

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

28 December 2010

Yolo County Natural Resources Division

Attn: Tami Leathers

625 Court Street Room B03

Woodland, CA 95695

RE: Surface Water

Work Order: 10L0567

Enclosed are the results of analyses for samples received by the laboratory on 12/10/10 15:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For David S. Pingatore

Jeanette Popli

Project Manager



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ulkiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Tami Leathers

Yolo County Natural Resources DivisionProject:Surface WaterReported:625 Court Street Room B03Project Number:Surface Water12/28/10 13:21

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Brooks (B Site)	10L0567-01	Water	12/10/10 00:00	12/10/10 15:10
Capay Bridge	10L0567-02	Water	12/10/10 08:16	12/10/10 15:10
Upstream Gordon	10L0567-03	Water	12/10/10 09:10	12/10/10 15:10
Stevens Bridge	10L0567-04	Water	12/10/10 10:05	12/10/10 15:10
Gordon Slough	10L0567-05	Water	12/10/10 09:45	12/10/10 15:10
I-5 Bridge	10L0567-06	Water	12/10/10 11:05	12/10/10 15:10
Robbins (R Site)	10L0567-07	Water	12/10/10 10:20	12/10/10 15:10

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 12/28/2010



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Tami Leathers
Yolo County Natural Resources Division Project: Surface Water

625 Court Street Room B03 Project Number: Surface Water

Reported: 12/28/10 13:21

### Metals by EPA 200 Series Methods Alpha Analytical Laboratories, Inc.

		_	Reporting				<u> </u>			_
Analyte	Result	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Brooks (B Site) (10L0567-01) Water	Sampled: 12/10/1	0 00:00 1	Received: 12/1	10/10 15	:10					
Boron	ND	0.020	0.050	mg/l	1	AL01310	12/13/10 10:04	12/17/10 11:18	EPA 200.7	U
Capay Bridge (10L0567-02) Water	Sampled: 12/10/10	08:16 R	eceived: 12/10	)/10 15:1	.0					
Boron	2.5	0.020	0.050	mg/l	1	AL01310	12/13/10 10:04	12/17/10 12:48	EPA 200.7	
Upstream Gordon (10L0567-03) Wat	er Sampled: 12/1	0/10 09:10	Received:	12/10/10	15:10					
Boron	2.6	0.020	0.050	mg/l	1	AL01310	12/13/10 10:04	12/17/10 12:59	EPA 200.7	
Stevens Bridge (10L0567-04) Water	Sampled: 12/10/1	0 10:05 F	Received: 12/1	0/10 15:	10					
Boron	2.6	0.020	0.050	mg/l	1	AL01310	12/13/10 10:04	12/17/10 13:09	EPA 200.7	
Gordon Slough (10L0567-05) Water	Sampled: 12/10/1	0 09:45 1	Received: 12/1	10/10 15	:10					
Boron	1.4	0.020	0.050	mg/l	1	AL01310	12/13/10 10:04	12/17/10 13:20	EPA 200.7	
I-5 Bridge (10L0567-06) Water San	npled: 12/10/10 11:	05 Recei	ved: 12/10/10	15:10						
Boron	2.7	0.020	0.050	mg/l	1	AL01310	12/13/10 10:04	12/17/10 13:26	EPA 200.7	
Robbins (R Site) (10L0567-07) Water	Sampled: 12/10/	10 10:20	Received: 12	/10/10 1	5:10					
Boron	2.6	0.020	0.050	mg/l	1	AL01310	12/13/10 10:04	12/17/10 13:36	EPA 200.7	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 12/28/2010



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Tami Leathers
Yolo County Natural Resources Division Project: Surface Water

Yolo County Natural Resources DivisionProject:Surface WaterReported:625 Court Street Room B03Project Number:Surface Water12/28/10 13:21

### Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Brooks (B Site) (10L0567-01) Water	Sampled: 12/10	/10 00:00 R	eceived: 12/	10/10 15:	:10					
Ammonia as N	0.070	0.060	0.20	mg/l	1	AL02215	12/22/10 11:23	12/23/10 09:46	SM4500NH3 C	J
Color	ND	3.0	5.0	Color Units	"	AL00837	12/11/10 07:50	12/11/10 08:19	SM2120B	U
Odor	2.4		1.0	T.O.N.	"	"	"	12/13/10 11:38	EPA 140.1	T-3
Total Dissolved Solids	ND	4.2	10	mg/l	"	AL01710	12/17/10 09:15	12/21/10 15:21	SM2540C	U
Total Kjeldahl Nitrogen	0.10	0.10	1.0	"	"	AL02103	12/23/10 07:10	12/27/10 14:47	SM4500-No B	J
Total Suspended Solids	ND	0.30	1.0	"	"	AL01611	12/16/10 09:58	12/22/10 17:00	SM2540D	U
Capay Bridge (10L0567-02) Water	Sampled: 12/10/1	0 08:16 Re	ceived: 12/10	0/10 15:1	0					
Ammonia as N	ND	0.060	0.20	mg/l	1	AL02215	12/23/10 08:00	12/23/10 09:46	SM4500NH3C	U
Color	22	6.0	10	Color Units	2	AL00837	12/11/10 07:50	12/11/10 08:19	SM2120B	
Odor	3.2		1.0	T.O.N.	1	"	"	12/13/10 11:38	EPA 140.1	OD-1
<b>Total Dissolved Solids</b>	430	4.2	10	mg/l	"	AL01710	12/17/10 09:15	12/21/10 15:21	SM2540C	
Total Kjeldahl Nitrogen	0.35	0.10	1.0	"	"	AL02103	12/23/10 07:10	12/27/10 14:47	SM4500-No B	J
<b>Total Suspended Solids</b>	1.7	0.30	1.0	"	"	AL01611	12/16/10 09:58	12/22/10 17:00	SM2540D	
Upstream Gordon (10L0567-03) Water	er Sampled: 12	/10/10 09:10	Received:	12/10/10	15:10					
Ammonia as N	0.070	0.060	0.20	mg/l	1	AL02215	12/23/10 08:00	12/23/10 09:46	SM4500NH3 C	J
Color	22	6.0	10	Color Units	2	AL00837	12/11/10 07:50	12/11/10 08:19	SM2120B	
Odor	7.1		1.0	T.O.N.	1	"	"	12/13/10 11:38	EPA 140.1	OD-1
<b>Total Dissolved Solids</b>	440	4.2	10	mg/l	"	AL01710	12/17/10 09:15	12/21/10 15:21	SM2540C	
Total Kjeldahl Nitrogen	0.49	0.10	1.0	"	"	AL02103	12/23/10 07:10	12/27/10 14:47	SM4500-No B	J
<b>Total Suspended Solids</b>	3.6	0.30	1.0	"	"	AL01611	12/16/10 09:58	12/22/10 17:00	SM2540D	
Stevens Bridge (10L0567-04) Water	Sampled: 12/10/	10 10:05 R	eceived: 12/1	10/10 15.	10					

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 12/28/2010



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Tami Leathers
Yolo County Natural Resources Division Project: Surface Water

Yolo County Natural Resources DivisionProject:Surface WaterReported:625 Court Street Room B03Project Number:Surface Water12/28/10 13:21

### Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Stevens Bridge (10L0567-04) Water	Sampled: 12/10/	10 10:05	Received: 12/1	10/10 15:	10					
Ammonia as N	0.070	0.060	0.20	mg/l	1	AL02215	12/23/10 08:00	12/23/10 09:46	SM4500NH3 C	J
Color	14	6.0	10	Color Units	2	AL00837	12/11/10 07:50	12/11/10 08:19	SM2120B	
Odor	3.2		1.0	T.O.N.	1	"	"	12/13/10 11:38	EPA 140.1	OD-1
<b>Total Dissolved Solids</b>	440	4.2	10	mg/l	"	AL01710	12/17/10 09:15	12/21/10 15:21	SM2540C	
Total Kjeldahl Nitrogen	0.46	0.10	1.0	"	"	AL02103	12/23/10 07:10	12/27/10 14:47	SM4500-No B	J
Total Suspended Solids	ND	0.30	1.0	"	"	AL01611	12/16/10 09:58	12/22/10 17:00	SM2540D	U
Gordon Slough (10L0567-05) Water	Sampled: 12/10	/10 09:45	Received: 12/	10/10 15	:10					
Ammonia as N	0.10	0.060	0.20	mg/l	1	AL02215	12/23/10 08:00	12/23/10 17:00	SM4500NH3 C	J
Color	11	3.0	5.0	Color Units	"	AL00837	12/11/10 07:50	12/11/10 08:19	SM2120B	
Odor	2.6		1.0	T.O.N.	"	"	"	12/13/10 11:38	EPA 140.1	OD-1
<b>Total Dissolved Solids</b>	340	4.2	10	mg/l	"	AL01710	12/17/10 09:15	12/21/10 15:21	SM2540C	
Total Kjeldahl Nitrogen	0.46	0.10	1.0	"	"	AL02103	12/23/10 07:10	12/27/10 14:47	SM4500-No B	J
<b>Total Suspended Solids</b>	24	0.30	1.0	"	"	AL01611	12/16/10 09:58	12/22/10 17:00	SM2540D	
I-5 Bridge (10L0567-06) Water San	mpled: 12/10/10 11	1:05 Reco	eived: 12/10/10	15:10						
Ammonia as N	0.10	0.060	0.20	mg/l	1	AL02215	12/23/10 08:00	12/23/10 17:00	SM4500NH3 C	J
Color	20	6.0	10	Color Units	2	AL00837	12/11/10 07:50	12/11/10 08:19	SM2120B	
Odor	2.6		1.0	T.O.N.	1	"	"	12/13/10 11:38	EPA 140.1	OD-2
<b>Total Dissolved Solids</b>	450	4.2	10	mg/l	"	AL01710	12/17/10 09:15	12/21/10 15:21	SM2540C	
Total Kjeldahl Nitrogen	0.52	0.10	1.0	"	"	AL02103	12/23/10 07:10	12/27/10 14:47	SM4500-No B	J
<b>Total Suspended Solids</b>	9.5	0.30	1.0	"	"	AL01611	12/16/10 09:58	12/22/10 17:00	SM2540D	
Robbins (R Site) (10L0567-07) Water	r Sampled: 12/1	0/10 10:20	Received: 12	2/10/10 1:	5:10					

