

January 18, 2019

Paradise Irrigation District
 6332 Clark Road
 Paradise, CA 95969

Lab ID : CH 1970439
 Customer : 7-5855

Laboratory Report

Introduction: This report package contains total of 19 pages divided into 3 sections:

Case Narrative	(2 pages)	: An overview of the work performed at FGL.
Sample Results	(16 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	01/14/2019	01/14/2019	CH 1970439-000	LBW
Harrison/Demille	01/14/2019	01/14/2019	CH 1970439-001	DW
Stearns/Demille	01/14/2019	01/14/2019	CH 1970439-002	DW
Pentz/Del Rio	01/14/2019	01/14/2019	CH 1970439-003	DW
6470 Pentz	01/14/2019	01/14/2019	CH 1970439-004	DW
6674 Pentz	01/14/2019	01/14/2019	CH 1970439-005	DW
6118 Clark	01/14/2019	01/14/2019	CH 1970439-006	DW
Birch/Almond	01/14/2019	01/14/2019	CH 1970439-007	DW
Honey Run/Tipton	01/14/2019	01/14/2019	CH 1970439-008	DW
5900 Oakmore	01/14/2019	01/14/2019	CH 1970439-009	DW
357 Valley View	01/14/2019	01/14/2019	CH 1970439-010	DW
270 Pinewood	01/14/2019	01/14/2019	CH 1970439-011	DW
5821 Acorn ridge	01/14/2019	01/14/2019	CH 1970439-012	DW
247 Red bud	01/14/2019	01/14/2019	CH 1970439-013	DW
5498 Skyway	01/14/2019	01/14/2019	CH 1970439-014	DW
Skyway & Long view	01/14/2019	01/14/2019	CH 1970439-015	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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Lab ID : CH 1970439
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Quality Control: All samples were prepared and analyzed according to the following tables:

Organic QC

524.2	01/16/2019:200801 All analysis quality controls are within established criteria, except: The following note applies to 4-Bromofluorobenzene (BFB): 362 Surrogates are qualified on Control Chart Limits, these are CCV limits. See individual sample reports.
	01/17/2019:200801 All analysis quality controls are within established criteria, except: The following note applies to 4-Bromofluorobenzene (BFB): 362 Surrogates are qualified on Control Chart Limits, these are CCV limits. See individual sample reports.
	01/16/2019:200612 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: 2019-01-18

January 18, 2019

Lab ID : CH 1970439-000
Customer ID : 7-5855

Paradise Irrigation District

6332 Clark Road
Paradise, CA 95969

Sampled On : January 14, 2019-00:00
Sampled By : Laura Capra
Received On : January 14, 2019-14:40
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 [‡]	106	70-130	%		524.2	01/16/19:200612	524.2	01/17/19:200801
1,2-Dichlorobenzene-d4 [‡]	102	70-130	%		524.2	01/16/19:200612	524.2	01/17/19:200801
Benzene	ND	0.5	ug/L		524.2	01/16/19:200612	524.2	01/17/19:200801

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

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Lab ID : CH 1970439-001

Customer ID : 7-5855

Paradise Irrigation District

6332 Clark Road

Paradise, CA 95969

Sampled On : January 14, 2019-08:30

Sampled By : Laura Capra

Received On : January 14, 2019-14:40

Matrix : Drinking Water

Description : Harrison/Demille

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	01/16/19:200612	524.2	01/16/19:200801
1,2-Dichlorobenzene-d4 [‡]	101	70-130	%		524.2	01/16/19:200612	524.2	01/16/19:200801
Benzene	ND	0.5	ug/L		524.2	01/16/19:200612	524.2	01/16/19:200801

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.

January 18, 2019

Lab ID : CH 1970439-002

Customer ID : 7-5855

Paradise Irrigation District

6332 Clark Road

Paradise, CA 95969

Sampled On : January 14, 2019-08:45

Sampled By : Laura Capra

Received On : January 14, 2019-14:40

Matrix : Drinking Water

Description : Stearns/Demille

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 [‡]	95.9	70-130	%	1	524.2	01/16/19:200612	524.2	01/16/19:200801
1,2-Dichlorobenzene-d4 [‡]	95.0	70-130	%		524.2	01/16/19:200612	524.2	01/16/19:200801
Benzene	ND	0.5	ug/L		524.2	01/16/19:200612	524.2	01/16/19:200801

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 1970439-003
Customer ID : 7-5855

Paradise Irrigation District

6332 Clark Road
Paradise, CA 95969

Sampled On : January 14, 2019-09:00
Sampled By : Laura Capra
Received On : January 14, 2019-14:40
Matrix : Drinking Water

Description : Pentz/Del Rio
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 [‡]	99.5	70-130	%	1	524.2	01/16/19:200612	524.2	01/16/19:200801
1,2-Dichlorobenzene-d4 [‡]	98.6	70-130	%		524.2	01/16/19:200612	524.2	01/16/19:200801
Benzene	ND	0.5	ug/L		524.2	01/16/19:200612	524.2	01/16/19:200801

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

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Lab ID : CH 1970439-004

Customer ID : 7-5855

Paradise Irrigation District

6332 Clark Road

Paradise, CA 95969

Sampled On : January 14, 2019-09:15

Sampled By : Laura Capra

Received On : January 14, 2019-14:40

Matrix : Drinking Water

Description : 6470 Pentz

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 [‡]	102	70-130	%	1	524.2	01/16/19:200612	524.2	01/16/19:200801
1,2-Dichlorobenzene-d4 [‡]	102	70-130	%		524.2	01/16/19:200612	524.2	01/16/19:200801
Benzene	ND	0.5	ug/L		524.2	01/16/19:200612	524.2	01/16/19:200801

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

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Lab ID : CH 1970439-005
Customer ID : 7-5855

Paradise Irrigation District

6332 Clark Road
Paradise, CA 95969

Sampled On : January 14, 2019-10:35
Sampled By : Laura Capra
Received On : January 14, 2019-14:40
Matrix : Drinking Water

Description : 6674 Pentz
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 [‡]	104	70-130	%	1	524.2	01/16/19:200612	524.2	01/16/19:200801
1,2-Dichlorobenzene-d4 [‡]	101	70-130	%		524.2	01/16/19:200612	524.2	01/16/19:200801
Benzene	ND	0.5	ug/L		524.2	01/16/19:200612	524.2	01/16/19:200801

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 1970439-006

Customer ID : 7-5855

Paradise Irrigation District

6332 Clark Road

Paradise, CA 95969

Sampled On : January 14, 2019-09:30

Sampled By : Laura Capra

Received On : January 14, 2019-14:40

Matrix : Drinking Water

Description : 6118 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 [‡]	104	70-130	%	1	524.2	01/16/19:200612	524.2	01/16/19:200801
1,2-Dichlorobenzene-d4 [‡]	104	70-130	%		524.2	01/16/19:200612	524.2	01/16/19:200801
Benzene	ND	0.5	ug/L		524.2	01/16/19:200612	524.2	01/16/19:200801

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 1970439-007
Customer ID : 7-5855

Paradise Irrigation District

6332 Clark Road
Paradise, CA 95969

Sampled On : January 14, 2019-09:45
Sampled By : Laura Capra
Received On : January 14, 2019-14:40
Matrix : Drinking Water

Description : Birch/Almond
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 [‡]	99.1	70-130	%	1	524.2	01/16/19:200612	524.2	01/16/19:200801
1,2-Dichlorobenzene-d4 [‡]	101	70-130	%		524.2	01/16/19:200612	524.2	01/16/19:200801
Benzene	ND	0.5	ug/L		524.2	01/16/19:200612	524.2	01/16/19:200801

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 1970439-008
Customer ID : 7-5855

Paradise Irrigation District

6332 Clark Road
Paradise, CA 95969

Sampled On : January 14, 2019-09:55
Sampled By : Laura Capra
Received On : January 14, 2019-14:40
Matrix : Drinking Water

Description : Honey Run/Tipton
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 [‡]	106	70-130	%	1	524.2	01/16/19:200612	524.2	01/16/19:200801
1,2-Dichlorobenzene-d4 [‡]	102	70-130	%		524.2	01/16/19:200612	524.2	01/16/19:200801
Benzene	ND	0.5	ug/L		524.2	01/16/19:200612	524.2	01/16/19:200801

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 1970439-009
Customer ID : 7-5855

Paradise Irrigation District

6332 Clark Road
Paradise, CA 95969

Sampled On : January 14, 2019-10:15
Sampled By : Laura Capra
Received On : January 14, 2019-14:40
Matrix : Drinking Water

Description : 5900 Oakmore
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	01/16/19:200612	524.2	01/16/19:200801
1,2-Dichlorobenzene-d4 [‡]	103	70-130	%		524.2	01/16/19:200612	524.2	01/16/19:200801
Benzene	ND	0.5	ug/L		524.2	01/16/19:200612	524.2	01/16/19:200801

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.

January 18, 2019

Lab ID : CH 1970439-010

Customer ID : 7-5855

Paradise Irrigation District

6332 Clark Road

Paradise, CA 95969

Sampled On : January 14, 2019-13:15

Sampled By : Laura Capra

Received On : January 14, 2019-14:40

Matrix : Drinking Water

Description : 357 Valley View

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 [‡]	106	70-130	%	1	524.2	01/16/19:200612	524.2	01/16/19:200801
1,2-Dichlorobenzene-d4 [‡]	106	70-130	%		524.2	01/16/19:200612	524.2	01/16/19:200801
Benzene	ND	0.5	ug/L		524.2	01/16/19:200612	524.2	01/16/19:200801

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 1970439-011
Customer ID : 7-5855

Paradise Irrigation District

6332 Clark Road
Paradise, CA 95969

Sampled On : January 14, 2019-13:22
Sampled By : Laura Capra
Received On : January 14, 2019-14:40
Matrix : Drinking Water

Description : 270 Pinewood
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 [‡]	105	70-130	%	1	524.2	01/16/19:200612	524.2	01/16/19:200801
1,2-Dichlorobenzene-d4 [‡]	101	70-130	%		524.2	01/16/19:200612	524.2	01/16/19:200801
Benzene	ND	0.5	ug/L		524.2	01/16/19:200612	524.2	01/16/19:200801

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.

January 18, 2019

Lab ID : CH 1970439-012
Customer ID : 7-5855

Paradise Irrigation District

6332 Clark Road
Paradise, CA 95969

Sampled On : January 14, 2019-13:30
Sampled By : Laura Capra
Received On : January 14, 2019-14:40
Matrix : Drinking Water

Description : 5821 Acorn ridge
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 [‡]	102	70-130	%	1	524.2	01/16/19:200612	524.2	01/16/19:200801
1,2-Dichlorobenzene-d4 [‡]	102	70-130	%		524.2	01/16/19:200612	524.2	01/16/19:200801
Benzene	ND	0.5	ug/L		524.2	01/16/19:200612	524.2	01/16/19:200801

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.

January 18, 2019

Lab ID : CH 1970439-013

Customer ID : 7-5855

Paradise Irrigation District

6332 Clark Road

Paradise, CA 95969

Sampled On : January 14, 2019-13:40

Sampled By : Laura Capra

Received On : January 14, 2019-14:40

Matrix : Drinking Water

Description : 247 Red bud

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 [‡]	101	70-130	%	1	524.2	01/16/19:200612	524.2	01/16/19:200801
1,2-Dichlorobenzene-d4 [‡]	107	70-130	%		524.2	01/16/19:200612	524.2	01/16/19:200801
Benzene	ND	0.5	ug/L		524.2	01/16/19:200612	524.2	01/16/19:200801

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.

January 18, 2019

Lab ID : CH 1970439-014
Customer ID : 7-5855

Paradise Irrigation District

6332 Clark Road
Paradise, CA 95969

Sampled On : January 14, 2019-14:00
Sampled By : Laura Capra
Received On : January 14, 2019-14:40
Matrix : Drinking Water

Description : 5498 Skyway
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	01/16/19:200612	524.2	01/17/19:200801
1,2-Dichlorobenzene-d4 [‡]	103	70-130	%		524.2	01/16/19:200612	524.2	01/17/19:200801
Benzene	ND	0.5	ug/L		524.2	01/16/19:200612	524.2	01/17/19:200801

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.

January 18, 2019

Lab ID : CH 1970439-015

Customer ID : 7-5855

Paradise Irrigation District

6332 Clark Road

Paradise, CA 95969

Sampled On : January 14, 2019-14:15

Sampled By : Laura Capra

Received On : January 14, 2019-14:40

Matrix : Drinking Water

Description : Skyway & Long view

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 [‡]	104	70-130	%	1	524.2	01/16/19:200612	524.2	01/17/19:200801
1,2-Dichlorobenzene-d4 [‡]	105	70-130	%		524.2	01/16/19:200612	524.2	01/17/19:200801
Benzene	ND	0.5	ug/L		524.2	01/16/19:200612	524.2	01/17/19:200801

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.

January 18, 2019
Paradise Irrigation District

Lab ID : CH 1970439
 Customer : 7-5855

Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Organic 1,2-Dichlorobenzene-d4	524.2	01/16/19:200612VRG (SP 1900425-001)	Blank	ug/L	10.00	101 %	70-130	
			MS	ug/L	10.00	113 %	70-130	
			MSD	ug/L	10.00	100 %	70-130	
			MSRPD	ug/L	10.00	11.4%	≤20	
	524.2	01/16/19:200801VRG	CCV	ug/L	10.00	105 %	70-130	
4-Bromofluorobenzene	524.2	01/16/19:200612VRG (SP 1900425-001)	Blank	ug/L	10.00	104 %	70-130	
			MS	ug/L	10.00	118 %	70-130	
			MSD	ug/L	10.00	99.5 %	70-130	
			MSRPD	ug/L	10.00	17.4%	≤30	
4-Bromofluorobenzene (BFB)	524.2	01/16/19:200801VRG	CCV	ug/L	10.00	408 %	70-130	362
Benzene	524.2	01/16/19:200612VRG (SP 1900425-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	151 %	12-158	
			MSD	ug/L	10.00	111 %	12-158	
			MSRPD	ug/L	10.00	30.4%	≤36	
	524.2	01/16/19:200801VRG	CCV	ug/L	10.00	110 %	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.								
Explanation 362 : Surrogates are qualified on Control Chart Limits, these are CCV limits. See individual sample reports.								