



Rice Pesticides Program 2018 Summary Memo

December 2018



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Prepared for

California Rice Commission

California Rice

Prepared by

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2018 Rice Pesticides Program Monitoring Summary

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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 R5-2010-9001 (CVRWQCB, 2010). 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 RPP is included 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

Long-term monitoring under the RPP allows for comparison of sampling data from varying water year types in the Sacramento Valley, which influence growing practices and surface water flows. The start of 2018 was again wet, more similar to spring 2017 than to the prior 4 years, where drought conditions persisted. While 2018 had a rainy start, detections persisted in some of the drains, as flow slowed during hold periods. As in prior years, the majority of these detections occurred in the Colusa Basin Drain (CBD). This technical memorandum summarizes 2018 conditions and monitoring results, and compares them to prior years' results.

Monitoring Requirements and Performance Goals

Monitoring in accordance with the RPP requirements was conducted during the 2018 thiobencarb use season (Table 1). Planting and subsequent herbicide application occurred later than typical in many areas of the Sacramento Valley in 2018 because of the wet spring. Glenn County was an exception to this because the late storms did not extend past Colusa County. This resulted in a split start to the monitoring season, with CBD5 sampled on April 26 to capture timing of the earlier planting and subsequent herbicide applications in Glenn County. The start of sampling for the remainder of the sites was May 1 to coordinate with the later planting and thiobencarb applications in the balance of the

valley. This demonstrates the importance of flexibility in scheduling under the RPP in years when climate is not consistent across the valley. Sampling continued through the first week of July for all sites.

Table 1. RPP Sampling Frequency, 2018

2018 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 2018 have remained consistent for the duration of the program, and are as follows:

- 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 on the River

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 (i.e., 1.0 µg/L). In addition, a Performance Goal applies to upstream agricultural drains (1.5 µg/L).

2018 Monitoring Results

Thiobencarb was detected above the laboratory method detection level (MDL) of 0.5 µg/L in 12 of the 70 samples collected during the 10-week sampling period in 2018. This represents 17 percent of the total samples collected, which is a decrease from the 2017 level of 24 percent of samples above the MDL. The majority of these detections measured in 2018 occurred at sites on the CBD, specifically sites CBD1 and CBD5 (each with six detections above 0.5 µg/L). Sites BS1, SSB, and SR1 had no detections above the 0.5 µg/L MDL in 2018.

2018 monitoring had fewer overall detections than 2017 monitoring; however, similar to 2017, the majority of the detections were in the CBD. As in previous years, detections at site CBD5 generally occurred first (in early May), with detections at site CBD1 occurring about 1 week later, resulting from southern counties wrapping up planting later than the northern rice growing areas.

Results of the 2018 thiobencarb sampling are summarized in Table 2. Complete monitoring results are provided in Attachment 1.

Table 2. Summary of Detections (RPP and City Monitoring), 2018
2018 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 (WQO 1.0 µg/L)			
SRR ^a	Intake	0	ND
WSR ^b	Intake	0	ND
SR1 ^c	River	0	ND
Total river/intake site detections:		0	ND
Agricultural Drain Sites (Performance Goal 1.5 µg/L)			
CBD5	Drain	1	ND to 1.7 µg/L
BS1	Drain	0	ND to 0.39j µg/L
CBD1	Drain	0	ND to 1.4 µg/L
SSB	Drain	0	ND to 0.41j µg/L
Total drain site detections:		8	ND to 1.7 µg/L

^a City of Sacramento intake site (as reported by the City of Sacramento)

^b City of West Sacramento intake site (as reported by the City of West Sacramento)

^c RPP site – the CRC voluntarily monitors site SR1 to complement the required agricultural drain monitoring.

Notes:

j = EPA flag – estimated value; result is between the MDL and the method reporting limit.

EPA = U.S. Environmental Protection Agency

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 it is 0.5 µg/L.

Compliance with River and MUN WQO

All of the river and intake samples analyzed on behalf of the CRC and the Cities of Sacramento (site SRR) and West Sacramento (site WSR) were below the detection limit for thiobencarb in 2018. 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 managing a prohibition of discharge program through a watershed approach.

Compliance with the Agricultural Drain Performance Goal

Only one sample collected from the agricultural drains in 2018 had a detection above the 1.5 µg/L Performance Goal for thiobencarb, which is the least number of detections above the Performance Goal observed since 2012. The peak detection of 1.7 µg/L occurred at site CBD5 (May 29); the level of thiobencarb fell below the Performance Goal by the next monitoring event (May 31). Detections were lower in 2018 than in prior years, with timing and location of detections remaining similar to prior years (majority of detections were at the CBD sites).

Acres Treated

The California Department of Pesticide Regulation (DPR) reports thiobencarb-treated acres in their annual Pesticide Use Report (PUR), current to 2016.¹ The delay in final reports results from data going through the audit and error check process before the PUR is publicly available. The county agricultural commissioners (CACs) provide the current year pesticide use data to DPR, which in turn shares the data with the CRC. For this monitoring summary, 2018 thiobencarb use records were obtained from the registrant, through a database company, as an early estimate of acres treated. This information will be updated to DPR preliminary data for the final 2018 RPP Annual Monitoring Report.

In 2018, the rice acreage treated with thiobencarb was estimated to be 164,535 acres (152,737 Bolero and 11,798 Abolish), which is a 6 percent increase from 2017 treated acreage (155,430 acres) (Figure 1). Detailed results are provided in Attachment 1.

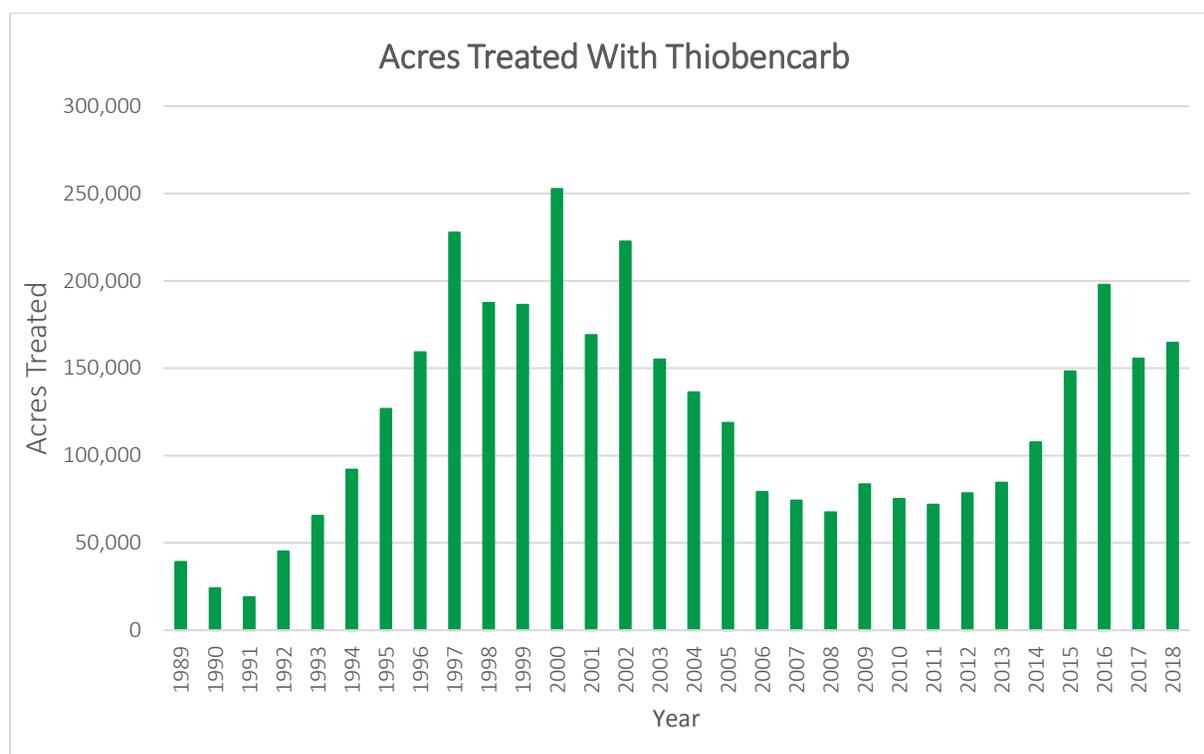


Figure 1. Thiobencarb Acres Treated, 1989 to 2018

(Source: DPR, 1989-2016; DPR estimate for 2017; Valent estimate for 2018)

Analysis/Discussion

The RPP includes an aggressive regime of surface water quality sampling designed to address a watershed approach to compliance. Although the ultimate goal of zero detections at the city intake sites was met, the routine sampling of the RPP detected an exceedance of the Performance Goal in an agricultural drain.

¹ Pesticide use reports as published by year on the DPR website. <https://www.cdpr.ca.gov/docs/pur/pur16rep/comrpt16.pdf>. Accessed August 11, 2018.

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

- Noncompliance with 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

Each of these factors is discussed below.

Non-compliance with Water-holding Requirements

At least two instances of non-compliance with water-holding requirements were reported in 2018, one in Yuba County, and one in Colusa County. Details for each event are as follows:

- Yuba County non-compliance incident: On June 12, the CAC office received the notice of intent (NOI), and performed a pre-site application inspection. The drain box at the bottom of the field was not boarded up, so the application was denied. Once the grower demonstrated that the box was secured, the CAC office approved the application. Ten days following the application, one of the inspectors conducting a water hold inspection discovered that not enough boards were placed in the box to stop the water release. A violation was issued with an agricultural civil penalty for negligence. The case was closed on August 27.
- Colusa County non-compliance incident: On July 1, an Agricultural Biologist found four fields releasing water. The grower thought that the water hold had ended. However, the Colusa CAC records indicated that the four fields were still under a water holding period for the thiobencarb product that was applied. The Colusa CAC office will do a single enforcement action to include all four non-compliant inspections.

At the time of this writing, the CACs are coordinating with DPR on any potential enforcement actions against specific growers that are believed to have violated label and water-hold requirements.

Another contributing factor to early water releases can be high wind conditions. Meeting water-holding requirements can be challenging during early-season high wind events because the rice is not yet established enough to prevent water from being moved around the field, and potentially over a check box or levee. Although there was one higher-than-typical wind event during the 2018 season (Figure 2-4), that event did not correlate to a detection or water release, as has occurred in prior seasons. Wind speeds during the thiobencarb use season are presented in Attachment 2.

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

In 2018, the DPR Enforcement Branch and the CAC offices concurred on an increase in enforcement through higher prioritization of the water holding requirements, which includes seepage inspections. The CACs have historically enforced against water holds and observed seepage, however, inspections for seepage are more relevant to water quality programs with water holding violations specific to pesticide enforcement actions. Seepage is essentially a water hold violation, so it is unnecessary to differentiate

the two when a county biologist is performing an inspection. The CAC inspections historically involved seepage, with drift addressed through label requirements; in addition, permit restrictions were imposed on aerial applications and tailwater discharge through mandatory water hold requirements. The shift from observing seepage inspections to enforcing water holding violations results in no change to CRC funding of additional off-hours inspections on weekends and holidays during the application season. The effectiveness of these management practices is wholly dependent upon implementation by individual rice farmers.

Influence of Flow

Although 2018 had a wet spring, the drought conditions experienced in the last number of seasons impacted rice culture. Water availability was restricted during the seasons of drought, and there were restrictions on re-flooding. During these restrictions, thiobencarb became a popular herbicide of choice because of its longer hold requirement, which complements weed control programs in areas where irrigation districts control the availability of water and limit releases from rice fields. Thiobencarb use acreage spiked during the drought, with treated acreage in 2016 at its highest level since 2002 (Figure 1 and Table 1-2). During the last few monitoring seasons, thiobencarb exceedances increased along with the rise in treated acreage. This was especially apparent at the sites on the CBD, where flow conditions were impacted during the drought. 2018 represents the first year where thiobencarb exceedances decreased as treated acreage increased, likely attributable to favorable climatic conditions, and potentially attributable to grounding of the liquid formulation in targeted areas draining to site CBD5. The action was in lieu of the registrant voluntarily providing acreage limitations last experienced in 1994. The DPR Enforcement Branch and Northern Region Office will continue to work with the Colusa CAC to monitor the effectiveness of this specific permit condition before taking further action on any potential changes.

Conclusions and Recommendations

The 2018 sampling season had no detections in the analyzed river and intake samples, and had the least number of detections in the agricultural drains since 2012. The lack of detections at the river and intake sites demonstrates the success of the established management practices and those added in recent years such as expanded grower education, and permit requirements (including grounding in targeted areas). This also demonstrates the success of managing a prohibition of discharge program through a watershed approach.

Educational outreach, mandatory stakeholder meetings, inspection activities, and use limitations will continue to be utilized in future seasons to ensure successful compliance and protection of beneficial uses in these water systems.

References

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Attachment 1
2018 Thiobencarb Monitoring Results

Table 1-1. Complete 2018 Thiobencarb Monitoring Results
 2018 Rice Pesticides Program Monitoring Summary

Sample Dates	Rice Pesticides Program Thiobencarb Monitoring Results					Sacramento and West Sacramento Thiobencarb Monitoring Results		
	Agricultural Drain Monitoring Sites Method Reporting Limit <0.50 µg/L (ppb); EPA Method 507					City WTP Intake Sites Method Reporting Limit <0.2 µg/L (ppb); EPA Method 8207C		SRR Intake Percent at Sacramento River
	CBD5	BS1	CBD1	SSB	SR1	WSR	SSR	
18-Apr-18	-	-	-	-	-	ND	ND	58.2
25-Apr-18	-	-	-	-	-	ND	ND	70.9
26-Apr-18	ND	-	-	-	-	-	-	-
1-May-18	ND	ND	ND	ND	ND	-	-	-
2-May-18	-	-	-	-	-	ND	ND	77.0
8-May-18	0.47j	ND	ND	ND/ND NCL/CLS	ND	-	-	-
9-May-18	-	-	-	-	-	ND	ND	79.6
10-May-18	-	-	-	-	-	ND	ND	88.1
15-May-18	0.73	ND	0.46j	ND	ND	ND	ND	87.3
16-May-18	-	-	-	-	-	ND	ND	87.3
17-May-18	-	-	-	-	-	ND	ND	75.0
22-May-18	ND	ND/ND NCL/CLS	1.3	ND	ND	ND	ND	86.2
23-May-18	-	-	-	-	-	ND	ND	78.5
24-May-18	1.4	0.18j	0.59	ND	ND	ND	ND	82.5
28-May-18	-	-	-	-	-	ND	ND	84.4
29-May-18	1.7	0.39j	1.4	ND	ND/ND NCL/CLS	ND	ND	74.8

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	Agricultural Drain Monitoring Sites Method Reporting Limit <0.50 µg/L (ppb); EPA Method 507					City WTP Intake Sites Method Reporting Limit <0.2 µg/L (ppb); EPA Method 8207C		SRR Intake Percent at Sacramento River
	CBD5	BS1	CBD1	SSB	SR1	WSR	SSR	
30-May-18	-	-	-	-	-	ND	ND	87.5
31-May-18	1.3	0.30j	1.0	ND	ND	ND	ND	88.8
4-Jun-18	-	-	-	-	-	ND	ND	78.8
5-Jun-18	1.0	0.28j	0.81/ND NCL/CLS	ND	ND	ND	ND	90.8
6-Jun-18	-	-	-	-	-	ND	ND	86.8
7-Jun-18	0.79	0.23j	0.93	ND	ND	ND	ND	85.8
12-Jun-18	0.24j	ND	0.38j	ND	ND	-	-	-
13-Jun-18	-	-	-	-	-	ND	ND	87.0
14-Jun-18	0.25j	ND	0.27j	0.41j	ND	ND	ND	82.5
19-Jun-18	0.26j	ND	0.16j	ND	ND	-	-	-
20-Jun-18	-	-	-	-	-	ND	ND	85.5
21-Jun-18	-	-	-	-	-	ND	ND	88.6
26-Jun-18	0.23j	ND	0.18j	ND	ND	-	-	-
27-Jun-18	-	-	-	-	-	ND	ND	83.5
28-Jun-18	-	-	-	-	-	ND	ND	82.0
2-Jul-18	0.21j	ND	ND	ND	ND	-	-	-
3-Jul-18	-	-	-	-	-	ND	ND	74.2

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Sample Dates	Rice Pesticides Program Thiobencarb Monitoring Results					Sacramento and West Sacramento Thiobencarb Monitoring Results		
	Agricultural Drain Monitoring Sites Method Reporting Limit <0.50 µg/L (ppb); EPA Method 507					City WTP Intake Sites Method Reporting Limit <0.2 µg/L (ppb); EPA Method 8207C		SRR Intake Percent at Sacramento River
	CBD5	BS1	CBD1	SSB	SR1	WSR	SSR	

Notes:

Concentrations reported in µg/L (ppb).
 Agricultural drain Performance Goal for thiobencarb is 1.5 µg/L.
 - = not applicable
 j = estimated value (result falls between the method detection limit and the method reporting limit)
 µg/L = microgram(s) per liter
 CLS = California Laboratory Services lab
 EPA = U.S. Environmental Protection Agency
 NCL = North Coast Labs
 ND = not detected above method detection limit
 ppb = part(s) per billion
 WTP = water treatment plant

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
 SRR = City of Sacramento at Sacramento River Intake

Table 1-2. City Intake Detections in Comparison to Performance Goal Exceedances 2003-2018
2018 Rice Pesticides Program Monitoring Summary

Sample Year	Intake and River Site Detections (Date/Result, in µg/L)			Agricultural 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	148,260	452,824

Table 1-2. City Intake Detections in Comparison to Performance Goal Exceedances 2003-2018
2018 Rice Pesticides Program Monitoring Summary

Sample Year	Intake and River Site Detections (Date/Result, in µg/L)			Agricultural 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	197,709	559,582
2017	ND	ND	ND	16-May/2.5 GC2 23-May/1.8 CBD5 23-May/1.8 BS1 23-May/2.7 GC2 30-May/1.8 CBD5 30-May/1.7 GC1 30-May/2.8 GC2 1-June/1.8 CBD1	155,430 ^b	503,964
2018	ND	ND	ND	29-May/1.7 CBD5	164,535 ^c	520,000 (CRC est.)

^a Storm event monitoring at Reclamation District 1000 for the Natomas Mutual Central Water District, June 11–13 and 18, 2005

^b Preliminary acreage from California Department of Pesticide Regulation

^c Preliminary acreage from Valent

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/

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, 2017, 2018: 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

Attachment 2
Weather and Flow Data
for 2014–2018

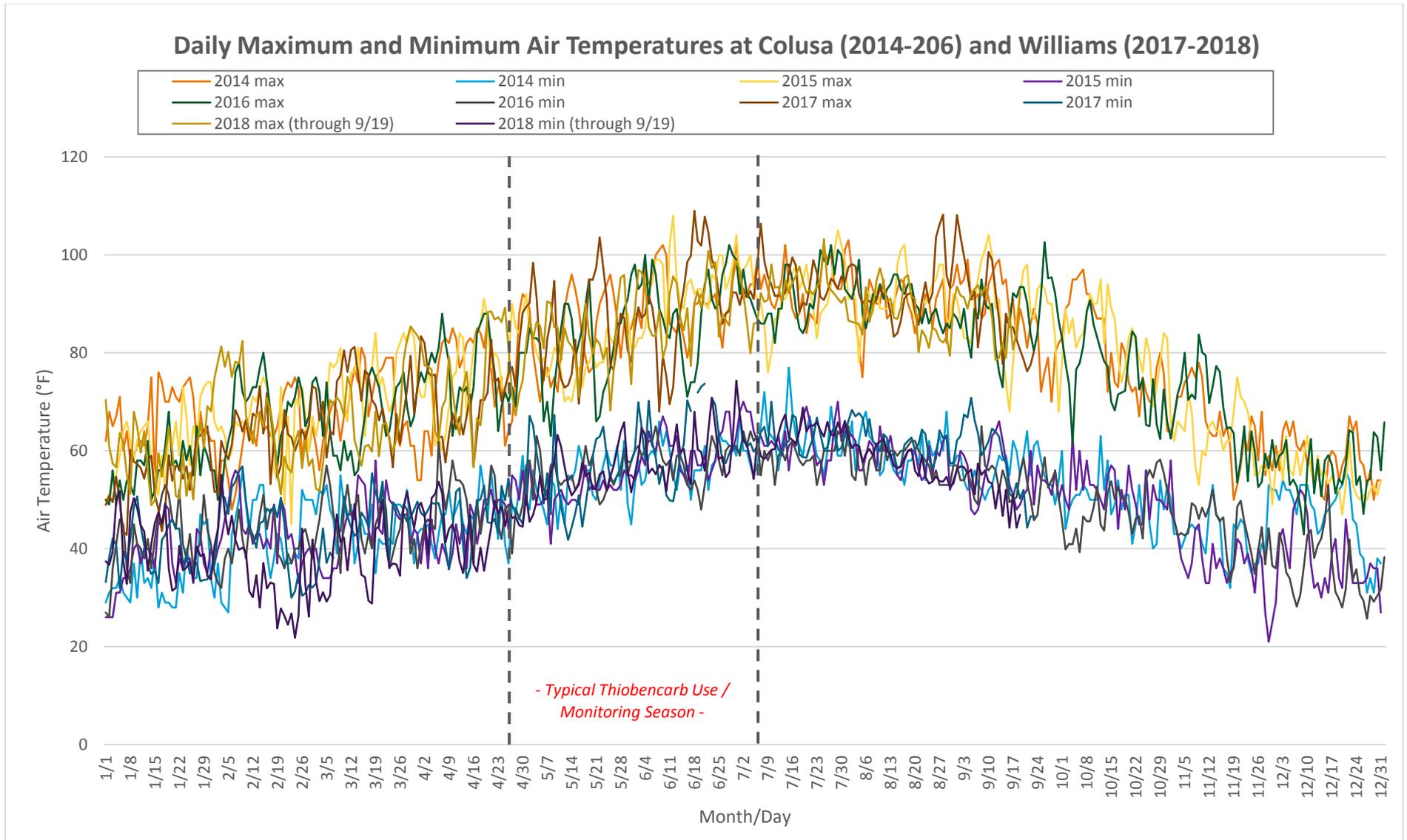


Figure 2-1. Daily Maximum and Minimum Air Temperatures, 2014–2018

*CIMIS Station at Colusa (32) decommissioned on August 12, 2016. Replaced by Williams Station (250) on the same day.

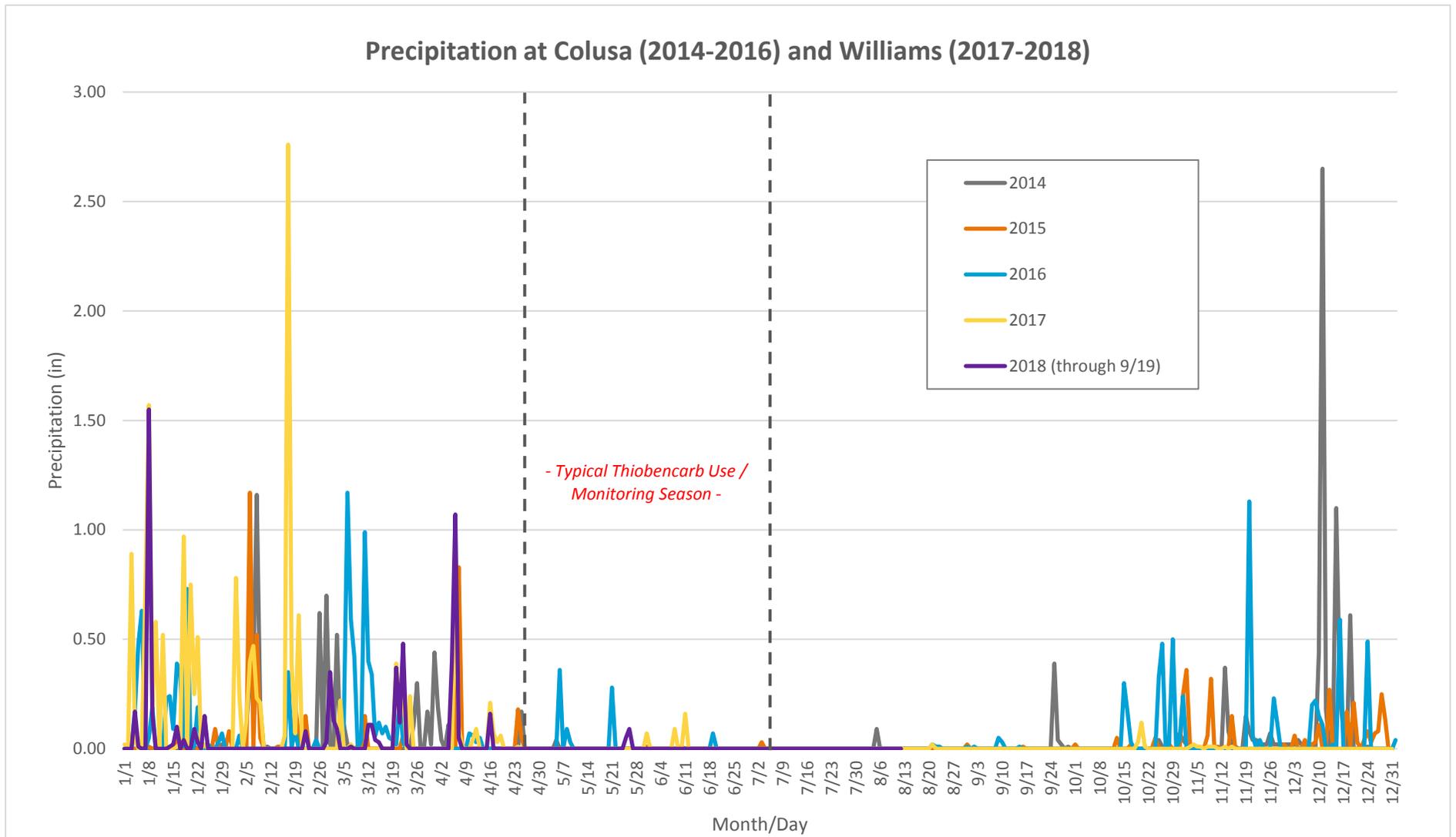


Figure 2-2. Precipitation at Colusa (2014-2016) and Williams (2017-2018)

*CIMIS Station at Colusa (32) decommissioned on August 12, 2016. Replaced by Williams Station (250) on the same day.

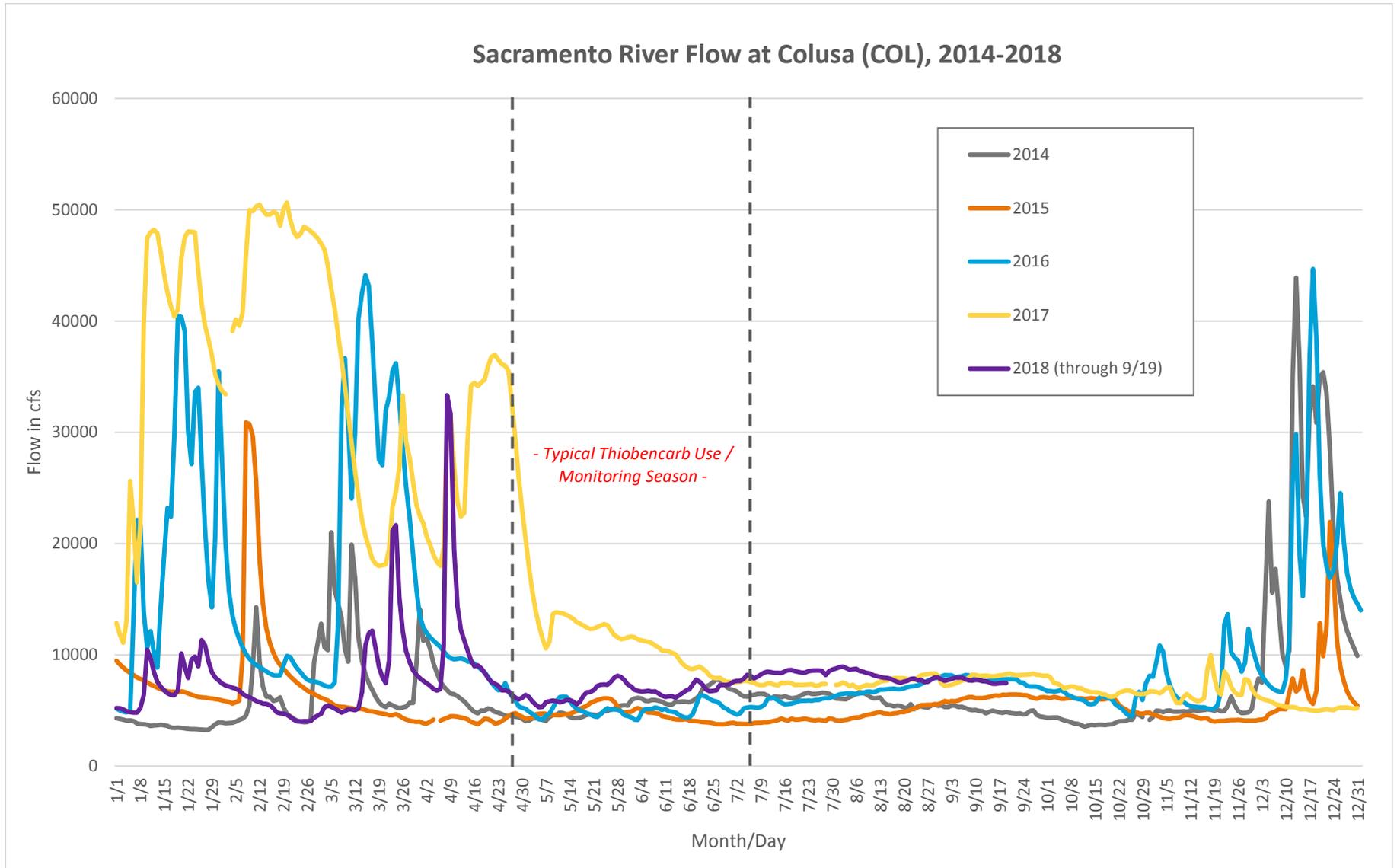


Figure 2-3. Sacramento River Flow at Colusa (COL), 2014–2018

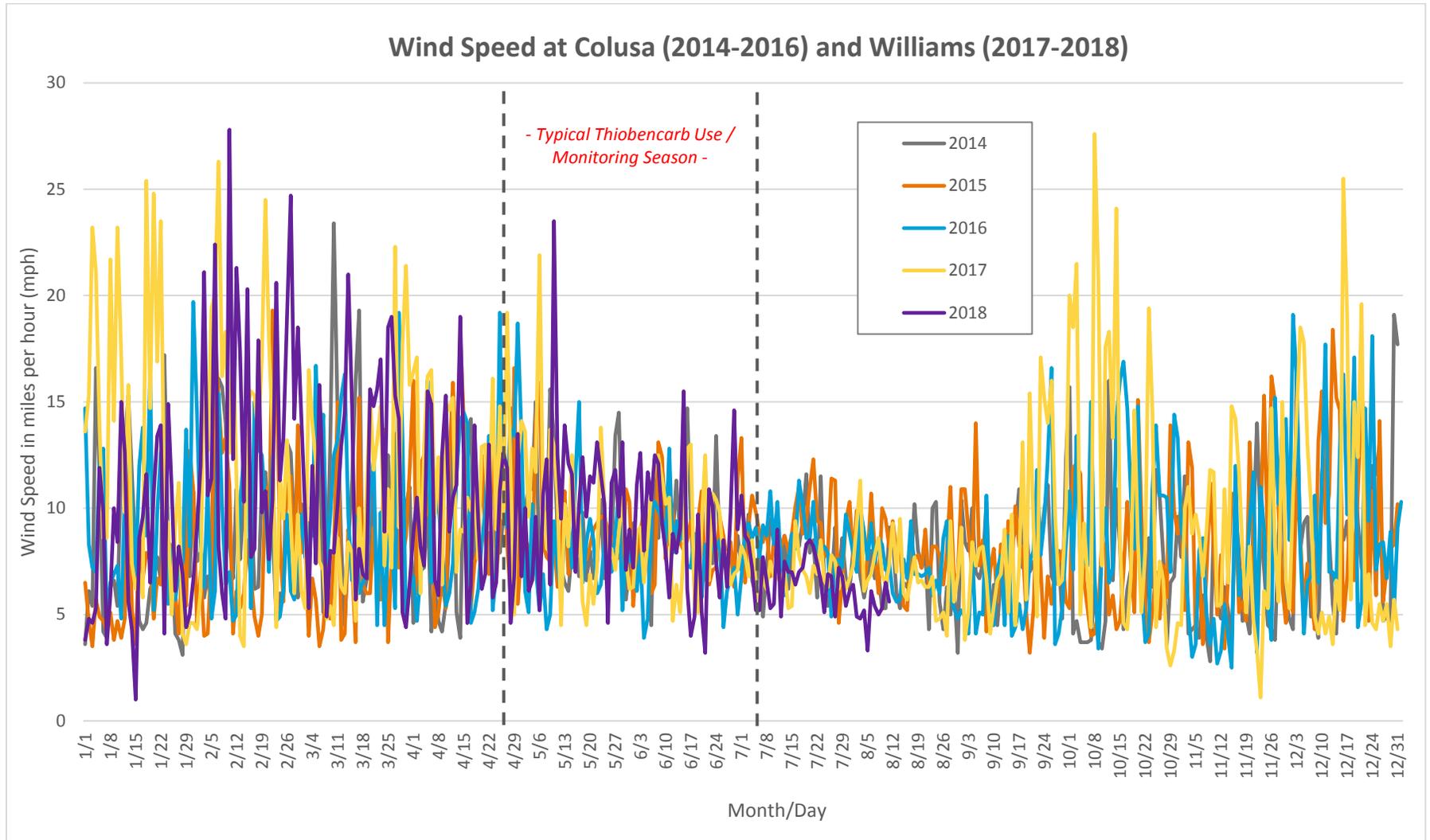


Figure 2-4. Wind Speed at Colusa (2014–2016) and Williams (2017–2018)
 *CIMIS Station at Colusa (32) decommissioned on August 12, 2016. Replaced by Williams Station (250) on the same day.

Attachment 3
Management Practice
Inspections Narrative

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 Rice Pesticide Program (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 in 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 and general information on rice water quality management practices.

Role of Management Practices in Attaining Water Quality Protection

Over the years, best management practices such as water-hold requirements and grower stewardship meetings, along with inspection and enforcement actions, were implemented to ensure compliance with performance goals and attainment of water quality objectives (WQOs) and secondary maximum contaminant levels for the pesticides regulated under the 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 2018, the thiobencarb water-holding requirements were unchanged and remain the same as those listed in the California 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 account for 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 Basin and San Joaquin River Basin² (Basin Plan) (Central Valley Regional Water Quality Control Board [CVRWQCB], 2018) 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.

² https://www.waterboards.ca.gov/centralvalley/water_issues/basin_plans/sacsir_201805.pdf

Water-hold requirements for thiobencarb are pesticide-use permit conditions under the RPP. Table 3-1 specifies the water-hold requirements established by the DPR for the three registered formulations of thiobencarb.

Table 3-1. Water-Hold Requirements in Days for Thiobencarb, North Sacramento Valley
2018 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 a manner consistent with product labeling.	14	14
System includes drainage from more than one permittee, then water must be retained onsite.	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 material 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 CVRWQCB has authorized several resolutions impacting the DPR permit conditions that require buffer zones during application; a pre-season mandatory stewardship meeting for growers, pest control advisers, and applicators; and formation of a Storm Event Work Group. The CVRWQCB's resolution authorizing the 2010 RPP (R5-2010-9001) (CVRWQC, 2010) 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 WQO for thiobencarb is not met or if increasing thiobencarb concentrations are observed in waters designated for municipal or domestic water supply, the CRC, after consultation with the 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 material 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 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.

Release Inquiries and Emergency Releases

In 2018, there was one reported release inquiry, and zero reported emergency releases. The release inquiry was reported by Butte County as shown in Table 3-2.

Water-Hold Inspections

The CACs conducted water-hold inspections of 1,686 thiobencarb use sites in 2018 (Table 3-2). Of the 1,686 use sites inspected, two were issued agricultural civil penalty (ACPs). The ACPs issued were in Colusa and Yuba Counties.

Application and Mix/Load Inspections

The CACs conducted application and mix/load inspections in 2018, as summarized in Table 3-2. Based on inspection data provided by CACs to the DPR Enforcement Branch, 26 application inspections and 15 mix/load event inspections were performed in 2018.

Table 3-2. 2018 Annual Rice Reporting Information from County Agricultural Commissioners
2018 Rice Pesticides Program Monitoring Summary

County	Chemical	Ag. Civil Penalties	Inspection Types									
			Application Inspections		Mix/Load Inspections		Release Inquires		Emergency Releases		Water Hold Inspections	
			#	N/C	#	N/C	#	N/C	#	N/C	#	N/C
Butte	Bolero® UltraMax	0	4	0	2	0	1	0	0	0	339	0
	Abolish® 8EC	0	0	0	0	0	0	0	0	0	25	0
	League® MVP	0	0	0	0	0	0	0	0	0	0	0
	County Total	0	4	0	2	0	1	0	0	0	364	0
Colusa	Bolero® UltraMax	0	1	0	1	0	0	0	0	0	242	0
	Abolish® 8EC	0	0	0	0	0	0	0	0	0	9	0
	League® MVP	0	2	0	1	0	0	0	0	0	62	4
	County Total	1	3	0	2	0	0	0	0	0	313	4
Glenn	Bolero® UltraMax	0	0	0	0	0	0	0	0	0	112	0
	Abolish® 8EC	0	2	0	2	0	0	0	0	0	36	0
	League® MVP	0	0	0	0	0	0	0	0	0	2	0
	County Total	0	2	0	2	0	0	0	0	0	150	0
Placer	Bolero® UltraMax	0	0	0	0	0	0	0	0	0	2	0
	Abolish® 8EC	0	0	0	0	0	0	0	0	0	0	0
	League® MVP	0	0	0	0	0	0	0	0	0	2	0
	County Total	0	0	0	0	0	0	0	0	0	4	0
Sacramento	Bolero® UltraMax	0	0	0	0	0	0	0	0	0	38	0
	Abolish® 8EC	0	0	0	0	0	0	0	0	0	34	0
	League® MVP	0	0	0	0	0	0	0	0	0	6	0
	County Total	0	0	0	0	0	0	0	0	0	78	0

Table 3-2. 2018 Annual Rice Reporting Information from County Agricultural Commissioners
 2018 Rice Pesticides Program Monitoring Summary

County	Chemical	Ag. Civil Penalties	Inspection Types										
			Application Inspections		Mix/Load Inspections		Release Inquires		Emergency Releases		Water Hold Inspections		
			#	N/C	#	N/C	#	N/C	#	N/C	#	N/C	
Sutter	Bolero® UltraMax	0	2	0	3	0	0	0	0	0	0	150	0
	Abolish® 8EC	0	3	0	3	0	0	0	0	0	0	44	0
	League® MVP	0	1	0	1	0	0	0	0	0	0	23	0
	County Total	0	6	0	7	0	0	0	0	0	0	217	0
Tehama	Bolero® UltraMax	0	0	0	0	0	0	0	0	0	0	0	0
	Abolish® 8EC	0	0	0	0	0	0	0	0	0	0	0	0
	League® MVP	0	0	0	0	0	0	0	0	0	0	0	0
	County Total	0	0	0	0	0	0	0	0	0	0	0	0
Yolo	Bolero® UltraMax	0	6	0	0	0	0	0	0	0	0	73	0
	Abolish® 8EC	0	0	0	0	0	0	0	0	0	0	0	0
	League® MVP	0	0	0	0	0	0	0	0	0	0	5	0
	County Total	0	6	0	0	0	0	0	0	0	0	78	0
Yuba	Bolero® UltraMax	1	5	0	2	0	0	0	0	0	0	470	1
	Abolish® 8EC	0	0	0	0	0	0	0	0	0	0	0	0
	League® MVP	0	0	0	0	0	0	0	0	0	0	12	0
	County Total	1	5	0	2	0	0	0	0	0	0	482	1
TOTAL		2	26	0	15	0	1	0	0	0	0	1686	5

Attachment 4
Maps and Coordinates of
Monitoring Locations

Maps and Coordinates of Monitoring Locations

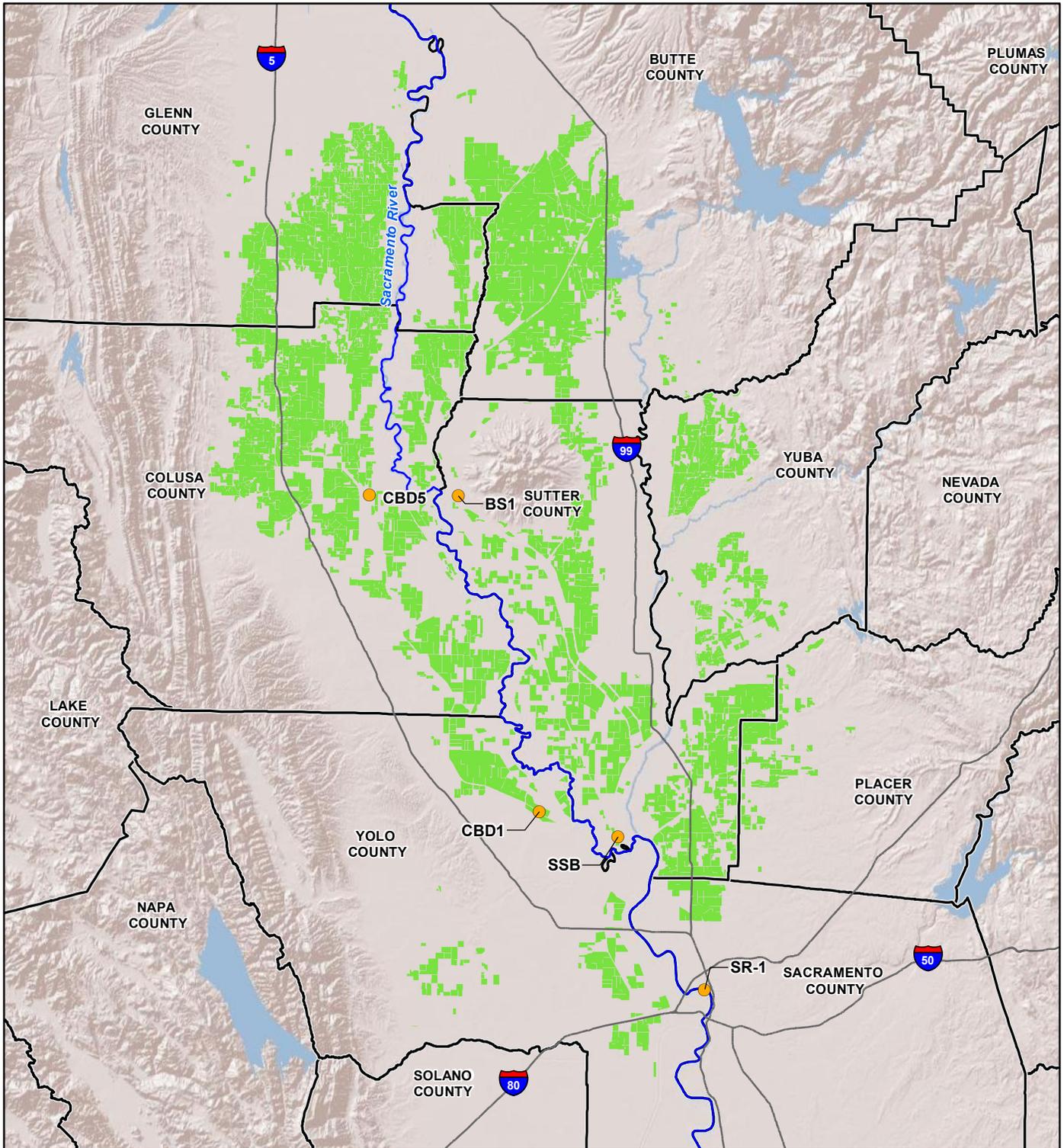
Table 4-1. Monitoring Location Information

2018 Rice Pesticides Program Monitoring Summary

Site	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

Note:

Coordinates are North American Datum of 1983 (NAD83).



LEGEND

- CITY
- RPP MONITORING SITES
- COUNTY
- RICE LAND 2017 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).

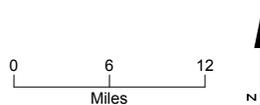


FIGURE 4-1
RPP Monitoring Sites
 RPP Annual Monitoring Report
 California Rice Commission

Attachment 5
2018 Field and Laboratory Results

Attachment 5-1
Field Sheets and Chain-
of-Custody Forms

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC			Date: 5/1/2018		
Station ID & Name : SR1			FIRST SAMPLE TIME: <u>0825</u>		
Project ID: 20154800.004A-01	Arrival Time: <u>0804</u>	Departure Time: <u>0845</u>	Target Lat. & Long.: <u>0945</u>		
Sampling Crew (and Agency): Lauren Short - KLF			Actual Lat & Long:		
			Datum:	Accuracy (ft / m):	

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

Comments:

Water Column Thickness: 20 Sample Depth: 10'

PHYSICAL PARAMETERS	SAG-2	SR	SAMPLE COLLECTION
Water Temp (Celsius):	<u>16.90</u>	<u>16.90</u>	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated) STARTING BANK: LB / RB/ NA <u>Marina</u>
Air Temp (°F):		<u>60's</u>	OCCUPATION METHOD: Walk-in, Bridge, Other: <u>Marina</u>
*pH>8.5 or <6.5 pH:	<u>7.87</u>	<u>7.57</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>Kennel</u>
*DO<7.0 DO (mg/L):	<u>9.22</u>	<u>9.32</u>	SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water <u>Marina</u>
<u>DO%_D</u>	<u>98.7</u>	<u>96.5</u>	HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: <u>Marina</u>
CALCULATED SITE DISCHARGE (cfs):			HYDROMODLOC: US / DS / NA

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

Sample ID	Analyte	Container	Number	Notes
✓				Flow is strong enough to pull kennel.
	See Attached Chain of Custodies			
				Staff Gauge: <u>5.5</u>

Coalition Name: CRC		Date: 5/1/2018	
Station ID & Name : SSB		FIRST SAMPLE TIME: 1010	
Project ID: 20154800.004A-01	Arrival Time: 0925	Departure Time: 1040	Target Lat. & Long.:
Sampling Crew (and Agency): Lauren Short - KLF			Actual Lat & Long:
		Datum:	Accuracy (ft / m):

OBSERVATIONS	WADEABLE: YES / NO	PICTURE NAME/S:
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, <u>Unk.</u> , Other	<u>NO</u>	
SITE ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other		
OTHER PRESENCE: <u>Vascular</u> , Nonvascular, OilySheen, Foam, Trash, None, Other		
WATER ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other		
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)		
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: Lots of traffic hauling soil. trucks are kicking up dust. Not enough room to work on the bridge. JPP		Sample Depth: 2.1' Water Column Thickness: 2.4'

PHYSICAL PARAMETERS	SAC 2	SR	SAMPLE COLLECTION
Water Temp (Celsius):	18.4	18.25	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):	60's		STARTING BANK: LB / RB/ NA
*pH>8.5 or <6.5 pH:	7.86	7.53	OCCUPATION METHOD: Walk-in, <u>Bridge</u> , Other: _____
*DO<7.0 DO (mg/L):	5.94	6.45	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>Kerner</u>
DO%	63.2	68.5	SAMPLE LOCATION: Bank, Thalweg, <u>Midchannel</u> , Open Water
			HYDRO-MODIFICATION: None, <u>Bridge</u> , 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
					Covered bucket as trucks went by.
	See Attached Chain of Custodies				

No success fishing drivers down. In break of traffic, estimated depth using kerner; collected 4 volumes of water; placed in bucket, moved to a safe location, poured water into sample bottles via funnel;

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC		Date: 5/1/2018	
Station ID & Name: BS1		FIRST SAMPLE TIME: 1200	
Project ID: 20154800.004A-01	Arrival Time: 135	Departure Time: 200	Target Lat. & Long.:
Sampling Crew (and Agency): Lauren Short - KLF		1235	Actual Lat & Long:
		Datum:	Accuracy (ft / m):

OBSERVATIONS	WADEABLE: YES / NO	PICTURE NAME/S:
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk., Other	YES / NO	
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other		SKY CODE: clear, partly cloudy, overcast, fog, hazy
OTHER PRESENCE: Vascular, Nonvascular, Oily Sheen, Foam, Trash, None, Other		PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other		PRECIPITATION (last 24 hrs): Unknown, >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: 25

OR
SPP SPP

PHYSICAL PARAMETERS	SAC-2	OR	SAMPLE COLLECTION
Water Temp (Celsius):	17.93	18.1	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):		70.5	STARTING BANK: LB / RB / NA
*pH>8.5 or <6.5 pH:	8.43	7.72	OCCUPATION METHOD: Walk-in, Bridge, Other: _____
*DO<7.0 DO (mg/L):	7.67	7.89	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>Canister</u>
DO %	81.0	83.6	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: 5/1/2018

Station ID & Name : CBD5

FIRST SAMPLE TIME: 1350

Project ID: 20154800.004A-01

Arrival Time: 1327

Departure Time: 1415

Target Lat. & Long.:

Sampling Crew (and Agency): Lauren Short - KLF

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, Oily Sheen, Foam, Trash, None, Other

PRECIPITATION: None, Foggy, Drizzle, Rain, Snow

WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other

PRECIPITATION (last 24 hrs): Unknown, <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: 12.5' Sample Depth: 26'

Sacpp

PHYSICAL PARAMETERS	-SAC-2	SR	SAMPLE COLLECTION
Water Temp (Celsius):	19.7	19.56	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):		70's	STARTING BANK: LB / RB / NA
*pH>8.5 or <6.5 pH:	7.94	7.99	OCCUPATION METHOD: Walk-in, Bridge, Other:
*DO<7.0 DO (mg/L):	8.63	8.26	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>feeder</u>
DO %	94.7	99.2	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				

- Sheep grazing nearby

- Current is strong enough to pull on sampler.

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC			Date: 5/1/2018		
Station ID & Name: CBD1			FIRST SAMPLE TIME: 1550		
Project ID: 20154800.004A-01	Arrival Time:	Departure Time: 405	Target Lat. & Long.:		
Sampling Crew (and Agency): Lauren Short - KLF			Actual Lat & Long:		
			Datum:	Accuracy (ft / m):	

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

Comments:

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

PHYSICAL PARAMETERS	SAC-2	SR	SAMPLE COLLECTION
Water Temp (Celsius):	<u>20.9</u>	<u>19.98</u>	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):	<u>70's</u>		STARTING BANK: LB / RB / NA
*pH>8.5 or <6.5 pH:	<u>7.87</u>	<u>6.5</u>	OCCUPATION METHOD: Walk-in, <u>Bridge</u> , Other: _____
*DO<7.0 DO (mg/L):	<u>6.13</u>	<u>5.70</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>Kemmer</u>
<u>DO %</u>	<u>68.1</u>	<u>62.7</u>	SAMPLE LOCATION: Bank, Thalweg, <u>Midchannel</u> , Open Water
			HYDRO-MODIFICATION: None, <u>Bridge</u> , 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
				Fisherman fishing
	See Attached Chain of Custodies			turtles on the bank

Project No. 20154800.004A		Project Name RPP- W1D1				Analysis		Receiving Lab: KLF SAMPLE CONTROL				
Task 01		L.P. No. (PO No.)		Samplers: (Signature/Number) <i>[Signature]</i>								
Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	No. of Containers	Type of Containers	HOLD		See Craig Riddle or Lauren Short before disturbing these samples				
1	05/01/18	0825	SR1-B-1-1	W	1					1-L Amber	X	
2	05/01/18	1010	SSB-B-1-1	W	1					1-L Amber	X	
3	05/01/18	1200	BS1-B-1-1	W	1					1-L Amber	X	
4	05/01/18	1350	CBD5-B-1-1	W	1					1-L Amber	X	
5	05/01/18	1550	CBD1-B-1-1	W	1					1-L Amber	X	
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
Relinquished By: <i>[Signature]</i>		Date/Time 5/1/18 1900		Received By: KLF Sample Control		Instructions/Remarks		Send Results To:				
Relinquished By:		Date/Time		Received By:								
Relinquished By:		Date/Time		Received By:								

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC		Date: 5/8/2018	
Station ID & Name: SR1		FIRST SAMPLE TIME: 0840	
Project ID: 20154800.004A-01	Arrival Time: 0809	Departure Time: 0850	Target Lat. & Long.:
Sampling Crew (and Agency): Lauren Short - KLF		Actual Lat & Long:	
		Datum:	Accuracy (ft / m):

OBSERVATIONS	WADEABLE: YES / NO	PICTURE NAME/S:
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, <u>Unk</u> , Other	<u>NO</u>	
SITE ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other		SKY CODE: <u>clear</u> , partly cloudy, overcast, fog, hazy
OTHER PRESENCE: <u>Vascular</u> , Nonvascular, Oily Sheen, Foam, Trash, None, Other		PRECIPITATION: <u>None</u> , Foggy, Drizzle, Rain, Snow
WATER ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other		PRECIPITATION (last 24 hrs): Unknown, <1", >1", <u>None</u>
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)		WATERCOLOR: colorless, <u>green</u> , 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: 14' Sample Depth: 7'

PHYSICAL PARAMETERS	SPP	SR	SAMPLE COLLECTION
Water Temp (Celsius):	<u>19.5</u>	<u>19.32</u>	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):	<u>70's</u>		STARTING BANK: LB / RB/ NA <u>Marina</u>
*pH>8.5 or <6.5 pH:	<u>7.68</u>	<u>7.48</u>	OCCUPATION METHOD: Walk-in, Bridge, Other: <u>Marina</u>
*DO<7.0 DO (mg/L):	<u>8.80</u>	<u>8.32</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>Kemmerer</u>
<u>DO%</u>	<u>90.8</u>	<u>89.9</u>	SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open <u>Water</u>
			HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: <u>Marina</u>
			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: <u>4'</u>

House boat parked @ Sample location
 measured & sampled ~90 ft upstream on the marina (see pictures)
 #104 is strong enough to pull YSI probes & kemmerer

High flow devices DO Value.
 used H. kemmerer for safety reasons

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC		Date: 5/8/2018	
Station ID & Name: SSB		FIRST SAMPLE TIME: 1000	
Project ID: 20154800.004A-01	Arrival Time: 0934	Departure Time: 1020	Target Lat. & Long.:
Sampling Crew (and Agency): Lauren Short - KLF		Actual Lat & Long:	
		Datum:	Accuracy (ft / m):

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

Comments:

Water Column Thickness: 5 Sample Depth: ~2.

PHYSICAL PARAMETERS	SPP	SR	SAMPLE COLLECTION
Water Temp (Celsius):	<u>21.6</u>	<u>21.49</u>	Sample Depth (circle one): 0.1 m (<u>subsurface grab</u>) -88 (integrated)
Air Temp (°F):	<u>70's</u>		STARTING BANK: LB / RB / <u>NA</u>
*pH>8.5 or <6.5 pH:	<u>7.83</u>	<u>7.68</u>	OCCUPATION METHOD: Walk-in, <u>Bridge</u> , Other: <u>1</u>
*DO<7.0 DO (mg/L):	<u>5.87</u>	<u>4.51</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>fenner</u>
<u>0090</u>	<u>66.3</u>	<u>51.1</u>	SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water
			HYDRO-MODIFICATION: None, <u>Bridge</u> , 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				

- No farm traffic

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC			Date: 5/8/2018		
Station ID & Name : BS1			FIRST SAMPLE TIME: <u>1140</u>		
Project ID: 20154800.004A-01	Arrival Time: <u>1110</u>	Departure Time: <u>1150</u>	Target Lat. & Long.:		
Sampling Crew (and Agency): Lauren Short - KLF			Actual Lat & Long:		
			Datum:	Accuracy (ft / m):	

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

Comments:

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

PHYSICAL PARAMETERS	SPP	SR	SAMPLE COLLECTION
Water Temp (Celsius):	<u>21.6</u>	<u>21.39</u>	Sample Depth (circle one): 0.1 m (<u>subsurface grab</u>) -88 (integrated)
Air Temp (°F):		<u>70's</u>	STARTING BANK: LB / RB / <u>NA</u>
*pH>8.5 or <6.5 pH:	<u>7.58</u>	<u>7.34</u>	OCCUPATION METHOD: Walk-in, <u>Bridge</u> , Other: _____
*DO<7.0 DO (mg/L):	<u>6.45</u>	<u>7.59</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>Kemmerer</u>
<u>00%</u>	<u>73.2</u>	<u>75.3</u>	SAMPLE LOCATION: Bank, Thalweg, <u>Midchannel</u> , Open Water
			HYDRO-MODIFICATION: None, <u>Bridge</u> , 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: 5/8/2018	
Station ID & Name: CBD5		FIRST SAMPLE TIME: 1300	
Project ID: 20154800.004A-01	Arrival Time: 1230	Departure Time: 1320	Target Lat. & Long.:
Sampling Crew (and Agency): Lauren Short - KLF		Actual Lat & Long:	
		Datum:	Accuracy (ft / m):

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

Comments:

Water Column Thickness: 8 Sample Depth: 24 ft

PHYSICAL PARAMETERS	SPP	SR	SAMPLE COLLECTION
Water Temp (Celsius):	<u>22.0</u>	<u>22.72</u>	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):	<u>70's</u>		STARTING BANK: LB / RB / NA
*pH>8.5 or <6.5 pH:	<u>8.00</u>	<u>8.20</u>	OCCUPATION METHOD: Walk-in, <u>Bridge</u> , Other: _____
*DO<7.0 DO (mg/L):	<u>6.58</u>	<u>6.48</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>comeler</u>
<u>DO 9.0</u>	<u>77.4</u>	<u>75.1</u>	SAMPLE LOCATION: Bank, Thalweg, <u>Midchannel</u> , Open Water
			HYDRO-MODIFICATION: None, <u>Bridge</u> , 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
					<u>Pap collected</u>
	See Attached Chain of Custodies				

Flow strong enough to pull on GSI

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC		Date: 5/8/2018	
Station ID & Name: CBD1		FIRST SAMPLE TIME: 1500	
Project ID: 20154800.004A-01	Arrival Time: 1430	Departure Time: 1515	Target Lat. & Long.:
Sampling Crew (and Agency): Lauren Short - KLF		Actual Lat & Long:	
		Datum:	Accuracy (ft / m):

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

Comments:

Water Column Thickness: 9 Sample Depth: ~4.5

PHYSICAL PARAMETERS	SPP	SR	SAMPLE COLLECTION
Water Temp (Celsius):	<u>22.2</u>	<u>20.50</u>	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):	<u>80's</u>		STARTING BANK: LB / RB/ NA
*pH>8.5 or <6.5 pH:	<u>7.51</u>	<u>7.44</u>	OCCUPATION METHOD: Walk-in, <u>Bridge</u> , Other: _____
*DO<7.0 DO (mg/L):	<u>2.47</u>	<u>2.31</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>kenner</u>
<u>00%</u>	<u>23.2</u>	<u>22.4</u>	SAMPLE LOCATION: Bank, Thalweg, <u>Midchannel</u> , Open Water
			HYDRO-MODIFICATION: None, <u>Bridge</u> , 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				

- Trash along the banks
 - Windy

**KLEINFELDER
INSTRUMENT CALIBRATION LOG**

Sampler Name/No.: Lauren Short

Date: 5/8/2018

Project No.: 20154800.004A-01

Job Name: RPP 2018

Calibration
Start Time: 0600

pH Meter: SPP								EC Meter: SPP	
	Time	Temp. via Thermometer	Temp. via YSI Meter	pH7	mVpH (pH 7)	pH10	mVpH (pH10)	1413 umho	
Reading (initial)	0636		25.5	6.98	4.1	9.96	-179.7	Reading (initial)	1437
Calibration (initial)			25.5	7.00	4.1	10.00	-177.7	Calibration (initial)	1413
Reading (intermediate)								Reading (intermediate)	
Calibration (intermediate)								Calibration (intermediate)	
Reading (end of day)								Reading (end of day)	

Comments:

Turbidity Meter (make/number): _____					D.O. Meter: SPP		
	___ NTU	___ NTU	___ NTU	Battery Check	Barometric Pressure: <u>760.7</u> mmHg		
Reading (Initial)						mg/L	%
Calibration						Reading (initial):	105.9
						Reading (adj.):	8.71
						Intermediate Reading (initial):	
						Intermediate Reading (adj.):	



Project No. 20154800.004A Task 01		Project Name RPP- W2D1		No. of Containers	Type of Containers	Analysis										Receiving Lab: California Laboratory Services 3249 Fitzgerald Rd. Rancho Cordova, CA 95742	
L.P. No. (PO No.)	Samplers: (Signature/Number)					Thiobencarb											
Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix														
1	05/08/18	1000	SSB-CLS-2-1-D	W	1	1-L Amber	X										
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
Relinquished By:		Date/Time 05/08/18 1730		Received By: KLF Sample Control		Instructions/Remarks Please send invoice to KLEINFELDER										Send Results To: rfiroved@calrice.org jenny.krenz@CH2M.com criddle@kleinfelder.com lshort@kleinfelder.com	
Relinquished By: KLF Sample Control		Date/Time 05/09/18		Received By:													
Relinquished By:		Date/Time 5-9-18 1112.		Received By:													

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Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC		Date: 5/15/2018	
Station ID & Name : SR1		FIRST SAMPLE TIME: 0810	
Project ID: 20154800.004A-01	Arrival Time: 0600	Departure Time: 0830	Target Lat. & Long.:
Sampling Crew (and Agency): Lauren Short, Meg Doolittle - KLF			Actual Lat & Long:
			Datum:
			Accuracy (ft / m):

OBSERVATIONS	WADEABLE: YES / NO	PICTURE NAME/S:
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, <u>Unk</u> , Other		
1 SITE ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other		SKY CODE: <u>clear</u> , partly cloudy, overcast, fog, hazy
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, <u>None</u> , Other		PRECIPITATION: <u>None</u> , Foggy, Drizzle, Rain, Snow
WATER ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other		PRECIPITATION (last 24 hrs): Unknown, <1", >1", <u>None</u>
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), <u>Murky</u> (<4" vis)		WATERCOLOR: colorless, <u>green</u> , 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, <u>>200cfs</u>		

Comments:

Water Column Thickness: 19' Sample Depth: 9.5

PHYSICAL PARAMETERS	SPP	SR	SAMPLE COLLECTION
Water Temp (Celsius):	<u>19.5</u>	<u>19.31</u>	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):	<u>60's</u>		STARTING BANK: LB / RB/ NA <u>MARINA</u>
*pH>8.5 or <6.5 pH:	<u>7.98</u>	<u>7.24</u>	OCCUPATION METHOD: Walk-in, Bridge, Other: <u>MARINA</u>
*DO<7.0 DO (mg/L):	<u>7.91</u>	<u>6.26</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>Kammerer</u>
			SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water <u>MARINA</u>
			HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: <u>MARINA</u>
			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: <u>5</u>

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC		Date: 5/15/2018
Station ID & Name : SSB		FIRST SAMPLE TIME: 0934
Project ID: 20154800.004A-01	Arrival Time: 0910	Departure Time: 0952
Sampling Crew (and Agency): Lauren Short, Meg Doolittle - KLF		Target Lat. & Long.:
		Actual Lat & Long:
		Datum:
		Accuracy (ft / m):

OBSERVATIONS	WADEABLE: YES (NO)	PICTURE NAME/S:
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, <u>Unk.</u> , Other		
SITE ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other		SKY CODE: <u>clear</u> , partly cloudy, overcast, fog, hazy
OTHER PRESENCE: <u>Vascular</u> , Nonvascular, Oily Sheen, <u>Foam</u> , Trash, None, Other		PRECIPITATION: <u>None</u> , Foggy, Drizzle, Rain, Snow
WATER ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other		PRECIPITATION (last 24 hrs): Unknown, <1", >1", <u>None</u>
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)		WATERCOLOR: colorless, <u>green</u> , 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	SPP	SR	SAMPLE COLLECTION
Water Temp (Celsius):	<u>21.0</u>	<u>20.86</u>	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):	<u>60's</u>		STARTING BANK: LB / RB/ NA
*pH>8.5 or <6.5 pH:	<u>8.03</u>	<u>8.04</u>	OCCUPATION METHOD: Walk-in, <u>Bridge</u> , Other: _____
*DO<7.0 DO (mg/L):	<u>6.27</u>	<u>6.67</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>Kemmerer</u>
			SAMPLE LOCATION: Bank, Thalweg, <u>Midchannel</u> , Open Water
			HYDRO-MODIFICATION: <u>None</u> , <u>Bridge</u> , 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: 5/15/2018	
Station ID & Name : BS1		FIRST SAMPLE TIME: 1130	
Project ID: 20154800.004A-01	Arrival Time: 1115	Departure Time: 1155	Target Lat. & Long.:
Sampling Crew (and Agency): Lauren Short, Meg Doolittle - KLF			Actual Lat & Long:
Datum:		Accuracy (ft / m):	

OBSERVATIONS	WADEABLE: YES / NO	PICTURE NAME/S:
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, <u>Org.</u> , Other		
SITE ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other		SKY CODE: <u>clear</u> , partly cloudy, overcast, fog, hazy
OTHER PRESENCE: <u>Vascular</u> , Nonvascular, Oily Sheen, Foam, Trash, None, Other		PRECIPITATION: <u>None</u> , Foggy, Drizzle, Rain, Snow
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other		PRECIPITATION (last 24 hrs): Unknown, <1", >1", <u>None</u>
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<u>54</u> " vis)		WATERCOLOR: colorless, green, yellow, <u>brown</u> , 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'

PHYSICAL PARAMETERS	SPP	SR	SAMPLE COLLECTION
Water Temp (Celsius):	<u>21.3</u>	<u>21.17</u>	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):	<u>70's</u>		STARTING BANK: LB / RB / NA
*pH>8.5 or <6.5 pH:	<u>7.65</u>	<u>7.79</u>	OCCUPATION METHOD: Walk-in, <u>Bridge</u> Other: _____
*DO<7.0 DO (mg/L):	<u>5.69</u>	<u>2.98</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>Kenner</u>
			SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water
			HYDRO-MODIFICATION: None, <u>Bridge</u> , 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				recalibrated DO, both meters 1126

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC		Date: 5/15/2018	
Station ID & Name : CBD5		FIRST SAMPLE TIME: 1235	
Project ID: 20154800.004A-01	Arrival Time: 1230	Departure Time: 1250	Target Lat. & Long.:
Sampling Crew (and Agency): Lauren Short, Meg Doolittle - KLF		Actual Lat & Long:	
		Datum:	Accuracy (ft / m):

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

Comments:

Water Column Thickness: 5' Sample Depth: 2.5

PHYSICAL PARAMETERS	SPP	SR	SAMPLE COLLECTION
Water Temp (Celsius):	<u>21.6</u>	<u>21.48</u>	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):	<u>70's</u>		STARTING BANK: LB / RB/ NA <u>mid-channel</u>
*pH>8.5 or <6.5 pH:	<u>7.91</u>	<u>8.34</u>	OCCUPATION METHOD: Walk-in, <u>Bridge</u> , Other: _____
*DO<7.0 DO (mg/L):	<u>7.32</u>	<u>5.90</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>Kammerer</u>
			SAMPLE LOCATION: Bank, Thalweg, <u>Midchannel</u> , Open Water
			HYDRO-MODIFICATION: <u>None</u> , <u>Bridge</u> , 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: 5/15/2018	
Station ID & Name : CBD1		FIRST SAMPLE TIME: 1410	
Project ID: 20154800.004A-01	Arrival Time: 13150	Departure Time: 1445	Target Lat. & Long.:
Sampling Crew (and Agency): Lauren Short, Meg Doolittle - KLF			Actual Lat & Long:
			Datum:
			Accuracy (ft / m):

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

Comments:

Water Column Thickness: 11' Sample Depth: 6'

PHYSICAL PARAMETERS	SPP	SR	SAMPLE COLLECTION
Water Temp (Celsius):	<u>21.0</u>	<u>20.86</u>	Sample Depth (circle one): <u>0.1 m (subsurface grab)</u> -88 (integrated)
Air Temp (°F):	<u>70's</u>		STARTING BANK: LB / RB / NA
*pH>8.5 or <6.5 pH:	<u>7.63</u>	<u>8.33</u>	OCCUPATION METHOD: Walk-in, <u>Bridge</u> , Other: _____
*DO<7.0 DO (mg/L):	<u>4.36</u>	<u>4.13</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>Kammerer</u>
			SAMPLE LOCATION: Bank, Thalweg, <u>Midchannel</u> , Open Water
			HYDRO-MODIFICATION: None, <u>Bridge</u> , 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				fisherman near sample site, trash along banks



Project No. 20154800.004A Task 01		Project Name RPP- W3D1		No. of Containers	Type of Containers	Analysis										Receiving Lab: North Coast Laboratories 5680 West End Rd., Arcata CA 95521 Attn: Roxanne Moore (707) 822-4649
L.P. No. (PO No.)	Samplers: (Signature/Number)					Thiobencarb										
Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix													
1	05/15/18	0810	SR1-NCL-3-1	W	1	500 mL	X									
2	05/15/18	0954	SSB-NCL-3-1	W	1	500 mL	X									
3	05/15/18	1130	BS1-NCL-3-1	W	1	500 mL	X									
4	05/15/18	1235	CBD5-NCL-3-1	W	1	500 mL	X									
5	05/15/18	1410	CBD1-NCL-3-1	W	1	500 mL	X									
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
Relinquished By:		Date/Time 05/15/18	Received By: FEDEX		Instructions/Remarks Please send invoice to VALENT LABS										Send Results To: rfiroved@calrice.org jenny.krenz@CH2M.com criddle@kleinfelder.com lshort@kleinfelder.com	
Relinquished By:		Date/Time	Received By:													
Relinquished By:		Date/Time	Received By:													



Project No. 20154800.004A Task 01		Project Name RPP- W3D1		No. of Containers	Type of Containers	Analysis										Receiving Lab: North Coast Laboratories 5680 West End Rd., Arcata CA 95521 Attn: Roxanne Moore (707) 822-4649
L.P. No. (PO No.)	Samplers: (Signature/Number) 					Thiobencarb										
Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix													
1	05/15/18	(33)	CRC1-NCL-3-1	W	1	500 mL	X									
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
Relinquished By:		Date/Time 5/15/18 12:00		Received By:		Instructions/Remarks Please send invoice to KLEINFELDER										Send Results To: rfiroved@calrice.org jenny.krenz@CH2M.com criddle@kleinfelder.com lshort@kleinfelder.com
Relinquished By:		Date/Time		Received By:												
Relinquished By:		Date/Time		Received By:												



Project No. 20154800.004A Task 01		Project Name RPP- W3D1		No. of Containers	Type of Containers	Analysis										Receiving Lab: KLF SAMPLE CONTROL			
L.P. No. (PO No.)	Samplers: (Signature/Number) 															Instructions/Remarks See Craig Riddle or Lauren Short before disturbing these samples			
Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix			HOLD													
1	05/15/18	0810	SR1-B-3-1	W	1	1-L Amber	X												
2	05/15/18	0954	SSB-B-3-1	W	1	1-L Amber	X												
3	05/15/18	1130	BS1-B-3-1	W	1	1-L Amber	X												
4	05/15/18	1235	CBD5-B-3-1	W	1	1-L Amber	X												
5	05/15/18	1410	CBD1-B-3-1	W	1	1-L Amber	X												
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
Relinquished By: 		Date/Time 5/15/18 1600		Received By: KLF Sample Control			Instructions/Remarks										Send Results To:		
Relinquished By:		Date/Time		Received By:															
Relinquished By:		Date/Time		Received By:															

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC		Date: 5/22/2018
StationID & Name : SR1		FIRST SAMPLE TIME: 0840
Project ID: 20154800.004A-01	Arrival Time: 0825	Departure Time: 0350
Sampling Crew (and Agency): Lauren Short - KLF M. Doolittle		Target Lat. & Long.:
		Actual Lat & Long:
		Datum:
		Accuracy (ft / m):

OBSERVATIONS	WADEABLE: YES / NO	PICTURE NAME/S:
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, <u>Ink.</u> , Other	<u>NO</u>	
SITE ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other		SKY CODE: <u>clear</u> , partly cloudy, overcast, fog, hazy
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, <u>None</u> , Other		PRECIPITATION: <u>None</u> , Foggy, Drizzle, Rain, Snow
WATER ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other		PRECIPITATION (last 24 hrs): Unknown, <1", >1", <u>None</u>
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)		WATERCOLOR: colorless, <u>green</u> , yellow, <u>brown</u> , 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, > <u>200cfs</u>		

Comments:

Water Column Thickness: 16' Sample Depth: 6'

PHYSICAL PARAMETERS	SPP	SR	SAMPLE COLLECTION
Water Temp (Celsius):	<u>19.9</u>	<u>19.75</u>	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):	<u>60'S</u>		STARTING BANK: LB / RB/ NA
*pH>8.5 or <6.5 pH:	<u>7.92</u>	<u>7.62</u>	OCCUPATION METHOD: Walk-in, Bridge, Other: <u>Marina</u>
*DO<7.0 DO (mg/L):	<u>8.58</u>	<u>9.41</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>kennera</u>
			SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water <u>Marina</u>
			HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: <u>Marina</u>
			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
					Sample @ 6' due to Strong Current
	See Attached Chain of Custodies				
					Staff Gauge: <u>4'</u>

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC		Date: 5/22/2018
Station ID & Name : SSB		FIRST SAMPLE TIME: 0937
Project ID: 20154800.004A-01	Arrival Time: 0927	Departure Time: 1010
Sampling Crew (and Agency): Lauren Short - KLF <i>M. Doolittle</i>		Target Lat. & Long.:
		Actual Lat & Long:
		Datum:
		Accuracy (ft / m):

OBSERVATIONS	WADEABLE: YES / NO	PICTURE NAME/S:
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, <u>log</u> , Other		
SITE ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other		SKY CODE: <u>clear</u> , partly cloudy, overcast, fog, hazy
OTHER PRESENCE: <u>Vascular</u> , Nonvascular, OilySheen, <u>foam</u> , Trash, None, Other		PRECIPITATION: <u>None</u> , Foggy, Drizzle, Rain, Snow
WATER ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other		PRECIPITATION (last 24 hrs): Unknown, <1", >1", <u>None</u>
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<u><4" vis</u>)		WATERCOLOR: colorless, green, yellow, <u>brown</u> , other
OBSERVED FLOW: NA, Dry Waterbody Bed, No <u>Observed</u> 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	SPP	SR	SAMPLE COLLECTION
Water Temp (Celsius):	<u>22.0</u>	<u>21.30</u>	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):	<u>70's</u>		STARTING BANK: LB / RB/ NA
*pH>8.5 or <6.5 pH:	<u>8.04</u>	<u>8.03</u>	OCCUPATION METHOD: Walk-in, <u>Bridge</u> , Other: _____
*DO<7.0 DO (mg/L):	<u>4.02</u>	<u>3.97</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>te mure</u>
	<u>6.51</u>	<u>3.48</u>	SAMPLE LOCATION: Bank, Thalweg, <u>Midchannel</u> , Open Water
			HYDRO-MODIFICATION: None, <u>Bridge</u> , 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: 5/22/2018
StationID & Name : BS1		FIRST SAMPLE TIME: 1140
Project ID: 20154800.004A-01	Arrival Time: 125	Departure Time: 1253
Sampling Crew (and Agency): Lauren Short - KLF		Target Lat. & Long.:
		Actual Lat & Long:
		Datum:
		Accuracy (ft / m):

OBSERVATIONS	WADEABLE: YES / NO	PICTURE NAME/S:
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, <u>Unk</u> , Other		
SITE ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other		SKY CODE: <u>clear</u> , partly cloudy, overcast, fog, hazy
OTHER PRESENCE: <u>None</u> , Vascular, Nonvascular, OilySheen, Foam, Trash, None, Other		PRECIPITATION: <u>None</u> , Foggy, Drizzle, Rain, Snow
WATER ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other		PRECIPITATION (last 24 hrs): Unknown, <1", >1", <u>None</u>
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)		WATERCOLOR: colorless, green, yellow, <u>brown</u> , other
OBSERVED FLOW: NA, Dry Waterbody Bed, No <u>Observed</u> 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	SPP	SR	SAMPLE COLLECTION
Water Temp (Celsius):	<u>22.1</u>	<u>21.97</u>	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):	<u>70's</u>		STARTING BANK: LB / RB/ NA
*pH>8.5 or <6.5 pH:	<u>7.78</u>	<u>8.06</u>	OCCUPATION METHOD: Walk-in, <u>Bridge</u> , Other: _____
*DO<7.0 DO (mg/L):	<u>6.51</u>	<u>3.48</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>kenner</u>
			SAMPLE LOCATION: Bank, Thalweg, <u>Midchannel</u> , Open Water
			HYDRO-MODIFICATION: None, <u>Bridge</u> , 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
					<u>QC - dup</u>
	See Attached Chain of Custodies				

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC		Date: 5/22/2018
Station ID & Name : CBD5		FIRST SAMPLE TIME: 1345
Project ID: 20154800.004A-01	Arrival Time: 1327	Departure Time: 1445
Sampling Crew (and Agency): Lauren Short - KLF		Target Lat. & Long.:
		Actual Lat & Long:
		Datum:
		Accuracy (ft / m):

OBSERVATIONS	WADEABLE: YES / NO	PICTURE NAME/S:
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, <u>Unk.</u> , Other	<u>NO</u>	
SITE ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other		SKY CODE: clear, partly cloudy, overcast, fog, hazy
OTHER PRESENCE: <u>Vascular</u> , Nonvascular, Oily/Sheen, <u>Foam</u> , Trash, None, Other <u>truck tire</u>		PRECIPITATION: None, Foggy, Drizzle, Rain, Snow
WATER ODOR: <u>None</u> , 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, <u>5 - 20 cfs</u> , 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 9.5' Sample Depth: 4'

PHYSICAL PARAMETERS	SPP	SR	SAMPLE COLLECTION
Water Temp (Celsius):	<u>23.0</u>	<u>22.83</u>	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):	<u>80's</u>		STARTING BANK: LB / RB/ NA
*pH>8.5 or <6.5 pH:	<u>7.98</u>	<u>8.65</u>	OCCUPATION METHOD: Walk-in, <u>Bridge</u> , Other: _____
*DO<7.0 DO (mg/L):	<u>9.48</u>	<u>7.04</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>kenner</u>
			SAMPLE LOCATION: Bank, Thalweg, <u>Midchannel</u> , Open Water
			HYDRO-MODIFICATION: None, <u>Bridge</u> , 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				

isolated ponds in adjacent
lower ways

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC		Date: 5/22/2018
Station ID & Name : CBD1		FIRST SAMPLE TIME: 1605
Project ID: 20154800.004A-01	Arrival Time: 1530	Departure Time: 1650
Sampling Crew (and Agency): Lauren Short - KLF		Target Lat. & Long.:
		Actual Lat & Long:
		Datum:
		Accuracy (ft / m):

OBSERVATIONS	WADEABLE: YES () NO ()	PICTURE NAME/S:
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, <u>Unk.</u> , Other		
SITE ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other		SKY CODE: <u>clear</u> , partly cloudy, overcast, fog, hazy
OTHER PRESENCE: <u>Vascular</u> , Nonvascular, OilySheen, Foam, <u>Trash</u> , None, Other		PRECIPITATION: <u>None</u> , Foggy, Drizzle, Rain, Snow
WATER ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other		PRECIPITATION (last 24 hrs): Unknown, <1", >1", <u>None</u>
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)		WATERCOLOR: colorless, green, yellow, <u>brown</u> , 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: Sunken boat

Water Column Thickness: 7 Sample Depth: 3.5

PHYSICAL PARAMETERS	SPP	SR	SAMPLE COLLECTION
Water Temp (Celsius):	<u>23.5</u>	<u>23.1</u>	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):	<u>80's</u>		STARTING BANK: LB / RB/ NA
*pH>8.5 or <6.5 pH:	<u>7.80</u>	<u>8.91</u>	OCCUPATION METHOD: Walk-in, <u>Bridge</u> , Other: _____
*DO<7.0 DO (mg/L):	<u>3.43</u>	<u>1.91</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>ke man</u>
			SAMPLE LOCATION: Bank, Thalweg, <u>Midchannel</u> , Open Water
			HYDRO-MODIFICATION: None, <u>Bridge</u> , 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				

Project No. 20154800.004A Task 01		Project Name RPP- W4D1			No. of Containers	Type of Containers	Analysis										Receiving Lab: North Coast Laboratories 5680 West End Rd., Arcata CA 95521 Attn: Roxanne Moore (707) 822-4649				
L.P. No. (PO No.)	Samplers: (Signature/Number) <i>Short</i>			Date MM/DD/YY			Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	Thiobencarb											
1	05/22/18	0840	SR1-NCL-4-1		W	1															
2	05/22/18	0937	SSB-NCL-4-1	W	1	500 mL	X														
3	05/22/18	1140	BS1-NCL-4-1	W	1	500 mL	X														
4	05/22/18	1345	CBD5-NCL-4-1	W	1	500 mL	X														
5	05/22/18	1605	CBD1-NCL-4-1	W	1	500 mL	X														
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					
Relinquished By: <i>[Signature]</i>		Date/Time 5/24/18 1900		Received By: KLF Sample Control		Instructions/Remarks Please send invoice to VALENT LABS										Send Results To: rfiroved@calrice.org jenny.krenz@CH2M.com criddle@kleinfelder.com lshort@kleinfelder.com					
Relinquished By: KLF Sample Control		Date/Time 5/24/18 1700		Received By: <i>[Signature]</i>																	
Relinquished By: <i>[Signature]</i>		Date/Time 5/24/18 1900		Received By: FEDEX																	



Project No. 20154800.004A Task 01		Project Name RPP- W4D1		No. of Containers	Type of Containers	Analysis										Receiving Lab: California Laboratory Services 3249 Fitzgerald Rd. Rancho Cordova, CA 95742	
L.P. No. (PO No.)		Samplers: (Signature/Number) <i>Short</i>				Thiobencarb										Instructions/Remarks Standard turn around time	
Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix														
1	05/22/18	1141	BS1-CLS-4-1-D	W	1	1-L Amber	X										
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
Relinquished By: <i>[Signature]</i>		Date/Time 5/24/18 11:00		Received By: KIF Sample Control		Instructions/Remarks Please send invoice to KLEINFELDER										Send Results To: rfiroved@calrice.org jenny.krenz@CH2M.com criddle@kleinfelder.com lshort@kleinfelder.com	
Relinquished By: KIF SC		Date/Time 5/23/18 08:55		Received By: <i>[Signature]</i>													
Relinquished By: <i>[Signature]</i>		Date/Time 5/23/18 08:15		Received By: W. [Signature] 5/23/18 08:15													

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC		Date: 5/23/2018 5/24/18
StationID & Name : SR1		FIRST SAMPLE TIME: 8:30
Project ID: 20154800.004A-01	Arrival Time: 0806	Departure Time: 0840
Sampling Crew (and Agency): Lauren Short - KLF, J. Cowley -KLF		Target Lat. & Long.:
		Actual Lat & Long:
		Datum:
		Accuracy (ft / m):

OBSERVATIONS	WADEABLE: YES / NO	PICTURE NAME/S:
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, <u>Unk</u> , Other	YES / NO	
SITE ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other		SKY CODE: <u>clear</u> , partly cloudy, overcast, fog, hazy
OTHER PRESENCE: <u>Vascular</u> , Nonvascular, OilySheen, Foam, Trash, None, Other		PRECIPITATION: <u>None</u> , Foggy, Drizzle, Rain, Snow
WATER ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other		PRECIPITATION (last 24 hrs): Unknown, <1", >1", <u>None</u>
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), <u>Murky</u> (<4" vis)		WATERCOLOR: colorless, <u>green</u> , 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, <u>>200cfs</u>		

Comments:

Water Column Thickness: 20 ft Sample Depth: 7'

PHYSICAL PARAMETERS	SPP	SR	SAMPLE COLLECTION
Water Temp (Celsius):	<u>20.1</u>	<u>19.89</u>	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):	<u>70's</u>		STARTING BANK: LB / RB/ NA
*pH>8.5 or <6.5 pH:	<u>7.84</u>	<u>7.54</u>	OCCUPATION METHOD: Walk-in, Bridge, Other: <u>Marina</u>
*DO<7.0 DO (mg/L):	<u>6.36</u>	<u>6.66</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>Kemmerer</u>
			SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water <u>marina</u>
			HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: <u>marina</u>
			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: <u>5</u>

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC		Date: 5/23/2018 5/24/18
StationID & Name : SSB		FIRST SAMPLE TIME: 9:50
Project ID: 20154800.004A-01	Arrival Time: 0931	Departure Time: 10:00
Sampling Crew (and Agency): Lauren Short - KLF, J. Cowley -KLF		Target Lat. & Long.:
		Actual Lat & Long:
		Datum:
		Accuracy (ft / m):

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

Comments:

Water Column Thickness: 7' Sample Depth: 3 1/2'

PHYSICAL PARAMETERS	SPP	SR	SAMPLE COLLECTION
Water Temp (Celsius):	<u>22.1</u>	<u>21.94°C</u>	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):	<u>70's</u>		STARTING BANK: LB / RB/ NA
*pH>8.5 or <6.5 pH:	<u>8.02</u>	<u>8.11</u>	OCCUPATION METHOD: Walk-in, <u>Bridge</u> , Other: _____
*DO<7.0 DO (mg/L):	<u>6.37</u>	<u>6.97</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>Kemmerer</u>
			SAMPLE LOCATION: Bank, Thalweg, <u>Midchannel</u> , Open Water
			HYDRO-MODIFICATION: None, <u>Bridge</u> , 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: 5/23/2018 5/24/18
StationID & Name : BS1		FIRST SAMPLE TIME: 11:15
Project ID: 20154800.004A-01	Arrival Time: 10:45	Departure Time: 11:25
Sampling Crew (and Agency): Lauren Short - KLF, J. Cowley -KLF		Target Lat. & Long.:
		Actual Lat & Long:
		Datum:
		Accuracy (ft / m):

OBSERVATIONS	WADEABLE: YES / NO	PICTURE NAME/S:
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, <u>Unk</u> , Other		
SITE ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other		SKY CODE: clear, <u>partly cloudy</u> , overcast, fog, hazy
OTHER PRESENCE: <u>Vascular</u> , Nonvascular, OilySheen, Foam, <u>Trash</u> , None, Other		PRECIPITATION: <u>None</u> , Foggy, Drizzle, Rain, Snow
WATER ODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other		PRECIPITATION (last 24 hrs): Unknown, <1", >1", <u>None</u>
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), <u>Murky</u> (<4" vis)		WATERCOLOR: colorless, green, yellow, <u>brown</u> , other
OBSERVED FLOW: NA, Dry Waterbody Bed, <u>No Observed Flow</u> , 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	SPP	SR	SAMPLE COLLECTION
Water Temp (Celsius):	<u>22.4</u>	<u>22.23</u>	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):	<u>70's</u>		STARTING BANK: LB / RB/ NA
*pH>8.5 or <6.5 pH:	<u>7.78</u>	<u>7.80</u>	OCCUPATION METHOD: Walk-in, <u>Bridge</u> , Other: _____
*DO<7.0 DO (mg/L):	<u>5.92</u>	<u>6.30</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>Femur</u>
			SAMPLE LOCATION: Bank, Thalweg, <u>Midchannel</u> , Open Water
			HYDRO-MODIFICATION: None, <u>Bridge</u> , 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			

Person Fishing

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC		Date: 5/27/18 5/27/18
Station ID & Name: CBD5		FIRST SAMPLE TIME: 12:15
Project ID: 20154800.004A-01	Arrival Time: 11:55	Departure Time: 12:30
Sampling Crew (and Agency): Lauren Short - KLF, J. Cowley -KLF		Target Lat. & Long.:
		Actual Lat & Long:
		Datum:
		Accuracy (ft / m):

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

Comments:

Water Column Thickness: 8' Sample Depth: 4'

PHYSICAL PARAMETERS	SPP	SR	SAMPLE COLLECTION
Water Temp (Celsius):	<u>22.0</u>	<u>21.85</u>	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):		<u>80's</u>	STARTING BANK: LB / RB/ NA
*pH>8.5 or <6.5 pH:	<u>8.05</u>	<u>8.28</u>	OCCUPATION METHOD: Walk-in, <u>Bridge</u> , Other: _____
*DO<7.0 DO (mg/L):	<u>7.41</u>	<u>11.37</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>KUMMERER</u>
			SAMPLE LOCATION: Bank, Thalweg, <u>Midchannel</u> , Open Water
			HYDRO-MODIFICATION: None, <u>Bridge</u> , 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: 5/22/18 5/24/18	
Station ID & Name: CBD1		FIRST SAMPLE TIME: 13:36	
Project ID: 20154800.004A-01	Arrival Time: 1315	Departure Time: 1400	Target Lat. & Long.:
Sampling Crew (and Agency): Lauren Short - KLF, J. Cowley -KLF		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: 6' Sample Depth: 3'

PHYSICAL PARAMETERS	SPP	SR	SAMPLE COLLECTION
Water Temp (Celsius):	23.3	23.18	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):		80.2	STARTING BANK: LB / RB/ NA
*pH>8.5 or <6.5 pH:	7.84	8.26	OCCUPATION METHOD: Walk-in, (Bridge), Other: _____
*DO<7.0 DO (mg/L):	4.98	8.80	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>Kemmerer</u>
			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):
Transfer Calculated Value From Discharge Worksheet			Wet Channel Width (m):
			Midchannel depth (m):
			Stage:

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

**KLEINFELDER
INSTRUMENT CALIBRATION LOG**

Sampler Name/No.: Lauren Short

Date: ²⁹5/23/2018

Project No.: 20154800.004A-01

Job Name: RPP 2018

Calibration
Start Time: 0600

pH Meter: SR								EC Meter: SR	
	Time	Temp. via Thermometer	Temp. via YSI Meter	pH7	mVpH (pH 7)	pH10	mVpH (pH10)		1413 umho
Reading (initial)	0620		21.9	7.26	-65.5	10.14	-160.4	Reading (initial)	1403
Calibration (initial)	0650		22.2	7.00	-62.3	10.00	-160.4	Calibration (initial)	1413
Reading (intermediate)				7.10	-69.2			Reading (intermediate)	1408
Calibration (intermediate)				7.00	-62.3			Calibration (intermediate)	1413
Reading (end of day)								Reading (end of day)	

Comments:
 pH calibration out of range on the first attempt, un-cal'd it again re-calibrated it starting w/ EC. pH calibration successful on pH 7 fluid

Turbidity Meter (make/number): _____					D.O. Meter: SR			
	___ NTU	___ NTU	___ NTU	Battery Check	Barometric Pressure: <u>760.2</u> mmHg			
Reading (Initial)							mg/L	%
Calibration						Reading (initial):	6.63	73.1
						Reading (adj.):	9.09	100.1
						Intermediate Reading (initial):		
						Intermediate Reading (adj.):		

**KLEINFELDER
INSTRUMENT CALIBRATION LOG**

Sampler Name/No.: Lauren Short

Date: ²⁴5/23/2018

Project No.: 20154800.004A-01

Job Name: RPP 2018

Calibration
Start Time: 0600

pH Meter: SPP								EC Meter: SPP	
	Time	Temp. via Thermometer	Temp. via YSI Meter	pH7	mVpH (pH 7)	pH10	mVpH (pH10)		1413 umho
Reading (initial)	0620		22.0	7.03	1.4	10.03	-197.7	Reading (initial)	1413
Calibration (initial)	0647		22.1	7.00	1.4	10.00	-197.7	Calibration (initial)	1413
Reading (intermediate)								Reading (intermediate)	
Calibration (intermediate)								Calibration (intermediate)	
Reading (end of day)								Reading (end of day)	

Comments:

Turbidity Meter (make/number): _____					D.O. Meter: SPP		
	___ NTU	___ NTU	___ NTU	Battery Check	Barometric Pressure: ^{759.5} ___ mmHg		
Reading (Initial)						mg/L	%
Calibration						Reading (initial):	100.4
						Reading (adj.):	9.2 99.9
						Intermediate Reading (initial):	
						Intermediate Reading (adj.):	



Project No. 20154800.004A Task 01		Project Name RPP- W4D2			No. of Containers	Type of Containers	Analysis										Receiving Lab: North Coast Laboratories 5680 West End Rd., Arcata CA 95521 Attn: Roxanne Moore (707) 822-4649	
L.P. No. (PO No.)	Samplers: (Signature/Number) <i>Short</i>						Thiobencarb											
Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix															
1	05/24/18	8:30	SR1-NCL-4-2	W	1	500 mL	X											
2	05/24/18	9:50	SSB-NCL-4-2	W	1	500 mL	X											
3	05/24/18	11:15	BS1-NCL-4-2	W	1	500 mL	X											
4	05/24/18	12:15	CBD5-NCL-4-2	W	1	500 mL	X											
5	05/24/18	13:36	CBD1-NCL-4-2	W	1	500 mL	X											
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
Relinquished By: <i>[Signature]</i>		Date/Time 5/24/18 1900		Received By: FEDEX			Instructions/Remarks Please send invoice to VALENT LABS										Send Results To: rfiroved@calrice.org jenny.krenz@CH2M.com criddle@kleinfelder.com lshort@kleinfelder.com	
Relinquished By:		Date/Time		Received By:														
Relinquished By:		Date/Time		Received By:														

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC		Date: 5/29/2018
StationID & Name : SR1		FIRST SAMPLE TIME: <u>9:16</u>
Project ID: 20154800.003A-01	Arrival Time: <u>8:50</u>	Departure Time: <u>9:33</u>
Sampling Crew (and Agency): M. Doolittle, J. Cowley - KLF		Target Lat. & Long.:
		Actual Lat & Long:
		Datum:
		Accuracy (ft / m):

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

Comments:

Water Column Thickness: 18' Sample Depth: 9'

rented

PHYSICAL PARAMETERS		SPP	SR	SAMPLE COLLECTION
Water Temp (Celsius):		<u>20.8</u>	<u>20.8</u>	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):			<u>70's</u>	STARTING BANK: LB / RB/ NA
*pH>8.5 or <6.5	pH:	<u>7.74</u>	<u>7.61</u>	OCCUPATION METHOD: Walk-in, Bridge, Other: <u>marina</u>
*DO<7.0	DO (mg/L):	<u>8.47</u>	<u>8.34</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>Kemmerer</u>
				SAMPLE LOCATION: Bank, Thalweg, Midchannel, <u>Open Water</u>
				HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: <u>marina</u>
				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
√				QC - Duplicate Collected @ <u>0917</u>
See Attached Chain of Custodies				
				Staff Gauge: <u>6'</u>

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC		Date: 5/29/2018
StationID & Name : SSB		FIRST SAMPLE TIME: 11:11
Project ID: 20154800.003A-01	Arrival Time: 10:31	Departure Time: 11:25
Sampling Crew (and Agency): Lauren Short J. CROWLEY, M. DOOLITTLE		Target Lat. & Long.:
		Actual Lat & Long:
		Datum:
		Accuracy (ft / m):

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

Comments: Photo of rented YSI (to get cable length) Water Column Thickness: 10' Sample Depth: 5'
 Pro DSS TDS mg

PHYSICAL PARAMETERS		SPP	SR	SAMPLE COLLECTION
Water Temp (Celsius):		<u>24.7</u>	<u>24.7</u>	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):			<u>80's</u>	STARTING BANK: LB / RB/ NA
*pH>8.5 or <6.5	pH:	<u>7.72</u>	<u>7.76</u>	OCCUPATION METHOD: Walk-in, <u>Bridge</u> , Other: _____
*DO<7.0	DO (mg/L):	<u>6.45</u>	<u>6.93</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>Kemmerer</u>
				SAMPLE LOCATION: Bank, Thalweg, <u>Midchannel</u> , Open Water
				HYDRO-MODIFICATION: None, <u>Bridge</u> , 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: 5/29/2018
StationID & Name : BS1		FIRST SAMPLE TIME: 12:36
Project ID: 20154800.003A-01	Arrival Time: 12:18	Departure Time: 12:44
Sampling Crew (and Agency): Lauren Short M. DOOLI		Target Lat. & Long.:
		Actual Lat & Long:
		Datum:
		Accuracy (ft / m):

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

Comments:

Water Column Thickness: 10' Sample Depth: 5'

TDS: 168.6 mg/L

PHYSICAL PARAMETERS	SPP	SR	SAMPLE COLLECTION
Water Temp (Celsius):	<u>24.1</u>	<u>24.0</u>	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):	<u>85</u>		STARTING BANK: LB / RB/ NA
*pH>8.5 or <6.5 pH:	<u>7.60</u>	<u>7.63</u>	OCCUPATION METHOD: Walk-in, <u>Bridge</u> , Other: _____
*DO<7.0 DO (mg/L):	<u>5.73</u>	<u>6.22</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>Kemmeter</u>
			SAMPLE LOCATION: Bank, Thalweg, <u>Midchannel</u> , Open Water
			HYDRO-MODIFICATION: None, <u>Bridge</u> , 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: 5/29/2018		
StationID & Name : CBD5			FIRST SAMPLE TIME: 13:34		
Project ID: 20154800.003A-01	Arrival Time: 13:19	Departure Time: 13:50	Target Lat. & Long.:		
Sampling Crew (and Agency): Lauren Short M. DOOLITTLE, J. CROWLEY			Actual Lat & Long:		
			Datum:	Accuracy (ft / m):	

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

Comments:

Water Column Thickness: 8' Sample Depth: 4'

TDS 337.00

PHYSICAL PARAMETERS	SPP	SR	SAMPLE COLLECTION
Water Temp (Celsius):	<u>25.5</u>	<u>25.4</u>	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):	<u>95</u>		STARTING BANK: LB / RB/ NA
*pH>8.5 or <6.5 pH:	<u>7.89</u>	<u>7.96</u>	OCCUPATION METHOD: Walk-in, <u>Bridge</u> , Other: _____
*DO<7.0 DO (mg/L):	<u>7.21</u>	<u>7.15</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>Kammener</u>
			SAMPLE LOCATION: Bank, Thalweg, <u>Midchannel</u> , Open Water
			HYDRO-MODIFICATION: None, <u>Bridge</u> , 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: 5/29/2018
StationID & Name : CBD1		FIRST SAMPLE TIME: 14:58
Project ID: 20154800.003A-01	Arrival Time: 14:35	Departure Time: 14:46
Sampling Crew (and Agency): Lauren Short M. DOOLITTLE, J. CROWLEY		Target Lat. & Long.:
		Actual Lat & Long:
		Datum:
		Accuracy (ft / m):

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

TDS 308.7 ^{mg}/_L

PHYSICAL PARAMETERS	SPP	SR	SAMPLE COLLECTION
Water Temp (Celsius):	<u>24.4</u>	<u>24.3</u>	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):	<u>96</u>		STARTING BANK: LB / RB / NA
*pH>8.5 or <6.5 pH:	<u>7.67</u>	<u>7.70</u>	OCCUPATION METHOD: Walk-in, <u>Bridge</u> , Other: _____
*DO<7.0 DO (mg/L):	<u>4.25</u>	<u>4.81</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>KEMETEC</u>
			SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water
			HYDRO-MODIFICATION: None, <u>Bridge</u> , 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				

**KLEINFELDER
INSTRUMENT CALIBRATION LOG**

Sampler Name/No.: J. COWLEY 12850

Date: 5/29/2018

Project No.: 20154800.004A-01

Job Name: RPP 2018

Calibration
Start Time: 0603

pH Meter: SPP							EC Meter: SPP		
	Time	Temp. via Thermometer	Temp. via YSI Meter	pH7	mVpH (pH 7)	pH10	mVpH (pH10)	1413 umho	
Reading (initial)	0624		28.5	7.03	1.0	10.02		Reading (initial)	1428
Calibration (initial)				7.00		10.02	-183.9	Calibration (initial)	1413
Reading (intermediate)								Reading (intermediate)	
Calibration (intermediate)								Calibration (intermediate)	
Reading (end of day)								Reading (end of day)	

Comments:

Turbidity Meter (make/number): _____					D.O. Meter: SPP			
	___ NTU	___ NTU	___ NTU	Battery Check	Barometric Pressure: <u>754.5</u> mmHg			
Reading (Initial)							mg/L	%
Calibration						Reading (initial):		103.5
						Reading (adj.):	8.26	99.3
						Intermediate Reading (initial):		
						Intermediate Reading (adj.):		



Calibrated at Geotech's California North service center
 4620 Northgate Blvd; Suite 170
 Sacramento, CA 95834
 Fax: (916) 648-7766

YSI Pro Series Calibration Certificate

Unit Number: 5838

Calibration Date 5/29/2018

Serial Number: 17C102741

Technician: Nick Robello

Installed Probes

- Conductivity
- PH
- ORP
- DO

- Display is clear, and free of damage
- Cable and accessories are free of damage
- Firmware version is up to date.

Display Battery 5.5 V **Pass**
 Spare Battery 6 V **Pass**
 Cable Flex Test: **Pass**

Cable Length 4M
 Cable Lot # 17D100615
 Cond Probe Lot # 17D100425
 Bath Temp 19.9 °C
 Meter Temp 20.1 °C
 Variance -0.20 **Pass**

pH Probe Lot # 17A
 ORP Probe Lot 17C
 DO Probe Lot # 17C100644

Cond		
Calibration	Reading	Pass
1.413 mS	1.413 mS	Pass

Buffer Lot #	Exp. Date	Pass
7GF513	6/18	Pass

pH							
Point Test	Calibration	Reading	mV	Slope	Pass	Buffer Lot #	Exp. Date
2 Point	pH 7	pH 7	-28 mV	174.1	Pass	7GC1079	3/19
	pH 10	pH 10	-202.1 mV			7GD255	4/19

ORP		
Calibration	Reading	Pass
220 mV	220 mV	Pass

Buffer Lot #	Exp. Date	Pass
7GH163	5/18	Pass

DO				
Barometer	Calibration	Reading	Variance	Pass
769.7 mmHg	101.3 %	100.7 %	-0.6%	Pass

Time:		Min.	Sec.	Reading	Pass	Test Fluid	Nitrogen Lot #
		2	40	2 %	Pass	Water Saturated Air	15182N2

Geotech Environmental Equipment, Inc. takes pride in ensuring this instrument is tested to function as specified by the manufacturer and was calibrated in accordance to manufacturer specifications. All calibration standards used are NIST traceable. With the provided lot numbers we can provide NIST documents on request. Call us at (800) 833-7958 and we will be glad to help.



Calibrated at Geotech's California North service center
 4620 Northgate Blvd; Suite 170
 Sacramento, CA 95834
 Fax: (916) 648-7766

YSI Pro DSS Calibration Certificate

Unit Number: 5411

Calibration Date 5/21/2018

Serial Number: 16B103528

Technician: Nick Robello

Installed Probes

- Conductivity
- PH/ORP
- DO
- TURB

- Display is clear, and free of damage
- Cable and accessories are free of damage
- Firmware version is up to date.
- Display Battery 100 % **Pass**
- Cable Flex Test: **Pass**

Cable Length	10M	pH/ORP Serial #	16B104023
Cable Lot #	16C100642	DO Probe Serial #	17K104779
Cond Probe Lot #	16B103789	Turb Probe Serial #	16B103992
Bath Temp	22.5 °C		
Meter Temp	22.3 °C		
Variance	-0.20	Pass	

Cond		
Calibration	Reading	Pass
1.413 mS	1.413 mS	Pass

Buffer Lot #	Exp. Date	Pass
8GA635	1/19	Pass

pH							
Point Test	Calibration	Reading	mV	Slope	Buffer Lot #	Exp. Date	Pass
2 Point	pH 7	pH 7	-8.9 mV		7GC1079	3/19	Pass
	pH 10	pH 10	-187.8 mV	178.9	7GD255	4/19	Pass

ORP					
Calibration	Reading	Pass	Buffer Lot #	Exp. Date	Pass
220 mV	220 mV	Pass	7GH163	5/18	Pass

Turbidity										
Zero	Reading	Variance	Pass	Cal	Reading	Variance	Pass	Buffer Lot #	Exp. Date	Pass
0 ntu	0 ntu	0 ntu	Pass	124 ntu	124 ntu	0.0%	Pass	17F797417	6/18	Pass

DO						
Barometer	Calibration	Reading	Variance	Pass	Test Fluid	
755.9 mmHg	99.5 %	98.5 %	-1.0%	Pass	Water Saturated Air	

Time:	Min.	Sec.	Reading	Pass	Nitrogen Lot #
	3	50	1 %	Pass	15182N2

Geotech Environmental Equipment, Inc. takes pride in ensuring this instrument is tested to function as specified by the manufacturer and was calibrated in accordance to manufacturer specifications. All calibration standards used are NIST traceable. With the provided lot numbers we can provide NIST documents on request. Call us at (800) 833-7958 and we will be glad to help.



COC# 683377

Project No. 20154800.004A Task 01		Project Name RPP- W5D1		No. of Containers	Type of Containers	Analysis										Receiving Lab: North Coast Laboratories 5680 West End Rd., Arcata CA 95521 Attn: Roxanne Moore (707) 822-4649		
L.P. No. (PO No.)	Samplers: (Signature/Number) <i>[Signature]</i> 12535					Thiobencarb												Instructions/Remarks Standard turn around time
Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix															
1	05/29/18	9:16	SR1-NCL-5-1	W	1	500 mL	X											
2	05/29/18	11:11	SSB-NCL-5-1	W	1	500 mL	X											at 45° angle
3	05/29/18	12:36	BS1-NCL-5-1	W	1	500 mL	X											
4	05/29/18	13:34	CBD5-NCL-5-1	W	1	500 mL	X											
5	05/29/18	14:58	CBD1-NCL-5-1	W	1	500 mL	X											
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
Relinquished By: <i>[Signature]</i>		Date/Time 5/29/18 1621		Received By: KLF Sample Control		Instructions/Remarks Please send invoice to VALENT LABS										Send Results To: rfiroved@calrice.org jenny.krenz@CH2M.com criddle@kleinfelder.com lshort@kleinfelder.com		
Relinquished By: KLF Sample Control		Date/Time		Received By:														
Relinquished By:		Date/Time		Received By: FEDEX														



Project No. 20154800.004A Task 01		Project Name RPP- W5D1		No. of Containers	Type of Containers	Analysis										Receiving Lab: California Laboratory Services 3249 Fitzgerald Rd. Rancho Cordova, CA 95742		
L.P. No. (PO No.)	Samplers: (Signature/Number) <i>M. D. [Signature]</i> 12535					Thiocarb	X											Instructions/Remarks Standard turn around time
Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix															
1	05/29/18	09:17	SR1-CLS-5-1-D	W	1	1-L Amber												
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
Relinquished By: <i>[Signature]</i>		Date/Time 5/29/18 1621		Received By: KLF sample control		Instructions/Remarks Please send invoice to KLEINFELDER										Send Results To: rfiroved@calrice.org jenny.krenz@CH2M.com criddle@kleinfelder.com lshort@kleinfelder.com		
Relinquished By: KLF Sample control		Date/Time		Received By:														
Relinquished By:		Date/Time		Received By:														



Project No. 20154800.004A Task 01		Project Name RPP- W5D1		No. of Containers	Type of Containers	Analysis										Receiving Lab: KLF SAMPLE CONTROL	
L.P. No. (PO No.)	Samplers: (Signature/Number) <i>[Signature]</i> 12535															Instructions/Remarks See Craig Riddle or Lauren Short before disturbing these samples	
Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix			HOLD											
1	05/29/18	09:16	SR1-B-5-1	W	1	1-L Amber	X										
2	05/29/18	11:11	SSB-B-5-1	W	1	1-L Amber	X										
3	05/29/18	12:36	BS1-B-5-1	W	1	1-L Amber	X										
4	05/29/18	13:34	CBD5-B-5-1	W	1	1-L Amber	X										
5	05/29/18	14:58	CBD1-B-5-1	W	1	1-L Amber	X										
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
Relinquished By: <i>[Signature]</i>		Date/Time 5/29/18 1621		Received By: KLF Sample Control		Instructions/Remarks										Send Results To:	
Relinquished By: KLF Sample Control		Date/Time		Received By:													
Relinquished By:		Date/Time		Received By:													

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC		Date: 5/31/2018
StationID & Name : SR1		FIRST SAMPLE TIME: 9:25
Project ID: 20154800.00A-01	Arrival Time: 9:15	Departure Time: 0934
Sampling Crew (and Agency): J. COWLEY, M. DOOLITTLE		Target Lat. & Long.:
		Actual Lat & Long:
		Datum:
		Accuracy (ft / m):

OBSERVATIONS	WADEABLE: YES / NO	PICTURE NAME/S:
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, <u>lnk</u> , Other	YES / <u>NO</u>	
SITE ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other		SKY CODE: clear, <u>partly cloudy</u> , overcast, fog, hazy
OTHER PRESENCE: <u>Vascular</u> , Nonvascular, OilySheen, Foam, Trash, None, Other		PRECIPITATION: <u>None</u> , Foggy, Drizzle, Rain, Snow
WATER ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other		PRECIPITATION (last 24 hrs): Unknown, <1", >1", <u>None</u>
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), <u>Murky</u> (<4" vis)		WATERCOLOR: colorless, <u>green</u> , 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, <u>>200cfs</u>		

Comments: kemmerer
45°  Water Column Thickness: 20' Sample Depth: 10'

PHYSICAL PARAMETERS	SPP	SR	SAMPLE COLLECTION
Water Temp (Celsius):	<u>20°</u>	<u>19.9°</u>	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):	<u>60°</u>		STARTING BANK: LB / RB/ NA
*pH>8.5 or <6.5	pH: <u>7.96</u>	<u>7.88</u>	OCCUPATION METHOD: Walk-in, Bridge, Other: <u>Maringa</u>
*DO<7.0	DO (mg/L): <u>8.39</u>	<u>8.85</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>kemmerer</u>
			SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water <u>maringa docks</u>
			HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: <u>maringa</u>
			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: <u>6.1</u>

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC		Date: 5/31/2018	
StationID & Name: SSB 4		FIRST SAMPLE TIME: 10:25	
Project ID: 20154800.002A-01	Arrival Time: 10:10	Departure Time: 1035	Target Lat. & Long.:
Sampling Crew (and Agency): M. DOOLITTLE, J. COWLEY			Actual Lat & Long:
			Datum:
			Accuracy (ft / m):

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

Comments:

Water Column Thickness: 8' Sample Depth: 4'

PHYSICAL PARAMETERS	SPP	SR	SAMPLE COLLECTION
Water Temp (Celsius):	<u>21.5</u>	<u>21.3</u>	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):	<u>65</u>		STARTING BANK: LB / RB/ NA
*pH>8.5 or <6.5 pH:	<u>7.85</u>	<u>7.75</u>	OCCUPATION METHOD: Walk-in, <u>Bridge</u> , Other: _____
*DO<7.0 DO (mg/L):	<u>6.76</u>	<u>7.35</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>KEMMETER</u>
			SAMPLE LOCATION: Bank, Thalweg, <u>Midchannel</u> , Open Water
			HYDRO-MODIFICATION: None, <u>Bridge</u> , 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: 5/31/2018		
StationID & Name : BS1			FIRST SAMPLE TIME: 11:35		
Project ID: 20154800.003A-01	Arrival Time: 1116	Departure Time: 1143	Target Lat. & Long.:		
Sampling Crew (and Agency): M. DOOLITTLE, J. COWLEY			Actual Lat & Long:		
			Datum:	Accuracy (ft / m):	

OBSERVATIONS	WADEABLE: YES / NO	PICTURE NAME/S:
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud Unk. , Other	NO	
SITE ODOR: None , Sulfides, Sewage, Petroleum, Mixed, Other		SKY CODE: clear, partly cloudy, overcast , fog, hazy
OTHER PRESENCE: Vascular , Nonvascular, Oily Sheen, 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		SPP	SR	SAMPLE COLLECTION
Water Temp (Celsius):		22.3	22.1	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):		60's		STARTING BANK: LB / RB/ NA
*pH>8.5 or <6.5	pH:	7.73	7.72	OCCUPATION METHOD: Walk-in, Bridge , Other: _____
*DO<7.0	DO (mg/L):	5.91	6.50	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: Kemmerico
				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: 5/31/2018		
StationID & Name: CBD5			FIRST SAMPLE TIME: 12:26		
Project ID: 20154800.003A-01	Arrival Time: 12:07	Departure Time: 12:37	Target Lat. & Long.:		
Sampling Crew (and Agency): M. Doolittle J. Cowley			Actual Lat & Long:		
			Datum:	Accuracy (ft / m):	

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

Comments: **Flow creating Δ on Ysi's** **Water Column Thickness: 7.5'** **Sample Depth: 3.75'**

PHYSICAL PARAMETERS		SPP	SR	SAMPLE COLLECTION
Water Temp (Celsius):		<u>21.4</u>	<u>21.3</u>	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):		<u>65</u>		STARTING BANK: LB / RB/ NA
*pH>8.5 or <6.5	pH:	<u>8.06</u>	<u>7.92</u>	OCCUPATION METHOD: Walk-in, <u>Bridge</u> , Other: _____
*DO<7.0	DO (mg/L):	<u>7.28</u>	<u>7.82</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>KOMMERES</u>
		<u>83.6%</u>	<u>88.4%</u>	SAMPLE LOCATION: Bank, Thalweg, <u>Midchannel</u> , Open Water
				HYDRO-MODIFICATION: None, <u>Bridge</u> , 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: 5/31/2018
StationID & Name : CBD1		FIRST SAMPLE TIME: 13:42
Project ID: 20154800.003A-01	Arrival Time: 1320	Departure Time: 1356
Sampling Crew (and Agency): M. DOOLITTLE, J. CONLEY		Target Lat. & Long.:
		Actual Lat & Long:
		Datum:
		Accuracy (ft / m):

OBSERVATIONS	WADEABLE: YES / NO	PICTURE NAME/S:
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Upk., Other	YES	
SITE ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other		SKY CODE: clear, <u>partly cloudy</u> , overcast, fog, hazy
OTHER PRESENCE: <u>Vascular</u> , Nonvascular, OilySheen, Foam, Trash, None, Other		PRECIPITATION: <u>None</u> , Foggy, Drizzle, Rain, Snow
WATER ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other		PRECIPITATION (last 24 hrs): Unknown, <1", >1", <u>None</u>
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), <u>Murky</u> (<4" vis)		WATERCOLOR: colorless, green, yellow, <u>brown</u> , other
OBSERVED FLOW: NA, Dry Waterbody Bed, <u>No Observed Flow</u> , 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	SPP	SR	SAMPLE COLLECTION
Water Temp (Celsius):	<u>23.5</u>	<u>23.5</u>	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):	<u>70° F</u>		STARTING BANK: LB / RB/ NA
*pH>8.5 or <6.5 pH:	<u>7.75</u>	<u>7.72</u>	OCCUPATION METHOD: Walk-in, <u>Bridge</u> , Other: _____
*DO<7.0 DO (mg/L):	<u>4.97</u>	<u>4.92</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>Remeter</u>
			SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water
			HYDRO-MODIFICATION: <u>None</u> , 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



Project No. 20154800.004A Task 01		Project Name RPP- W5D2			No. of Containers	Type of Containers	Analysis										Receiving Lab: North Coast Laboratories 5680 West End Rd., Arcata CA 95521 Attn: Roxanne Moore (707) 822-4649					
L.P. No. (PO No.)	Samplers: (Signature/Number)						Thiobencarb															
Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix																			
1	05/31/18	0925	SR1-NCL-5-2	W	1	500 mL	X															
2	05/31/18	10:25	SSB-NCL-5-2	W	1	500 mL	X															
3	05/31/18	11:35	BS1-NCL-5-2	W	1	500 mL	X															
4	05/31/18	12:26	CBD5-NCL-5-2	W	1	500 mL	X															
5	05/31/18	13:42	CBD1-NCL-5-2	W	1	500 mL	X															
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
Relinquished By:		Date/Time 5/31/18 11645	Received By: FEDEX		Instructions/Remarks Please send invoice to VALENT LABS										Send Results To: rfiroved@calrice.org jenny.krenz@CH2M.com criddle@kleinfelder.com lshort@kleinfelder.com							
Relinquished By:		Date/Time	Received By:																			
Relinquished By:		Date/Time	Received By:																			



Project No. 20154800.004A Task 01		Project Name RPP- W5D2		No. of Containers	Type of Containers	Analysis										Receiving Lab: KLF SAMPLE CONTROL					
L.P. No. (PO No.)	Samplers: (Signature/Number)					Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	HOLD											
1	05/31/18	0925	SR1-B-5-2	W	1																
2	05/31/18	10:25	SSB-B-5-2	W	1	1-L Amber	X														
3	05/31/18	11:35	BS1-B-5-2	W	1	1-L Amber	X														
4	05/31/18	12:26	CBD5-B-5-2	W	1	1-L Amber	X														
5	05/31/18	13:42	CBD1-B-5-2	W	1	1-L Amber	X														
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					
Relinquished By:		Date/Time		Received By:		Instructions/Remarks										Send Results To:					
				KLF Sample Control																	
Relinquished By:		Date/Time		Received By:																	
Relinquished By:		Date/Time		Received By:																	

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC			Date: 6/5/2018
StationID & Name : SR1			FIRST SAMPLE TIME: 0827
Project ID: 20154800.004A-01	Arrival Time: 7:30	Departure Time: 0844	Target Lat. & Long.:
Sampling Crew (and Agency): L. Short, J. Cowley - KLF			Actual Lat & Long:
Datum:		Accuracy (ft / m):	

OBSERVATIONS	WADEABLE: YES/NO	PICTURE NAME/S:
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, <u>Unk.</u> , Other	<u>NO</u>	
SITE ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other		SKY CODE: <u>clear</u> , partly cloudy, overcast, fog, hazy
OTHER PRESENCE: <u>Vascular</u> , Nonvascular, Oily Sheen, <u>Foam</u> , Trash, None, Other		PRECIPITATION: <u>None</u> , Foggy, Drizzle, Rain, Snow
WATER ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other		PRECIPITATION (last 24 hrs): Unknown, <1", >1", <u>None</u>
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), <u>Murky</u> (<4" vis)		WATERCOLOR: colorless, <u>green</u> , 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, <u>>200cfs</u>		

Comments:

Water Column Thickness: 17' Sample Depth: 6' *★*

PHYSICAL PARAMETERS	SPP	GTR	SAMPLE COLLECTION
Water Temp (Celsius):	<u>22.24</u>	<u>22.3</u>	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):	<u>60.5</u>		STARTING BANK: LB / RB / NA
*pH>8.5 or <6.5 pH:	<u>7.53</u>	<u>7.86</u>	OCCUPATION METHOD: Walk-in, Bridge, Other: <u>Manning</u>
*DO<7.0 DO (mg/L):	<u>7.81</u>	<u>8.31</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>Kemmerle</u>
			SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water <u>Manning</u>
			HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: <u>Manning</u>
			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: _____

★ Due high flows a safe sample depth was 6'

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC		Date: 6/5/2018	
StationID & Name : SSB		FIRST SAMPLE TIME: 0945	
Project ID: 20154800.004A-01	Arrival Time: 0925	Departure Time: 1010	Target Lat. & Long.:
Sampling Crew (and Agency): L. Short, J. Cowley- KLF		Actual Lat & Long:	
		Datum:	Accuracy (ft / m):

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

Comments:

Water Column Thickness: 6' Sample Depth: 3'

PHYSICAL PARAMETERS	SPP	GTR	SAMPLE COLLECTION
Water Temp (Celsius):	<u>24.1</u>	<u>24.0</u>	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):	<u>70's</u>		STARTING BANK: LB / RB/ NA
*pH>8.5 or <6.5 pH:	<u>7.88</u>	<u>7.79</u>	OCCUPATION METHOD: Walk-in, <u>Bridge</u> , Other: _____
*DO<7.0 DO (mg/L):	<u>6.38</u>	<u>6.96</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>kenner</u>
			SAMPLE LOCATION: Bank, Thalweg, <u>MidChannel</u> , Open Water
			HYDRO-MODIFICATION: None, <u>Bridge</u> , 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: 6/5/2018
StationID & Name : BS1			FIRST SAMPLE TIME: 1110
Project ID: 20154800.004A-01	Arrival Time: 1050	Departure Time: 1140	Target Lat. & Long.:
Sampling Crew (and Agency): L Short, J. Cowley - KLF			Actual Lat & Long:
			Datum: Accuracy (ft / m):

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

Comments: **2 people fishing trash = water bottles** Water Column Thickness: **11'** Sample Depth: **5.5'**

PHYSICAL PARAMETERS	SPP	GTR	SAMPLE COLLECTION
Water Temp (Celsius):	25.1	25.0	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):	70's		STARTING BANK: LB / RB/ NA
*pH>8.5 or <6.5 pH:	7.47	7.37	OCCUPATION METHOD: Walk-in, <input checked="" type="radio"/> Bridge, Other: _____
*DO<7.0 DO (mg/L):	4.24	4.94	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: komnese
			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: 6/5/2018		
StationID & Name : CBD5			FIRST SAMPLE TIME: 1244		
Project ID: 20154800.004A-01	Arrival Time: 1217	Departure Time: 1330	Target Lat. & Long.:		
Sampling Crew (and Agency): L. Short, J. Cowley - KLF			Actual Lat & Long:		
			Datum:	Accuracy (ft / m):	

OBSERVATIONS		WADEABLE: YES / NO	PICTURE NAME/S:
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, <u>Unk.</u> , Other		<input checked="" type="checkbox"/>	
SITE ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other		SKY CODE: clear, partly cloudy, overcast, fog, hazy	
OTHER PRESENCE: <u>Vascular</u> , Nonvascular, OilySheen, <u>Foam</u> , Trash, None, Other		PRECIPITATION: None, Foggy, Drizzle, Rain, Snow	
WATER ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other		PRECIPITATION (last 24 hrs): Unknown, <1", >1", None	
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), <u>Murky</u> (>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, <u>5 - 20 cfs</u> 20 - 50 cfs, 50 - 200 cfs, >200cfs			

Comments:

Water Column Thickness: 7' Sample Depth: 3.5'

PHYSICAL PARAMETERS	SPP	GTR	SAMPLE COLLECTION
Water Temp (Celsius):	<u>24.5</u>	<u>24.4</u>	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):	<u>80's</u>		STARTING BANK: LB / RB/ NA
*pH>8.5 or <6.5 pH:	<u>7.90</u>	<u>7.90</u>	OCCUPATION METHOD: Walk-in, <u>Bridge</u> , Other: _____
*DO<7.0 DO (mg/L):	<u>6.57</u>	<u>7.11</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>Kennel</u>
			SAMPLE LOCATION: Bank, Thalweg, <u>Midchannel</u> , Open Water
			HYDRO-MODIFICATION: None, <u>Bridge</u> , 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: 6/5/2018		
StationID & Name : CBD1			FIRST SAMPLE TIME: 1445		
Project ID: 20154800.004A-01	Arrival Time: 1420	Departure Time: 1544	Target Lat. & Long.:		
Sampling Crew (and Agency): L. Short, J. Cowley - KLF			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 , Sulphides, 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 , Sulphides, 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: **Sunken boat**

Water Column Thickness: **8.5'** Sample Depth: **4'**

PHYSICAL PARAMETERS	SPP	GTR	SAMPLE COLLECTION
Water Temp (Celsius):	25.5	25.3	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):	80's		STARTING BANK: LB / RB/ NA
*pH>8.5 or <6.5 pH:	7.80	7.77	OCCUPATION METHOD: Walk-in, Boat , Other: _____
*DO<7.0 DO (mg/L):	4.09	4.95	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: kelmac
			SAMPLE LOCATION: Bank, Thalweg, Midchannel , Open Water
			HYDRO-MODIFICATION: None, Boat , 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
					Dup collected
	See Attached Chain of Custodies				



Project No. 20154800.004A Task 01		Project Name RPP- W6D1			No. of Containers	Type of Containers	Analysis										Receiving Lab: North Coast Laboratories 5680 West End Rd., Arcata CA 95521 Attn: Roxanne Moore (707) 822-4649	
L.P. No. (PO No.)	Samplers: (Signature/Number) <i>Short</i>			Date MM/DD/YY			Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	Thiobencarb								
1	06/05/18	822	SR1-NCL-6-1		W	1												
2	06/05/18	945	SSB-NCL-6-1	W	1	500 mL	X											
3	06/05/18	110	BS1-NCL-6-1	W	1	500 mL	X											
4	06/05/18	1244	CBD5-NCL-6-1	W	1	500 mL	X											
5	06/05/18	1446	CBD1-NCL-6-1	W	1	500 mL	X											
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
Relinquished By: <i>[Signature]</i>		Date/Time: 6/5/18 1800		Received By: <i>KLFSC</i>		Instructions/Remarks Please send invoice to VALENT LABS										Send Results To: rfiroved@calrice.org jenny.krenz@CH2M.com criddle@kleinfelder.com lshort@kleinfelder.com		
Relinquished By: <i>KLFSC</i>		Date/Time: 6/7/18 1500		Received By: <i>[Signature]</i>														
Relinquished By: <i>[Signature]</i>		Date/Time: 6/7/18 1900		Received By: <i>Feder</i>														

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC		Date: 6/7/2018	
StationID & Name : SSB		FIRST SAMPLE TIME: 0900	
Project ID: 20154800.004A-01	Arrival Time: 0845	Departure Time: 0921	Target Lat. & Long.:
Sampling Crew (and Agency): L. Short, J. Cowley- KLF		Actual Lat & Long:	
		Datum:	Accuracy (ft / m):

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

Comments:

Temp	22.9	22.8	
pH	7.84	7.59	
DO	5.97	6.45	

Water Column Thickness: 6' Sample Depth: 3'

PHYSICAL PARAMETERS	SPP	GTR	SAMPLE COLLECTION
Water Temp (Celsius):	22.9	22.7	STARTING BANK: LB / RB/ NA
Air Temp (°F):	60's		OCCUPATION METHOD: Walk-in, <u>Bridge</u> , Other: _____
*pH>8.5 or <6.5 pH:	7.84	7.42	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>Canoe</u>
*DO<7.0 DO (mg/L):	5.97	6.45	SAMPLE LOCATION: Bank, <u>Thalweg</u> , <u>Midchannel</u> , Open Water <u>Thalweg located mid channel</u>
			HYDRO-MODIFICATION: None, <u>Bridge</u> , 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				

* Collected 2 sets of physical parameters
 First in midchannel w/ thalweg. There was lots of vegetation floating in the water column, worried about interference. Took a 2nd reading 30' river right of midchannel w/ no observed flow

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC		Date: 6/7/2018
StationID & Name : BS1		FIRST SAMPLE TIME: 10:20
Project ID: 20154800.004A-01	Arrival Time: 10:09	Departure Time: 10:38
Sampling Crew (and Agency): L Short, J. Cowley - KLF		Target Lat. & Long.:
		Actual Lat & Long:
		Datum:
		Accuracy (ft / m):

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

Comments:

Water Column Thickness: 10' Sample Depth: 5'

PHYSICAL PARAMETERS	SPP	GTR	SAMPLE COLLECTION
Water Temp (Celsius):	<u>23.5</u>	<u>23.4</u>	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):	<u>70's</u>		STARTING BANK: LB / RB/ NA
*pH>8.5 or <6.5 pH:	<u>7.58 7.58</u>	<u>7.31</u>	OCCUPATION METHOD: Walk-in, <u>Bridge</u> , Other: _____
*DO<7.0 DO (mg/L):	<u>4.64</u>	<u>4.95</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>Kemeter</u>
			SAMPLE LOCATION: Bank, Thalweg, <u>Midchannel</u> , Open Water
			HYDRO-MODIFICATION: None, <u>Bridge</u> , 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: 6/7/2018
StationID & Name : CBD5		FIRST SAMPLE TIME: 11:27
Project ID: 20154800.004A-01	Arrival Time: 12:14	Departure Time: 12:01
Sampling Crew (and Agency): L. Short, J. Cowley - KLF		Target Lat. & Long.:
		Actual Lat & Long:
		Datum:
		Accuracy (ft / m):

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

Comments:

Water Column Thickness: 8' Sample Depth: 4'

PHYSICAL PARAMETERS	SPP	GTR	SAMPLE COLLECTION
Water Temp (Celsius):	<u>22.2</u>	<u>22.0</u>	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):	<u>79</u>		STARTING BANK: LB / RB/ NA
*pH>8.5 or <6.5 pH:	<u>7.99</u>	<u>7.79</u>	OCCUPATION METHOD: Walk-in, <u>Bridge</u> , Other: _____
*DO<7.0 DO (mg/L):	<u>6.63</u>	<u>7.25</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>Kemeter</u>
			SAMPLE LOCATION: Bank, Thalweg, <u>Midchannel</u> , Open Water
			HYDRO-MODIFICATION: None, <u>Bridge</u> , 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				

Flow too strong for the horizontal

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC			Date: 6/7/2018		
StationID & Name : CBD1			FIRST SAMPLE TIME: 12:58		
Project ID: 20154800.004A-01	Arrival Time: 1246	Departure Time: 1315	Target Lat. & Long.:		
Sampling Crew (and Agency): L. Short, J. Cowley - KLF			Actual Lat & Long:		
			Datum:	Accuracy (ft / m):	

OBSERVATIONS		WADEABLE: YES / NO	PICTURE NAME/S:
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, <u>Link</u> , Other		<input checked="" type="checkbox"/>	
SITE ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other			SKY CODE: <u>clear</u> , partly cloudy, overcast, fog, hazy
OTHER PRESENCE: <u>Vascular</u> , Nonvascular, OilySheen, Foam, Trash, None, Other			PRECIPITATION: <u>None</u> , Foggy, Drizzle, Rain, Snow
WATER ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other			PRECIPITATION (last 24 hrs): <u>Unknown</u> , <1", >1", <u>None</u>
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), <u>Murky</u> (<4" vis)			WATERCOLOR: colorless, green, yellow, <u>brown</u> , other
OBSERVED FLOW: NA, Dry Waterbody Bed, <u>No Observed Flow</u> , 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	SPP	GTR	SAMPLE COLLECTION
Water Temp (Celsius):	24.8	24.7	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:	7.70	7.58	OCCUPATION METHOD: Walk-in, <u>Bridge</u> , Other: _____
*DO<7.0 DO (mg/L):	2.40	3.36	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>Kemeter</u>
			SAMPLE LOCATION: Bank, Thalweg, <u>Midchannel</u> , Open Water
			HYDRO-MODIFICATION: <u>None</u> , <u>Bridge</u> , 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				



Project No. 20154800.004A Task 01		Project Name RPP- W6D2		No. of Containers	Type of Containers	Analysis										Receiving Lab: KLF SAMPLE CONTROL						
L.P. No. (PO No.)	Samplers: (Signature/Number) <i>Sharf</i>					Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	HOLD												
1	06/07/18	7:56	SR1-B-6-2	W	1																	
2	06/07/18	1:00	SSB-B-6-2	W	1	1-L Amber	X															
3	06/07/18	10:20	BS1-B-6-2	W	1	1-L Amber	X															
4	06/07/18	11:27	CBD5-B-6-2	W	1	1-L Amber	X															
5	06/07/18	12:58	CBD1-B-6-2	W	1	1-L Amber	X															
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
Relinquished By: <i>[Signature]</i>		Date/Time: 6/7/18 1500		Received By: KLF Sample Control		Instructions/Remarks										Send Results To:						
Relinquished By:		Date/Time:		Received By:																		
Relinquished By:		Date/Time:		Received By:																		

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC		Date: 6/12/2018
StationID & Name : SR1		FIRST SAMPLE TIME: 0826
Project ID: 20154800.004A-01	Arrival Time: 0805	Departure Time: 0835
Sampling Crew (and Agency): MIDDOOLITTLE J. COWLEY		Target Lat. & Long.:
		Actual Lat & Long:
		Datum:
		Accuracy (ft / m):

OBSERVATIONS	WADEABLE: YES / NO	PICTURE NAME/S:
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, <u>Unk.</u> , Other	YES / <u>NO</u>	
SITE ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other		SKY CODE: <u>clear</u> , partly cloudy, overcast, fog, hazy
OTHER PRESENCE: <u>Vascular</u> , Nonvascular, OilySheen, Foam, <u>Trash</u> , None, Other <u>water bottle</u>		PRECIPITATION: <u>None</u> , Foggy, Drizzle, Rain, Snow
WATER ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other		PRECIPITATION (last 24 hrs): Unknown, <1", >1", <u>None</u>
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), <u>Murky</u> (<4" vis)		WATERCOLOR: colorless, <u>green</u> , 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, <u>>200cfs</u>		

Comments:

Water Column Thickness: 19' Sample Depth: 9.5'

PHYSICAL PARAMETERS	SPP	GTR	SAMPLE COLLECTION	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Water Temp (Celsius):	<u>21.7°C</u>	<u>21.6°C</u>	STARTING BANK: LB / RB/ NA	
Air Temp (°F):	<u>60°</u>		OCCUPATION METHOD: Walk-in, Bridge, Other: <u>Marina</u>	
*pH>8.5 or <6.5 pH:	<u>7.81</u>	<u>8.13</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>Kemefel</u>	
*DO<7.0 DO (mg/L):	<u>8.36</u>	<u>8.46</u>	SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water <u>Marina</u>	
			HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: <u>Marina</u>	
			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: <u>5.25</u>

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC		Date: 6/12/2018
StationID & Name : SSB		FIRST SAMPLE TIME: 0932
Project ID: 20154800.004A-01	Arrival Time: 0916	Departure Time: 0946
Sampling Crew (and Agency): M. Doolittle J. Cowley		Target Lat. & Long.:
		Actual Lat & Long:
		Datum:
		Accuracy (ft / m):

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

Comments:

Water Column Thickness: 8.5 Sample Depth: 4.25

PHYSICAL PARAMETERS	SPP	GTR	SAMPLE COLLECTION
Water Temp (Celsius):	<u>24.3°c</u>	<u>24.2°c</u>	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):	<u>68°f</u>		STARTING BANK: LB / RB/ NA
*pH>8.5 or <6.5 pH:	<u>7.77</u>	<u>7.89</u>	OCCUPATION METHOD: Walk-in, <u>Bridge</u> , Other: _____
*DO<7.0 DO (mg/L):	<u>5.86</u>	<u>6.19</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>Kemmerfer</u>
			SAMPLE LOCATION: Bank, Thalweg, <u>Midchannel</u> , Open Water
			HYDRO-MODIFICATION: None, <u>Bridge</u> , 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: 6/12/2018
StationID & Name : BS1		FIRST SAMPLE TIME: 10:43
Project ID: 20154800.004A-01	Arrival Time: 10:26	Departure Time: 1057
Sampling Crew (and Agency): M. DOOLITTLE J. COWLEY		Target Lat. & Long.:
		Actual Lat & Long:
		Datum:
		Accuracy (ft / m):

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

Comments:

Water Column Thickness: 11 Sample Depth: 5.5

PHYSICAL PARAMETERS	SPP	GTR	SAMPLE COLLECTION
Water Temp (Celsius):	<u>23.1°C</u>	<u>23.0°C</u>	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):	<u>70</u>		STARTING BANK: LB / RB/ NA
*pH>8.5 or <6.5 pH:	<u>7.77</u>	<u>8.00</u>	OCCUPATION METHOD: Walk-in, <u>Bridge</u> , Other: _____
*DO<7.0 DO (mg/L):	<u>6.23</u>	<u>6.60</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>KEMELER</u>
			SAMPLE LOCATION: Bank, Thalweg, <u>Midchannel</u> , Open Water
			HYDRO-MODIFICATION: None, <u>Bridge</u> , 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: 6/12/2018	
StationID & Name : CBD5		FIRST SAMPLE TIME: 1137	
Project ID: 20154800.004A-01	Arrival Time: 1124	Departure Time: 1149	Target Lat. & Long.:
Sampling Crew (and Agency): M. DODDLETTLE J. COWLEY			Actual Lat & Long:
		Datum:	Accuracy (ft / m):

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

Comments:

Water Column Thickness: 9' Sample Depth: 4.5'

PHYSICAL PARAMETERS	SPP	GTR	SAMPLE COLLECTION
Water Temp (Celsius):	<u>24.2°C</u>	<u>24.1°C</u>	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):	<u>75°F</u>		STARTING BANK: LB / RB/ NA
*pH>8.5 or <6.5 pH:	<u>7.93</u>	<u>7.95</u>	OCCUPATION METHOD: Walk-in, <u>Bridge</u> , Other: _____
*DO<7.0 DO (mg/L):	<u>6.97</u>	<u>7.00</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>Kemeter</u>
			SAMPLE LOCATION: Bank, Thalweg, <u>Midchannel</u> , Open Water
			HYDRO-MODIFICATION: None, <u>Bridge</u> , 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: 6/14/2018
StationID & Name : SR1		FIRST SAMPLE TIME: 9:16
Project ID: 20154800.004A-01	Arrival Time: 9:00	Departure Time: 9:16
Sampling Crew (and Agency): M. Doolittle J. Cowley		Target Lat. & Long.:
		Actual Lat & Long:
		Datum:
		Accuracy (ft / m):

OBSERVATIONS	WADEABLE: YES / NO	PICTURE NAME/S:
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, <u>Unk.</u> , Other	YES / <u>NO</u>	
SITE ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other		SKY CODE: <u>clear</u> , partly cloudy, overcast, fog, hazy
OTHER PRESENCE: <u>Vascular</u> , Nonvascular, OilySheen, Foam, Trash, None, Other		PRECIPITATION: <u>None</u> , Foggy, Drizzle, Rain, Snow
WATER ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other		PRECIPITATION (last 24 hrs): Unknown, <1", >1", <u>None</u>
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), <u>Murky</u> (<4" vis)		WATERCOLOR: colorless, <u>green</u> , 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' Sample Depth: 9 1/2'

PHYSICAL PARAMETERS	SPP	GTR	SAMPLE COLLECTION
Water Temp (Celsius):	<u>22.7</u>	<u>22.6</u>	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):	<u>63°F</u>		STARTING BANK: LB / RB/ NA
*pH>8.5 or <6.5 pH:	<u>7.76</u>	<u>7.31</u>	OCCUPATION METHOD: Walk-in, Bridge, Other: <u>Mafina</u>
*DO<7.0 DO (mg/L):	<u>8.09</u>	<u>8.38</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>Kemeter</u>
			SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water <u>mafina</u>
			HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: <u>mafina</u>
			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: <u>6'</u>

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC		Date: 6/14/2018
StationID & Name : BS1		FIRST SAMPLE TIME: 11:27
Project ID: 20154800.004A-01	Arrival Time: 11:15	Departure Time: 11:37
Sampling Crew (and Agency): M. DOOLITTLE J. COWLEY		Target Lat. & Long.:
		Actual Lat & Long:
		Datum:
		Accuracy (ft / m):

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

Comments:

Water Column Thickness: 11 Sample Depth: 5 1/2 ft

PHYSICAL PARAMETERS	SPP	GTR	SAMPLE COLLECTION
Water Temp (Celsius):	<u>25.5</u>	<u>25.4</u>	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):	<u>70</u>		STARTING BANK: LB / RB/ NA
*pH>8.5 or <6.5 pH:	<u>7.75</u>	<u>7.74</u>	OCCUPATION METHOD: Walk-in, <u>Bridge</u> , Other: _____
*DO<7.0 DO (mg/L):	<u>5.25</u>	<u>5.92</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>Remetered</u>
			SAMPLE LOCATION: Bank, Thalweg, <u>Midchannel</u> , Open Water
			HYDRO-MODIFICATION: None, <u>Bridge</u> , 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: 6/14/2018
StationID & Name : CBD5		FIRST SAMPLE TIME: 1320
Project ID: 20154800.004A-01	Arrival Time: 1306	Departure Time: 1420
Sampling Crew (and Agency): M. Doolittle J. Cowley		Target Lat. & Long.:
		Actual Lat & Long:
		Datum: Accuracy (ft / m):

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

Comments:

Water Column Thickness: 7' Sample Depth: 3.5'

PHYSICAL PARAMETERS	SPP	GTR	SAMPLE COLLECTION
Water Temp (Celsius):	<u>27.0°C</u>	<u>26.9°C</u>	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):	<u>85°F</u>		STARTING BANK: LB / RB/ NA
*pH>8.5 or <6.5 pH:	<u>7.88</u>	<u>7.90</u>	OCCUPATION METHOD: Walk-in, <u>Bridge</u> , Other: _____
*DO<7.0 DO (mg/L):	<u>6.41</u>	<u>6.87</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>Kemeter</u>
			SAMPLE LOCATION: Bank, Thalweg, <u>Midchannel</u> , Open Water
			HYDRO-MODIFICATION: None, <u>Bridge</u> , 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: 6/14/2018
StationID & Name : CBD1		FIRST SAMPLE TIME: <u>1519</u>
Project ID: 20154800.004A-01	Arrival Time: <u>1508</u>	Departure Time: <u>1533</u>
Sampling Crew (and Agency): M. DOOLITTLE J. COWLEY		Target Lat. & Long.:
		Actual Lat & Long:
		Datum:
		Accuracy (ft / m):

OBSERVATIONS	WADEABLE: YES / NO	PICTURE NAME/S:
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, <u>Jnk</u> , Other		
SITE ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other		SKY CODE: <u>clear</u> , partly cloudy, overcast, fog, hazy
OTHER PRESENCE: <u>Vascular</u> , Nonvascular, OilySheen, Foam, Trash, None, Other		PRECIPITATION: <u>None</u> , Foggy, Drizzle, Rain, Snow
WATER ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other		PRECIPITATION (last 24 hrs): Unknown, <1", >1", <u>None</u>
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), <u>Murky</u> (<4" vis)		WATERCOLOR: colorless, green, yellow, <u>brown</u> , other
OBSERVED FLOW: NA, Dry Waterbody Bed, <u>No Observed Flow</u> , 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	SPP	GTR	SAMPLE COLLECTION
Water Temp (Celsius):	<u>24.9</u>	<u>24.8</u>	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):	<u>89</u>		STARTING BANK: LB / RB/ NA
*pH>8.5 or <6.5 pH:	<u>7.49</u>	<u>7.58</u>	OCCUPATION METHOD: Walk-in, <u>Bridge</u> , Other: _____
*DO<7.0 DO (mg/L):	<u>1.99</u>	<u>2.41</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>Kemcoer</u>
			SAMPLE LOCATION: Bank, Thalweg, <u>Midchannel</u> , Open Water
			HYDRO-MODIFICATION: None, <u>Bridge</u> , 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				



Project No. 20154800.004A Task 01		Project Name RPP- W7D1		No. of Containers	Type of Containers	Analysis										Receiving Lab: North Coast Laboratories 5680 West End Rd., Arcata CA 95521 Attn: Roxanne Moore (707) 822-4649		
L.P. No. (PO No.)	Samplers: (Signature/Number) M. DOOLITTLE J. COWLEY					Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	Thiobencarb								
1	06/12/18	1737	CRC1-NCL-7-1	W	1													
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
Relinquished By:		Date/Time: 6/12/18 16:32		Received By: KLF Sample Control		Instructions/Remarks Please send invoice to KLEINFELDER										Send Results To: rfiroved@calrice.org jenny.krenz@CH2M.com criddle@kleinfelder.com lshort@kleinfelder.com		
Relinquished By: KLF sample cont.		Date/Time: 6/14/18 17:37		Received By:														
Relinquished By:		Date/Time: 6/14/18 18:00		Received By: FedEx														



Project No. 20154800.004A Task 01		Project Name RPP- W7D2			No. of Containers	Type of Containers	Analysis										Receiving Lab: North Coast Laboratories 5680 West End Rd., Arcata CA 95521 Attn: Roxanne Moore (707) 822-4649	
L.P. No. (PO No.)	Samplers: (Signature/Number) M. DOOLITTLE J. COWLEY			Date MM/DD/YY			Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	Thiobencarb								
1	06/14/18	09:16	SR1-NCL-7-2		W	1												
2	06/14/18	10:22	SSB-NCL-7-2	W	1	500 mL	X											
3	06/14/18	11:27	BS1-NCL-7-2	W	1	500 mL	X											
4	06/14/18	13:20	CBD5-NCL-7-2	W	1	500 mL	X											
5	06/14/18	15:19	CBD1-NCL-7-2	W	1	500 mL	X											
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
Relinquished By:		Date/Time 6/14/18 18:00		Received By: Fex Ex		Instructions/Remarks Please send invoice to VALENT LABS										Send Results To: rfiroved@calrice.org jenny.krenz@CH2M.com criddle@kleinfelder.com lshort@kleinfelder.com		
Relinquished By: Fex Ex		Date/Time		Received By:														
Relinquished By:		Date/Time		Received By:														

arrived @ 0800. 14 Crews there to provide paddle & Dart. Lots of activity.
will return after CBD1

Rice Pesticides Program - Field Data Sheet - Water Sample Collection				Pg 1 of 1	
Coalition Name: CRC			Date: 6/19/2018		
Station ID & Name: SR1			FIRST SAMPLE TIME: 16:20		
Project ID: 20154800.004A-01		Arrival Time: 1610	Departure Time: 1634	Target Lat. & Long.:	
Sampling Crew (and Agency): L. Short J. Cowley KLF			Actual Lat & Long:		
			Datum:	Accuracy (ft / m):	
OBSERVATIONS			WADEABLE: YES / NO	PICTURE NAME/S:	
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, <u>Unk</u> , Other					
SITE ODOR: <u>None</u> Sulfides, Sewage, Petroleum, Mixed, Other			SKY CODE: <u>clear</u> partly cloudy, overcast, fog, hazy		
OTHER PRESENCE: <u>Vascular</u> , Nonvascular, Oily Sheen, Foam, Trash, None, Other			PRECIPITATION: <u>None</u> , Foggy, Drizzle, Rain, Snow		
WATER ODOR: <u>None</u> Sulfides, Sewage, Petroleum, Mixed, Other			PRECIPITATION (last 24 hrs): Unknown, <1", >1" <u>None</u>		
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), <u>Murky (<4" vis)</u>			WATERCOLOR: colorless, <u>green</u> , 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, <u>>200cfs</u>					
Comments: Boaters are out.					
			Water Column Thickness: 17'	Sample Depth: 419'	
PHYSICAL PARAMETERS	SPP	GTR	SAMPLE COLLECTION Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)		
Water Temp (Celsius):	23.2	23.0	STARTING BANK: LB / RB/ NA		
Air Temp (°F):	90's		OCCUPATION METHOD: Walk-in, Bridge, Other: <u>Marina</u>		
*pH>8.5 or <6.5 pH:	7.80	7.50	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>Kemeter</u>		
*DO<7.0 DO (mg/L):	8.90	8.63	SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water <u>Marina</u>		
			HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: <u>marina</u>		
			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: _____

*Flow too strong to safely use kemeter any deeper

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC		Date: 6/19/2018	
Station ID & Name: SSB		FIRST SAMPLE TIME: <i>0900</i>	
Project ID: 20154800.004A-01	Arrival Time: <i>840</i>	Departure Time: <i>1010</i>	Target Lat. & Long.:
Sampling Crew (and Agency): <i>Short, Couley - KLF</i>		Actual Lat & Long:	
		Datum:	Accuracy (ft / m):

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

Comments:

Water Column Thickness: 7' Sample Depth: 3.5'

PHYSICAL PARAMETERS	SPP	GTR	SAMPLE COLLECTION
Water Temp (Celsius):	<i>24.1</i>	<i>23.9</i>	STARTING BANK: LB / RB / NA
Air Temp (°F):	<i>70'</i>		OCCUPATION METHOD: Walk-in, <u>Bridge</u> , Other: _____
*pH>8.5 or <6.5 pH:	<i>7.61</i>	<i>7.59</i>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>Kemmerer</u>
*DO<7.0 DO (mg/L):	<i>6.04</i>	<i>5.76</i>	SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water
			HYDRO-MODIFICATION: None, <u>Bridge</u> , 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: 6/19/2018
Station ID & Name: BS1		FIRST SAMPLE TIME: 1100
Project ID: 20154800.004A-01	Arrival Time: 1045	Departure Time: 1738
Sampling Crew (and Agency): Shurt & Cady - KLF		Target Lat. & Long.:
		Actual Lat & Long:
		Datum:
		Accuracy (ft / m):

OBSERVATIONS	WADEABLE: YES / NO	PICTURE NAME/S:
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, <u>Unk</u> , Other		
SITE ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other		SKY CODE: clear, partly <u>cloudy</u> , overcast, fog, hazy
OTHER PRESENCE: <u>Vascular</u> , Nonvascular, Oily Sheen, Foam, Trash, None, Other		PRECIPITATION: <u>None</u> , Foggy, Drizzle, Rain, Snow
WATER ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other		PRECIPITATION (last 24 hrs): Unknown, <1", >1", <u>None</u>
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<u><4</u> " vis)		WATERCOLOR: colorless, green, yellow, <u>brown</u> , other
OBSERVED FLOW: NA, Dry Waterbody Bed, No Observed Flow, Isolated Pool, <u>0</u> (1 - 1)cfs, 1 - 5 cfs, 5 - 20 cfs, 20 - 50 cfs, 50 - 200 cfs, >200cfs		

Comments:

Water Column Thickness: 11' Sample Depth: 5.5'

PHYSICAL PARAMETERS	SPP	GTR	SAMPLE COLLECTION
Water Temp (Celsius):	<u>24.8</u>	<u>24.7</u>	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):		<u>80's</u>	STARTING BANK: LB / RB / NA
*pH>8.5 or <6.5 pH:	<u>7.64</u>	<u>7.64</u>	OCCUPATION METHOD: Walk-in, <u>Bridge</u> , Other: _____
*DO<7.0 DO (mg/L):	<u>5.90</u>	<u>6.13</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>Kemure</u>
			SAMPLE LOCATION: Bank, Thalweg, <u>Midchannel</u> , Open Water
			HYDRO-MODIFICATION: None, <u>Bridge</u> , 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				

2 people fishing

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC		Date: 6/19/2018	
StationID & Name : CBD5		FIRST SAMPLE TIME: 1223	
Project ID: 20154800.004A-01	Arrival Time: 1212	Departure Time: 1324	Target Lat. & Long.:
Sampling Crew (and Agency): Short, Cowley - KCI			Actual Lat & Long:
			Datum:
			Accuracy (ft / m):

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

Comments:

Water Column Thickness: 6' Sample Depth: 3'

PHYSICAL PARAMETERS	SPP	GTR	SAMPLE COLLECTION
Water Temp (Celsius):	<u>25.6</u>		Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):	<u>90's</u>		STARTING BANK: LB / RB/ NA
*pH>8.5 or <6.5 pH:	<u>7.86</u>	<u>7.83</u>	OCCUPATION METHOD: Walk-in, <u>Bridge</u> , Other: _____
*DO<7.0 DO (mg/L):	<u>7.12</u>	<u>6.99</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>Kerman</u>
			SAMPLE LOCATION: Bank, <u>Thalweg</u> , <u>Midchannel</u> , Open Water
			HYDRO-MODIFICATION: None, <u>Bridge</u> , 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
					<u>Dup collected.</u>
	<u>See Attached Chain of Custodies</u>				

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC		Date: 6/19/2018
StationID & Name : CBD1		FIRST SAMPLE TIME: 1429
Project ID: 20154800.004A-01	Arrival Time: 1434	Departure Time: 1530
Sampling Crew (and Agency): Short Cowley - KLF		Target Lat. & Long.:
		Actual Lat & Long:
		Datum:
		Accuracy (ft / m):

OBSERVATIONS	WADEABLE: YES / NO	PICTURE NAME/S:
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, <u>Uck</u> , Other	<input checked="" type="checkbox"/>	
SITE ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other		SKY CODE: <u>clear</u> , partly cloudy, overcast, fog, hazy
OTHER PRESENCE: <u>Vascular</u> , Nonvascular, OilySheen, Foam, <u>Trash</u> , None, Other		PRECIPITATION: <u>None</u> , Foggy, Drizzle, Rain, Snow
WATER ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other		PRECIPITATION (last 24 hrs): Unknown, <1", >1", <u>None</u>
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)		WATERCOLOR: colorless, green, yellow, <u>brown</u> , other
OBSERVED FLOW: NA, Dry Waterbody Bed, No <u>Observed</u> 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	SPP	GTR	SAMPLE COLLECTION
Water Temp (Celsius):	<u>24.7</u>	<u>24.6</u>	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):	<u>90's</u>		STARTING BANK: LB / RB/ NA
*pH>8.5 or <6.5 pH:	<u>7.45</u>	<u>7.52</u>	OCCUPATION METHOD: Walk-in, <u>Bridge</u> , Other: _____
*DO<7.0 DO (mg/L):	<u>0.11</u>	<u>0.61</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>Reman</u>
			SAMPLE LOCATION: Bank, Thalweg, <u>Midchannel</u> , Open Water
			HYDRO-MODIFICATION: None, <u>Bridge</u> , 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
√				

Sunken boat
- trash along bank

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC		Date: 6/26/2018
Station ID & Name : SR1		FIRST SAMPLE TIME: 7:53
Project ID: 20154800.004A-01	Arrival Time: 7:42	Departure Time: 08:15
Sampling Crew (and Agency): Short & Cowley - KLF		Target Lat. & Long.:
		Actual Lat & Long:
		Datum:
		Accuracy (ft / m):

OBSERVATIONS		WADEABLE: YES / NO	PICTURE NAME/S:
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, <u>Unk</u> , Other		<u>YES</u>	
SITE ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other			SKY CODE: <u>clear</u> , partly cloudy, overcast, fog, hazy
OTHER PRESENCE: <u>Vascular</u> , Nonvascular, Oily Sheen, Foam, Trash, None, Other			PRECIPITATION: <u>None</u> , Foggy, Drizzle, Rain, Snow
WATER ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other			PRECIPITATION (last 24 hrs): Unknown, <1", >1", <u>None</u>
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), <u>Murky</u> (<4" vis)			WATERCOLOR: colorless, <u>green</u> , 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, <u>>200cfs</u>			

Comments:

Water Column Thickness: 18' Sample Depth: 4'

PHYSICAL PARAMETERS	SPP	GTR	SAMPLE COLLECTION
Water Temp (Celsius):	<u>22.8</u>	<u>22.6</u>	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):	<u>60.5</u>		STARTING BANK: LB / RB / NA
*pH>8.5 or <6.5 pH:	<u>7.24</u>	<u>7.25</u>	OCCUPATION METHOD: Walk-in, Bridge, Other: <u>Maring</u>
*DO<7.0 DO (mg/L):	<u>---</u>	<u>8.36</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>Kemeter</u>
			SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water <u>Maring</u>
			HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: <u>Maring</u>
			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: <u>6</u>

* ys: reported error
see calibration sheet

+ Sample depth @ 4' due to high flows.

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC		Date: 6/26/2018	
StationID & Name : SSB		FIRST SAMPLE TIME: 9:36	
Project ID: 20154800.004A-01	Arrival Time: 8:59	Departure Time: 9:50	Target Lat. & Long.:
Sampling Crew (and Agency): Short & Cowley - KLF		Actual Lat & Long:	
		Datum:	Accuracy (ft / m):

OBSERVATIONS	WADEABLE: YES / NO	PICTURE NAME/S:
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, <u>Unk</u> , Other	<u>YES</u>	
SITE ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other		SKY CODE: <u>clear</u> , partly cloudy, overcast, fog, hazy
OTHER PRESENCE: <u>Vascular</u> , Nonvascular, OilySheen, Foam, Trash, None, Other		PRECIPITATION: <u>None</u> , Foggy, Drizzle, Rain, Snow
WATER ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other		PRECIPITATION (last 24 hrs): Unknown, <1", >1", <u>None</u>
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)		WATERCOLOR: colorless, green, yellow, <u>brown</u> , 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:
 2 people in a boat traveling in the channel for unknown reasons
 Water Column Thickness: 10'
 Sample Depth: 5'

PHYSICAL PARAMETERS	SPP	GTR	SAMPLE COLLECTION
Water Temp (Celsius):	<u>25.7</u>	<u>25.6</u>	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):	<u>70</u>		STARTING BANK: LB / RB/ NA
*pH>8.5 or <6.5 pH:	<u>7.55</u>	<u>7.69</u>	OCCUPATION METHOD: Walk-in, <u>Bridge</u> , Other: _____
*DO<7.0 DO (mg/L):	<u>5.50</u>	<u>5.22</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>Kimmerer</u>
			SAMPLE LOCATION: Bank, Thalweg, <u>Midchannel</u> , Open Water
			HYDRO-MODIFICATION: None, <u>Bridge</u> , 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 Calibration Sheet

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC		Date: 6/26/2018	
Station ID & Name: BS1		FIRST SAMPLE TIME: 10:37	
Project ID: 20154800.004A-01	Arrival Time: 10:37	Departure Time: 11:07	Target Lat. & Long.:
Sampling Crew (and Agency): Short + Cowley - KLF		Actual Lat & Long:	
		Datum:	Accuracy (ft / m):

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

Comments: 1 Person fishing + potentially camping on bank

Water Column Thickness: 10' Sample Depth: 5'

PHYSICAL PARAMETERS	SPP	GTR	SAMPLE COLLECTION
Water Temp (Celsius):	<u>26.1</u>	<u>25.9</u>	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):	<u>76</u>		STARTING BANK: LB / RB / NA
*pH>8.5 or <6.5 pH:	<u>7.67</u>	<u>7.77</u>	OCCUPATION METHOD: Walk-in, <u>Bridge</u> , Other: _____
*DO<7.0 DO (mg/L):	<u>3.17</u>	<u>6.03</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>ke e</u>
			SAMPLE LOCATION: Bank, Thalweg, <u>Midchannel</u> , Open Water
			HYDRO-MODIFICATION: <u>None</u> , <u>Bridge</u> , 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: 6/26/2018
Station ID & Name: CBD5		FIRST SAMPLE TIME: 11:48
Project ID: 20154800.004A-01	Arrival Time: 11:37	Departure Time: 1345
Sampling Crew (and Agency): Short + Cowley - KLF		Target Lat. & Long.:
		Actual Lat & Long:
		Datum:
		Accuracy (ft / m):

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

Comments:

Water Column Thickness: 7' Sample Depth: 3.5'

PHYSICAL PARAMETERS	SPP	GTR	SAMPLE COLLECTION
Water Temp (Celsius):	<u>25.2</u>	<u>25.6</u>	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):	<u>90's</u>		STARTING BANK: LB / RB / NA
*pH>8.5 or <6.5 pH:	<u>7.86</u>	<u>7.84</u>	OCCUPATION METHOD: Walk-in, Bridge, Other: _____
*DO<7.0 DO (mg/L):	<u>14.74</u>	<u>6.23</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>Kometex</u>
			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			

* See Calibration sheet

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC		Date: 6/26/2018	
Station ID & Name: CBD1		FIRST SAMPLE TIME: 1319	
Project ID: 20154800.004A-01	Arrival Time: 1311	Departure Time: 1344	Target Lat. & Long.:
Sampling Crew (and Agency): Short & Conley - ICF		Actual Lat & Long:	
		Datum:	Accuracy (ft / m):

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

Comments: Sunken boat
2 people fishing

Water Column Thickness: 7' Sample Depth: 3.5'

PHYSICAL PARAMETERS	SPP	GTR	SAMPLE COLLECTION
Water Temp (Celsius):	<u>26.2</u>	<u>25.6</u>	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):	<u>90's</u>		STARTING BANK: LB / RB/ NA
*pH>8.5 or <6.5	pH: <u>7.38</u>	<u>7.58</u>	OCCUPATION METHOD: Walk-in, <u>Bridge</u> , Other: _____
*DO<7.0	DO (mg/L): <u>1.63</u>	<u>1.71</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>Kemcrete</u>
			SAMPLE LOCATION: Bank, Thalweg, <u>Midchannel</u> , Open Water
			HYDRO-MODIFICATION: None, <u>Bridge</u> , 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				<u>RB collected -1333</u>

↳ See Calibration sheet.

**KLEINFELDER
INSTRUMENT CALIBRATION LOG**

Sampler Name/No.: Short

Date: 6/26/2018

Project No.: 20154800.004A-01

Job Name: RPP 2018

Calibration Start Time: 0610

pH Meter: SPP								EC Meter: SPP	
	Time	Temp. via Thermometer	Temp. via YSI Meter	pH7	mVpH (pH 7)	pH10	mVpH (pH10)		1413 umho
Reading (initial)	0630		27.1	7.03	-10.0	9.98	-185.7	Reading (initial)	1409
Calibration (initial)	0635		26.8	7.01	-9.8	9.99	-186.1	Calibration (initial)	1413
Reading (intermediate)								Reading (intermediate)	
Calibration (intermediate)								Calibration (intermediate)	
Reading (end of day)								Reading (end of day)	

Comments: 0655 - YSI DO probe successfully calibrated. 0750 - SPP in SRI reporting an error in DO readings. GTR does not. Flows are high & SPP gets caught underneath marina. 0900 - move to SSB. Drop it in SSB → same error. Recalibrate as normal - not successful. Consult manual. Inspect DO probe. Fluid in membrane may need replacing. Turn on localized DO mode per manual. DO probe calibrates. Continue sampling activities with localized DO mode on.

Turbidity Meter (make/number): _____					D.O. Meter: SPP			
	___ NTU	___ NTU	___ NTU	Battery Check	Barometric Pressure: <u>757.3</u> mmHg			
Reading (Initial)							mg/L	%
Calibration							Reading (initial):	104.9
							Reading (adj.):	8.83 92.6
							Intermediate Reading (initial):	105.0
							Intermediate Reading (adj.):	7.49 99.5

Localized DO.



Project No. 20154800.004A Task 01		Project Name RPP- W9D1		No. of Containers	Type of Containers	Analysis										Receiving Lab: North Coast Laboratories 5680 West End Rd., Arcata CA 95521 Attn: Roxanne Moore (707) 822-4649	
L.P. No. (PO No.)	Samplers: (Signature/Number) <i>Short</i>					Thiobencarb											Instructions/Remarks Standard turn around time
Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix														
1	06/26/18	11:55	SR1-NCL-9-1	W	1	500 mL	X										
2	06/26/18	9:36	SSB-NCL-9-1	W	1	500 mL	X										
3	06/26/18	10:37	BS1-NCL-9-1	W	1	500 mL	X										
4	06/26/18	11:48	CBD5-NCL-9-1	W	1	500 mL	X										
5	06/26/18	13:19	CBD1-NCL-9-1	W	1	500 mL	X										
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
Relinquished By: <i>[Signature]</i>		Date/Time 6/29/18		Received By: FEDEX		Instructions/Remarks Please send invoice to VALENT LABS										Send Results To: rfiroved@calrice.org jenny.krenz@CH2M.com criddle@kleinfelder.com lshort@kleinfelder.com	
Relinquished By:		Date/Time		Received By:													
Relinquished By:		Date/Time		Received By:													



Project No. 20154800.004A Task 01		Project Name RPP- W9D1		No. of Containers	Type of Containers	Analysis										Receiving Lab: California Laboratory Services 3249 Fitzgerald Rd. Rancho Cordova, CA 95742	
L.P. No. (PO No.)	Samplers: (Signature/Number)					Thiobencarb											Instructions/Remarks Standard turn around time
Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix														
1	06/26/18	1333	CBD1-CLS-9-1-RB	W	1	1-L Amber	X										
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
Relinquished By:		Date/Time 6/26/18 1500		Received By: KLF Sample Control		Instructions/Remarks Please send invoice to KLEINFELDER										Send Results To: rfiroved@calrice.org jenny.krenz@CH2M.com criddle@kleinfelder.com lshort@kleinfelder.com	
Relinquished By: KLF Sample Control		Date/Time 6/27/18 0835		Received By:													
Relinquished By:		Date/Time 6/27/18 0835		Received By:													

8-0

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC		Date: 7/2/2018	
Station ID & Name : SR1		FIRST SAMPLE TIME: 0729	
Project ID: 20154800.004A-01	Arrival Time: 0710	Departure Time: 0734	Target Lat. & Long.:
Sampling Crew (and Agency): Short + Cowley - KLF			Actual Lat & Long:
			Datum:
			Accuracy (ft / m):

OBSERVATIONS		WADEABLE: YES / NO	PICTURE NAME/S:
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, <u>Unk.</u> , Other		<input checked="" type="checkbox"/>	
SITE ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other			SKY CODE: clear, partly cloudy, overcast, fog, <u>fazy</u> <i>Smoke</i>
OTHER PRESENCE: <u>Vascular</u> , Nonvascular, Oily Sheen, <u>Foam</u> , Trash, None, Other			PRECIPITATION: <u>None</u> , Foggy, Drizzle, Rain, Snow
WATER ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other			PRECIPITATION (last 24 hrs): Unknown, <1", >1", <u>None</u>
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)			WATERCOLOR: colorless, green, yellow, <u>brown</u> , 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: *Smoke from nearby wildfires*

Water Column Thickness: 18' Sample Depth: 8'

PHYSICAL PARAMETERS		1151	GTR	SAMPLE COLLECTION
Water Temp (Celsius):		<u>23.1</u>	<u>23.0</u>	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):		<u>60's</u>		STARTING BANK: LB / RB / NA
*pH>8.5 or <6.5 pH:		<u>6.71</u>	<u>7.00</u>	OCCUPATION METHOD: Walk-in, Bridge, Other: <u>Marina</u>
*DO<7.0 DO (mg/L):		<u>7.63</u>	<u>8.06</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>Remore</u>
				SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water <u>Marina</u>
				HYDRO-MODIFICATION: None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert, Other: <u>Marina</u>
				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: <u>5</u>

Sample depth @ 8' due to high flows

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC			Date: 7/2/2018		
Station ID & Name : SSB			FIRST SAMPLE TIME: 0837		
Project ID: 20154800.004A-01	Arrival Time: 0817	Departure Time: 909	Target Lat. & Long.:		
Sampling Crew (and Agency): Short + Couley -ELF			Actual Lat & Long:		
			Datum:	Accuracy (ft / m):	

OBSERVATIONS	WADEABLE: YES / NO	PICTURE NAME/S:
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, <u>Unk</u> , Other		
SITE ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other		SKY CODE: clear, partly cloudy, overcast, fog, <u>fazy</u>
OTHER PRESENCE: <u>Vascular</u> , Nonvascular, OilySheen, <u>Foam</u> , Trash, None, Other		PRECIPITATION: <u>None</u> , Foggy, Drizzle, Rain, Snow
WATER ODOR: <u>None</u> , Sulfides, Sewage, Petroleum, Mixed, Other		PRECIPITATION (last 24 hrs): Unknown, <1", >1", <u>None</u>
WATER CLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)		WATERCOLOR: colorless, green, yellow, <u>brown</u> , 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: 7.5' Sample Depth: 3.5'

PHYSICAL PARAMETERS	1151	GTR	SAMPLE COLLECTION
Water Temp (Celsius):	<u>26.73</u>	<u>26.6</u>	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):	<u>80's</u>		STARTING BANK: LB / RB / NA
*pH>8.5 or <6.5 pH:	<u>7.68</u>	<u>7.77</u>	OCCUPATION METHOD: Walk-in, <u>Bridge</u> , Other: _____
*DO<7.0 DO (mg/L):	<u>4.56</u>	<u>5.02</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>Kemner</u>
			SAMPLE LOCATION: Bank, Thalweg, Midchannel, Open Water
			HYDRO-MODIFICATION: None, <u>Bridge</u> , 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: 7/2/2018
Station ID & Name : BS1		FIRST SAMPLE TIME: 1012
Project ID: 20154800.004A-01	Arrival Time: 6:25	Departure Time: 1:00
Sampling Crew (and Agency): Short & Cowley - KLF		Target Lat. & Long.:
		Actual Lat & Long:
		Datum:
		Accuracy (ft / m):

OBSERVATIONS	WADEABLE: YES / NO	PICTURE NAME/S:
DOMINANT SUBSTRATE: Concrete, Cobble, Gravel, Sand, Mud, Unk, Other	YES / NO	
SITE ODOR: None , Sulfides, Sewage, Petroleum, Mixed, Other		SKY CODE: clear, partly cloudy, overcast, fog, hazy
OTHER PRESENCE: Vascular , Nonvascular, Oily Sheen, 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: **trash along banks**

Water Column Thickness: 10.5' Sample Depth: 5'

PHYSICAL PARAMETERS	1151	GTR	SAMPLE COLLECTION
Water Temp (Celsius):	26.33	26.5	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):		90.5	STARTING BANK: LB / RB / NA
*pH>8.5 or <6.5 pH:	7.69	7.78	OCCUPATION METHOD: Walk-in, Bridge , Other: _____
*DO<7.0 DO (mg/L):	5.70	6.55	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: Remora
			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: 7/2/2018		
Station ID & Name : CBD5			FIRST SAMPLE TIME: 1140		
Project ID: 20154800.004A-01	Arrival Time: 1120	Departure Time: 1235	Target Lat. & Long.:		
Sampling Crew (and Agency): Short + Coudey - BLF			Actual Lat & Long:		
			Datum:	Accuracy (ft / m):	

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

Comments:

Water Column Thickness: 7' Sample Depth: 3.5'

PHYSICAL PARAMETERS	1151	GTR	SAMPLE COLLECTION
Water Temp (Celsius):	<u>26.2</u>	<u>26.3</u>	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):		<u>90's</u>	STARTING BANK: LB / RB / NA
*pH>8.5 or <6.5 pH:	<u>7.80</u>	<u>7.81</u>	OCCUPATION METHOD: Walk-in, <u>Bridge</u> , Other: _____
*DO<7.0 DO (mg/L):	<u>6.02</u>	<u>6.45</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>kenner</u>
			SAMPLE LOCATION: Bank, Thalweg, Mid <u>channel</u> , Open Water
			HYDRO-MODIFICATION: None, <u>Bridge</u> , 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
					<u>RB collected - 1200</u>
	See Attached Chain of Custodies				

Rice Pesticides Program - Field Data Sheet - Water Sample Collection

Coalition Name: CRC		Date: 7/2/2018	
Station ID & Name : CBD1		FIRST SAMPLE TIME: 1333	
Project ID: 20154800.004A-01	Arrival Time: 1321	Departure Time: 1423	Target Lat. & Long.:
Sampling Crew (and Agency): Short & Cowley - KLF			Actual Lat & Long:
			Datum:
			Accuracy (ft / m):

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

Comments: **Sunken Boat**
trash along banks

Water Column Thickness: 5' Sample Depth: 2.5'

PHYSICAL PARAMETERS	1151	GTR	SAMPLE COLLECTION
Water Temp (Celsius):	<u>25.98</u>	<u>26.1</u>	Sample Depth (circle one): 0.1 m (subsurface grab) -88 (integrated)
Air Temp (°F):	<u>90.5</u>		STARTING BANK: LB / RB/ NA
*pH>8.5 or <6.5 pH:	<u>6.88</u>	<u>7.14</u>	OCCUPATION METHOD: Walk-in, <u>Bridge</u> , Other: _____
*DO<7.0 DO (mg/L):	<u>2.13</u>	<u>2.78</u>	SAMPLING EQUIPMENT: Indiv bottle by hand, By pole, Other: <u>fechner</u>
			SAMPLE LOCATION: Bank, Thalweg, <u>Midchannel</u> , Open Water
			HYDRO-MODIFICATION: None, <u>Bridge</u> , 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.: 0 Short

Date: 7/2/2018

Project No.: 20154800.004A-01

Job Name: RPP 2018

Calibration
Start Time: 0530

pH Meter: GTR								EC Meter: GTR	
	Time	Temp. via Thermometer	Temp. via YSI Meter	pH7	mVpH (pH 7)	pH10	mVpH (pH10)	1413 umho	
Reading (initial)	0602		30.6	6.91	-18.9	10.01	-196.2	Reading (initial)	1500
Calibration (initial)	0620		30.1	7.00	-18.9	-10.00	-196.4	Calibration (initial)	1503
Reading (intermediate)								Reading (intermediate)	
Calibration (intermediate)								Calibration (intermediate)	
Reading (end of day)								Reading (end of day)	

Comments: DO - yellow probe
Rented JSE DSS

Turbidity Meter (make/number): _____					D.O. Meter: GTR			
	___ NTU	___ NTU	___ NTU	Battery Check	Barometric Pressure: <u>757.7</u> mmHg		mg/L	%
Reading (Initial)								
Calibration						Reading (initial):	=	98.1
						Reading (adj.):	8.14	99.8
						Intermediate Reading (initial):		
						Intermediate Reading (adj.):		

**KLEINFELDER
INSTRUMENT CALIBRATION LOG**

Sampler Name/No.: Shark

Date: 7/2/2018

Project No.: 20154800.004A-01

Job Name: RPP 2018

Calibration
Start Time: 0530

pH Meter: 1151								EC Meter: 1151	
	Time	Temp. via Thermometer	Temp. via YSI Meter	pH7	mVpH (pH 7)	pH10	mVpH (pH10)	1413 umho	
Reading (initial)	0547		29.73	6.94	-4.9	10.09	-184.6	Reading (initial)	1413
Calibration (initial)	0610		29.73	7.00	-4.7	10.00	-184.5	Calibration (initial)	1413
Reading (intermediate)								Reading (intermediate)	
Calibration (intermediate)								Calibration (intermediate)	
Reading (end of day)								Reading (end of day)	

Comments: DO - Blue probe
Revised YSI 556

Turbidity Meter (make/number): _____					D.O. Meter: 1151				
	___ NTU	___ NTU	___ NTU	Battery Check	Barometric Pressure: <u>757.7</u> mmHg		mg/L	%	
Reading (Initial)									
Calibration							Reading (initial):	8.89	106.3
							Reading (adj.):	8.34	99.7
							Intermediate Reading (initial):		
							Intermediate Reading (adj.):		

Project No.		Project Name			No. of Containers	Type of Containers	Analysis										Receiving Lab:	
20154800.004A Task 01		RPP- W10D1					Thiobencarb											North Coast Laboratories 5680 West End Rd., Arcata CA 95521 Attn: Roxanne Moore (707) 822-4649
L.P. No. (PO No.)	Samplers: (Signature/Number)																	Instructions/Remarks
Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix															
1	07/02/18	7:29	SR1-NCL-10-1	W	1	500 mL	X										Standard turn around time	
2	07/02/18	8:37	SSB-NCL-10-1	W	1	500 mL	X											
3	07/02/18	10:12	BS1-NCL-10-1	W	1	500 mL	X											
4	07/02/18	11:40	CBD5-NCL-10-1	W	1	500 mL	X											
5	07/02/18	13:23	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:		Instructions/Remarks										Send Results To:		
		7/2/18 11:00		Fedex		Please send invoice to VALENT LABS										rfiroved@calrice.org jenny.krenz@CH2M.com criddle@kleinfelder.com lshort@kleinfelder.com		
Relinquished By:		Date/Time		Received By:														
Relinquished By:		Date/Time		Received By:														

Attachment 5-2
North Coast (Valent sub) and
California Laboratory Services
(QC lab) Results



**NORTH COAST
LABORATORIES LTD.**

May 09, 2018

Valent USA Corporation
6560 Trinity Court
Dublin, CA 94568

Order No.: 1804538
Invoice No.: 139934
PO No.: CR-2607/VP-18-200583
ELAP No.1247-Expires July 2018

Attn:

RE: 20154800.003A Task 01

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	CBD5-NCL-42618

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: 09-May-2018

WorkOrder: 1804538

CASE NARRATIVE

J Flags:

Test results that fall below the reporting limit and above the method detection limit are considered approximate values.

Date: 09-May-2018

WorkOrder: 1804538

ANALYTICAL REPORT

Client Sample ID: CBD5-NCL-42618

Received: 4/27/2018

Lab ID: 1804538-01A

Matrix: Aqueous

Collected 4/26/2018 10:06

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Thiobencarb	ND			0.51	0.15	µg/L	1.0	5/3/2018	05/08/18 13:48

North Coast Laboratories, Ltd.

Date: 5/9/2018

CLIENT: Valent USA Corporation
Work Order: 1804538
Project: 20154800.003A Task 01

QC SUMMARY REPORT

Method Blank

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
MB-36030	36030	THIOW	µg/L	5/8/2018 12:52:26 PM	5/3/2018						
Client ID:		Run ID:	ORLCMSMS2_180508A	SeqNo:	1357306						
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: 5/9/2018

CLIENT: Valent USA Corporation
Work Order: 1804538
Project: 20154800.003A Task 01

QC SUMMARY REPORT
 Laboratory Control Spike

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
LCS-36030	36030	THIOW	µg/L	5/8/2018 1:10:58 PM	5/3/2018						
Client ID:		Run ID:	ORLCMSMS2_180508A	SeqNo:	1357307						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	0.8179	0.50	1.00	0	81.8%	70	120	0			

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
LCSD-36030	36030	THIOW	µg/L	5/8/2018 1:29:31 PM	5/3/2018						
Client ID:		Run ID:	ORLCMSMS2_180508A	SeqNo:	1357308						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	0.9125	0.50	1.00	0	91.2%	70	120	0.818	10.9%	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



COC# 462966

1804538 6 of 6

Page 1 of 1

Project No. 20154800.004A Task 01		Project Name RPP- Early CBD5		No. of Containers	Type of Containers	Analysis										Receiving Lab: North Coast Laboratories 5680 West End Rd., Arcata CA 95521 Attn: Roxanne Moore (707) 822-4649		
L.P. No. (PO No.)	Samplers: (Signature/Number) Meg Doolittle 12535					Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	Thiobencarb								
1	04/26/18	10:06	CBD5-NCL-42618	W	1											500 mL		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
Relinquished By: <i>Meredith [Signature]</i>		Date/Time: 4/26/18 13:13		Received By: <i>Jessie [Signature]</i>		Instructions/Remarks Please send invoice to VALENT LABS 3.6°										Send Results To: rfiroved@calrice.org jenny.krenz@CH2M.com criddle@kleinfelder.com lshort@kleinfelder.com		
Relinquished By:		Date/Time:		Received By: 4/27/18 11:25														
Relinquished By:		Date/Time:		Received By:														



**NORTH COAST
LABORATORIES LTD.**

May 09, 2018

Valent USA Corporation
6560 Trinity Court
Dublin, CA 94568

Attn: Charles Green

Order No.: 1805032
Invoice No.: 139931
PO No.: CR-2607/VP-18-200583
ELAP No.1247-Expires July 2018

RE: 20154800.003A Task 01

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	SR1-NCL-1-1
02A	SSB-NCL-1-1
03A	BS1-NCL-1-1
04A	CBD5-NCL-1-1
05A	CBD1-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: 09-May-2018

WorkOrder: 1805032

CASE NARRATIVE

J Flags:

Test results that fall below the reporting limit and above the method detection limit are considered approximate values.

Date: 09-May-2018

WorkOrder: 1805032

ANALYTICAL REPORT

Client Sample ID: SR1-NCL-1-1

Received: 5/2/2018

Lab ID: 1805032-01A

Matrix: Aqueous

Collected 5/1/2018 8:25

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Thiobencarb	ND			0.50	0.15	µg/L	1.0	5/3/2018	05/08/18 14:06

Client Sample ID: SSB-NCL-1-1

Received: 5/2/2018

Lab ID: 1805032-02A

Matrix: Aqueous

Collected 5/1/2018 10:10

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Thiobencarb	ND			0.50	0.15	µg/L	1.0	5/3/2018	05/08/18 14:25

Client Sample ID: BS1-NCL-1-1

Received: 5/2/2018

Lab ID: 1805032-03A

Matrix: Aqueous

Collected 5/1/2018 12:00

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Thiobencarb	ND			0.49	0.15	µg/L	0.98	5/3/2018	05/08/18 14:43

Client Sample ID: CBD5-NCL-1-1

Received: 5/2/2018

Lab ID: 1805032-04A

Matrix: Aqueous

Collected 5/1/2018 13:50

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Thiobencarb	ND			0.50	0.15	µg/L	1.0	5/3/2018	05/08/18 15:02

Client Sample ID: CBD1-NCL-1-1

Received: 5/2/2018

Lab ID: 1805032-05A

Matrix: Aqueous

Collected 5/1/2018 15:50

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Thiobencarb	ND			0.49	0.15	µg/L	0.99	5/3/2018	05/08/18 15:20

North Coast Laboratories, Ltd.

Date: 5/9/2018

CLIENT: Valent USA Corporation**Work Order:** 1805032**Project:** 20154800.003A Task 01**QC SUMMARY REPORT**

Method Blank

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
MB-36030	36030	THIOW	µg/L	5/8/2018 12:52:26 PM	5/3/2018						
Client ID:		Run ID:	ORLCMSMS2_180508A	SeqNo:	1357306						
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: 5/9/2018

CLIENT: Valent USA Corporation
Work Order: 1805032
Project: 20154800.003A Task 01

QC SUMMARY REPORT
 Laboratory Control Spike

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
LCS-36030	36030	THIOW	µg/L	5/8/2018 1:10:58 PM	5/3/2018						
Client ID:		Run ID:	ORLCMSMS2_180508A	SeqNo:	1357307						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	0.8179	0.50	1.00	0	81.8%	70	120	0			

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
LCSD-36030	36030	THIOW	µg/L	5/8/2018 1:29:31 PM	5/3/2018						
Client ID:		Run ID:	ORLCMSMS2_180508A	SeqNo:	1357308						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	0.9125	0.50	1.00	0	91.2%	70	120	0.818	10.9%	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



COC# 884891

Project No. 20154800.004A Task 01		Project Name RPP- W1D1			Analysis			Receiving Lab: North Coast Laboratories 5680 West End Rd., Arcata CA 95521 Attn: Roxanne Moore (707) 822-4649	
L.P. No. (PO No.)		Samplers: (Signature/Number) 						No. of Containers	
Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix			Thiobencarb			
1	05/01/18	0825	SR1-NCL-1-1	W	1	500 mL	X		
2	05/01/18	1010	SSB-NCL-1-1	W	1	500 mL	X		
3	05/01/18	1200	BS1-NCL-1-1	W	1	500 mL	X		
4	05/01/18	1350	CBD5-NCL-1-1	W	1	500 mL	X		
5	05/01/18	1550	CBD1-NCL-1-1	W	1	500 mL	X		
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
Relinquished By: 		Date/Time 5/1/18 1900	Received By: FEDEX		Instructions/Remarks Please send invoice to VALENT LABS 2.6°			Send Results To: rfiroved@calrice.org jenny.krenz@CH2M.com criddle@kleinfelder.com lshort@kleinfelder.com	
Relinquished By: FEDEX		Date/Time	Received By: 						
Relinquished By:		Date/Time	Received By:						



CALIFORNIA LABORATORY SERVICES

Committed. Responsive. Flexible.

May 09, 2018

CLS Work Order #: 18E0083

COC #: 776155

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 05/02/18 08:20. 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 SWRCB ELAP Accreditation/Registration number 1233

Project No. 20154800.004A Task 01		Project Name RPP- W1D1		No. of Containers	Type of Containers	Analysis										Receiving Lab California Laboratory Services 3249 Fitzgerald Rd. Rancho Cordova, CA 95742	
LP No. (PO No.)	Samplers: (Signature/Number) 															Instructions/Remarks Standard turn around time	
Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix													Thiobencarb	
1	05/01/18	1400	CBD5-CLS-1-1-RB	W	1	500 mL	X										
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
Relinquished By 		Date/Time 5/1/18 1900		Received By KLF Sample Control		Instructions/Remarks Please send invoice to KLEINFELDER										Send Results To: rfiroved@calrice.org jenny.krenz@CH2M.com criddle@kleinfelder.com lshort@kleinfelder.com	
Relinquished By KLF Sample Control		Date/Time 5/2/18 0715		Received By 													
Relinquished By 		Date/Time 5/2/18 0820		Received By 5/2/18 820 (S.I)													



CALIFORNIA LABORATORY SERVICES

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Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: RPP-W1D1 Project Number: 20154800.004A Task 01 Project Manager: Craig Riddle	CLS Work Order #: 18E0083 COC #: 776155
--	---	--

Nitrogen/Phosphorus Pesticides by EPA Method 507

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CBD5-CLS-1-1-RB (18E0083-01) Water Sampled: 05/01/18 14:00 Received: 05/02/18 08:20 QRL-2									
Thiobencarb	ND	2.0	µg/L	1	1803663	05/03/18	05/03/18	EPA 507	
<i>Surrogate: EPN</i>		95 %	65-135		"	"	"	"	



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Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: RPP-W1D1 Project Number: 20154800.004A Task 01 Project Manager: Craig Riddle	CLS Work Order #: 18E0083 COC #: 776155
--	---	--

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 1803663 - EPA 3510B GCNV

Blank (1803663-BLK1)

Prepared & Analyzed: 05/03/18

Thiobencarb	ND	1.0	µg/L							
<i>Surrogate: EPN</i>	2.17		"	2.50		87	65-135			

LCS (1803663-BS1)

Prepared & Analyzed: 05/03/18

Thiobencarb	5.94	1.0	µg/L	5.00		119	75-120			
<i>Surrogate: EPN</i>	2.15		"	2.50		86	65-135			

LCS Dup (1803663-BSD1)

Prepared & Analyzed: 05/03/18

Thiobencarb	5.94	1.0	µg/L	5.00		119	75-120	0.04	25	
<i>Surrogate: EPN</i>	2.23		"	2.50		89	65-135			



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Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: RPP-W1D1 Project Number: 20154800.004A Task 01 Project Manager: Craig Riddle	CLS Work Order #: 18E0083 COC #: 776155
--	---	---

Notes and Definitions

- QRL-2 Elevated reporting limits due to limited sample volume.
- 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



**NORTH COAST
LABORATORIES LTD.**

May 17, 2018

Valent USA Corporation
6560 Trinity Court
Dublin, CA 94568

Attn: Robin Charlton

Order No.: 1805159
Invoice No.: 140061
PO No.: CR-2607/VP-18-200583
ELAP No.1247-Expires July 2018

RE: RPP-W2D1 20154800.004A 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	CBD-1-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: 17-May-2018

WorkOrder: 1805159

CASE NARRATIVE

J Flags:

Test results that fall below the reporting limit and above the method detection limit are considered approximate values.

Date: 17-May-2018

WorkOrder: 1805159

ANALYTICAL REPORT

Client Sample ID: SR1-NCL-2-1

Received: 5/9/2018

Lab ID: 1805159-01A

Matrix: Aqueous

Collected 5/8/2018 8:40

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Thiobencarb	ND			0.49	0.15	µg/L	0.99	5/14/2018	05/16/18 14:27

Client Sample ID: SSB-NCL-2-1

Received: 5/9/2018

Lab ID: 1805159-02A

Matrix: Aqueous

Collected 5/8/2018 10:00

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Thiobencarb	ND			0.50	0.15	µg/L	0.99	5/14/2018	05/16/18 14:45

Client Sample ID: BS1-NCL-2-1

Received: 5/9/2018

Lab ID: 1805159-03A

Matrix: Aqueous

Collected 5/8/2018 11:40

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Thiobencarb	ND			0.50	0.15	µg/L	1.0	5/14/2018	05/16/18 15:04

Client Sample ID: CBD5-NCL-2-1

Received: 5/9/2018

Lab ID: 1805159-04A

Matrix: Aqueous

Collected 5/8/2018 10:00

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
<i>Thiobencarb</i>	<i>0.47</i>		J	0.49	0.15	µg/L	0.99	5/14/2018	05/16/18 15:22

Client Sample ID: CBD-1-NCL-2-1

Received: 5/9/2018

Lab ID: 1805159-05A

Matrix: Aqueous

Collected 5/8/2018 15:00

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Thiobencarb	ND			0.49	0.15	µg/L	0.98	5/14/2018	05/16/18 15:41

North Coast Laboratories, Ltd.

Date: 5/17/2018

CLIENT: Valent USA Corporation
Work Order: 1805159
Project: RPP-W2D1 20154800.004A Task 01

QC SUMMARY REPORT

Method Blank

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
MB-36070	36070	THIOW	µg/L	5/16/2018 1:31:31 PM	5/14/2018						
Client ID:		Run ID:	ORLCMSMS2_180516A	SeqNo:	1358789						
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: 5/17/2018

CLIENT: Valent USA Corporation
Work Order: 1805159
Project: RPP-W2D1 20154800.004A Task 01

QC SUMMARY REPORT
 Laboratory Control Spike

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
LCS-36070	36070	THIOW	µg/L	5/16/2018 1:50:01 PM	5/14/2018						
Client ID:		Run ID:	ORLCMSMS2_180516A	SeqNo:	1358790						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	1.075	0.50	1.00	0	108%	70	120	0			
Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
LCSD-36070	36070	THIOW	µg/L	5/16/2018 2:08:34 PM	5/14/2018						
Client ID:		Run ID:	ORLCMSMS2_180516A	SeqNo:	1358791						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	1.086	0.50	1.00	0	109%	70	120	1.08	1.02%	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



1805159

Project No. 20154800.004A Task 01		Project Name RPP- W2D1			No. of Containers	Type of Containers	Analysis										Receiving Lab:					
L.P. No. (PO No.)	Samplers: (Signature/Number)			Date MM/DD/YY			Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	Thiobencarb												
1	05/08/18	0840	SR1-NCL-2-1	W	1	500 mL		X														
2	05/08/18	1000	SSB-NCL-2-1	W	1	500 mL		X														
3	05/08/18	1140	BS1-NCL-2-1	W	1	500 mL		X														
4	05/08/18	1300	CBD5-NCL-2-1	W	1	500 mL		X														
5	05/08/18	1500	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:		Instructions/Remarks										Send Results To:						
		5/8/18 1200		FEDER		Please send invoice to VALENT LABS										rfiroved@calrice.org						
Relinquished By:		Date/Time		Received By:												jenny.krenz@CH2M.com						
		5/9/18 1324														criddle@kleinfelder.com						
Relinquished By:		Date/Time		Received By:												lshort@kleinfelder.com						

Temp 10°C
on ice



CALIFORNIA LABORATORY SERVICES

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May 16, 2018

CLS Work Order #: 18E0495

COC #:

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 05/09/18 11:12. 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 SWRCB ELAP Accreditation/Registration number 1233



18E0495

Project No. 20154800.004A Task 01		Project Name RPP- W2D1			No. of Containers	Type of Containers	Analysis										Receiving Lab: California Laboratory Services 3249 Fitzgerald Rd. Rancho Cordova, CA 95742	
L.P. No. (PO No.)	Samplers: (Signature/Number)																Instructions/Remarks Standard turn around time	
Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix			Thiobencarb												
1	05/08/18	1000	SSB-CLS-2-1-D	W	1	1-L Amber	X											
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
Relinquished By:		Date/Time 05/08/18 1730		Received By: KLF Sample Control		Instructions/Remarks: Please send invoice to KLEINFELDER										Send Results To: rfiroved@calrice.org jenny.krenz@CH2M.com criddle@kleinfelder.com lshort@kleinfelder.com		
Relinquished By: KLF Sample Control		Date/Time 05/09/18		Received By:														
Relinquished By:		Date/Time 5-9-18 1112		Received By:														

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CALIFORNIA LABORATORY SERVICES

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Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: RPP-W2D1 Project Number: 20154800.004A Task 01 Project Manager: Craig Riddle	CLS Work Order #: 18E0495 COC #:
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Nitrogen/Phosphorus Pesticides by EPA Method 507

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SSB-CLS-2-1-D (18E0495-01) Water Sampled: 05/08/18 10:00 Received: 05/09/18 11:12									
Thiobencarb	ND	1.0	µg/L	1	1803864	05/09/18	05/10/18	EPA 507	

Surrogate: EPN

104 % 65-135 " " " "



CALIFORNIA LABORATORY SERVICES

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Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: RPP-W2D1 Project Number: 20154800.004A Task 01 Project Manager: Craig Riddle	CLS Work Order #: 18E0495 COC #:
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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 1803864 - EPA 3510B GCNV

Blank (1803864-BLK1)

Prepared: 05/09/18 Analyzed: 05/10/18

Thiobencarb	ND	1.0	µg/L							
Surrogate: EPN	2.56		"	2.50		103	65-135			

LCS (1803864-BS1)

Prepared: 05/09/18 Analyzed: 05/10/18

Thiobencarb	7.86	1.0	µg/L	5.00		157	75-120			QC-4H
Surrogate: EPN	3.17		"	2.50		127	65-135			

LCS Dup (1803864-BSD1)

Prepared: 05/09/18 Analyzed: 05/10/18

Thiobencarb	5.12	1.0	µg/L	5.00		102	75-120	42	25	A-COM
Surrogate: EPN	2.37		"	2.50		95	65-135			



Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: RPP-W2D1 Project Number: 20154800.004A Task 01 Project Manager: Craig Riddle	CLS Work Order #: 18E0495 COC #:
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Notes and Definitions

- QC-4H The percent recovery of LCS or LCSD was above the upper control limit; however, all analytes in the associated sample were ND; therefore, a reanalysis was not performed.
- A-COM The percent recovery of LCS or LCSD was above the upper control limits; thus the RPD result exceeded the QC control limits; however, all analytes in the associated samples were ND; therefore, a reanalysis was not performed.
- 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



**NORTH COAST
LABORATORIES LTD.**

May 24, 2018

Valent USA Corporation
6560 Trinity Court
Dublin, CA 94568

Attn: Accounts Payable

Order No.: 1805275
Invoice No.: 140156
PO No.:
ELAP No.1247-Expires July 2018

RE: 20154800.004A Task 01 RPP-W3D1

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	SR1-NCL-3-1
02A	SSB-NCL-3-1
03A	BS1-NCL-3-1
04A	CBD5-NCL-3-1
05A	CBD1-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: 24-May-2018

WorkOrder: 1805275

CASE NARRATIVE

J Flags:

Test results that fall below the reporting limit and above the method detection limit are considered approximate values.

Date: 24-May-2018

WorkOrder: 1805275

ANALYTICAL REPORT

Client Sample ID: SR1-NCL-3-1

Received: 5/16/2018

Lab ID: 1805275-01A

Matrix: Aqueous

Collected 5/15/2018 8:10

Test Name: Thiobencarb

Analyst: TAK

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Thiobencarb	ND			0.51	0.15	µg/L	1.0	5/22/2018	05/23/18 12:02

Client Sample ID: SSB-NCL-3-1

Received: 5/16/2018

Lab ID: 1805275-02A

Matrix: Aqueous

Collected 5/15/2018 9:54

Test Name: Thiobencarb

Analyst: TAK

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Thiobencarb	ND			0.49	0.15	µg/L	0.98	5/22/2018	05/23/18 12:20

Client Sample ID: BS1-NCL-3-1

Received: 5/16/2018

Lab ID: 1805275-03A

Matrix: Aqueous

Collected 5/15/2018 11:30

Test Name: Thiobencarb

Analyst: TAK

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Thiobencarb	ND			0.50	0.15	µg/L	1.0	5/22/2018	05/23/18 12:39

Client Sample ID: CBD5-NCL-3-1

Received: 5/16/2018

Lab ID: 1805275-04A

Matrix: Aqueous

Collected 5/15/2018 12:35

Test Name: Thiobencarb

Analyst: TAK

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
<i>Thiobencarb</i>	<i>0.73</i>			0.50	0.15	µg/L	1.0	5/22/2018	05/23/18 12:57

Client Sample ID: CBD1-NCL-3-1

Received: 5/16/2018

Lab ID: 1805275-05A

Matrix: Aqueous

Collected 5/15/2018 14:10

Test Name: Thiobencarb

Analyst: TAK

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
<i>Thiobencarb</i>	<i>0.46</i>		J	0.50	0.15	µg/L	1.0	5/22/2018	05/23/18 13:16

North Coast Laboratories, Ltd.

Date: 5/24/2018

CLIENT: Valent USA Corporation
Work Order: 1805275
Project: 20154800.004A Task 01 RPP-W3D1

QC SUMMARY REPORT

Method Blank

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
MB-36096	36096	THIOW	µg/L	5/23/2018 10:47:57 AM	5/22/2018						
Client ID:		Run ID:	ORLCMSMS2_180523A	SeqNo:	1360134						
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: 5/24/2018

CLIENT: Valent USA Corporation
Work Order: 1805275
Project: 20154800.004A Task 01 RPP-W3D1

QC SUMMARY REPORT
 Laboratory Control Spike

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
LCS-36096	36096	THIOW	µg/L	5/23/2018 11:06:29 AM	5/22/2018						
Client ID:		Run ID:	ORLCMSMS2_180523A	SeqNo:	1360135						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	0.8918	0.50	1.00	0	89.2%	70	120	0			

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
LCSD-36096	36096	THIOW	µg/L	5/23/2018 11:25:03 AM	5/22/2018						
Client ID:		Run ID:	ORLCMSMS2_180523A	SeqNo:	1360136						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	1.001	0.50	1.00	0	100%	70	120	0.892	11.5%	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



Project No. 20154800.004A Task 01		Project Name RPP- W3D1		No. of Containers	Type of Containers	Analysis										Receiving Lab:				
L.P. No. (PO No.)	Samplers: (Signature/Number)					Thiobencarb														Instructions/Remarks
Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix																	
1	05/15/18	0810	SR1-NCL-3-1	W	1	500 mL	X													Standard turn around time
2	05/15/18	0959	SSB-NCL-3-1	W	1	500 mL	X													
3	05/15/18	1130	BS1-NCL-3-1	W	1	500 mL	X													
4	05/15/18	1235	CBD5-NCL-3-1	W	1	500 mL	X													
5	05/15/18	1410	CBD1-NCL-3-1	W	1	500 mL	X													
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				
Relinquished By:		Date/Time 5/16/18 1900	Received By: FEDEX		Instructions/Remarks Please send invoice to VALENT LABS 3.4°										Send Results To: rfiroved@calrice.org jenny.krenz@CH2M.com criddle@kleinfelder.com lshort@kleinfelder.com					
Relinquished By:		Date/Time 5/16/18 1305	Received By:																	
Relinquished By:		Date/Time	Received By:																	



**NORTH COAST
LABORATORIES LTD.**

May 24, 2018

Kleinfelder
2882 Prospect Park Dr.
Suite 200
Rancho Cordova, CA 95670
Attn: Craig Riddle

Order No.: 1805274
Invoice No.: 140155
PO No.:
ELAP No.1247-Expires July 2018

RE: 20154800.004A Task 01 RPP-W3D1

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	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: 24-May-2018

WorkOrder: 1805274

CASE NARRATIVE

J Flags:

Test results that fall below the reporting limit and above the method detection limit are considered approximate values.

Date: 24-May-2018

WorkOrder: 1805274

ANALYTICAL REPORT

Client Sample ID: CRC1-NCL-3-1

Received: 5/16/2018

Lab ID: 1805274-01A

Matrix: Aqueous

Collected 5/15/2018 13:30

Test Name: Thiobencarb

Analyst: TAK

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
<i>Thiobencarb</i>	<i>1.4</i>			0.50	0.15	µg/L	1.0	5/22/2018	05/23/18 11:43

North Coast Laboratories, Ltd.

Date: 5/24/2018

CLIENT: Kleinfelder
Work Order: 1805274
Project: 20154800.004A Task 01 RPP-W3D1

QC SUMMARY REPORT

Method Blank

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
MB-36096	36096	THIOW	µg/L	5/23/2018 10:47:57 AM	5/22/2018						
Client ID:		Run ID:	ORLCMSMS2_180523A	SeqNo:	1360134						
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: 5/24/2018

CLIENT: Kleinfelder
Work Order: 1805274
Project: 20154800.004A Task 01 RPP-W3D1

QC SUMMARY REPORT
 Laboratory Control Spike

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
LCS-36096	36096	THIOW	µg/L	5/23/2018 11:06:29 AM	5/22/2018						
Client ID:		Run ID:	ORLCMSMS2_180523A	SeqNo:	1360135						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	0.8918	0.50	1.00	0	89.2%	70	120	0			

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
LCSD-36096	36096	THIOW	µg/L	5/23/2018 11:25:03 AM	5/22/2018						
Client ID:		Run ID:	ORLCMSMS2_180523A	SeqNo:	1360136						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	1.001	0.50	1.00	0	100%	70	120	0.892	11.5%	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



COC# 247981

Project No. 20154800.004A Task 01		Project Name RPP- W3D1		No. of Containers	Type of Containers	Analysis										Receiving Lab:		
L.P. No. (PO No.)	Samplers: (Signature/Number)					Thiobencarb												
Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix															
1	05/15/18	1350	CRC1-NCL-3-1	W	1	500 mL	X											
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
Relinquished By:		Date/Time 5/15/18 1500		Received By: 		Instructions/Remarks Please send invoice to KLEINFELDER 3.4°										Send Results To: rfiroved@calrice.org jenny.krenz@CH2M.com criddle@kleinfelder.com lshort@kleinfelder.com		
Relinquished By:		Date/Time 5/16/18 1305		Received By: 														
Relinquished By:		Date/Time		Received By:														



**NORTH COAST
LABORATORIES LTD.**

May 31, 2018

Valent USA Corporation
6560 Trinity Court
Dublin, CA 94568

Attn: Charles Green

Order No.: 1805420
Invoice No.: 140217
PO No.:
ELAP No.1247-Expires July 2018

RE: 20154800.004A Task 01 RPP-W4D1

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: 31-May-2018

WorkOrder: 1805420

CASE NARRATIVE

J Flags:

Test results that fall below the reporting limit and above the method detection limit are considered approximate values.

