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SSB-CL-8-1 (CZF0542-01) Water Sampled: 06/14/16 07:35 Received: 06/14/16 13:45									
Thiobencarb	ND	0.50	µg/L	1	CZ04386	06/20/16	06/20/16	EPA 507	
Surrogate: EPN		*105 %*		*65-135*		"	"	"	"

CALIFORNIA LABORATORY SERVICES

 06/21/16 15:13

Kleinfelder (Sacramento)	Project: RPP-W8D1	
2882 Prospect Park Dr. suite 200	Project Number: 20154800.002A Task 01	**CLS Work Order #: CZF0542**
Rancho Cordova, CA 95742	Project Manager: Craig Riddle	COC #:

Nitrogen/Phosphorus Pesticides by EPA Method 507 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CZ04386 - EPA 3510B GCNV										
Blank (CZ04386-BLK1)				Prepared & Analyzed: 06/20/16						
Thiobencarb	ND	1.0	µg/L							
Surrogate: EPN	*2.79*		*"*	*2.50*		*112*	*65-135*			
LCS (CZ04386-BS1)				Prepared & Analyzed: 06/20/16						
Thiobencarb	5.28	1.0	µg/L	5.00		106	75-120			
Surrogate: EPN	*2.85*		*"*	*2.50*		*114*	*65-135*			
LCS Dup (CZ04386-BSD1)				Prepared & Analyzed: 06/20/16						
Thiobencarb	5.36	1.0	µg/L	5.00		107	75-120	1	25	
Surrogate: EPN	*2.82*		*"*	*2.50*		*113*	*65-135*			

CALIFORNIA LABORATORY SERVICES

06/21/16 15:13

Kleinfelder (Sacramento)	Project: RPP-W8D1	
2882 Prospect Park Dr. suite 200	Project Number: 20154800.002A Task 01	**CLS Work Order #: CZF0542**
Rancho Cordova, CA 95742	Project Manager: Craig Riddle	COC #:

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

June 28, 2016

CLS Work Order #: CZF0854
COC #:

Craig Riddle
Kleinfelder (Sacramento)
2882 Prospect Park Dr. suite 200
Rancho Cordova, CA 95742

Project Name: RPP-W9D1

Enclosed are the results of analyses for samples received by the laboratory on 06/21/16 14:30. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

James Liang, Ph.D.
Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES

 06/28/16 15:19

Kleinfelder (Sacramento)	Project: RPP-W9D1	
2882 Prospect Park Dr. suite 200	Project Number: 20154800.002A Task 01	**CLS Work Order #: CZF0854**
Rancho Cordova, CA 95742	Project Manager: Craig Riddle	COC #:

CZF0854

KLEINFELDER Bright People. Right Solutions.

COC# 544194

Page 1 of 1

Project No.	Project Name					Analysis											Receiving Lab:
20154800.002A Task 01	RPP- W9D1																CLS Labs 3249 Fitzgerald Road Rancho Cordova, CA 95742 Attn: Scott Furnas 916-638-7301
L.P. No. (PO No.)	Samplers: (Signature/Number) Mark Lee / 01556																
				No. of Containers	Type of Containers	Thiobencarb (EPA 507)											Instructions/Remarks
Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix														
1 06/21/16	1100	CBD1-CL-9-1	W	1	1-L Amber	X											QC Sample
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	

Relinquished By:	Date/Time	Received By:	Instructions/Remarks	Send Results To:
			Standard TAT	criddle@kleinfelder.com sgardner@kleinfelder.com rcohen@kleinfelder.com
Relinquished By:	Date/Time	Received By:		
Relinquished By: Mark Lee	6-21-16 1430	Received By:		

6.21.16 1430. (1.8)

ENV-02 CHAIN-OF-CUSTODY

CALIFORNIA LABORATORY SERVICES

 06/28/16 15:19

Kleinfelder (Sacramento)	Project: RPP-W9D1	
2882 Prospect Park Dr. suite 200	Project Number: 20154800.002A Task 01	**CLS Work Order #: CZF0854**
Rancho Cordova, CA 95742	Project Manager: Craig Riddle	COC #:

Nitrogen/Phosphorus Pesticides by EPA Method 507

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CBD1-CL-9-1 (CZF0854-01) Water Sampled: 06/21/16 11:00 Received: 06/21/16 14:30									
Thiobencarb	ND	0.50	µg/L	1	CZ04517	06/23/16	06/24/16	EPA 507	
Surrogate: EPN		*126 %*		*65-135*		"	"	"	"

CALIFORNIA LABORATORY SERVICES

 06/28/16 15:19

Kleinfelder (Sacramento)	Project: RPP-W9D1	
2882 Prospect Park Dr. suite 200	Project Number: 20154800.002A Task 01	**CLS Work Order #: CZF0854**
Rancho Cordova, CA 95742	Project Manager: Craig Riddle	COC #:

Nitrogen/Phosphorus Pesticides by EPA Method 507 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CZ04517 - EPA 3510B GCNV										
Blank (CZ04517-BLK1)				Prepared: 06/23/16 Analyzed: 06/24/16						
Thiobencarb	ND	1.0	µg/L							
Surrogate: EPN	*2.92*		*"*	*2.50*		*117*	*65-135*			
LCS (CZ04517-BS1)				Prepared: 06/23/16 Analyzed: 06/24/16						
Thiobencarb	4.98	1.0	µg/L	5.00		100	75-120			
Surrogate: EPN	*2.91*		*"*	*2.50*		*116*	*65-135*			
LCS Dup (CZ04517-BSD1)				Prepared: 06/23/16 Analyzed: 06/24/16						
Thiobencarb	5.36	1.0	µg/L	5.00		107	75-120	7	25	
Surrogate: EPN	*3.11*		*"*	*2.50*		*125*	*65-135*			

Kleinfelder (Sacramento)	Project: RPP-W9D1	
2882 Prospect Park Dr. suite 200	Project Number: 20154800.002A Task 01	**CLS Work Order #: CZF0854**
Rancho Cordova, CA 95742	Project Manager: Craig Riddle	COC #:

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference