

February 7, 2019

Paradise Irrigation District
 6332 Clark Road
 Paradise, CA 95969

Lab ID : CH 1970954
 Customer : 7-5855

Laboratory Report

Introduction: This report package contains total of 17 pages divided into 3 sections:

Case Narrative	(2 pages)	: An overview of the work performed at FGL.
Sample Results	(14 pages)	: Results for each sample submitted.
Quality Control	(1 page)	: Supporting Quality Control (QC) results.

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab ID #	Matrix
Travel Blank	02/01/2019	02/01/2019	CH 1970954-000	LBW
7156 Clark	02/01/2019	02/01/2019	CH 1970954-001	DW
7057 Clark	02/01/2019	02/01/2019	CH 1970954-002	DW
6961 Clark	02/01/2019	02/01/2019	CH 1970954-003	DW
1636 Franke	02/01/2019	02/01/2019	CH 1970954-004	DW
6980 Clark	02/01/2019	02/01/2019	CH 1970954-005	DW
1629 Eaglet	02/01/2019	02/01/2019	CH 1970954-006	DW
7020 Clark	02/01/2019	02/01/2019	CH 1970954-007	DW
1508 Forest Serv	02/01/2019	02/01/2019	CH 1970954-008	DW
1681 Merrill	02/01/2019	02/01/2019	CH 1970954-009	DW
1758 Merrill	02/01/2019	02/01/2019	CH 1970954-010	DW
1823 Merrill	02/01/2019	02/01/2019	CH 1970954-011	DW
1848 Dean Rd.	02/01/2019	02/01/2019	CH 1970954-012	DW
1867 Dean Rd.	02/01/2019	02/01/2019	CH 1970954-013	DW

Sampling and Receipt Information: All samples were received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. All samples arrived on ice. All samples were prepared and analyzed within the method specified hold time. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the attached Chain of Custody and Condition Upon Receipt Form.

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Paradise Irrigation District

Lab ID : CH 1970954
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Quality Control: All samples were prepared and analyzed according to the following tables:

Organic QC

524.2	02/05/2019:201763 All analysis quality controls are within established criteria
	02/06/2019:201810 All analysis quality controls are within established criteria
	02/05/2019:201341 All preparation quality controls are within established criteria

Certification:: I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following electronic signature.

KD:DMB

Approved By **Kelly A. Dunnahoo, B.S.**



Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2019-02-07

February 7, 2019

Lab ID : CH 1970954-000
Customer ID : 7-5855

Paradise Irrigation District

6332 Clark Road
Paradise, CA 95969

Sampled On : February 1, 2019-00:00
Sampled By : Laura Capra
Received On : February 1, 2019-11:58
Matrix : Lab. Blank Water

Description : Travel Blank
Project : Camp Fire

Sample Result - Organic

Constituent	Result	PQL	Units	Note	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
EPA 524.2								
4-Bromofluorobenzene [‡]	85.7	70-130	%		524.2	02/05/19:201341	524.2	02/05/19:201763
1,2-Dichlorobenzene-d4 [‡]	87.6	70-130	%		524.2	02/05/19:201341	524.2	02/05/19:201763
Benzene	ND	0.5	ug/L		524.2	02/05/19:201341	524.2	02/05/19:201763

ND=Non-Detected. PQL=Practical Quantitation Limit. ‡Surrogate. * PQL adjusted for dilution.

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Lab ID : CH 1970954-001
Customer ID : 7-5855

Paradise Irrigation District

6332 Clark Road
Paradise, CA 95969

Sampled On : February 1, 2019-07:40
Sampled By : Laura Capra
Received On : February 1, 2019-11:58
Matrix : Drinking Water

Description : 7156 Clark
Project : Camp Fire

Sample Result - Organic

Constituent	Result	PQL	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
EPA 524.2								
4-Bromofluorobenzene [‡]	88.0	70-130	%	1	524.2	02/05/19:201341	524.2	02/05/19:201763
1,2-Dichlorobenzene-d4 [‡]	93.0	70-130	%		524.2	02/05/19:201341	524.2	02/05/19:201763
Benzene	ND	0.5	ug/L		524.2	02/05/19:201341	524.2	02/05/19:201763

ND=Non-Detected. PQL=Practical Quantitation Limit. ‡Surrogate. * PQL adjusted for dilution.

MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

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Lab ID : CH 1970954-002

Customer ID : 7-5855

Paradise Irrigation District

6332 Clark Road

Paradise, CA 95969

Sampled On : February 1, 2019-08:05

Sampled By : Laura Capra

Received On : February 1, 2019-11:58

Matrix : Drinking Water

Description : 7057 Clark

Project : Camp Fire

Sample Result - Organic

Constituent	Result	PQL	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
EPA 524.2								
4-Bromofluorobenzene [‡]	84.5	70-130	%	1	524.2	02/05/19:201341	524.2	02/05/19:201763
1,2-Dichlorobenzene-d4 [‡]	86.2	70-130	%		524.2	02/05/19:201341	524.2	02/05/19:201763
Benzene	86	5*	ug/L		524.2	02/05/19:201341	524.2	02/06/19:201810

ND=Non-Detected. PQL=Practical Quantitation Limit. ‡Surrogate. * PQL adjusted for dilution.

MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

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Lab ID : CH 1970954-003
Customer ID : 7-5855

Paradise Irrigation District

6332 Clark Road
Paradise, CA 95969

Sampled On : February 1, 2019-08:15
Sampled By : Laura Capra
Received On : February 1, 2019-11:58
Matrix : Drinking Water

Description : 6961 Clark
Project : Camp Fire

Sample Result - Organic

Constituent	Result	PQL	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
EPA 524.2								
4-Bromofluorobenzene [‡]	88.9	70-130	%	1	524.2	02/05/19:201341	524.2	02/05/19:201763
1,2-Dichlorobenzene-d4 [‡]	95.1	70-130	%		524.2	02/05/19:201341	524.2	02/05/19:201763
Benzene	ND	0.5	ug/L		524.2	02/05/19:201341	524.2	02/05/19:201763

ND=Non-Detected. PQL=Practical Quantitation Limit. ‡Surrogate. * PQL adjusted for dilution.

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Lab ID : CH 1970954-004
Customer ID : 7-5855

Paradise Irrigation District

6332 Clark Road
Paradise, CA 95969

Sampled On : February 1, 2019-07:55
Sampled By : Laura Capra
Received On : February 1, 2019-11:58
Matrix : Drinking Water

Description : 1636 Franke
Project : Camp Fire

Sample Result - Organic

Constituent	Result	PQL	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
EPA 524.2								
4-Bromofluorobenzene [‡]	103	70-130	%	1	524.2	02/05/19:201341	524.2	02/05/19:201763
1,2-Dichlorobenzene-d4 [‡]	97.1	70-130	%		524.2	02/05/19:201341	524.2	02/05/19:201763
Benzene	2.3	0.5	ug/L		524.2	02/05/19:201341	524.2	02/05/19:201763

ND=Non-Detected. PQL=Practical Quantitation Limit. ‡Surrogate. * PQL adjusted for dilution.

MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

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Lab ID : CH 1970954-005
Customer ID : 7-5855

Paradise Irrigation District

6332 Clark Road
Paradise, CA 95969

Sampled On : February 1, 2019-08:25
Sampled By : Laura Capra
Received On : February 1, 2019-11:58
Matrix : Drinking Water

Description : 6980 Clark
Project : Camp Fire

Sample Result - Organic

Constituent	Result	PQL	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
EPA 524.2								
4-Bromofluorobenzene [‡]	90.7	70-130	%	1	524.2	02/05/19:201341	524.2	02/05/19:201763
1,2-Dichlorobenzene-d4 [‡]	94.6	70-130	%		524.2	02/05/19:201341	524.2	02/05/19:201763
Benzene	ND	0.5	ug/L		524.2	02/05/19:201341	524.2	02/05/19:201763

ND=Non-Detected. PQL=Practical Quantitation Limit. ‡Surrogate. * PQL adjusted for dilution.

MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

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Lab ID : CH 1970954-006
Customer ID : 7-5855

Paradise Irrigation District

6332 Clark Road
Paradise, CA 95969

Sampled On : February 1, 2019-08:45
Sampled By : Laura Capra
Received On : February 1, 2019-11:58
Matrix : Drinking Water

Description : 1629 Eaglet
Project : Camp Fire

Sample Result - Organic

Constituent	Result	PQL	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
EPA 524.2								
4-Bromofluorobenzene [‡]	88.0	70-130	%	1	524.2	02/05/19:201341	524.2	02/05/19:201763
1,2-Dichlorobenzene-d4 [‡]	94.1	70-130	%		524.2	02/05/19:201341	524.2	02/05/19:201763
Benzene	0.5	0.5	ug/L		524.2	02/05/19:201341	524.2	02/05/19:201763

ND=Non-Detected. PQL=Practical Quantitation Limit. ‡Surrogate. * PQL adjusted for dilution.

MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

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Lab ID : CH 1970954-007

Customer ID : 7-5855

Paradise Irrigation District

6332 Clark Road

Paradise, CA 95969

Sampled On : February 1, 2019-08:50

Sampled By : Laura Capra

Received On : February 1, 2019-11:58

Matrix : Drinking Water

Description : 7020 Clark

Project : Camp Fire

Sample Result - Organic

Constituent	Result	PQL	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
EPA 524.2								
4-Bromofluorobenzene [‡]	88.5	70-130	%	1	524.2	02/05/19:201341	524.2	02/05/19:201763
1,2-Dichlorobenzene-d4 [‡]	93.4	70-130	%		524.2	02/05/19:201341	524.2	02/05/19:201763
Benzene	ND	0.5	ug/L		524.2	02/05/19:201341	524.2	02/05/19:201763

ND=Non-Detected. PQL=Practical Quantitation Limit. ‡Surrogate. * PQL adjusted for dilution.

MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

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Lab ID : CH 1970954-008
Customer ID : 7-5855

Paradise Irrigation District

6332 Clark Road
Paradise, CA 95969

Sampled On : February 1, 2019-09:15
Sampled By : Laura Capra
Received On : February 1, 2019-11:58
Matrix : Drinking Water

Description : 1508 Forest Serv
Project : Camp Fire

Sample Result - Organic

Constituent	Result	PQL	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
EPA 524.2								
4-Bromofluorobenzene [‡]	88.8	70-130	%	1	524.2	02/05/19:201341	524.2	02/05/19:201763
1,2-Dichlorobenzene-d4 [‡]	94.2	70-130	%		524.2	02/05/19:201341	524.2	02/05/19:201763
Benzene	ND	0.5	ug/L		524.2	02/05/19:201341	524.2	02/05/19:201763

ND=Non-Detected. PQL=Practical Quantitation Limit. ‡Surrogate. * PQL adjusted for dilution.

MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

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Lab ID : CH 1970954-009

Customer ID : 7-5855

Paradise Irrigation District

6332 Clark Road

Paradise, CA 95969

Sampled On : February 1, 2019-09:30

Sampled By : Laura Capra

Received On : February 1, 2019-11:58

Matrix : Drinking Water

Description : 1681 Merrill

Project : Camp Fire

Sample Result - Organic

Constituent	Result	PQL	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
EPA 524.2								
4-Bromofluorobenzene [‡]	89.8	70-130	%	1	524.2	02/05/19:201341	524.2	02/05/19:201763
1,2-Dichlorobenzene-d4 [‡]	93.1	70-130	%		524.2	02/05/19:201341	524.2	02/05/19:201763
Benzene	ND	0.5	ug/L		524.2	02/05/19:201341	524.2	02/05/19:201763

ND=Non-Detected. PQL=Practical Quantitation Limit. ‡Surrogate. * PQL adjusted for dilution.

MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

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Lab ID : CH 1970954-010
Customer ID : 7-5855

Paradise Irrigation District

6332 Clark Road
Paradise, CA 95969

Sampled On : February 1, 2019-09:45
Sampled By : Laura Capra
Received On : February 1, 2019-11:58
Matrix : Drinking Water

Description : 1758 Merrill
Project : Camp Fire

Sample Result - Organic

Constituent	Result	PQL	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
EPA 524.2								
4-Bromofluorobenzene [‡]	91.6	70-130	%	1	524.2	02/05/19:201341	524.2	02/05/19:201763
1,2-Dichlorobenzene-d4 [‡]	92.4	70-130	%		524.2	02/05/19:201341	524.2	02/05/19:201763
Benzene	ND	0.5	ug/L		524.2	02/05/19:201341	524.2	02/05/19:201763

ND=Non-Detected. PQL=Practical Quantitation Limit. ‡Surrogate. * PQL adjusted for dilution.

MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

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Lab ID : CH 1970954-011
Customer ID : 7-5855

Paradise Irrigation District

6332 Clark Road
Paradise, CA 95969

Sampled On : February 1, 2019-10:00
Sampled By : Laura Capra
Received On : February 1, 2019-11:58
Matrix : Drinking Water

Description : 1823 Merrill
Project : Camp Fire

Sample Result - Organic

Constituent	Result	PQL	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
EPA 524.2								
4-Bromofluorobenzene [‡]	90.4	70-130	%	1	524.2	02/05/19:201341	524.2	02/05/19:201763
1,2-Dichlorobenzene-d4 [‡]	90.6	70-130	%		524.2	02/05/19:201341	524.2	02/05/19:201763
Benzene	24.4	0.5	ug/L		524.2	02/05/19:201341	524.2	02/05/19:201763

ND=Non-Detected. PQL=Practical Quantitation Limit. ‡Surrogate. * PQL adjusted for dilution.

MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

February 7, 2019

Lab ID : CH 1970954-012

Customer ID : 7-5855

Paradise Irrigation District

6332 Clark Road

Paradise, CA 95969

Sampled On : February 1, 2019-10:25

Sampled By : Laura Capra

Received On : February 1, 2019-11:58

Matrix : Drinking Water

Description : 1848 Dean Rd.

Project : Camp Fire

Sample Result - Organic

Constituent	Result	PQL	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
EPA 524.2								
4-Bromofluorobenzene [‡]	89.8	70-130	%	1	524.2	02/05/19:201341	524.2	02/05/19:201763
1,2-Dichlorobenzene-d4 [‡]	91.0	70-130	%		524.2	02/05/19:201341	524.2	02/05/19:201763
Benzene	ND	0.5	ug/L		524.2	02/05/19:201341	524.2	02/05/19:201763

ND=Non-Detected. PQL=Practical Quantitation Limit. ‡Surrogate. * PQL adjusted for dilution.

MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

February 7, 2019

Lab ID : CH 1970954-013
Customer ID : 7-5855

Paradise Irrigation District

6332 Clark Road
Paradise, CA 95969

Sampled On : February 1, 2019-10:40
Sampled By : Laura Capra
Received On : February 1, 2019-11:58
Matrix : Drinking Water

Description : 1867 Dean Rd.
Project : Camp Fire

Sample Result - Organic

Constituent	Result	PQL	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
EPA 524.2								
4-Bromofluorobenzene [‡]	89.0	70-130	%	1	524.2	02/05/19:201341	524.2	02/05/19:201763
1,2-Dichlorobenzene-d4 [‡]	91.4	70-130	%		524.2	02/05/19:201341	524.2	02/05/19:201763
Benzene	ND	0.5	ug/L		524.2	02/05/19:201341	524.2	02/05/19:201763

ND=Non-Detected. PQL=Practical Quantitation Limit. ‡Surrogate. * PQL adjusted for dilution.

MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

February 7, 2019
Paradise Irrigation District

Lab ID : CH 1970954
 Customer : 7-5855

Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Organic 1,2-Dichlorobenzene-d4	524.2	02/05/19:201341VRG (SP 1900475-008)	Blank	ug/L	10.00	87.7 %	70-130	
			MS	ug/L	10.00	104 %	70-130	
			MSD	ug/L	10.00	104 %	70-130	
			MSRPD	ug/L	10.00	0.03%	≤20	
	524.2	02/05/19:201763SBL	CCV	ug/L	10.00	103 %	70-130	
4-Bromofluorobenzene	524.2	02/05/19:201341VRG (SP 1900475-008)	Blank	ug/L	10.00	85.2 %	70-130	
			MS	ug/L	10.00	109 %	70-130	
			MSD	ug/L	10.00	112 %	70-130	
			MSRPD	ug/L	10.00	2.8%	≤30	
4-Bromofluorobenzene (BFB)	524.2	02/05/19:201763SBL	CCV	ug/L	10.00	99.9 %	70-130	
Benzene	524.2	02/05/19:201341VRG (SP 1900475-008)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	99.5 %	12-158	
			MSD	ug/L	10.00	102 %	12-158	
			MSRPD	ug/L	10.00	2.7%	≤36	
	524.2	02/05/19:201763SBL	CCV	ug/L	10.00	112 %	70-130	
	524.2	02/06/19:201810SBL	CCV	ug/L	10.00	109 %	70-130	
Definition CCV : Continuing Calibration Verification - Analyzed to verify the instrument calibration is within criteria. Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples. MS : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery. MSD : Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery. MSRPD : MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis. ND : Non-detect - Result was below the DQO listed for the analyte. DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.								