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 12/28/2010



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ulkiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Tami Leathers
Yolo County Natural Resources Division Project: Surface Water

Yolo County Natural Resources DivisionProject:Surface WaterReported:625 Court Street Room B03Project Number:Surface Water12/28/10 13:21

#### Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Robbins (R Site) (10L0567-07) Water	Sampled: 12/10	0/10 10:20	Received: 12	2/10/10 1:	5:10					
Ammonia as N	0.070	0.060	0.20	mg/l	1	AL02215	12/23/10 08:00	12/23/10 17:00	SM4500NH3 C	J
Color	22	6.0	10	Color Units	2	AL00837	12/11/10 07:50	12/11/10 08:19	SM2120B	
Odor	3.2		1.0	T.O.N.	1	"	"	12/13/10 11:38	EPA 140.1	OD-2
<b>Total Dissolved Solids</b>	410	4.2	10	mg/l	"	AL01710	12/17/10 09:15	12/21/10 15:21	SM2540C	
Total Kjeldahl Nitrogen	0.42	0.10	1.0	"	"	AL02103	12/27/10 07:10	12/27/10 14:47	SM4500-No B	J
<b>Total Suspended Solids</b>	3.5	0.30	1.0	"	"	AL01611	12/16/10 09:58	12/22/10 17:00	SM2540D	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 12/28/2010



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Tami Leathers Yolo County Natural Resources Division Project: Surface Water

Yolo County Natural Resources DivisionProject:Surface WaterReported:625 Court Street Room B03Project Number:Surface Water12/28/10 13:21

# Anions by EPA Method 300.0 Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Brooks (B Site) (10L0567-01) Water	Sampled: 12/10/	/10 00:00	Received: 12/	10/10 15	:10					
Nitrate as N	0.12	0.030	0.20	mg/l	1	AL01026	12/10/10 15:56	12/10/10 22:39	EPA 300.0	J
Nitrite as N	ND	0.020	0.20	"	"	"	"	"	"	U
Orthophosphate as P	ND	0.030	0.10	"	"	"	"	"	"	U
Capay Bridge (10L0567-02) Water	Sampled: 12/10/1	0 08:16 R	eceived: 12/10	0/10 15:1	10					
Nitrate as N	0.45	0.030	0.20	mg/l	1	AL01026	12/10/10 15:56	12/11/10 00:26	EPA 300.0	
Nitrite as N	ND	0.020	0.20	"	"	"	"	"	"	U
Orthophosphate as P	ND	0.030	0.10	"	"	"	"	"	"	U
Upstream Gordon (10L0567-03) Wat	ter Sampled: 12	/10/10 09:1	0 Received:	12/10/10	15:10					
Nitrate as N	1.2	0.030	0.20	mg/l	1	AL01026	12/10/10 15:56	12/11/10 00:56	EPA 300.0	
Nitrite as N	ND	0.020	0.20	"	"	"	"	"	"	U
Orthophosphate as P	ND	0.030	0.10	"	"	"	"	"	"	U
Stevens Bridge (10L0567-04) Water	Sampled: 12/10/	10 10:05 I	Received: 12/1	10/10 15:	:10					
Nitrate as N	1.2	0.030	0.20	mg/l	1	AL01026	12/10/10 15:56	12/11/10 01:27	EPA 300.0	
Nitrite as N	ND	0.020	0.20	"	"	"	"	"	"	U
Orthophosphate as P	ND	0.030	0.10	"	"	"	"	"	"	U
Gordon Slough (10L0567-05) Water	Sampled: 12/10/	/10 09:45	Received: 12/	10/10 15	:10					
Nitrate as N	0.12	0.030	0.20	mg/l	1	AL01026	12/10/10 15:56	12/11/10 01:57	EPA 300.0	J
Nitrite as N	ND	0.020	0.20	"	"	"	"	"	"	U
Orthophosphate as P	0.22	0.030	0.10	"	"	"	"	"	"	
I-5 Bridge (10L0567-06) Water San	mpled: 12/10/10 11	1:05 Recei	ived: 12/10/10	15:10						
Nitrate as N	1.3	0.030	0.20	mg/l	1	AL01026	12/10/10 15:56	12/11/10 02:28	EPA 300.0	
Nitrite as N	ND	0.020	0.20	"	"	"	"	"	"	U
Orthophosphate as P	ND	0.030	0.10	"	"	"	"	n .	"	U

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 12/28/2010



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Tami Leathers
Yolo County Natural Resources Division Project: Surface Water

Yolo County Natural Resources DivisionProject:Surface WaterReported:625 Court Street Room B03Project Number:Surface Water12/28/10 13:21

# Anions by EPA Method 300.0 Alpha Analytical Laboratories, Inc.

Analyte  Robbins (R Site) (10L0567-07) Water	Result  Sampled: 12/10	MDL /10 10:20	Reporting Limit  Received: 12	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Nitrate as N	1.2	0.030	0.20	mg/l	1	AL01026	12/10/10 15:56	12/11/10 03:29	EPA 300.0	
Nitrite as N	ND	0.020	0.20	"	"	"	"	"	"	U
Orthophosphate as P	ND	0.030	0.10	"	"	"	"	"	"	U

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 12/28/2010



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ulkiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Tami Leathers
Yolo County Natural Resources Division Project: Surface Water

Yolo County Natural Resources DivisionProject:Surface WaterReported:625 Court Street Room B03Project Number:Surface Water12/28/10 13:21

### Microbiological Parameters by APHA Standard Methods Alpha Analytical Laboratories, Inc.

Brooks (B Site) (10L0567-01) Water Sampled: 12/10/10 00:00 Received: 12/10/10 15:10  Total Coliforms ND 2.0 MPN/100 1 AL01305 12/10/10 16:15 12/12/10 15:30 SM9221 T-3 ml Fecal Coliforms ND 2.0 " " " " " " " T-3  Capay Bridge (10L0567-02) Water Sampled: 12/10/10 08:16 Received: 12/10/10 15:10  Total Coliforms >1600 2.0 MPN/100 1 AL01407 12/10/10 16:15 12/14/10 14:00 SM9221 T-3 ml				•						
Total Coliforms	Analyte	Result	MDL	1 &	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pecal Coliforms   ND   2.0   "	Brooks (B Site) (10L0567-01) Wate	r Sampled: 12/10/	10 00:00 Re	ceived: 12/10/10 15:	10					
Pecal Coliforms	Total Coliforms	ND			1	AL01305	12/10/10 16:15	12/12/10 15:30	SM9221	T-3, U
Total Coliforms	Fecal Coliforms	ND			"	"	"	"	"	T-3, U
Pecal Coliforms   26.0   2.0	Capay Bridge (10L0567-02) Water	Sampled: 12/10/1	0 08:16 Rec	eived: 12/10/10 15:1	0					
Fecal Coliforms   26.0   2.0   " " " " " " " " " " " " " " " Total Coliforms   26.0   2.0   MPN/100   1   AL01407   12/10/10 16:15   12/13/10 14:00   SM9221   Stevens Bridge (10L0567-04) Water   Sampled: 12/10/10 10:05   Received: 12/10/10 15:10   Total Coliforms   50.0   2.0   MPN/100   1   AL01407   12/10/10 16:15   12/13/10 14:00   SM9221   Stevens Bridge (10L0567-04) Water   Sampled: 12/10/10 10:05   Received: 12/10/10 15:10   Total Coliforms   51600   2.0   MPN/100   1   AL01407   12/10/10 16:15   12/13/10 14:00   SM9221   Second Slough (10L0567-05) Water   Sampled: 12/10/10 09:45   Received: 12/10/10 15:10   Total Coliforms   900.0   2.0   MPN/100   1   AL01407   12/10/10 16:15   12/14/10 14:00   SM9221   Second Slough (10L0567-06) Water   Sampled: 12/10/10 11:05   Received: 12/10/10 15:10   " " " " " " " " " " " " " " " " " "	Total Coliforms	>1600			1	AL01407	12/10/10 16:15	12/14/10 14:00	SM9221	T-1
Total Coliforms	Fecal Coliforms	26.0			"	"	"	"	"	T-1
Fecal Coliforms   So.0   So.	Upstream Gordon (10L0567-03) W	ater Sampled: 12/	10/10 09:10	Received: 12/10/10	15:10					
Stevens Bridge (10L0567-04) Water   Sampled: 12/10/10 10:05   Received: 12/10/10 15:10   Received: 1	Total Coliforms	>1600			1	AL01407	12/10/10 16:15	12/13/10 14:00	SM9221	
Total Coliforms	Fecal Coliforms	50.0			"	"	"	"	"	
Fecal Coliforms   30.0   2.0   "   "   "   "   "   "   "   "   "	Stevens Bridge (10L0567-04) Water	Sampled: 12/10/	10 10:05 Re	ceived: 12/10/10 15:	10					
Secol Coliforms   30.0   2.0   "   "   "   "   "   "   "   "   "	Total Coliforms	>1600			1	AL01407	12/10/10 16:15	12/13/10 14:00	SM9221	
Total Coliforms   900.0   2.0 MPN/100   1   AL01407   12/10/10 16:15   12/14/10 14:00   SM9221	Fecal Coliforms	30.0			"	"	"	"	"	
Fecal Coliforms   170.0   2.0   "   "   "   "   "   "   "   "   "	Gordon Slough (10L0567-05) Wate	r Sampled: 12/10/	10 09:45 Re	eceived: 12/10/10 15:	10					
Total Coliforms   170.0   2.0 " " " " " " " " " " " " "   "   "   "	Total Coliforms	900.0			1	AL01407	12/10/10 16:15	12/14/10 14:00	SM9221	
Total Coliforms >1600 2.0 MPN/100 1 AL01407 12/10/10 16:15 12/14/10 14:00 SM9221  Fecal Coliforms 90.0 2.0 " " " " " " " " " " " "  Robbins (R Site) (10L0567-07) Water Sampled: 12/10/10 10:20 Received: 12/10/10 15:10  Total Coliforms 900.0 2.0 MPN/100 1 AL01407 12/10/10 16:15 12/14/10 14:00 SM9221	Fecal Coliforms	170.0			"	"	"	"	"	
Fecal Coliforms         90.0         2.0         "" " " " " " " " " " " " " " " " " " "	I-5 Bridge (10L0567-06) Water Sa	ampled: 12/10/10 11	:05 Receive	d: 12/10/10 15:10						
Fecal Coliforms         90.0         2.0         "	Total Coliforms	>1600			1	AL01407	12/10/10 16:15	12/14/10 14:00	SM9221	
Total Coliforms  900.0  2.0 MPN/100 1 AL01407 12/10/10 16:15 12/14/10 14:00 SM9221 ml	Fecal Coliforms	90.0			"	"	"	"	"	
ml	Robbins (R Site) (10L0567-07) Wat	er Sampled: 12/10	)/10 10:20 R	Received: 12/10/10 15	5:10					
	Total Coliforms	900.0			1	AL01407	12/10/10 16:15	12/14/10 14:00	SM9221	
	Fecal Coliforms	70.0			"	"	"	"	"	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 12/28/2010



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ulkiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Tami Leathers

Yolo County Natural Resources Division Project: Surface Water
625 Court Street Room B03 Project Number: Surface Water

Reported: 12/28/10 13:21

# TPH by EPA/LUFT GC/GCMS Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Brooks (B Site) (10L0567-01) Water	Sampled: 12/10	/10 00:00	Received: 12/1	0/10 15	:10					
TPH as Diesel	ND	50	50	ug/l	1	AL01521	12/16/10 13:40	12/21/10 15:24	8015DRO	U
TPH as Gasoline	ND	50	50	"	"	AL01529	12/14/10 08:00	12/14/10 23:17	8260GRO	U
Surrogate: Tetratetracontane		97.7 %	27-124			AL01521	12/16/10 13:40	12/21/10 15:24	8015DRO	
Surrogate: Toluene-d8		98.4 %	76-129			AL01529	12/14/10 08:00	12/14/10 23:17	8260GRO	
Capay Bridge (10L0567-02) Water	Sampled: 12/10/1	0 08:16 R	eceived: 12/10/	/10 15:1	10					
TPH as Diesel	ND	500	500	ug/l	10	AL01521	12/16/10 13:40	12/18/10 05:10	8015DRO	U
TPH as Gasoline	ND	50	50	"	1	AL01529	12/14/10 08:00	12/14/10 23:51	8260GRO	U
Surrogate: Tetratetracontane		93.4 %	27-124			AL01521	12/16/10 13:40	12/21/10 17:08	8015DRO	
Surrogate: Toluene-d8		98.8 %	76-129			AL01529	12/14/10 08:00	12/14/10 23:51	8260GRO	
Upstream Gordon (10L0567-03) Wat	ter Sampled: 12	/10/10 09:1	0 Received: 1	2/10/10	15:10					
TPH as Diesel	ND	50	50	ug/l	1	AL01521	12/16/10 13:40	12/21/10 17:43	8015DRO	U
TPH as Diesel TPH as Gasoline	ND ND	50 50	50 50	ug/l	1	AL01521 AL01529	12/16/10 13:40 12/14/10 08:00	12/21/10 17:43 12/15/10 00:25	8015DRO 8260GRO	U U
				_	-					
TPH as Gasoline		50	50	"	-	AL01529	12/14/10 08:00	12/15/10 00:25	8260GRO	
TPH as Gasoline Surrogate: Tetratetracontane	ND	50 104 % 98.4 %	50 27-124 76-129	"	"	AL01529 AL01521	12/14/10 08:00 12/16/10 13:40	12/15/10 00:25 12/21/10 17:43	8260GRO 8015DRO	
TPH as Gasoline Surrogate: Tetratetracontane Surrogate: Toluene-d8	ND	50 104 % 98.4 %	50 27-124 76-129	"	"	AL01529 AL01521	12/14/10 08:00 12/16/10 13:40	12/15/10 00:25 12/21/10 17:43	8260GRO 8015DRO	
TPH as Gasoline Surrogate: Tetratetracontane Surrogate: Toluene-d8 Stevens Bridge (10L0567-04) Water	ND Sampled: 12/10	50 104 % 98.4 % /10 10:05	50 27-124 76-129 Received: 12/10	0/10 15:	110	AL01529 AL01521 AL01529	12/14/10 08:00 12/16/10 13:40 12/14/10 08:00	12/15/10 00:25 12/21/10 17:43 12/15/10 00:25	8260GRO 8015DRO 8260GRO	U
TPH as Gasoline Surrogate: Tetratetracontane Surrogate: Toluene-d8 Stevens Bridge (10L0567-04) Water TPH as Diesel	ND Sampled: 12/10	50 104% 98.4% /10 10:05	50 27-124 76-129 Received: 12/10	0/10 15: ug/l	1	AL01529 AL01521 AL01529 AL01521	12/14/10 08:00 12/16/10 13:40 12/14/10 08:00 12/16/10 13:40	12/15/10 00:25 12/21/10 17:43 12/15/10 00:25 12/21/10 18:18	8260GRO 8015DRO 8260GRO 8015DRO	U
TPH as Gasoline Surrogate: Tetratetracontane Surrogate: Toluene-d8 Stevens Bridge (10L0567-04) Water TPH as Diesel TPH as Gasoline	ND Sampled: 12/10	50 104% 98.4% /10 10:05	50 27-124 76-129 Received: 12/10 50 50	" 0/10 15: ug/l "	1	AL01529 AL01521 AL01529 AL01521 AL01521 AL01529	12/14/10 08:00 12/16/10 13:40 12/14/10 08:00 12/16/10 13:40 12/14/10 08:00	12/15/10 00:25 12/21/10 17:43 12/15/10 00:25 12/21/10 18:18 12/15/10 00:59	8260GRO 8015DRO 8260GRO 8015DRO 8260GRO	U
TPH as Gasoline Surrogate: Tetratetracontane Surrogate: Toluene-d8  Stevens Bridge (10L0567-04) Water  TPH as Diesel TPH as Gasoline Surrogate: Tetratetracontane	ND Sampled: 12/10/ ND ND	50 104 % 98.4 % /10 10:05 1 50 50 109 % 98.8 %	50 27-124 76-129 <b>Received: 12/10</b> 50 50 27-124 76-129	" 0/10 15: ug/l	1 "	AL01529 AL01521 AL01529 AL01521 AL01521	12/14/10 08:00 12/16/10 13:40 12/14/10 08:00 12/16/10 13:40 12/14/10 08:00 12/16/10 13:40	12/15/10 00:25 12/21/10 17:43 12/15/10 00:25 12/21/10 18:18 12/15/10 00:59 12/21/10 18:18	8260GRO 8015DRO 8260GRO 8015DRO 8260GRO 8015DRO	U
TPH as Gasoline Surrogate: Tetratetracontane Surrogate: Toluene-d8 Stevens Bridge (10L0567-04) Water TPH as Diesel TPH as Gasoline Surrogate: Tetratetracontane Surrogate: Toluene-d8	ND Sampled: 12/10/ ND ND	50 104 % 98.4 % /10 10:05 1 50 50 109 % 98.8 %	50 27-124 76-129 <b>Received: 12/10</b> 50 50 27-124 76-129	" 0/10 15: ug/l	1 "	AL01529 AL01521 AL01529 AL01521 AL01521	12/14/10 08:00 12/16/10 13:40 12/14/10 08:00 12/16/10 13:40 12/14/10 08:00 12/16/10 13:40	12/15/10 00:25 12/21/10 17:43 12/15/10 00:25 12/21/10 18:18 12/15/10 00:59 12/21/10 18:18	8260GRO 8015DRO 8260GRO 8015DRO 8260GRO 8015DRO	U
TPH as Gasoline Surrogate: Tetratetracontane Surrogate: Toluene-d8 Stevens Bridge (10L0567-04) Water TPH as Diesel TPH as Gasoline Surrogate: Tetratetracontane Surrogate: Toluene-d8 Gordon Slough (10L0567-05) Water	ND Sampled: 12/10 ND ND Sampled: 12/10	50 104 % 98.4 % /10 10:05 1 50 50 109 % 98.8 % /10 09:45	50 27-124 76-129 Received: 12/10 50 50 27-124 76-129 Received: 12/1	"" 0/10 15: ug/l " 0/10 15	1 "	AL01529 AL01521 AL01529 AL01521 AL01521 AL01521 AL01529	12/14/10 08:00 12/16/10 13:40 12/14/10 08:00 12/16/10 13:40 12/14/10 08:00 12/16/10 13:40 12/14/10 08:00	12/15/10 00:25 12/21/10 17:43 12/15/10 00:25 12/21/10 18:18 12/15/10 00:59 12/21/10 18:18 12/15/10 00:59	8260GRO 8015DRO 8260GRO 8015DRO 8260GRO 8015DRO 8260GRO	U
TPH as Gasoline Surrogate: Tetratetracontane Surrogate: Toluene-d8 Stevens Bridge (10L0567-04) Water TPH as Diesel TPH as Gasoline Surrogate: Tetratetracontane Surrogate: Toluene-d8 Gordon Slough (10L0567-05) Water TPH as Diesel	ND Sampled: 12/10 ND ND ND Sampled: 12/10	50 104 % 98.4 % /10 10:05 1 50 50 109 % 98.8 % /10 09:45	50 27-124 76-129 Received: 12/10 50 50 27-124 76-129 Received: 12/1	0/10 15: ug/l "	1 " :10 1	AL01529 AL01521 AL01529 AL01521 AL01521 AL01529 AL01521	12/14/10 08:00 12/16/10 13:40 12/14/10 08:00 12/16/10 13:40 12/14/10 08:00 12/16/10 13:40 12/14/10 08:00	12/15/10 00:25 12/21/10 17:43 12/15/10 00:25 12/21/10 18:18 12/15/10 00:59 12/21/10 18:18 12/15/10 00:59	8260GRO 8015DRO 8260GRO 8015DRO 8260GRO 8015DRO 8260GRO	U U U

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 12/28/2010



e-mail: clientservices@alpha-labs.com

Reported:

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Tami Leathers Yolo County Natural Resources Division

Project: Surface Water 625 Court Street Room B03 Project Number: Surface Water 12/28/10 13:21

#### TPH by EPA/LUFT GC/GCMS Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
I-5 Bridge (10L0567-06) Water San	npled: 12/10/10 11	:05 Recei	ived: 12/10/10 1	15:10						
TPH as Diesel	97	50	50	ug/l	1	AL01521	12/16/10 13:40	12/21/10 19:27	8015DRO	D-18
TPH as Gasoline	ND	50	50	"	"	AL01529	12/14/10 08:00	12/15/10 02:07	8260GRO	U
Surrogate: Tetratetracontane		118 %	27-124			AL01521	12/16/10 13:40	12/21/10 19:27	8015DRO	
Surrogate: Toluene-d8		98.0 %	76-129			AL01529	12/14/10 08:00	12/15/10 02:07	8260GRO	
Robbins (R Site) (10L0567-07) Water	Sampled: 12/10	0/10 10:20	Received: 12/	10/10	15:10					
TPH as Diesel	ND	50	50	ug/l	1	AL01521	12/16/10 13:40	12/21/10 20:02	8015DRO	U
TPH as Gasoline	ND	50	50	"	"	AL01529	12/14/10 08:00	12/15/10 02:41	8260GRO	U
Surrogate: Tetratetracontane		99.2 %	27-124			AL01521	12/16/10 13:40	12/21/10 20:02	8015DRO	
Surrogate: Toluene-d8		98.4 %	76-129			AL01529	12/14/10 08:00	12/15/10 02:41	8260GRO	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

12/28/2010 Bruce L. Gove

Page 10 of 37 Laboratory Director



625 Court Street Room B03

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ulkiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Tami Leathers
Yolo County Natural Resources Division Project: Surface Water

Project Number: Surface Water

Reported: 12/28/10 13:21

#### Glyphosate by EPA Method 547 Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Brooks (B Site) (10L0567-01) Water	Sampled: 12/10/1	0 00:00 Re	ceived: 12/1	10/10 15	:10					
Glyphosate	ND	3.0	10	ug/l	1	AL01405	12/14/10 09:42	12/14/10 19:49	EPA 547	U
Capay Bridge (10L0567-02) Water	Sampled: 12/10/10	08:16 Reco	eived: 12/10	)/10 15:1	10					
Glyphosate	ND	3.0	10	ug/l	1	AL01405	12/14/10 09:42	12/14/10 20:21	EPA 547	U
Upstream Gordon (10L0567-03) Wat	er Sampled: 12/1	0/10 09:10	Received: 1	12/10/10	15:10					
Glyphosate	ND	3.0	10	ug/l	1	AL01405	12/14/10 09:42	12/14/10 20:54	EPA 547	U
Stevens Bridge (10L0567-04) Water	Sampled: 12/10/1	0 10:05 Red	ceived: 12/1	0/10 15:	:10					
Glyphosate	ND	3.0	10	ug/l	1	AL01405	12/14/10 09:42	12/14/10 21:27	EPA 547	U
Gordon Slough (10L0567-05) Water	Sampled: 12/10/1	0 09:45 Re	ceived: 12/1	10/10 15	:10					
Glyphosate	ND	3.0	10	ug/l	1	AL01405	12/14/10 09:42	12/14/10 22:33	EPA 547	U
I-5 Bridge (10L0567-06) Water San	npled: 12/10/10 11:	05 Receive	d: 12/10/10	15:10						
Glyphosate	ND	3.0	10	ug/l	1	AL01405	12/14/10 09:42	12/14/10 23:06	EPA 547	U
Robbins (R Site) (10L0567-07) Water	Sampled: 12/10	/10 10:20 R	eceived: 12	/10/10 1	5:10					
Glyphosate	ND	3.0	10	ug/l	1	AL01405	12/14/10 09:42	12/14/10 23:38	EPA 547	U

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 12/28/2010



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ulkiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Tami Leathers
Yolo County Natural Resources Division Project: Surface Water

Yolo County Natural Resources Division Project: Surface Water
625 Court Street Room B03 Project Number: Surface Water

Reported: 12/28/10 13:21

### Chlorinated Herbicides by EPA Method 8151A Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Brooks (B Site) (10L0567-01) Water	Sampled: 12/10	/10 00:00	Received: 12/1	0/10 15	:10					
2,4-D	ND	0.60	1.0	ug/l	1	AL01415	12/15/10 14:00	12/23/10 04:44	EPA 8151A	U
2,4-DB	ND	2.0	5.0	"	"	"	"	"	"	U
2,4,5-T	ND	0.20	0.50	"	"	"	"	"	"	U
2,4,5-TP (Silvex)	ND	0.20	0.50	"	"	"	"	"	"	U
Dalapon	ND	0.60	6.0	"	"	"	"	"	"	U
Dicamba	ND	0.060	0.40	"	"	"	"	"	"	U
Dinoseb	ND	0.40	1.0	"	"	"	"	"	"	U
MCPA	ND	100	300	"	"	"	"	"	"	U
MCPP	ND	90	300	"	"	"	"	"	"	U
Dichlorprop	ND	0.50	1.0	"	"	"	"	"	"	U
Pentachlorophenol	ND	0.070	0.20	"	"	"	"	"	"	U
Picloram	ND	0.80	1.0	"	"	"	"	"	"	U
Surrogate: DCAA		94.2 %	62-124			"	"	"	"	
Capay Bridge (10L0567-02) Water	Sampled: 12/10/1	10 08:16 F	Received: 12/10	/10 15:1	.0					
2,4-D	ND	0.60	1.0	ug/l	1	AL01415	12/15/10 14:00	12/23/10 05:21	EPA 8151A	U
2,4-DB	ND	2.0	5.0	"	"	"	"	"	"	U
2,4,5-T	ND	0.20	0.50	"	"	"	"	"	"	U
2,4,5-TP (Silvex)	ND	0.20	0.50	"	"	"	"	"	"	U
Dalapon	ND	0.60	6.0	"	"	"	"	"	"	U
Dicamba	ND	0.060	0.40	"	"	"	"	"	"	U
Dinoseb	ND	0.40	1.0	"	"	"	"	"	"	U
MCPA	ND	100	300	"	"	"	"	"	"	U
MCPP	ND	90	300	"	"	"	"	"	"	U
Dichlorprop	ND	0.50	1.0	"	"	"	"	"	"	U
Pentachlorophenol	ND	0.070	0.20	"	"	"	"	"	"	U
Picloram	ND	0.80	1.0	"	"	"	"	"	"	U
Surrogate: DCAA		93.6 %	62-124			"	"	"	"	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove

Laboratory Director Page 12 of 37

12/28/2010



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ulkiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Tami Leathers
Yolo County Natural Resources Division Project: Surface Water

Yolo County Natural Resources DivisionProjectSurface WaterReported:625 Court Street Room B03Project Number:Surface Water12/28/10 13:21

### Chlorinated Herbicides by EPA Method 8151A Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Upstream Gordon (10L0567-03) Water	Sampled: 1	2/10/10 09:10	Received: 12	2/10/10	15:10					
2,4-D	ND	0.60	1.0	ug/l	1	AL01415	12/15/10 14:00	12/23/10 05:58	EPA 8151A	U
2,4-DB	ND	2.0	5.0	"	"	"	"	"	"	U
2,4,5-T	ND	0.20	0.50	"	"	"	"	"	"	U
2,4,5-TP (Silvex)	ND	0.20	0.50	"	"	"	"	"	"	U
Dalapon	ND	0.60	6.0	"	"	"	"	"	"	U
Dicamba	ND	0.060	0.40	"	"	"	"	"	"	U
Dinoseb	ND	0.40	1.0	"	"	"	"	n n	"	U
MCPA	ND	100	300	"	"	"	"	"	"	U
MCPP	ND	90	300	"	"	"	"	"	"	U
Dichlorprop	ND	0.50	1.0	"	"	"	"	"	"	U
Pentachlorophenol	ND	0.070	0.20	"	"	"	"	"	"	U
Picloram	ND	0.80	1.0	"	"	"	"	"	"	U
Surrogate: DCAA		91.7 %	62-124			"	"	"	"	
Stevens Bridge (10L0567-04) Water Sa	ampled: 12/10	0/10 10:05 Re	ceived: 12/10	)/10 15:	10					
2,4-D	ND	0.60	1.0	ug/l	1	AL01415	12/15/10 14:00	12/23/10 06:35	EPA 8151A	U
2,4-DB	ND	2.0	5.0	"	"	"	"	"	"	U
2,4,5-T	ND	0.20	0.50	"	"	"	"	"	"	U
2,4,5-TP (Silvex)	ND	0.20	0.50	"	"	"	"	"	"	U
Dalapon	ND	0.60	6.0	"	"	"	"	"	"	U
Dicamba	ND	0.060	0.40	"	"	"	"	"	"	U
Dinoseb	ND	0.40	1.0	"	"	"	"	"	"	U
MCPA	ND	100	300	"	"	"	"	n n	"	U
MCPP	ND	90	300	"	"	"	"	"	"	U
Dichlorprop	ND	0.50	1.0	"	"	"	"	"	"	U
Pentachlorophenol	ND	0.070	0.20	"	"	"	"	"	"	U
Picloram	ND	0.80	1.0	"	"	"	"	"	"	U
Surrogate: DCAA		89.7 %	62-124			"	"	"	"	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 12/28/2010

Laboratory Director Page 13 of 37



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ulkiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Tami Leathers
Yolo County Natural Resources Division Project: Surface Water

Yolo County Natural Resources DivisionProjectSurface WaterReported:625 Court Street Room B03Project Number:Surface Water12/28/10 13:21

#### Chlorinated Herbicides by EPA Method 8151A Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gordon Slough (10L0567-05) Water	Sampled: 12/10	/10 09:45	Received: 12/1	0/10 15	:10					
2,4-D	ND	0.60	1.0	ug/l	1	AL01415	12/15/10 14:00	12/23/10 07:12	EPA 8151A	U
2,4-DB	ND	2.0	5.0	"	"	"	"	"	"	U
2,4,5-T	ND	0.20	0.50	"	"	"	"	"	"	U
2,4,5-TP (Silvex)	ND	0.20	0.50	"	"	"	"	"	"	U
Dalapon	ND	0.60	6.0	"	"	"	"	"	"	U
Dicamba	ND	0.060	0.40	"	"	"	"	"	"	U
Dinoseb	ND	0.40	1.0	"	"	"	"	"	"	U
MCPA	ND	100	300	"	"	"	"	"	"	U
MCPP	ND	90	300	"	"	"	"	"	"	U
Dichlorprop	ND	0.50	1.0	"	"	"	"	"	"	U
Pentachlorophenol	ND	0.070	0.20	"	"	"	"	"	"	U
Picloram	ND	0.80	1.0	"	"	"	"	"	"	U
Surrogate: DCAA		87.8 %	62-124	t		"	"	"	"	
I-5 Bridge (10L0567-06) Water San	npled: 12/10/10 1	1:05 Recei	ived: 12/10/10	15:10						
2,4-D	ND	0.60	1.0	ug/l	1	AL01415	12/15/10 14:00	12/23/10 07:49	EPA 8151A	U
2,4-DB	ND	2.0	5.0	"	"	"	"	"	"	U
2,4,5-T	ND	0.20	0.50	"	"	"	"	"	"	U
2,4,5-TP (Silvex)	ND	0.20	0.50	"	"	"	"	"	"	U
Dalapon	ND	0.60	6.0	"	"	"	"	"	"	U
Dicamba	ND	0.060	0.40	"	"	"	"	"	"	U
Dinoseb	ND	0.40	1.0	"	"	"	"	"	"	U
MCPA	ND	100	300	"	"	"	"	"	"	U
MCPP	ND	90	300	"	"	"	"	"	"	U
Dichlorprop	ND	0.50	1.0	"	"	"	"	"	"	U
Pentachlorophenol	ND	0.070	0.20	"	"	"	"	"	"	U
Picloram	ND	0.80	1.0	"	"	"	"	"	"	U
Surrogate: DCAA		84.6 %	62-124	1		"	"	"	"	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 12/28/2010



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ulkiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Tami Leathers

Yolo County Natural Resources DivisionProject:Surface WaterReported:625 Court Street Room B03Project Number:Surface Water12/28/10 13:21

#### Chlorinated Herbicides by EPA Method 8151A Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Robbins (R Site) (10L0567-07) Water	Sampled: 12/1	0/10 10:20	Received: 12/	10/10 1	5:10					
2,4-D	ND	0.60	1.0	ug/l	1	AL01415	12/15/10 14:00	12/23/10 08:26	EPA 8151A	U
2,4-DB	ND	2.0	5.0	"	"	"	"	"	"	U
2,4,5-T	ND	0.20	0.50	"	"	"	"	"	"	U
2,4,5-TP (Silvex)	ND	0.20	0.50	"	"	"	"	"	"	U
Dalapon	ND	0.60	6.0	"	"	"	"	"	"	U
Dicamba	ND	0.060	0.40	"	"	"	"	"	"	U
Dinoseb	ND	0.40	1.0	"	"	"	"	"	"	U
MCPA	ND	100	300	"	"	"	"	"	"	U
MCPP	ND	90	300	"	"	"	"	"	"	U
Dichlorprop	ND	0.50	1.0	"	"	"	"	"	"	U
Pentachlorophenol	ND	0.070	0.20	"	"	"	"	"	"	U
Picloram	ND	0.80	1.0	"	"	"	"	"	"	U
Surrogate: DCAA		85.9 %	62-124			"	"	"	"	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 12/28/2010

Laboratory Director Page 15 of 37



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ulkiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Tami Leathers
Yolo County Natural Resources Division Project: Surface Water

Yolo County Natural Resources DivisionProject:Surface WaterReported:625 Court Street Room B03Project Number:Surface Water12/28/10 13:21

# Organophosphorus Compounds by EPA Method 8141A Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Brooks (B Site) (10L0567-01) Water	Sampled: 12/10	/10 00:00	Received: 12/1	0/10 15:	:10					
Azinphos ethyl	ND	0.20	2.0	ug/l	1	AL01520	12/15/10 13:35	12/27/10 19:16	EPA 8141A	U
Azinphos methyl	ND	0.40	2.0	"	"	"	"	"	"	U
Bolstar	ND	0.20	1.0	"	"	"	"	"	"	U
Chlorpyrifos	ND	0.20	0.50	"	"	"	"	"	"	U
Coumaphos	ND	0.50	2.0	"	"	"	"	"	"	U
Demeton-o	ND	0.10	1.0	"	"	"	"	"	"	U
Demeton-s	ND	0.20	1.0	"	"	"	"	"	"	U
Diazinon	ND	0.30	0.50	"	"	"	"	"	"	U
Dichlorvos	ND	0.30	1.0	"	"	"	"	"	"	U
Dimethoate	ND	0.20	2.0	"	"	"	"	"	"	U
Disulfoton	ND	0.30	0.50	"	"	"	"	"	"	U
EPN	ND	0.30	1.0	"	"	"	"	"	"	U
Ethion	ND	0.30	0.50	"	"	"	"	"	"	U
Ethoprop (Ethoprophos)	ND	0.30	1.0	"	"	"	"	"	"	U
Famphur	ND	0.30	0.50	"	"	"	"	"	"	U
Fensulfothion	ND	0.40	2.0	"	"	"	"	"	"	U
Fenthion	ND	0.20	0.50	"	"	"	"	"	"	U
Malathion	ND	0.30	0.50	"	"	"	"	"	"	U
Mevinphos	ND	0.20	1.0	"	"	"	"	"	"	U
Parathion	ND	0.30	0.50	"	"	"	"	"	"	U
Parathion-methyl	ND	0.20	0.50	"	"	"	"	"	"	U
Phorate	ND	0.20	0.50	"	"	"	"	"	"	U
Ronnel	ND	0.20	0.50	"	"	"	"	"	"	U
Simazine	ND	0.30	0.50	"	"	"	"	"	"	U
Stirofos	ND	0.30	0.50	"	"	"	"	"	"	U
Thionazin	ND	0.20	1.0	"	"	"	"	"	"	U
Tokuthion (Prothiofos)	ND	0.20	1.0	"	"	"	"	"	"	U
Trichloronate	ND	0.30	1.0	"	"	"	"	"	"	U
Surrogate: Tributyl phosphate		91.0 %	32-159			"	"	"	"	
Surrogate: Triphenyl phosphate		124 %	42-167			"	"	"	"	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 12/28/2010



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ulkiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Tami Leathers
Yolo County Natural Resources Division Project: Surface Water

Yolo County Natural Resources DivisionProject:Surface WaterReported:625 Court Street Room B03Project Number:Surface Water12/28/10 13:21

# Organophosphorus Compounds by EPA Method 8141A Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Capay Bridge (10L0567-02) Water	Sampled: 12/10/1	10 08:16 Re	ceived: 12/10/	/10 15:1	0					
Azinphos ethyl	ND	0.20	2.0	ug/l	1	AL01520	12/15/10 13:35	12/27/10 20:26	EPA 8141A	U
Azinphos methyl	ND	0.40	2.0	"	"	"	"	"	"	U
Bolstar	ND	0.20	1.0	"	"	"	"	"	"	U
Chlorpyrifos	ND	0.20	0.50	"	"	"	"	"	"	U
Coumaphos	ND	0.50	2.0	"	"	"	"	"	"	U
Demeton-o	ND	0.10	1.0	"	"	"	"	"	"	U
Demeton-s	ND	0.20	1.0	"	"	"	"	"	"	U
Diazinon	ND	0.30	0.50	"	"	"	"	"	"	U
Dichlorvos	ND	0.30	1.0	"	"	"	"	"	"	U
Dimethoate	ND	0.20	2.0	"	"	"	"	"	"	U
Disulfoton	ND	0.30	0.50	"	"	"	"	"	"	U
EPN	ND	0.30	1.0	"	"	"	"	"	"	U
Ethion	ND	0.30	0.50	"	"	"	"	"	"	U
Ethoprop (Ethoprophos)	ND	0.30	1.0	"	"	"	"	"	"	U
Famphur	ND	0.30	0.50	"	"	"	"	"	"	U
Fensulfothion	ND	0.40	2.0	"	"	"	"	"	"	U
Fenthion	ND	0.20	0.50	"	"	"	"	"	"	U
Malathion	ND	0.30	0.50	"	"	"	"	"	"	U
Mevinphos	ND	0.20	1.0	"	"	"	"	"	"	U
Parathion	ND	0.30	0.50	"	"	"	"	"	"	U
Parathion-methyl	ND	0.20	0.50	"	"	"	"	"	"	U
Phorate	ND	0.20	0.50	"	"	"	"	"	"	U
Ronnel	ND	0.20	0.50	"	"	"	"	"	"	U
Simazine	ND	0.30	0.50	"	"	"	"	"	"	U
Stirofos	ND	0.30	0.50	"	"	"	"	"	"	U
Thionazin	ND	0.20	1.0	"	"	"	"	"	"	U
Tokuthion (Prothiofos)	ND	0.20	1.0	"	"	"	"	"	"	U
Trichloronate	ND	0.30	1.0	"	"	"	"	"	"	U
Surrogate: Tributyl phosphate		87.5 %	32-159			"	"	"	"	
Surrogate: Triphenyl phosphate		120 %	42-167			"	"	"	"	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 12/28/2010

Laboratory Director Page 17 of 37



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ulkiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Tami Leathers
Yolo County Natural Resources Division Project: Surface Water

Yolo County Natural Resources DivisionProject:Surface WaterReported:625 Court Street Room B03Project Number:Surface Water12/28/10 13:21

# Organophosphorus Compounds by EPA Method 8141A Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Upstream Gordon (10L0567-03) Water	Sampled: 12	2/10/10 09:10	Received: 1	2/10/10	15:10					
Azinphos ethyl	ND	0.20	2.0	ug/l	1	AL01520	12/15/10 13:35	12/27/10 21:36	EPA 8141A	U
Azinphos methyl	ND	0.40	2.0	"	"	"	"	"	"	U
Bolstar	ND	0.20	1.0	"	"	"	"	"	"	U
Chlorpyrifos	ND	0.20	0.50	"	"	"	"	"	"	U
Coumaphos	ND	0.50	2.0	"	"	"	"	"	"	U
Demeton-o	ND	0.10	1.0	"	"	"	"	"	"	U
Demeton-s	ND	0.20	1.0	"	"	"	"	"	"	U
Diazinon	ND	0.30	0.50	"	"	"	"	"	"	U
Dichlorvos	ND	0.30	1.0	"	"	"	"	"	"	U
Dimethoate	ND	0.20	2.0	"	"	"	"	"	"	U
Disulfoton	ND	0.30	0.50	"	"	"	"	"	"	U
EPN	ND	0.30	1.0	"	"	"	"	"	"	U
Ethion	ND	0.30	0.50	"	"	"	"	"	"	U
Ethoprop (Ethoprophos)	ND	0.30	1.0	"	"	"	"	"	"	U
Famphur	ND	0.30	0.50	"	"	"	"	"	"	U
Fensulfothion	ND	0.40	2.0	"	"	"	"	"	"	U
Fenthion	ND	0.20	0.50	"	"	"	"	"	"	U
Malathion	ND	0.30	0.50	"	"	"	"	"	"	U
Mevinphos	ND	0.20	1.0	"	"	"	"	"	"	U
Parathion	ND	0.30	0.50	"	"	"	"	"	"	U
Parathion-methyl	ND	0.20	0.50	"	"	"	"	"	"	U
Phorate	ND	0.20	0.50	"	"	"	"	"	"	U
Ronnel	ND	0.20	0.50	"	"	"	"	"	"	U
Simazine	ND	0.30	0.50	"	"	"	"	"	"	U
Stirofos	ND	0.30	0.50	"	"	"	"	"	"	U
Thionazin	ND	0.20	1.0	"	"	"	"	"	"	U
Tokuthion (Prothiofos)	ND	0.20	1.0	"	"	"	"	"	"	U
Trichloronate	ND	0.30	1.0	"	"	"	"	"	"	U
Surrogate: Tributyl phosphate		86.5 %	32-159			"	"	"	"	
Surrogate: Triphenyl phosphate		114 %	42-167			"	"	"	"	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 12/28/2010



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ulkiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Tami Leathers
Yolo County Natural Resources Division Project: Surface Water

Yolo County Natural Resources DivisionProject:Surface WaterReported:625 Court Street Room B03Project Number:Surface Water12/28/10 13:21

# Organophosphorus Compounds by EPA Method 8141A Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Stevens Bridge (10L0567-04) Water	Sampled: 12/10	/10 10:05	Received: 12/1	0/10 15:	10					
Azinphos ethyl	ND	0.20	2.0	ug/l	1	AL01520	12/15/10 13:35	12/27/10 22:45	EPA 8141A	U
Azinphos methyl	ND	0.40	2.0	"	"	"	"	"	"	U
Bolstar	ND	0.20	1.0	"	"	"	"	"	"	U
Chlorpyrifos	ND	0.20	0.50	"	"	"	"	"	"	U
Coumaphos	ND	0.50	2.0	"	"	"	"	"	"	U
Demeton-o	ND	0.10	1.0	"	"	"	"	"	"	U
Demeton-s	ND	0.20	1.0	"	"	"	"	"	"	U
Diazinon	ND	0.30	0.50	"	"	"	"	"	"	U
Dichlorvos	ND	0.30	1.0	"	"	"	"	"	"	U
Dimethoate	ND	0.20	2.0	"	"	"	"	"	"	U
Disulfoton	ND	0.30	0.50	"	"	"	"	"	"	U
EPN	ND	0.30	1.0	"	"	"	"	"	"	U
Ethion	ND	0.30	0.50	"	"	"	"	"	"	U
Ethoprop (Ethoprophos)	ND	0.30	1.0	"	"	"	"	"	"	U
Famphur	ND	0.30	0.50	"	"	"	"	"	"	U
Fensulfothion	ND	0.40	2.0	"	"	"	"	"	"	U
Fenthion	ND	0.20	0.50	"	"	"	"	"	"	U
Malathion	ND	0.30	0.50	"	"	"	"	"	"	U
Mevinphos	ND	0.20	1.0	"	"	"	"	"	"	U
Parathion	ND	0.30	0.50	"	"	"	"	"	"	U
Parathion-methyl	ND	0.20	0.50	"	"	"	"	"	"	U
Phorate	ND	0.20	0.50	"	"	"	"	"	"	U
Ronnel	ND	0.20	0.50	"	"	"	"	"	"	U
Simazine	ND	0.30	0.50	"	"	"	"	"	"	U
Stirofos	ND	0.30	0.50	"	"	"	"	"	"	U
Thionazin	ND	0.20	1.0	"	"	"	"	"	"	U
Tokuthion (Prothiofos)	ND	0.20	1.0	"	"	"	"	"	"	U
Trichloronate	ND	0.30	1.0	"	"	"	"	"	"	U
Surrogate: Tributyl phosphate		88.0 %	32-159	)		"	"	"	"	
Surrogate: Triphenyl phosphate		118 %	42-167	,		"	"	"	"	

12/28/2010

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ulkiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Tami Leathers
Yolo County Natural Resources Division Project: Surface Water

Yolo County Natural Resources DivisionProject:Surface WaterReported:625 Court Street Room B03Project Number:Surface Water12/28/10 13:21

# Organophosphorus Compounds by EPA Method 8141A Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gordon Slough (10L0567-05) Water	Sampled: 12/10	/10 09:45	Received: 12/1	0/10 15	:10					
Azinphos ethyl	ND	0.20	2.0	ug/l	1	AL01520	12/15/10 13:35	12/27/10 23:55	EPA 8141A	U
Azinphos methyl	ND	0.40	2.0	"	"	"	"	"	"	U
Bolstar	ND	0.20	1.0	"	"	"	"	"	"	U
Chlorpyrifos	ND	0.20	0.50	"	"	"	"	"	"	U
Coumaphos	ND	0.50	2.0	"	"	"	"	"	"	U
Demeton-o	ND	0.10	1.0	"	"	"	"	"	"	U
Demeton-s	ND	0.20	1.0	"	"	"	"	"	"	U
Diazinon	ND	0.30	0.50	"	"	"	"	"	"	U
Dichlorvos	ND	0.30	1.0	"	"	"	"	"	"	U
Dimethoate	ND	0.20	2.0	"	"	"	"	"	"	U
Disulfoton	ND	0.30	0.50	"	"	"	"	"	"	U
EPN	ND	0.30	1.0	"	"	"	"	"	"	U
Ethion	ND	0.30	0.50	"	"	"	"	"	"	U
Ethoprop (Ethoprophos)	ND	0.30	1.0	"	"	"	"	"	"	U
Famphur	ND	0.30	0.50	"	"	"	"	"	"	U
Fensulfothion	ND	0.40	2.0	"	"	"	"	"	"	U
Fenthion	ND	0.20	0.50	"	"	"	"	"	"	U
Malathion	ND	0.30	0.50	"	"	"	"	"	"	U
Mevinphos	ND	0.20	1.0	"	"	"	"	"	"	U
Parathion	ND	0.30	0.50	"	"	"	"	"	"	U
Parathion-methyl	ND	0.20	0.50	"	"	"	"	"	"	U
Phorate	ND	0.20	0.50	"	"	"	"	"	"	U
Ronnel	ND	0.20	0.50	"	"	"	"	"	"	U
Simazine	ND	0.30	0.50	"	"	"	"	"	"	U
Stirofos	ND	0.30	0.50	"	"	"	"	"	"	U
Thionazin	ND	0.20	1.0	"	"	"	"	"	"	U
Tokuthion (Prothiofos)	ND	0.20	1.0	"	"	"	"	"	"	U
Trichloronate	ND	0.30	1.0	"	"	"	"	"	"	U
Surrogate: Tributyl phosphate		80.0 %	32-159			"	"	"	"	
Surrogate: Triphenyl phosphate		114 %	42-167			"	"	"	"	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 12/28/2010



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ulkiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Tami Leathers
Yolo County Natural Resources Division Project: Surface Water

Yolo County Natural Resources DivisionProject:Surface WaterReported:625 Court Street Room B03Project Number:Surface Water12/28/10 13:21

# Organophosphorus Compounds by EPA Method 8141A Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
I-5 Bridge (10L0567-06) Water	Sampled: 12/10/10 11:05	Receiv	ved: 12/10/10 1	15:10						
Azinphos ethyl	ND	0.20	2.0	ug/l	1	AL01520	12/15/10 13:35	12/28/10 01:05	EPA 8141A	U
Azinphos methyl	ND	0.40	2.0	"	"	"	"	"	"	U
Bolstar	ND	0.20	1.0	"	"	"	"	"	"	U
Chlorpyrifos	ND	0.20	0.50	"	"	"	"	"	"	U
Coumaphos	ND	0.50	2.0	"	"	"	"	"	"	U
Demeton-o	ND	0.10	1.0	"	"	"	"	"	"	U
Demeton-s	ND	0.20	1.0	"	"	"	"	"	"	U
Diazinon	ND	0.30	0.50	"	"	"	"	"	"	U
Dichlorvos	ND	0.30	1.0	"	"	"	"	"	"	U
Dimethoate	ND	0.20	2.0	"	"	"	"	"	"	U
Disulfoton	ND	0.30	0.50	"	"	"	"	"	"	U
EPN	ND	0.30	1.0	"	"	"	"	"	"	U
Ethion	ND	0.30	0.50	"	"	"	"	"	"	U
Ethoprop (Ethoprophos)	ND	0.30	1.0	"	"	"	"	"	"	U
Famphur	ND	0.30	0.50	"	"	"	"	"	"	U
Fensulfothion	ND	0.40	2.0	"	"	"	"	"	"	U
Fenthion	ND	0.20	0.50	"	"	"	"	"	"	U
Malathion	ND	0.30	0.50	"	"	"	"	"	"	U
Mevinphos	ND	0.20	1.0	"	"	"	"	"	"	U
Parathion	ND	0.30	0.50	"	"	"	"	"	"	U
Parathion-methyl	ND	0.20	0.50	"	"	"	"	"	"	U
Phorate	ND	0.20	0.50	"	"	"	"	"	"	U
Ronnel	ND	0.20	0.50	"	"	"	"	"	"	U
Simazine	ND	0.30	0.50	"	"	"	"	"	"	U
Stirofos	ND	0.30	0.50	"	"	"	"	"	"	U
Thionazin	ND	0.20	1.0	"	"	"	"	"	"	U
Tokuthion (Prothiofos)	ND	0.20	1.0	"	"	"	"	"	"	U
Trichloronate	ND	0.30	1.0	"	"	"	"	"	"	U
Surrogate: Tributyl phosphate	9	0.0%	32-159			"	"	"	"	
Surrogate: Triphenyl phosphate		116%	42-167			"	"	"	"	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 12/28/2010

Laboratory Director Page 21 of 37



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Tami Leathers
Yolo County Natural Resources Division Project: Surface Water

Yolo County Natural Resources DivisionProject:Surface WaterReported:625 Court Street Room B03Project Number:Surface Water12/28/10 13:21

# Organophosphorus Compounds by EPA Method 8141A Alpha Analytical Laboratories, Inc.

			-							
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Robbins (R Site) (10L0567-07) Water	Sampled: 12/1	0/10 10:20	Received: 12/	10/10 1	5:10					
Azinphos ethyl	ND	0.20	2.0	ug/l	1	AL01520	12/15/10 13:35	12/28/10 02:15	EPA 8141A	U
Azinphos methyl	ND	0.40	2.0	"	"	"	"	"	"	U
Bolstar	ND	0.20	1.0	"	"	"	"	"	"	U
Chlorpyrifos	ND	0.20	0.50	"	"	"	"	"	"	U
Coumaphos	ND	0.50	2.0	"	"	"	"	"	"	U
Demeton-o	ND	0.10	1.0	"	"	"	"	"	"	U
Demeton-s	ND	0.20	1.0	"	"	"	"	"	"	U
Diazinon	ND	0.30	0.50	"	"	"	"	"	"	U
Dichlorvos	ND	0.30	1.0	"	"	"	"	"	"	U
Dimethoate	ND	0.20	2.0	"	"	"	"	"	"	U
Disulfoton	ND	0.30	0.50	"	"	"	"	"	"	U
EPN	ND	0.30	1.0	"	"	"	"	"	"	U
Ethion	ND	0.30	0.50	"	"	"	"	"	"	U
Ethoprop (Ethoprophos)	ND	0.30	1.0	"	"	"	"	"	"	U
Famphur	ND	0.30	0.50	"	"	"	"	"	"	U
Fensulfothion	ND	0.40	2.0	"	"	"	"	"	"	U
Fenthion	ND	0.20	0.50	"	"	"	"	"	"	U
Malathion	ND	0.30	0.50	"	"	"	"	"	"	U
Mevinphos	ND	0.20	1.0	"	"	"	"	"	"	U
Parathion	ND	0.30	0.50	"	"	"	"	"	"	U
Parathion-methyl	ND	0.20	0.50	"	"	"	"	"	"	U
Phorate	ND	0.20	0.50	"	"	"	"	"	"	U
Ronnel	ND	0.20	0.50	"	"	"	"	"	"	U
Simazine	ND	0.30	0.50	"	"	"	"	"	"	U
Stirofos	ND	0.30	0.50	"	"	"	"	"	"	U
Thionazin	ND	0.20	1.0	"	"	"	"	"	"	U
Tokuthion (Prothiofos)	ND	0.20	1.0	"	"	"	"	"	"	U
Trichloronate	ND	0.30	1.0	"	"	"	"	"	"	U
Surrogate: Tributyl phosphate		85.5 %	32-159	1		"	"	"	"	
Surrogate: Triphenyl phosphate		115 %	42-167	•		"	"	"	"	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Page 22 of 37

Bruce L. Gove 12/28/2010



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ulkiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Tami Leathers

Yolo County Natural Resources DivisionProject:Surface WaterReported:625 Court Street Room B03Project Number:Surface Water12/28/10 13:21

#### **Notes and Definitions**

>1600 >1600

D-18 The sample chromatographic pattern does not resemble the diesel standard used for calibration.

J Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).

OD-1 Odor described as "fishy"

OD-2 Odor described as "pond"

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

T-1 This sample was received outside recommended holding time.

T-3 Client did not specify sampling time.

U Analyte included in analysis, but not detected at or above MDL.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove

12/28/2010



2218 Railroad Avenue Redding, California 96001 fax 530.243.7494

voice 530.243.7234

3860 Morrow Lane, Suite F Chico, California 95928

voice 530.894.8966 fax 530.894.5143

December 29, 2010

Lab ID: 0120564

SHERI L. SPEAKS ALPHA ANALYTICAL LABS - UKIAH **208 MASON STREET UKIAH, CA 95482** RE: LL Hg 1631 10L0567

Dear SHERI L. SPEAKS,

Enclosed are the analysis results for Work Order number 0120564. All analysis were performed under strict adherence to our established Quality Assurance Plan. Any abnormalities are listed in the qualifier section of this report.

If you have any questions regarding these results, please feel free to contact us at any time. We appreciate the opportunity to service your environmental testing needs.

Sincerely,

Ricky D. Jensen **Laboratory Director** 

California ELAP Certification Number 1677



laboratory

www.basiclab.com

2218 Railroad Avenue

voice 530.243.7234 Redding, California 96001 fax 530.243.7494

3860 Morrow Lane, Suite F

voice 530.894.8966 fax 530.894.5143

Chico, California 95928

Lab No: 0120564 Reported:

12/29/10

Phone:

(707) 468-0401 P.O. #

Report To:

ALPHA ANALYTICAL LABS - UKIAH

208 MASON STREET

**UKIAH, CA 95482** 

SHERI L. SPEAKS Attention:

Project: LL Hg 1631 10L0567

metals - Total									
Analyte	Units	Results	Qualifier	MDL	RL	Method	Analyzed	Prepared	Batch
10L0567-01 BROOKS (B SITE) Wa	iter (01205	64-01) Sai	mpled:12/10/10	00:00	Received:12	/14/10 10:5	9		
Mercury	ng/l	0.22	J	0.20	0.50	EPA 1631E	12/28/10	12/28/10	B0L1368
10L0567-02 CAPAY BRIDGE Water	r (0120564	-02) Samp	oled:12/10/10 08	:16 Re	ceived:12/1	4/10 10:59			
Mercury	ng/l	8.51		0.20	0.50	EPA 1631E	12/28/10	12/28/10	B0L1368
10L0567-03 UPSTREAM GORDON	Water (012	20564-03)	Sampled:12/10/	10 09:10	Received	:12/14/10 1	0:59		
Mercury	ng/l	7.22		0.20	0.50	EPA 1631E	12/28/10	12/28/10	B0L1368
10L0567-04 STEVENS BRIDGE Wa	ter (01205	64-04) Sa	mpled:12/10/10	10:05	Received: 12	Z/14/10 10:	9		
Mercury	ng/l	6.87		0.20	0.50	EPA 1631E	12/28/10	12/28/10	B0L1368
10L0567-05 GORDON SLOUGH W	ater (01205	64-05) Sa	mpled:12/10/10	09:45	Received:12	2/14/10 10:	59		
Mercury	ng/l	3.51		0.20	0.50	EPA 1631E	12/28/10	12/28/10	B0L1368
10L0567-06 I-5 BRIDGE Water	(0120564-06	) Sampled	:12/10/10 11:05	Receiv	/ed:12/14/1	LO 10:59			
Mercury	ng/l	8.16		0.20	0.50	EPA 1631E	12/28/10	12/28/10	B0L1368
	ater (0120	564-07) Si	mpled:12/10/10	10:20	Received:1	2/14/10 10:	59		
Mercury	ng/l	6.81		0.20	0.50	EPA 1631E	12/28/10	12/28/10	B0L1368

Approved By

Basic Laboratory, Inc.