Date: 31-May-2018

WorkOrder: 1805420

ANALYTICAL REPORT

Client Sample ID: SR1-NCL-4-1

Received: 5/25/2018

Lab ID: 1805420-01A

Matrix: Water

Collected 5/22/2018 8:40

Test Name: Thiobencarb

Analyst: TAK

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Thiobencarb	ND			0.49	0.15	µg/L	0.99	5/29/2018	05/30/18 22:06

Client Sample ID: SSB-NCL-4-1

Received: 5/25/2018

Lab ID: 1805420-02A

Matrix: Water

Collected 5/22/2018 9:37

Test Name: Thiobencarb

Analyst: TAK

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Thiobencarb	ND			0.51	0.15	µg/L	1.0	5/29/2018	05/30/18 22:24

Client Sample ID: BS1-NCL-4-1

Received: 5/25/2018

Lab ID: 1805420-03A

Matrix: Water

Collected 5/22/2018 11:40

Test Name: Thiobencarb

Analyst: TAK

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Thiobencarb	ND			0.50	0.15	µg/L	1.0	5/29/2018	05/30/18 22:43

Client Sample ID: CBD5-NCL-4-1

Received: 5/25/2018

Lab ID: 1805420-04A

Matrix: Water

Collected 5/22/2018 13:45

Test Name: Thiobencarb

Analyst: TAK

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Thiobencarb	ND			0.49	0.15	µg/L	0.98	5/29/2018	05/30/18 23:01

Client Sample ID: CBD1-NCL-4-1

Received: 5/25/2018

Lab ID: 1805420-05A

Matrix: Water

Collected 5/22/2018 16:05

Test Name: Thiobencarb

Analyst: TAK

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
<i>Thiobencarb</i>	<i>1.3</i>			0.51	0.15	µg/L	1.0	5/29/2018	05/30/18 23:20

North Coast Laboratories, Ltd.

Date: 5/31/2018

CLIENT: Valent USA Corporation
Work Order: 1805420
Project: 20154800.004A Task 01 RPP-W4D1

QC SUMMARY REPORT

Method Blank

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
MB-36121	36121	THIOW	µg/L	5/30/2018 7:37:51 PM	5/29/2018						
Client ID:		Run ID:	ORLCMSMS2_180530A	SeqNo:	1361044						
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: 5/31/2018

CLIENT: Valent USA Corporation
Work Order: 1805420
Project: 20154800.004A Task 01 RPP-W4D1

QC SUMMARY REPORT
 Laboratory Control Spike

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
LCS-36121	36121	THIOW	µg/L	5/30/2018 7:56:23 PM	5/29/2018						
Client ID:		Run ID:	ORLCMSMS2_180530A	SeqNo:	1361045						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	0.8001	0.50	1.00	0	80.0%	70	120	0			
Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
LCSD-36121	36121	THIOW	µg/L	5/30/2018 8:14:56 PM	5/29/2018						
Client ID:		Run ID:	ORLCMSMS2_180530A	SeqNo:	1361046						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	0.8214	0.50	1.00	0	82.1%	70	120	0.800	2.62%	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



Project No. 20154800.004A Task 01		Project Name RPP- W4D1			No. of Containers	Type of Containers	Analysis										Receiving Lab:
L.P. No. (PO No.)	Samplers: (Signature/Number) <i>Short</i>						Thiobencarb										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	Instructions/Remarks Standard turn around time													
1	05/22/18	0840	SR1-NCL-4-1	W	1	500 mL	X										
2	05/22/18	0937	SSB-NCL-4-1	W	1	500 mL	X										
3	05/22/18	1140	BS1-NCL-4-1	W	1	500 mL	X										
4	05/22/18	1345	CBD5-NCL-4-1	W	1	500 mL	X										
5	05/22/18	1605	CBD1-NCL-4-1	W	1	500 mL	X										
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
Relinquished By: <i>[Signature]</i>		Date/Time 5/24/18 1900		Received By: KLF Sample Control		Instructions/Remarks Please send invoice to VALENT LABS										Send Results To: rfiroved@calrice.org jenny.krenz@CH2M.com criddle@kleinfelder.com lshort@kleinfelder.com	
Relinquished By: KLF Sample Control		Date/Time 5/24/18 1700		Received By: <i>[Signature]</i>													
Relinquished By: <i>[Signature]</i>		Date/Time 5/24/18 1900		Received By: FEDEX													

[Handwritten signature] 5/25/18 1210
9.87



CALIFORNIA LABORATORY SERVICES

Committed. Responsive. Flexible.

May 31, 2018

CLS Work Order #: 18E1261

COC #:

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 05/23/18 08:45. 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 SWRCB ELAP Accreditation/Registration number 1233



Project No. 20154800.004A Task 01		Project Name RPP- W4D1		No. of Containers	Type of Containers	Analysis										Receiving Lab: California Laboratory Services 3249 Fitzgerald Rd. Rancho Cordova, CA 95742	
L.P. No. (PO No.)		Samplers: (Signature/Number) <i>Short</i>				Thiobencarb										Instructions/Remarks Standard turn around time	
Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix														
1	05/22/18	1141	BS1-CLS-4-1-D	W	1	1-L Amber	X										
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
Relinquished By: <i>[Signature]</i>		Date/Time 5/24/18 11:00		Received By: KIF Sample Control		Instructions/Remarks Please send invoice to KLEINFELDER										Send Results To: rfiroved@calrice.org jenny.krenz@CH2M.com criddle@kleinfelder.com lshort@kleinfelder.com	
Relinquished By: KIF SC		Date/Time 5/23/18 08:55		Received By: <i>[Signature]</i>													
Relinquished By: <i>[Signature]</i>		Date/Time 5/23/18 08:15		Received By: W. [Signature] 5/23/18 08:15													



CALIFORNIA LABORATORY SERVICES

Committed. Responsive. Flexible.

Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: RPP-W4D1 Project Number: 20154800.004A Task 01 Project Manager: Craig Riddle	CLS Work Order #: 18E1261 COC #:
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Nitrogen/Phosphorus Pesticides by EPA Method 507

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BS1-CLS-4-1-D (18E1261-01) Water Sampled: 05/22/18 11:41 Received: 05/23/18 08:45									
Thiobencarb	ND	1.0	µg/L	1	1804303	05/24/18	05/29/18	EPA 507	

Surrogate: EPN

114 % 65-135 " " " "



CALIFORNIA LABORATORY SERVICES

Committed. Responsive. Flexible.

Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: RPP-W4D1 Project Number: 20154800.004A Task 01 Project Manager: Craig Riddle	CLS Work Order #: 18E1261 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 1804303 - EPA 3510B GCNV

Blank (1804303-BLK1)

Prepared: 05/24/18 Analyzed: 05/29/18

Thiobencarb	ND	1.0	µg/L							
Surrogate: EPN	3.09		"	2.50		124	65-135			

LCS (1804303-BS1)

Prepared: 05/24/18 Analyzed: 05/29/18

Thiobencarb	5.89	1.0	µg/L	5.00		118	75-120			
Surrogate: EPN	2.61		"	2.50		104	65-135			

LCS Dup (1804303-BSD1)

Prepared: 05/24/18 Analyzed: 05/29/18

Thiobencarb	5.75	1.0	µg/L	5.00		115	75-120	2	25	
Surrogate: EPN	2.64		"	2.50		106	65-135			



CALIFORNIA LABORATORY SERVICES

Committed. Responsive. Flexible.

Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: RPP-W4D1 Project Number: 20154800.004A Task 01 Project Manager: Craig Riddle	CLS Work Order #: 18E1261 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



**NORTH COAST
LABORATORIES LTD.**

May 31, 2018

Valent USA Corporation
6560 Trinity Court
Dublin, CA 94568

Attn: Charles Green

Order No.: 1805418
Invoice No.: 140216
PO No.:
ELAP No.1247-Expires July 2018

RE: 20154800.004A Task 01 RPP-W4D2

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: 31-May-2018

WorkOrder: 1805418

CASE NARRATIVE

J Flags:

Test results that fall below the reporting limit and above the method detection limit are considered approximate values.

Date: 31-May-2018

WorkOrder: 1805418

ANALYTICAL REPORT

Client Sample ID: SR1-NCL-4-2

Received: 5/25/2018

Lab ID: 1805418-01A

Matrix: Water

Collected 5/24/2018 8:30

Test Name: Thiobencarb

Analyst: TAK

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Thiobencarb	ND			0.49	0.15	µg/L	0.98	5/29/2018	05/30/18 20:33

Client Sample ID: SSB-NCL-4-2

Received: 5/25/2018

Lab ID: 1805418-02A

Matrix: Water

Collected 5/24/2018 9:50

Test Name: Thiobencarb

Analyst: TAK

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Thiobencarb	ND			0.50	0.15	µg/L	1.0	5/29/2018	05/30/18 20:52

Client Sample ID: BS1-NCL-4-2

Received: 5/25/2018

Lab ID: 1805418-03A

Matrix: Water

Collected 5/24/2018 11:15

Test Name: Thiobencarb

Analyst: TAK

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
<i>Thiobencarb</i>	<i>0.18</i>		J	0.49	0.15	µg/L	0.98	5/29/2018	05/30/18 21:10

Client Sample ID: CBD5-NCL-4-2

Received: 5/25/2018

Lab ID: 1805418-04A

Matrix: Water

Collected 5/24/2018 12:15

Test Name: Thiobencarb

Analyst: TAK

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
<i>Thiobencarb</i>	<i>1.4</i>			0.49	0.15	µg/L	0.98	5/29/2018	05/30/18 21:29

Client Sample ID: CBD1-NCL-4-2

Received: 5/25/2018

Lab ID: 1805418-05A

Matrix: Water

Collected 5/24/2018 13:36

Test Name: Thiobencarb

Analyst: TAK

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
<i>Thiobencarb</i>	<i>0.59</i>			0.49	0.15	µg/L	0.98	5/29/2018	05/30/18 21:47

North Coast Laboratories, Ltd.

Date: 5/31/2018

CLIENT: Valent USA Corporation
Work Order: 1805418
Project: 20154800.004A Task 01 RPP-W4D2

QC SUMMARY REPORT

Method Blank

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
MB-36121	36121	THIOW	µg/L	5/30/2018 7:37:51 PM	5/29/2018						
Client ID:		Run ID:	ORLCMSMS2_180530A	SeqNo:	1361044						
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: 5/31/2018

CLIENT: Valent USA Corporation
Work Order: 1805418
Project: 20154800.004A Task 01 RPP-W4D2

QC SUMMARY REPORT
 Laboratory Control Spike

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
LCS-36121	36121	THIOW	µg/L	5/30/2018 7:56:23 PM	5/29/2018						
Client ID:		Run ID:	ORLCMSMS2_180530A	SeqNo:	1361045						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	0.8001	0.50	1.00	0	80.0%	70	120	0			
Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
LCSD-36121	36121	THIOW	µg/L	5/30/2018 8:14:56 PM	5/29/2018						
Client ID:		Run ID:	ORLCMSMS2_180530A	SeqNo:	1361046						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	0.8214	0.50	1.00	0	82.1%	70	120	0.800	2.62%	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



**NORTH COAST
LABORATORIES LTD.**

June 11, 2018

Valent USA Corporation
6560 Trinity Court
Dublin, CA 94568

Attn: Accounts Payable

Order No.: 1806018
Invoice No.: 140405
PO No.:
ELAP No.1247-Expires July 2018

RE: 20154800.004A Task 01 RPP-W5D1

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	SR1-NCL-5-1
02A	SSB-NCL-5-1
03A	BS1-NCL-5-1
04A	CBD5-NCL-5-1
05A	CBD1-NCL-5-1

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: 11-Jun-2018
WorkOrder: 1806018

CASE NARRATIVE

J Flags:

Test results that fall below the reporting limit and above the method detection limit are considered approximate values.

Date: 11-Jun-2018

WorkOrder: 1806018

ANALYTICAL REPORT

Client Sample ID: SR1-NCL-5-1

Received: 6/1/2018

Lab ID: 1806018-01A

Matrix: Aqueous

Collected 5/29/2018 9:16

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Thiobencarb	ND			0.49	0.15	µg/L	0.98	6/4/2018	06/08/18 14:53

Client Sample ID: SSB-NCL-5-1

Received: 6/1/2018

Lab ID: 1806018-02A

Matrix: Aqueous

Collected 5/29/2018 11:11

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Thiobencarb	ND			0.50	0.15	µg/L	1.0	6/4/2018	06/08/18 15:11

Client Sample ID: BS1-NCL-5-1

Received: 6/1/2018

Lab ID: 1806018-03A

Matrix: Aqueous

Collected 5/29/2018 12:36

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
<i>Thiobencarb</i>	<i>0.39</i>		J	0.49	0.15	µg/L	0.99	6/4/2018	06/08/18 15:30

Client Sample ID: CBD5-NCL-5-1

Received: 6/1/2018

Lab ID: 1806018-04A

Matrix: Aqueous

Collected 5/29/2018 13:34

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
<i>Thiobencarb</i>	<i>1.7</i>			0.49	0.15	µg/L	0.99	6/4/2018	06/08/18 15:48

Client Sample ID: CBD1-NCL-5-1

Received: 6/1/2018

Lab ID: 1806018-05A

Matrix: Aqueous

Collected 5/29/2018 14:58

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
<i>Thiobencarb</i>	<i>1.4</i>			0.50	0.15	µg/L	0.99	6/4/2018	06/08/18 16:07

North Coast Laboratories, Ltd.

Date: 6/11/2018

CLIENT: Valent USA Corporation
Work Order: 1806018
Project: 20154800.004A Task 01 RPP-W5D1

QC SUMMARY REPORT

Method Blank

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
MB-36144	36144	THIOW	µg/L	6/8/2018 12:24:54 PM	6/4/2018						
Client ID:		Run ID:	ORLCMSMS2_180608A	SeqNo:	1362461						
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: 6/11/2018

CLIENT: Valent USA Corporation
Work Order: 1806018
Project: 20154800.004A Task 01 RPP-W5D1

QC SUMMARY REPORT
 Laboratory Control Spike

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
LCS-36144	36144	THIOW	µg/L	6/8/2018 12:43:26 PM	6/4/2018						
Client ID:		Run ID:	ORLCMSMS2_180608A	SeqNo:	1362462						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	0.7168	0.50	1.00	0	71.7%	70	120	0			
LCS-36144	36144	THIOW	µg/L	6/8/2018 1:01:59 PM	6/4/2018						
Client ID:		Run ID:	ORLCMSMS2_180608A	SeqNo:	1362463						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	0.7819	0.50	1.00	0	78.2%	70	120	0.717	8.68%	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



COC# 683377

Project No. 20154800.004A Task 01		Project Name RPP- W5D1			No. of Containers	Type of Containers	Analysis										Receiving Lab: North Coast Laboratories 5680 West End Rd., Arcata CA 95521 Attn: Roxanne Moore (707) 822-4649	
L.P. No. (PO No.)	Samplers: (Signature/Number)						Thiobencarb											
Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix															
1	05/29/18	9:16	SR1-NCL-5-1	W	1	500 mL	X											60-75° angle
2	05/29/18	11:11	SSB-NCL-5-1	W	1	500 mL	X											
3	05/29/18	12:36	BS1-NCL-5-1	W	1	500 mL	X											
4	05/29/18	13:34	CBD5-NCL-5-1	W	1	500 mL	X											
5	05/29/18	14:58	CBD1-NCL-5-1	W	1	500 mL	X											
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
Relinquished By: <i>[Signature]</i>		Date/Time 5/29/18 1621		Received By: KLF Sample Control			Instructions/Remarks Please send invoice to VALENT LABS										Send Results To: rfiroved@calrice.org jenny.krenz@CH2M.com criddle@kleinfelder.com lshort@kleinfelder.com	
Relinquished By: KLF Sample Control		Date/Time 5/31/18 1605		Received By: <i>[Signature]</i>														
Relinquished By: <i>[Signature]</i>		Date/Time 5/31/18 1645		Received By: FEDEX														



CALIFORNIA LABORATORY SERVICES

Committed. Responsive. Flexible.

June 06, 2018

CLS Work Order #: 18E1513

COC #: 816173

Craig Riddle
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 05/30/18 08:45. 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 SWRCB ELAP Accreditation/Registration number 1233

Project No 20154800.004A Task 01		Project Name RPP- W5D1			No. of Containers	Type of Containers	Analysis										Receiving Lab California Laboratory Services 3249 Fitzgerald Rd. Rancho Cordova, CA 95742	
LP No (PO No.)	Samplers (Signature/Number) <i>[Signature]</i> 12535						Thiobencarb											Instructions/Remarks Standard turn around time
Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix															
1	05/29/18	09:17	SR1-CLS-5-1-D	W	1	1-L Amber	X											
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
Relinquished By <i>[Signature]</i>		Date/Time 5/29/18 1621		Received By KLF sample control		Instructions/Remarks Please send invoice to KLEINFELDER										Send Results To rfiroved@calrice.org jenny.krenz@CH2M.com criddle@kleinfelder.com lshort@kleinfelder.com		
Relinquished By KLF Sample control		Date/Time 5/31/18 09:45		Received By <i>[Signature]</i>														
Relinquished By <i>[Signature]</i>		Date/Time 5/30/18 09:45		Received By <i>[Signature]</i>														

(29)



CALIFORNIA LABORATORY SERVICES

Committed. Responsive. Flexible.

Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: RPP-W5D1 Project Number: 20154800.004A Task 01 Project Manager: Craig Riddle	CLS Work Order #: 18E1513 COC #: 816173
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Nitrogen/Phosphorus Pesticides by EPA Method 507

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SR1-CLS-5-1-D (18E1513-01) Water Sampled: 05/29/18 09:17 Received: 05/30/18 08:45									
Thiobencarb	ND	1.0	µg/L	1	1804462	05/31/18	06/02/18	EPA 507	

Surrogate: EPN

111 % 65-135 " " " "



CALIFORNIA LABORATORY SERVICES

Committed. Responsive. Flexible.

Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: RPP-W5D1 Project Number: 20154800.004A Task 01 Project Manager: Craig Riddle	CLS Work Order #: 18E1513 COC #: 816173
--	---	--

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
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Batch 1804462 - EPA 3510B GCNV

Blank (1804462-BLK1)

Prepared: 05/31/18 Analyzed: 06/02/18

Thiobencarb	ND	1.0	µg/L							
Surrogate: EPN	2.97		"	2.50		119	65-135			

LCS (1804462-BS1)

Prepared: 05/31/18 Analyzed: 06/02/18

Thiobencarb	5.76	1.0	µg/L	5.00		115	75-120			
Surrogate: EPN	2.64		"	2.50		105	65-135			

LCS Dup (1804462-BSD1)

Prepared: 05/31/18 Analyzed: 06/02/18

Thiobencarb	5.89	1.0	µg/L	5.00		118	75-120	2	25	
Surrogate: EPN	2.91		"	2.50		117	65-135			



CALIFORNIA LABORATORY SERVICES

Committed. Responsive. Flexible.

Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: RPP-W5D1 Project Number: 20154800.004A Task 01 Project Manager: Craig Riddle	CLS Work Order #: 18E1513 COC #: 816173
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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



**NORTH COAST
LABORATORIES LTD.**

June 11, 2018

Valent USA Corporation
6560 Trinity Court
Dublin, CA 94568

Attn: Accounts Payable

Order No.: 1806001
Invoice No.: 140406
PO No.: CR-2607/VP-18-200583
ELAP No.1247-Expires July 2018

RE: 20154800.004A Task 01 RPP-W5D2

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	SR1-NCL-5-2
02A	SSB-NCL-5-2
03A	BS1-NCL-5-2
04A	CBD5-NCL-5-2
05A	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: 11-Jun-2018

WorkOrder: 1806001

CASE NARRATIVE

J Flags:

Test results that fall below the reporting limit and above the method detection limit are considered approximate values.

Date: 11-Jun-2018

WorkOrder: 1806001

ANALYTICAL REPORT

Client Sample ID: SR1-NCL-5-2

Received: 6/1/2018

Lab ID: 1806001-01A

Matrix: Waste Water

Collected 5/31/2018 9:25

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Thiobencarb	ND			0.49	0.15	µg/L	0.99	6/4/2018	06/08/18 13:20

Client Sample ID: SSB-NCL-5-2

Received: 6/1/2018

Lab ID: 1806001-02A

Matrix: Waste Water

Collected 5/31/2018 10:25

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Thiobencarb	ND			0.49	0.15	µg/L	0.99	6/4/2018	06/08/18 13:39

Client Sample ID: BS1-NCL-5-2

Received: 6/1/2018

Lab ID: 1806001-03A

Matrix: Waste Water

Collected 5/31/2018 11:35

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
<i>Thiobencarb</i>	<i>0.30</i>		J	0.50	0.15	µg/L	1.0	6/4/2018	06/08/18 13:57

Client Sample ID: CBD5-NCL-5-2

Received: 6/1/2018

Lab ID: 1806001-04A

Matrix: Waste Water

Collected 5/31/2018 12:26

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
<i>Thiobencarb</i>	<i>1.3</i>			0.49	0.15	µg/L	0.99	6/4/2018	06/08/18 14:16

Client Sample ID: CBD1-NCL-5-2

Received: 6/1/2018

Lab ID: 1806001-05A

Matrix: Waste Water

Collected 5/31/2018 13:42

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
<i>Thiobencarb</i>	<i>1.0</i>			0.50	0.15	µg/L	1.0	6/4/2018	06/08/18 14:34

North Coast Laboratories, Ltd.

Date: 6/11/2018

CLIENT: Valent USA Corporation
Work Order: 1806001
Project: 20154800.004A Task 01 RPP-W5D2

QC SUMMARY REPORT

Method Blank

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
MB-36144	36144	THIOW	µg/L	6/8/2018 12:24:54 PM	6/4/2018						
Client ID:		Run ID:	ORLCMSMS2_180608A	SeqNo:	1362461						
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: 6/11/2018

CLIENT: Valent USA Corporation
Work Order: 1806001
Project: 20154800.004A Task 01 RPP-W5D2

QC SUMMARY REPORT
 Laboratory Control Spike

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
LCS-36144	36144	THIOW	µg/L	6/8/2018 12:43:26 PM	6/4/2018						
Client ID:		Run ID:	ORLCMSMS2_180608A	SeqNo:	1362462						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	0.7168	0.50	1.00	0	71.7%	70	120	0			
Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
LCSD-36144	36144	THIOW	µg/L	6/8/2018 1:01:59 PM	6/4/2018						
Client ID:		Run ID:	ORLCMSMS2_180608A	SeqNo:	1362463						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	0.7819	0.50	1.00	0	78.2%	70	120	0.717	8.68%	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



Project No. 20154800.004A Task 01		Project Name RPP- W5D2		No. of Containers	Type of Containers	Analysis										Receiving Lab: North Coast Laboratories 5680 West End Rd., Arcata CA 95521 Attn: Roxanne Moore (707) 822-4649	
L.P. No. (PO No.)	Samplers: (Signature/Number)					Thiobencarb											Instructions/Remarks Standard turn around time
Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix														
1	05/31/18	09:25	SR1-NCL-5-2	W	1	500 mL	X										
2	05/31/18	10:35	SSB-NCL-5-2	W	1	500 mL	X										
3	05/31/18	11:35	BS1-NCL-5-2	W	1	500 mL	X										
4	05/31/18	12:26	CBD5-NCL-5-2	W	1	500 mL	X										
5	05/31/18	13:42	CBD1-NCL-5-2	W	1	500 mL	X										
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
Relinquished By: <i>[Signature]</i>		Date/Time 5/31/18 11:45		Received By: <i>[Signature]</i>		Instructions/Remarks Please send invoice to VALENT LABS 2.5°										Send Results To: rfiroved@calrice.org jenny.krenz@CH2M.com criddle@kleinfelder.com lshort@kleinfelder.com	
Relinquished By:		Date/Time		Received By:													
Relinquished By:		Date/Time		Received By:													



**NORTH COAST
LABORATORIES LTD.**

June 19, 2018

Valent USA Corporation
6560 Trinity Court
Dublin, CA 94568

Attn: Charles Green

Order No.: 1806152
Invoice No.: 140554
PO No.: CR-2607/VP-18-200583
ELAP No.1247-Expires July 2018

RE: 20154800.004A Task 01 RPP-W6D1

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

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: 19-Jun-2018

WorkOrder: 1806152

CASE NARRATIVE

J Flags:

Test results that fall below the reporting limit and above the method detection limit are considered approximate values.

Date: 19-Jun-2018

WorkOrder: 1806152

ANALYTICAL REPORT

Client Sample ID: SR1-NCL-6-1

Received: 6/8/2018

Lab ID: 1806152-01A

Matrix: Aqueous

Collected 6/5/2018 8:22

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Thiobencarb	ND			0.49	0.15	µg/L	0.99	6/11/2018	06/17/18 13:45

Client Sample ID: SSB-NCL-6-1

Received: 6/8/2018

Lab ID: 1806152-02A

Matrix: Aqueous

Collected 6/5/2018 9:45

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Thiobencarb	ND			0.50	0.15	µg/L	1.0	6/11/2018	06/17/18 14:03

Client Sample ID: BS1-NCL-6-1

Received: 6/8/2018

Lab ID: 1806152-03A

Matrix: Aqueous

Collected 6/5/2018 11:10

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
<i>Thiobencarb</i>	<i>0.28</i>		J	0.49	0.15	µg/L	0.98	6/11/2018	06/17/18 14:22

Client Sample ID: CBD5-NCL-6-1

Received: 6/8/2018

Lab ID: 1806152-04A

Matrix: Aqueous

Collected 6/5/2018 12:44

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
<i>Thiobencarb</i>	<i>1.0</i>			0.49	0.15	µg/L	0.99	6/11/2018	06/17/18 14:40

Client Sample ID: CBD1-NCL-6-1

Received: 6/8/2018

Lab ID: 1806152-05A

Matrix: Aqueous

Collected 6/5/2018 14:46

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
<i>Thiobencarb</i>	<i>0.81</i>			0.49	0.15	µg/L	0.98	6/11/2018	06/17/18 14:59

North Coast Laboratories, Ltd.

Date: 6/19/2018

CLIENT: Valent USA Corporation
Work Order: 1806152
Project: 20154800.004A Task 01 RPP-W6D1

QC SUMMARY REPORT

Method Blank

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
Client ID	Run ID	SeqNo									
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MB-36170	36170	THIOW	µg/L	6/17/2018 12:49:27 PM	6/11/2018						
		ORLCMSMS2_180617A		1363863							
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: 6/19/2018

CLIENT: Valent USA Corporation
Work Order: 1806152
Project: 20154800.004A Task 01 RPP-W6D1

QC SUMMARY REPORT
 Laboratory Control Spike

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
LCS-36170	36170	THIOW	µg/L	6/17/2018 1:08:00 PM	6/11/2018						
Client ID:		Run ID:	ORLCMSMS2_180617A	SeqNo:	1363864						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	0.8888	0.50	1.00	0	88.9%	70	120	0			
Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
LCSD-36170	36170	THIOW	µg/L	6/17/2018 1:26:34 PM	6/11/2018						
Client ID:		Run ID:	ORLCMSMS2_180617A	SeqNo:	1363865						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	0.9305	0.50	1.00	0	93.0%	70	120	0.889	4.58%	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



Project No. 20154800.004A Task 01		Project Name RPP- W6D1		No. of Containers	Type of Containers	Analysis										Receiving Lab:
L.P. No. (PO No.)	Samplers: (Signature/Number) <i>Short</i>					Thiobencarb										
Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix													
1	06/05/18	800	SR1-NCL-6-1	W	1	500 mL	X									
2	06/05/18	945	SSB-NCL-6-1	W	1	500 mL	X									
3	06/05/18	110	BS1-NCL-6-1	W	1	500 mL	X									
4	06/05/18	1244	CBD5-NCL-6-1	W	1	500 mL	X									
5	06/05/18	1446	CBD1-NCL-6-1	W	1	500 mL	X									
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
Relinquished By: <i>[Signature]</i>		Date/Time: 6/5/18 1800		Received By: <i>KLFSC</i>		Instructions/Remarks Please send invoice to VALENT LABS										Send Results To: rfiroved@calrice.org jenny.krenz@CH2M.com criddle@kleinfelder.com lshort@kleinfelder.com
Relinquished By: <i>KLFSC</i>		Date/Time: 6/7/18 1500		Received By: <i>[Signature]</i>												
Relinquished By: <i>[Signature]</i>		Date/Time: 6/7/18 1900		Received By: <i>Feder</i>												

*Jessie Ann 6/8/18 NCL
11:35 2.7°*



CALIFORNIA LABORATORY SERVICES

Committed. Responsive. Flexible.

June 13, 2018

CLS Work Order #: 18F0238

COC #:

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 06/06/18 09:20. 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 SWRCB ELAP Accreditation/Registration number 1233



Project No. 20154800.004A Task 01		Project Name RPP- W6D1					Analysis					Receiving Lab: California Laboratory Services 3249 Fitzgerald Rd. Rancho Cordova, CA 95742		
L.P. No. (P.O. No.)		Samplers: (Signature/Number) <i>Short</i>			No. of Containers	Type of Containers	Thiobencarb							Instructions/Remarks Standard turn around time
Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix											
1	06/05/18	14:46	CBD1-CLS-6-1-D	W	1	1-L Amber	X							
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
14														
15														
Relinquished By <i>[Signature]</i>		Date/Time 6/5/18 1900	Received By <i>[Signature]</i>			Instructions/Remarks Please send invoice to KLEINFELDER					Send Results To rfiroved@calrice.org jenny.krenz@CH2M.com criddle@kleinfelder.com lshort@kleinfelder.com			
Relinquished By <i>[Signature]</i>		Date/Time 6/5/18 1000	Received By <i>[Signature]</i>											
Relinquished By		Date/Time 6/6/18 0900	Received By <i>[Signature]</i>											

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CALIFORNIA LABORATORY SERVICES

Committed. Responsive. Flexible.

Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: RPP-W6D1 Project Number: 20154800.004A Task 01 Project Manager: Craig Riddle	CLS Work Order #: 18F0238 COC #:
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Nitrogen/Phosphorus Pesticides by EPA Method 507

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CBD1-CLS-6-1-D (18F0238-01) Water Sampled: 06/05/18 14:46 Received: 06/06/18 09:20									
Thiobencarb	ND	1.0	µg/L	1	1804655	06/07/18	06/12/18	EPA 507	
<i>Surrogate: EPN</i>		98 %	65-135		"	"	"	"	



CALIFORNIA LABORATORY SERVICES

Committed. Responsive. Flexible.

Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: RPP-W6D1 Project Number: 20154800.004A Task 01 Project Manager: Craig Riddle	CLS Work Order #: 18F0238 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 1804655 - EPA 3510B GCNV

Blank (1804655-BLK1)

Prepared: 06/07/18 Analyzed: 06/12/18

Thiobencarb	ND	1.0	µg/L							
Surrogate: EPN	2.51		"	2.50		100	65-135			

LCS (1804655-BS1)

Prepared: 06/07/18 Analyzed: 06/12/18

Thiobencarb	5.78	1.0	µg/L	5.00		116	75-120			
Surrogate: EPN	2.63		"	2.50		105	65-135			

LCS Dup (1804655-BSD1)

Prepared: 06/07/18 Analyzed: 06/12/18

Thiobencarb	5.53	1.0	µg/L	5.00		111	75-120	4	25	
Surrogate: EPN	2.55		"	2.50		102	65-135			



CALIFORNIA LABORATORY SERVICES

Committed. Responsive. Flexible.

Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: RPP-W6D1 Project Number: 20154800.004A Task 01 Project Manager: Craig Riddle	CLS Work Order #: 18F0238 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



**NORTH COAST
LABORATORIES LTD.**

June 19, 2018

Valent USA Corporation
6560 Trinity Court
Dublin, CA 94568

Attn: Charles Green

Order No.: 1806156
Invoice No.: 140555
PO No.: CR-2607/VP-18-200583
ELAP No.1247-Expires July 2018

RE: 20154800.004A Task 01 RPP-W6D2

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	SR1-NCL-6-2
02A	SSB-NCL-6-2
03A	BS1-NCL-6-2
04A	CBD5-NCL-6-2
05A	CBD1-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: 19-Jun-2018

WorkOrder: 1806156

CASE NARRATIVE

J Flags:

Test results that fall below the reporting limit and above the method detection limit are considered approximate values.

Date: 19-Jun-2018

WorkOrder: 1806156

ANALYTICAL REPORT

Client Sample ID: SR1-NCL-6-2

Received: 6/8/2018

Lab ID: 1806156-01A

Matrix: Aqueous

Collected 6/7/2018 7:56

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Thiobencarb	ND			0.49	0.15	µg/L	0.98	6/11/2018	06/17/18 15:55

Client Sample ID: SSB-NCL-6-2

Received: 6/8/2018

Lab ID: 1806156-02A

Matrix: Aqueous

Collected 6/7/2018 9:00

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Thiobencarb	ND			0.50	0.15	µg/L	0.99	6/11/2018	06/17/18 16:13

Client Sample ID: BS1-NCL-6-2

Received: 6/8/2018

Lab ID: 1806156-03A

Matrix: Aqueous

Collected 6/7/2018 10:20

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
<i>Thiobencarb</i>	<i>0.23</i>		J	0.50	0.15	µg/L	1.0	6/11/2018	06/17/18 16:32

Client Sample ID: CBD5-NCL-6-2

Received: 6/8/2018

Lab ID: 1806156-04A

Matrix: Aqueous

Collected 6/7/2018 11:27

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
<i>Thiobencarb</i>	<i>0.79</i>			0.50	0.15	µg/L	0.99	6/11/2018	06/17/18 16:50

Client Sample ID: CBD1-NCL-6-2

Received: 6/8/2018

Lab ID: 1806156-05A

Matrix: Aqueous

Collected 6/7/2018 12:58

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
<i>Thiobencarb</i>	<i>0.93</i>			0.49	0.15	µg/L	0.98	6/11/2018	06/17/18 17:09

North Coast Laboratories, Ltd.

Date: 6/19/2018

CLIENT: Valent USA Corporation
Work Order: 1806156
Project: 20154800.004A Task 01 RPP-W6D2

QC SUMMARY REPORT

Method Blank

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
Client ID	Run ID	SeqNo									
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MB-36170	36170	THIOW	µg/L	6/17/2018 12:49:27 PM	6/11/2018						
		ORLCMSMS2_180617A		1363863							
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: 6/19/2018

CLIENT: Valent USA Corporation
Work Order: 1806156
Project: 20154800.004A Task 01 RPP-W6D2

QC SUMMARY REPORT
 Laboratory Control Spike

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
LCS-36170	36170	THIOW	µg/L	6/17/2018 1:08:00 PM	6/11/2018						
Client ID:		Run ID:	ORLCMSMS2_180617A	SeqNo:	1363864						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	0.8888	0.50	1.00	0	88.9%	70	120	0			
Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
LCSD-36170	36170	THIOW	µg/L	6/17/2018 1:26:34 PM	6/11/2018						
Client ID:		Run ID:	ORLCMSMS2_180617A	SeqNo:	1363865						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	0.9305	0.50	1.00	0	93.0%	70	120	0.889	4.58%	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



**NORTH COAST
LABORATORIES LTD.**

June 25, 2018

Valent USA Corporation
6560 Trinity Court
Dublin, CA 94568

Attn: Charles Green

Order No.: 1806274
Invoice No.: 140632
PO No.: CR-2607/VP-18-200583
ELAP No.1247-Expires July 2018

RE: RPP-W7D1 20154800.004A Task 01

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	SR1-NCL-7-1
02A	SSB-NCL-7-1
03A	BS1-NCL-7-1
04A	CBD5-NCL-7-1
05A	CBD1-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: 25-Jun-2018
WorkOrder: 1806274

CASE NARRATIVE

J Flags:

Test results that fall below the reporting limit and above the method detection limit are considered approximate values.

Date: 25-Jun-2018

WorkOrder: 1806274

ANALYTICAL REPORT

Client Sample ID: SR1-NCL-7-1

Received: 6/15/2018

Lab ID: 1806274-01A

Matrix: Aqueous

Collected 6/12/2018 8:26

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Thiobencarb	ND			0.49	0.15	µg/L	0.99	6/19/2018	06/22/18 13:05

Client Sample ID: SSB-NCL-7-1

Received: 6/15/2018

Lab ID: 1806274-02A

Matrix: Aqueous

Collected 6/12/2018 9:32

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Thiobencarb	ND			0.49	0.15	µg/L	0.98	6/19/2018	06/22/18 13:23

Client Sample ID: BS1-NCL-7-1

Received: 6/15/2018

Lab ID: 1806274-03A

Matrix: Aqueous

Collected 6/12/2018 10:43

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Thiobencarb	ND			0.49	0.15	µg/L	0.98	6/19/2018	06/22/18 13:42

Client Sample ID: CBD5-NCL-7-1

Received: 6/15/2018

Lab ID: 1806274-04A

Matrix: Aqueous

Collected 6/12/2018 11:37

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
<i>Thiobencarb</i>	<i>0.24</i>		J	0.50	0.15	µg/L	1.0	6/19/2018	06/22/18 14:00

Client Sample ID: CBD1-NCL-7-1

Received: 6/15/2018

Lab ID: 1806274-05A

Matrix: Aqueous

Collected 6/12/2018 13:01

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
<i>Thiobencarb</i>	<i>0.38</i>		J	0.50	0.15	µg/L	1.0	6/19/2018	06/22/18 14:19

North Coast Laboratories, Ltd.

Date: 6/25/2018

CLIENT: Valent USA Corporation
Work Order: 1806274
Project: RPP-W7D1 20154800.004A Task 01

QC SUMMARY REPORT

Method Blank

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
MB-36203	36203	THIOW	µg/L	6/22/2018 12:09:22 PM	6/19/2018						
Client ID:		Run ID:	ORLCMSMS2_180622A	SeqNo:	1364929						
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: 6/25/2018

CLIENT: Valent USA Corporation
Work Order: 1806274
Project: RPP-W7D1 20154800.004A Task 01

QC SUMMARY REPORT
 Laboratory Control Spike

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
LCS-36203	36203	THIOW	µg/L	6/22/2018 12:27:56 PM	6/19/2018						
Client ID:		Run ID:	ORLCMSMS2_180622A	SeqNo:	1364930						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	0.7962	0.50	1.00	0	79.6%	70	120	0			

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
LCSD-36203	36203	THIOW	µg/L	6/22/2018 12:46:29 PM	6/19/2018						
Client ID:		Run ID:	ORLCMSMS2_180622A	SeqNo:	1364931						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	0.8267	0.50	1.00	0	82.7%	70	120	0.796	3.76%	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



COC# 882153

1806274

Project No. 20154800.004A Task 01		Project Name RPP- W7D1			No. of Containers	Type of Containers	Analysis										Receiving Lab: North Coast Laboratories 5680 West End Rd., Arcata CA 95521 Attn: Roxanne Moore (707) 822-4649	
L.P. No. (PO No.)	Samplers: (Signature/Number) M. DOOLITTLE J. COWLEY						Thiobencarb											
Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix															
1	06/12/18	0826	SR1-NCL-7-1	W	1	500 mL	X											
2	06/12/18	0932	SSB-NCL-7-1	W	1	500 mL	X											
3	06/12/18	1043	BS1-NCL-7-1	W	1	500 mL	X											
4	06/12/18	1137	CBD5-NCL-7-1	W	1	500 mL	X											
5	06/12/18	1301	CBD1-NCL-7-1	W	1	500 mL	X											
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
Relinquished By: <i>[Signature]</i>		Date/Time 6/12/18 1452		Received By: KLF sample control		Instructions/Remarks Please send invoice to VALENT LABS										Send Results To: rfiroved@calrice.org jenny.krenz@CH2M.com criddle@kleinfelder.com lshort@kleinfelder.com		
Relinquished By: KLF		Date/Time		Received By: <i>[Signature]</i> 6/15/18		3308 0.6°C												
Relinquished By:		Date/Time		Received By:														



**NORTH COAST
LABORATORIES LTD.**

June 25, 2018

Kleinfelder
2882 Prospect Park Dr.
Suite 200
Rancho Cordova, CA 95670
Attn: Craig Riddle

Order No.: 1806293
Invoice No.: 140633
PO No.:
ELAP No.1247-Expires July 2018

RE: RPP-W7D1 20154800.004A Task 01

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	CRC1-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: 25-Jun-2018

WorkOrder: 1806293

CASE NARRATIVE

J Flags:

Test results that fall below the reporting limit and above the method detection limit are considered approximate values.

Date: 25-Jun-2018

WorkOrder: 1806293

ANALYTICAL REPORT

Client Sample ID: CRC1-NCL-7-1

Received: 6/15/2018

Lab ID: 1806293-01A

Matrix: Aqueous

Collected 6/12/2018 17:37

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
<i>Thiobencarb</i>	1.2			0.50	0.15	µg/L	1.0	6/19/2018	06/22/18 16:47

North Coast Laboratories, Ltd.

Date: 6/25/2018

CLIENT: Kleinfelder
Work Order: 1806293
Project: RPP-W7D1 20154800.004A Task 01

QC SUMMARY REPORT

Method Blank

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
MB-36203	36203	THIOW	µg/L	6/22/2018 12:09:22 PM	6/19/2018						
Client ID:		Run ID:	ORLCMSMS2_180622A	SeqNo:	1364929						
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: 6/25/2018

CLIENT: Kleinfelder
Work Order: 1806293
Project: RPP-W7D1 20154800.004A Task 01

QC SUMMARY REPORT
 Laboratory Control Spike

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
LCS-36203	36203	THIOW	µg/L	6/22/2018 12:27:56 PM	6/19/2018						
Client ID:		Run ID:	ORLCMSMS2_180622A	SeqNo:	1364930						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	0.7962	0.50	1.00	0	79.6%	70	120	0			

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
LCSD-36203	36203	THIOW	µg/L	6/22/2018 12:46:29 PM	6/19/2018						
Client ID:		Run ID:	ORLCMSMS2_180622A	SeqNo:	1364931						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	0.8267	0.50	1.00	0	82.7%	70	120	0.796	3.76%	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



COC# 423569

Project No. 20154800.004A Task 01		Project Name RPP- W7D1			No. of Containers	Type of Containers	Analysis										Receiving Lab: North Coast Laboratories 5680 West End Rd., Arcata CA 95521 Attn: Roxanne Moore (707) 822-4649	
L.P. No. (PO No.)		Samplers: (Signature/Number) MIDDOOLITTLE J. COWLEY					Thiobencarb											Instructions/Remarks Standard turn around time
Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix															
1	06/12/18	17:37	CRC1-NCL-7-1	W	1	500 mL	X											
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
Relinquished By: 		Date/Time 6/12/18 16:32	Received By: KLF Sample Control			Instructions/Remarks Please send invoice to KLEINFELDER										Send Results To: rfiroved@calrice.org jenny.krenz@CH2M.com criddle@kleinfelder.com lshort@kleinfelder.com		
Relinquished By: KLF sample cont.		Date/Time 6/14/18 17:37	Received By: 															
Relinquished By: 		Date/Time 6/14/18 18:00	Received By: FedEx															

By 6/15/18 1305
0.6°C



**NORTH COAST
LABORATORIES LTD.**

June 25, 2018

Valent USA Corporation
6560 Trinity Court
Dublin, CA 94568

Attn: Charles Green

Order No.: 1806277
Invoice No.: 140631
PO No.: CR-2607/VP-18-200583
ELAP No.1247-Expires July 2018

RE: 20154800.004A 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

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: 25-Jun-2018

WorkOrder: 1806277

CASE NARRATIVE

J Flags:

Test results that fall below the reporting limit and above the method detection limit are considered approximate values.

Date: 25-Jun-2018

WorkOrder: 1806277

ANALYTICAL REPORT

Client Sample ID: SR1-NCL-7-2

Received: 6/15/2018

Lab ID: 1806277-01A

Matrix: Aqueous

Collected 6/14/2018 9:16

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Thiobencarb	ND			0.50	0.15	µg/L	1.0	6/19/2018	06/22/18 15:14

Client Sample ID: SSB-NCL-7-2

Received: 6/15/2018

Lab ID: 1806277-02A

Matrix: Aqueous

Collected 6/14/2018 10:22

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
<i>Thiobencarb</i>	<i>0.41</i>	J		0.50	0.15	µg/L	1.0	6/19/2018	06/22/18 15:33

Client Sample ID: BS1-NCL-7-2

Received: 6/15/2018

Lab ID: 1806277-03A

Matrix: Aqueous

Collected 6/14/2018 11:27

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Thiobencarb	ND			0.50	0.15	µg/L	0.99	6/19/2018	06/22/18 15:51

Client Sample ID: CBD5-NCL-7-2

Received: 6/15/2018

Lab ID: 1806277-04A

Matrix: Aqueous

Collected 6/14/2018 13:20

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
<i>Thiobencarb</i>	<i>0.25</i>	J		0.49	0.15	µg/L	0.99	6/19/2018	06/22/18 16:10

Client Sample ID: CBD1-NCL-7-2

Received: 6/15/2018

Lab ID: 1806277-05A

Matrix: Aqueous

Collected 6/14/2018 15:19

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
<i>Thiobencarb</i>	<i>0.27</i>	J		0.50	0.15	µg/L	0.99	6/19/2018	06/22/18 16:29

North Coast Laboratories, Ltd.

Date: 6/25/2018

CLIENT: Valent USA Corporation**Work Order:** 1806277**Project:** 20154800.004A Task 01**QC SUMMARY REPORT**

Method Blank

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
MB-36203	36203	THIOW	µg/L	6/22/2018 12:09:22 PM	6/19/2018						
Client ID:		Run ID:	ORLCMSMS2_180622A	SeqNo:	1364929						
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: 6/25/2018

CLIENT: Valent USA Corporation
Work Order: 1806277
Project: 20154800.004A Task 01

QC SUMMARY REPORT
 Laboratory Control Spike

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
LCS-36203	36203	THIOW	µg/L	6/22/2018 12:27:56 PM	6/19/2018						
Client ID:		Run ID:	ORLCMSMS2_180622A	SeqNo:	1364930						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	0.7962	0.50	1.00	0	79.6%	70	120	0			
Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
LCSD-36203	36203	THIOW	µg/L	6/22/2018 12:46:29 PM	6/19/2018						
Client ID:		Run ID:	ORLCMSMS2_180622A	SeqNo:	1364931						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	0.8267	0.50	1.00	0	82.7%	70	120	0.796	3.76%	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



COC# 835427

1806277

Project No. 20154800.004A Task 01		Project Name RPP- W7D2		No. of Containers	Type of Containers	Analysis										Receiving Lab: North Coast Laboratories 5680 West End Rd., Arcata CA 95521 Attn: Roxanne Moore (707) 822-4649		
L.P. No. (PO No.)	Samplers: (Signature/Number) M. DOOLITTLE J. COWLEY					Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	Thiobencarb								
1	06/14/18	09:16	SR1-NCL-7-2	W	1													
2	06/14/18	10:22	SSB-NCL-7-2	W	1	500 mL	X											
3	06/14/18	11:27	BS1-NCL-7-2	W	1	500 mL	X											
4	06/14/18	13:20	CBD5-NCL-7-2	W	1	500 mL	X											
5	06/14/18	15:19	CBD1-NCL-7-2	W	1	500 mL	X											
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
Relinquished By:		Date/Time 6/14/18 18:00		Received By: Fex Ex		Instructions/Remarks Please send invoice to VALENT LABS 1310 0.89										Send Results To: rfiroved@calrice.org jenny.krenz@CH2M.com criddle@kleinfelder.com lshort@kleinfelder.com		
Relinquished By: Fex Ex		Date/Time		Received By: 6/15/18														
Relinquished By:		Date/Time		Received By:														



**NORTH COAST
LABORATORIES LTD.**

July 09, 2018

Valent USA Corporation
6560 Trinity Court
Dublin, CA 94568

Attn: Charles Green

Order No.: 1806368
Invoice No.: 140876
PO No.: CR-2607/VP-18-200583
ELAP No.1247-Expires July 2018

RE: RPP-W8D1 20154800.004A Task 01

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	SR1-NCL-8-1
02A	SSB-NCL-8-1
03A	BS1-NCL-8-1
04A	CBD5-NCL-8-1
05A	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: 09-Jul-2018

WorkOrder: 1806368

CASE NARRATIVE

J Flags:

Test results that fall below the reporting limit and above the method detection limit are considered approximate values.

Date: 09-Jul-2018
WorkOrder: 1806368

ANALYTICAL REPORT

Client Sample ID: SR1-NCL-8-1

Received: 6/21/2018

Lab ID: 1806368-01A Matrix: Aqueous

Collected 6/19/2018 16:20

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Thiobencarb	ND			0.49	0.15	µg/L	0.97	6/25/2018	07/08/18 13:28

Client Sample ID: SSB-NCL-8-1

Received: 6/21/2018

Lab ID: 1806368-02A Matrix: Aqueous

Collected 6/19/2018 9:00

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Thiobencarb	ND			0.50	0.15	µg/L	0.99	6/25/2018	07/08/18 13:47

Client Sample ID: BS1-NCL-8-1

Received: 6/21/2018

Lab ID: 1806368-03A Matrix: Aqueous

Collected 6/19/2018 11:00

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Thiobencarb	ND			0.50	0.15	µg/L	0.99	6/25/2018	07/08/18 14:05

Client Sample ID: CBD5-NCL-8-1

Received: 6/21/2018

Lab ID: 1806368-04A Matrix: Aqueous

Collected 6/19/2018 12:23

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
<i>Thiobencarb</i>	<i>0.26</i>		J	0.50	0.15	µg/L	1.0	6/25/2018	07/08/18 14:24

Client Sample ID: CBD1-NCL-8-1

Received: 6/21/2018

Lab ID: 1806368-05A Matrix: Aqueous

Collected 6/19/2018 14:29

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
<i>Thiobencarb</i>	<i>0.16</i>		J	0.50	0.15	µg/L	1.0	6/25/2018	07/08/18 14:42

North Coast Laboratories, Ltd.

Date: 7/9/2018

CLIENT: Valent USA Corporation
Work Order: 1806368
Project: RPP-W8D1 20154800.004A Task 01

QC SUMMARY REPORT

Method Blank

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
MB-36221	36221	THIOW	µg/L	7/8/2018 12:33:05 PM	6/25/2018						
Client ID:		Run ID:	ORLCMSMS2_180708A	SeqNo:	1366604						
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: 7/9/2018

CLIENT: Valent USA Corporation
Work Order: 1806368
Project: RPP-W8D1 20154800.004A Task 01

QC SUMMARY REPORT
 Laboratory Control Spike

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
LCS-36221	36221	THIOW	µg/L	7/8/2018 12:51:38 PM	6/25/2018						
Client ID:		Run ID:	ORLCMSMS2_180708A	SeqNo:	1366605						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	1.032	0.50	1.00	0	103%	70	120	0			

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
LCSD-36221	36221	THIOW	µg/L	7/8/2018 1:10:11 PM	6/25/2018						
Client ID:		Run ID:	ORLCMSMS2_180708A	SeqNo:	1366606						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	0.9623	0.50	1.00	0	96.2%	70	120	1.03	7.02%	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



Project No. 20154800.004A Task 01		Project Name RPP- W8D1			No. of Containers	Type of Containers	Analysis										Receiving Lab:
L.P. No. (PO No.)	Samplers: (Signature/Number) <i>Short</i>						Thiobencarb										
Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix														
1	06/19/18	620	SR1-NCL-8-1	W	1	500 mL	X										
2	06/19/18	0900	SSB-NCL-8-1	W	1	500 mL	X										
3	06/19/18	1100	BS1-NCL-8-1	W	1	500 mL	X										
4	06/19/18	1223	CBD5-NCL-8-1	W	1	500 mL	X										
5	06/19/18	1429	CBD1-NCL-8-1	W	1	500 mL	X										
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
Relinquished By: <i>[Signature]</i>		Date/Time 6/19/18 1900		Received By: <i>Feber</i>		Instructions/Remarks Please send invoice to VALENT LABS <i>1.8°C</i>										Send Results To: rfiroved@calrice.org jenny.krenz@CH2M.com criddle@kleinfelder.com lshort@kleinfelder.com	
Relinquished By:		Date/Time		Received By: <i>[Signature]</i> 6/20/18 mcs													
Relinquished By:		Date/Time		Received By:													



CALIFORNIA LABORATORY SERVICES

Committed. Responsive. Flexible.

June 27, 2018

CLS Work Order #: 18F1006

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 06/20/18 08:20. 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 SWRCB ELAP Accreditation/Registration number 1233



Project No. 20154800.004A Task 01		Project Name RPP- W8D1						Analysis		Receiving Lab California Laboratory Services 3249 Fitzgerald Rd. Rancho Cordova, CA 95742	
L.P. No. (PO No.)		Samplers: (Signature/Number) Short		No of Containers		Type of Containers				Instructions/Remarks: Standard turn around time.	
Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix					Thiobencarb			
1	06/19/18	1223	CBD5-CLS-8-1-D	W	1	1-L Amber	X				
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
Relinquished By <i>[Signature]</i>		Date/Time 6/17/18 1800		Received By <i>[Signature]</i>				Instructions/Remarks Please send invoice to KLEINFELDER		Send Results To rfiroved@calrice.org jenny.krenz@CH2M.com criddle@kleinfelder.com lshort@kleinfelder.com	
Relinquished By KLFSC		Date/Time 6-20-18 08:00		Received By <i>[Signature]</i>							
Relinquished By		Date/Time 6/20/18 0820		Received By <i>[Signature]</i> (05)							



Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: RPP-W8D1 Project Number: 20154800.004A Task 01 Project Manager: Craig Riddle	CLS Work Order #: 18F1006 COC #:
--	---	--

Nitrogen/Phosphorus Pesticides by EPA Method 507

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CBD5-CLS-8-1-D (18F1006-01) Water Sampled: 06/19/18 12:23 Received: 06/20/18 08:20									
Thiobencarb	1.4	0.50	µg/L	1	1805093	06/20/18	06/27/18	EPA 507	

Surrogate: EPN

120 % 65-135 " " " "



Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: RPP-W8D1 Project Number: 20154800.004A Task 01 Project Manager: Craig Riddle	CLS Work Order #: 18F1006 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 1805093 - EPA 3510B GCNV

Blank (1805093-BLK1)

Prepared: 06/20/18 Analyzed: 06/27/18

Thiobencarb	ND	1.0	µg/L							
Surrogate: EPN	2.10		"	2.50		84	65-135			

LCS (1805093-BS1)

Prepared: 06/20/18 Analyzed: 06/27/18

Thiobencarb	3.84	1.0	µg/L	5.00		77	75-120			
Surrogate: EPN	2.06		"	2.50		82	65-135			

LCS Dup (1805093-BSD1)

Prepared: 06/20/18 Analyzed: 06/27/18

Thiobencarb	5.25	1.0	µg/L	5.00		105	75-120	31	25	QR-2
Surrogate: EPN	2.48		"	2.50		99	65-135			



Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: RPP-W8D1 Project Number: 20154800.004A Task 01 Project Manager: Craig Riddle	CLS Work Order #: 18F1006 COC #:
--	---	--

Notes and Definitions

- QR-2 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- 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



**NORTH COAST
LABORATORIES LTD.**

July 09, 2018

Valent USA Corporation
6560 Trinity Court
Dublin, CA 94568

Attn: Charles Green

Order No.: 1806466
Invoice No.: 140875
PO No.: CR-2607/VP-18-200583
ELAP No.1247-Expires July 2018

RE: 20154800.004A Task 01 RPP-W9D1

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	SR1-NCL-9-1
02A	SSB-NCL-9-1
03A	BS1-NCL-9-1
04A	CBD5-NCL-9-1
05A	CBD1-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: 09-Jul-2018

WorkOrder: 1806466

CASE NARRATIVE

J Flags:

Test results that fall below the reporting limit and above the method detection limit are considered approximate values.

Date: 09-Jul-2018

WorkOrder: 1806466

ANALYTICAL REPORT

Client Sample ID: SR1-NCL-9-1

Received: 6/28/2018

Lab ID: 1806466-01A

Matrix: Aqueous

Collected 6/26/2018 7:53

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Thiobencarb	ND			0.51	0.15	µg/L	1.0	7/3/2018	07/08/18 21:12

Client Sample ID: SSB-NCL-9-1

Received: 6/28/2018

Lab ID: 1806466-02A

Matrix: Aqueous

Collected 6/26/2018 9:36

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Thiobencarb	ND			0.49	0.15	µg/L	0.99	7/3/2018	07/08/18 21:31

Client Sample ID: BS1-NCL-9-1

Received: 6/28/2018

Lab ID: 1806466-03A

Matrix: Aqueous

Collected 6/26/2018 10:37

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Thiobencarb	ND			0.50	0.15	µg/L	0.99	7/3/2018	07/08/18 21:49

Client Sample ID: CBD5-NCL-9-1

Received: 6/28/2018

Lab ID: 1806466-04A

Matrix: Aqueous

Collected 6/26/2018 11:48

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
<i>Thiobencarb</i>	<i>0.23</i>		J	0.50	0.15	µg/L	0.99	7/3/2018	07/08/18 22:08

Client Sample ID: CBD1-NCL-9-1

Received: 6/28/2018

Lab ID: 1806466-05A

Matrix: Aqueous

Collected 6/26/2018 13:19

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
<i>Thiobencarb</i>	<i>0.18</i>		J	0.49	0.15	µg/L	0.99	7/3/2018	07/08/18 22:26

North Coast Laboratories, Ltd.

Date: 7/9/2018

CLIENT: Valent USA Corporation
Work Order: 1806466
Project: 20154800.004A Task 01 RPP-W9D1

QC SUMMARY REPORT

Method Blank

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
MB-36241	36241	THIOW	µg/L	7/8/2018 8:17:09 PM	7/3/2018						
Client ID:		Run ID:	ORLCMSMS2_180708B	SeqNo:	1366615						
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: 7/9/2018

CLIENT: Valent USA Corporation
Work Order: 1806466
Project: 20154800.004A Task 01 RPP-W9D1

QC SUMMARY REPORT
 Laboratory Control Spike

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
LCS-36241	36241	THIOW	µg/L	7/8/2018 8:35:41 PM	7/3/2018						
Client ID:		Run ID:	ORLCMSMS2_180708B	SeqNo:	1366616						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	0.8402	0.50	1.00	0	84.0%	70	120	0			

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
LCSD-36241	36241	THIOW	µg/L	7/8/2018 8:54:12 PM	7/3/2018						
Client ID:		Run ID:	ORLCMSMS2_180708B	SeqNo:	1366617						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	0.8438	0.50	1.00	0	84.4%	70	120	0.840	0.430%	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



COC# 601102

Project No. 20154800.004A Task 01		Project Name RPP- W9D1			No. of Containers	Type of Containers	Analysis										Receiving Lab: North Coast Laboratories 5680 West End Rd., Arcata CA 95521 Attn: Roxanne Moore (707) 822-4649	
L.P. No. (PO No.)	Samplers: (Signature/Number) <i>Short</i>			Date MM/DD/YY			Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	Thiobencarb								
1	06/26/18	7157	SR1-NCL-9-1		W	1												
2	06/26/18	9136	SSB-NCL-9-1	W	1	500 mL	X											
3	06/26/18	1037	BS1-NCL-9-1	W	1	500 mL	X											
4	06/26/18	1148	CBD5-NCL-9-1	W	1	500 mL	X											
5	06/26/18	1319	CBD1-NCL-9-1	W	1	500 mL	X											
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
Relinquished By: <i>[Signature]</i>		Date/Time 6/26/18 17:00		Received By: FEDEX		Instructions/Remarks Please send invoice to VALENT LABS										Send Results To: rfiroved@calrice.org jenny.krenz@CH2M.com criddle@kleinfelder.com lshort@kleinfelder.com		
Relinquished By:		Date/Time		Received By: <i>Jessie Gilman</i>														
Relinquished By:		Date/Time		Received By: 6/28/18 12:01 2.7°C														



CALIFORNIA LABORATORY SERVICES

Committed. Responsive. Flexible.

July 05, 2018

CLS Work Order #: 18F1402

COC #:

Lauren Short
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 06/27/18 08:35. 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 SWRCB ELAP Accreditation/Registration number 1233



13F1402

Project No. 20154800.004A Task 01		Project Name RPP- W9D1		Analysis										Receiving Lab California Laboratory Services 3249 Fitzgerald Rd. Rancho Cordova, CA 95742				
L P No. (PO No.)		Samplers (Signature/Number)		No. of Containers	Type of Containers	Thiobencarb											Instructions/Remarks Standard turn around time	
Date MM/DD/YY	Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix															
1	06/26/18	333	CBD1-CLS-9-1-RB	W	1	1-L Amber	X											
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
Relinquished By:		Date/Time: 4/24/13 1500		Received By: KLF Sample Control		Instructions/Remarks Please send invoice to KLEINFELDER										Send Results To: rfiroved@calrice.org jenny.krenz@CH2M.com criddle@kleinfelder.com lshort@kleinfelder.com		
Relinquished By: KLF Sample Control		Date/Time: 6/27/13 1533		Received By:														
Relinquished By:		Date/Time: 6/27/13 0815		Received By:														

8.0



CALIFORNIA LABORATORY SERVICES

Committed. Responsive. Flexible.

Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: RPP-W9D1 Project Number: 20154800.004A Task 01 Project Manager: Lauren Short	CLS Work Order #: 18F1402 COC #:
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Nitrogen/Phosphorus Pesticides by EPA Method 507

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CBD1-CLS-9-1-RB (18F1402-01) Water Sampled: 06/26/18 13:33 Received: 06/27/18 08:35									
Thiobencarb	ND	1.0	µg/L	1	1805376	06/28/18	07/02/18	EPA 507	

Surrogate: EPN

98 % 65-135 " " " "



CALIFORNIA LABORATORY SERVICES

Committed. Responsive. Flexible.

Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: RPP-W9D1 Project Number: 20154800.004A Task 01 Project Manager: Lauren Short	CLS Work Order #: 18F1402 COC #:
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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 1805376 - EPA 3510B GCNV										
Blank (1805376-BLK1)										
Prepared: 06/28/18 Analyzed: 07/02/18										
Thiobencarb	ND	1.0	µg/L							
Surrogate: EPN	2.31		"	2.50		92	65-135			
LCS (1805376-BS1)										
Prepared: 06/28/18 Analyzed: 07/02/18										
Thiobencarb	5.84	1.0	µg/L	5.00		117	75-120			
Surrogate: EPN	2.54		"	2.50		102	65-135			
LCS Dup (1805376-BSD1)										
Prepared: 06/28/18 Analyzed: 07/02/18										
Thiobencarb	4.44	1.0	µg/L	5.00		89	75-120	27	25	QR-2
Surrogate: EPN	2.18		"	2.50		87	65-135			



CALIFORNIA LABORATORY SERVICES

Committed. Responsive. Flexible.

Kleinfelder (Sacramento) 2882 Prospect Park Dr. suite 200 Rancho Cordova, CA 95742	Project: RPP-W9D1 Project Number: 20154800.004A Task 01 Project Manager: Lauren Short	CLS Work Order #: 18F1402 COC #:
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Notes and Definitions

- QR-2 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- 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



**NORTH COAST
LABORATORIES LTD.**

July 09, 2018

Valent USA Corporation
6560 Trinity Court
Dublin, CA 94568

Attn: Charles Green

Order No.: 1807027
Invoice No.: 140877
PO No.: CR-2607/VP-18-200583
ELAP No.1247-Expires July 2018

RE: 20154800.004A Task 01 RPP-W10D1

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: 09-Jul-2018

WorkOrder: 1807027

CASE NARRATIVE

J Flags:

Test results that fall below the reporting limit and above the method detection limit are considered approximate values.

Thiobencarb:

The relative percent difference (RPD) between the laboratory control samples was above the acceptance limit for thiobencarb. This indicates that the sample results could be variable than historic laboratory data suggests.

Date: 09-Jul-2018

WorkOrder: 1807027

ANALYTICAL REPORT

Client Sample ID: SR1-NCL-10-1

Received: 7/3/2018

Lab ID: 1807027-01A

Matrix: Aqueous

Collected 7/2/2018 7:29

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Thiobencarb	ND			0.50	0.15	µg/L	1.0	7/5/2018	07/09/18 4:56

Client Sample ID: SSB-NCL-10-1

Received: 7/3/2018

Lab ID: 1807027-02A

Matrix: Aqueous

Collected 7/2/2018 8:37

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Thiobencarb	ND			0.49	0.15	µg/L	0.98	7/5/2018	07/09/18 5:15

Client Sample ID: BS1-NCL-10-1

Received: 7/3/2018

Lab ID: 1807027-03A

Matrix: Aqueous

Collected 7/2/2018 10:12

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Thiobencarb	ND			0.50	0.15	µg/L	1.0	7/5/2018	07/09/18 5:33

Client Sample ID: CBD5-NCL-10-1

Received: 7/3/2018

Lab ID: 1807027-04A

Matrix: Aqueous

Collected 7/2/2018 11:40

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
<i>Thiobencarb</i>	<i>0.21</i>		J	0.50	0.15	µg/L	1.0	7/5/2018	07/09/18 5:52

Client Sample ID: CBD1-NCL-10-1

Received: 7/3/2018

Lab ID: 1807027-05A

Matrix: Aqueous

Collected 7/2/2018 13:33

Test Name: Thiobencarb

Analyst: WHB

Reference: RM-16W-5a

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>Flag</u>	<u>Limit</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Thiobencarb	ND			0.50	0.15	µg/L	0.99	7/5/2018	07/09/18 6:10

North Coast Laboratories, Ltd.

Date: 7/9/2018

CLIENT: Valent USA Corporation
Work Order: 1807027
Project: 20154800.004A Task 01 RPP-W10D1

QC SUMMARY REPORT

Method Blank

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
MB-36254	36254	THIOW	µg/L	7/9/2018 4:01:03 AM	7/5/2018						
Client ID:		Run ID:	ORLCMSMS2_180708C	SeqNo:	1366626						
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: 7/9/2018

CLIENT: Valent USA Corporation
Work Order: 1807027
Project: 20154800.004A Task 01 RPP-W10D1

QC SUMMARY REPORT
 Laboratory Control Spike

Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
LCS-36254	36254	THIOW	µg/L	7/9/2018 4:19:36 AM	7/5/2018						
Client ID:		Run ID:	ORLCMSMS2_180708C	SeqNo:	1366627						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thiobencarb	1.013	0.50	1.00	0	101%	70	120	0			
Sample ID	Batch ID	Test Code	Units	Analysis Date	Prep Date						
LCSD-36254	36254	THIOW	µg/L	7/9/2018 4:38:08 AM	7/5/2018						
Client ID:		Run ID:	ORLCMSMS2_180708C	SeqNo:	1366628						
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	1.01	20.7%	20	R

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



COC# 619650

1807027

Project No. 20154800.004A Task 01		Project Name RPP- W10D1			No. of Containers	Type of Containers	Analysis										Receiving Lab: North Coast Laboratories 5680 West End Rd., Arcata CA 95521 Attn: Roxanne Moore (707) 822-4649	
L.P. No. (PO No.)	Samplers: (Signature/Number) <i>Short</i>			Date MM/DD/YY			Sample I.D. Time HH-MM-SS	Sample I.D.	Matrix	Thiobencarb								
1	07/02/18	7:29	SR1-NCL-10-1		W	1												
2	07/02/18	8:37	SSB-NCL-10-1	W	1	500 mL	X											
3	07/02/18	10:12	BS1-NCL-10-1	W	1	500 mL	X											
4	07/02/18	11:40	CBD5-NCL-10-1	W	1	500 mL	X											
5	07/02/18	13:33	CBD1-NCL-10-1	W	1	500 mL	X											
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
Relinquished By: <i>[Signature]</i>		Date/Time 7/2/18 1:00		Received By: <i>Fedet</i>		Instructions/Remarks Please send invoice to VALENT LABS 4.0°C										Send Results To: rfiroved@calrice.org jenny.krenz@CH2M.com criddle@kleinfelder.com lshort@kleinfelder.com		
Relinquished By:		Date/Time 7/3/18 11:30		Received By: <i>Jessica Williams</i>														
Relinquished By:		Date/Time		Received By:														