California ELAP Cert #1677 and #2718



laboratory

2218 Railroad Avenue Redding, California 96001 fax 530.243.7494

voice 530.243.7234

3860 Morrow Lane, Suite F Chico, California 95928

voice 530.894.8966 fax 530.894.5143

Report To:

ALPHA ANALYTICAL LABS - UKIAH

208 MASON STREET

UKIAH, CA 95482

SHERI L. SPEAKS Attention: Project: LL Hg 1631 10L0567

Lab No: Reported:

0120564 12/29/10 (707) 468-0401

Phone:

P.O. #

**Metals - Dissolved** 

Analyte	Units	Results	Qualifier	MDL	RL	Method	Analyzed	Prepared	Batch
10L0567-01 BROOKS (B SITE) Wa	ter (012	0564-01) Sa	mpled:12/10/10	00:00	Received:12	/14/10 10:5	9		
Mercury	ng/l	ND		0.20	0.50	EPA 1631E	12/22/10	12/20/10	B0L1208
10L0567-02 CAPAY BRIDGE Water	r (01205	64-02) Sam	pled:12/10/10 08	:16 Re	celved:12/1	4/10 10:59			
Mercury	ng/l	5.33		0.20	0.50	EPA 1631E	12/22/10	12/20/10	B0L1208
10L0567-03 UPSTREAM GORDON	Water (0	120564-03)	Sampled:12/10/:	LO 09:10	) Received	:12/14/10 1	0:59		
Mercury	ng/l	4.36		0.20	0.50	EPA 1631E	12/22/10	12/20/10	B0L1208
10L0567-04 STEVENS BRIDGE Wa	rter (012	0564-04) Sa	mpled:12/10/10 :	10:05	Received:12	/14/10 10:5	9		
Mercury	ng/i	4.31		0.20	0.50	EPA 1631E	12/22/10	12/20/10	B0L1208
10L0567-05 GORDON SLOUGH W	ater (012	0564-05) Sa	mpled:12/10/10	09:45	Received:12	2/14/10 10:	59		
Mercury	ng/l	0.93		0.20	0.50	EPA 1631E	12/22/10	12/20/10	B0L1208
10L0567-06 I-5 BRIDGE Water	(0120564-	06) Sampled	:12/10/10 11:05	Receiv	/ed:12/14/1	0 10:59			
Mercury	ng/l	4.27		0.20	0.50	EPA 1631E	12/22/10	12/20/10	B0L1208
10L0567-07 RÖBBINS (R SITE) W	ater (01	20564-07) S	ampled:12/10/10	10:20	Received:1	2/14/10 10:	59		
Mercury	ng/i	4.14		0.20	0.50	EPA 1631E	12/22/10	12/20/10	B0L1208

Approvéd By

Basic Laboratory, Inc. California ELAP Cert #1677 and #2718

Page 3 of 5



2218 Railroad Avenue Redding, California 96001 fax 530.243.7494

voice 530.243,7234

3860 Morrow Lane, Suite F Chico, California 95928

voice 530.894.8966 fax 530.894.5143

Report To:

ALPHA ANALYTICAL LABS - UKIAH

208 MASON STREET

UKIAH, CA 95482

Attention: Project:

SHERI L. SPEAKS LL Hg 1631 10L0567

Lab No: Reported:

0120564 12/29/10

Phone:

(707) 468-0401

P.O. #

### **Quality Control Data**

Analyte		Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
				Metals - T							
Batch B0L1368 - B	rCI Digestion						· · · · · · · · · · · · · · · · · · ·				
Biank					<del></del>						
Mercury		ND	0.50	ng/l							
Blank											
Mercury		ND	0.50	ng/l							
LCS						·					
Mercury	T	21.8	0.50	ng/i	20.0		109	84.1-120			
LCS			,								
Mercury		20.4	0.50	ng/l	20.0		102	84.1-120			
Matrix Spike	Source: 0120564-02										
Mercury		25.9	0.50	ng/l	20.0	8.51	87.0	74.3-125	<del> </del>		·
Matrix Spike	Source: 0120457-01		-								
Mercury		20.5	0.50	ng/i	20.0	1.23	96.1	74.3-125			
Matrix Spike	Source: 0120398-02			<del></del>			·				
Mercury		20.3	0.50	ng/i	20.0	ND	101	74.3-125			
Matrix Spike	Source: 0120613-02								,		
Mercury		20.8	0.50	ng/l	20.0	0.895	99.7	74.3-125			
Matrix Spike Dup	Source: 0120564-02		-							-	
Mercury		26.1	0.50	ng/l	20.0	8.51	87.8	74.3-125	0.627	24	
Matrix Spike Dup	Source: 0120457-01										
Mercury		20.4	0.50	ng/l	20.0	1.23	95.8	74.3-125	0.284	24	
Matrix Spike Dup	Source: 0120398-02		· · · · · · · · · · · · · · · · · · ·					•			
Mercury		19.9	0.50	ng/l	20.0	ND	99.3	74.3-125	1.95	24	_
Matrix Spike Dup	Source: 0120613-02								***************************************		
Mercury		20.2	0.50	ng/l	20.0	0.895	96.6	74.3-125	3.08	24	
•			Me	etals - Dise	solved						
Batch B0L1208 - B	rCl Digestion										
Blank											
Mercury		ND	0.50	ng/l							
Blank											
Mercury		ND	0.50	ng/l			,				
LCS							***************************************				
Mercury		19.5		ng/l	20.0		97.3	84,1-120		<del></del>	<del></del>
LCS				<del></del>							
Mercury		19.0		ng/l	20.0		94.9	84.1-120			
Matrix Spike	Source: 0120564-02										
Mercury		23.4	0.50	ng/l	20.0	5.33	90.1	74.3-125	•		
Matrix Spike	Source: 0120269-09										

Basic Laboratory, Inc.

California ELAP Cert #1677 and #2718



2218 Railroad Avenue Redding, California 96001

voice 530.243.7234 fax 530.243.7494

3860 Morrow Lane, Suite F Chico, California 95928

voice 530.894.8966 fax 530.894.5143

Report To:

ALPHA ANALYTICAL LABS - UKIAH

208 MASON STREET

**UKIAH, CA 95482** 

Attention: Project:

SHERI L. SPEAKS LL Hg 1631 10L0567

Lab No: Reported:

0120564 12/29/10

Phone:

(707) 468-0401

P.O. #

#### **Quality Control Data**

Analyte		Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	0
7 0 10 17 00		Nesuit	NL .	UIIG	revei	Kesuit	70KEC	Limits	KPU	LIMIL	Qualifier
			Me	etals - Dis	solved						
Batch BOL1208 - B	rCl Digestion										,,,,,
Mercury		23.3	0.50	rig/l	20.0	4.94	91.7	74.3-125			
Matrix Spike	Source: 0120269-24										
Mercury	, , , , , , , , , , , , , , , , , , , ,	21.0	0.50	ng/l	20.0	3.16	89.3	74.3-125			
Matrix Spike Dup	Source: 0120564-02				* ****						
Mercury		23.9	0.50	ng/l	20.0	5.33	93.0	74.3-125	2.41	24	
Matrix Spike Dup	Source: 0120269-09										
Mercury		22.8	0.50	ng/l	20.0	4.94	89.1	74.3-125	2.19	24	
Matrix Spike Dup	Source: 0120269-24										
Mercury	191 51 51 51 51 51 51 51 51 51 51 51 51 51	22.0	0.50	ng/l	20.0	3.16	94.1	74.3-125	4,46	24	

#### **Notes and Definitions**

3	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag). The J flag is equivalent to the DNQ Estimated Concentration flag.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the detection limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference < Less than reporting limit

Less than or equal to reporting limit ≤

Greater than reporting limit

≥ Greater than or equal to reporting limit

MDL Method Detection Limit RL/ML Minimum Level of Quantitation Maxium Contaminant Level/Action Level MCL/AL mg/kg Results reported as wet weight

TTLC Total Threshold Limit Concentration STLC Soluble Threshold Limit Concentration TCLP

Toxicity Characteristic Leachate Procedure

Approved By

Basic Laboratory, Inc.

California ELAP Cert #1677 and #2718

Page 5 of 5

Report to:

& Corporate: Laboratory

Service Center & Micro Lab:

6398 Dougherty Rd, Ste 35, Dublin, CA 94568 925-828-6226 Fax: 925-828-6309

208 Mason Street, Ukiah, CA 95482 707-468-0401 Fax: 707-468-5267

Chain of Custody Record

Reports and Invoices will be delivered by email in .pdf format.

Page Lab No.

Report to:	Invoice to (if different):	pt).					l						,	5
Company:	Company:		Project In:	ior keport			Sig	nature b	elow au	horizes	work un	der terms	Signature below authorizes work under terms stated on reverse side.	verse side.
Yolo County Natural Resources Division			SURFA	SURFACE WATER			, ,		Ć			-		Sample
Tami Leathers	Attn:		<u> </u>				₹	alyse	Analyses Kequested	Jested			FAT STAT	
Address:	Address					٥		L	L	L	F	<u> </u>	T	1
625 Court Street Room B03			Project No:										Sing of the state	Temperature:
Woodland CA 95695					ę	чис						_		
530.406.5773 / 530.661.3466	Phone/Fax:				uote	'N :		sən		(31)				27
Email Address:	Consult And Annual		PO/Reference:		isti			חוכונ		OQ 1		_	nbe	
tami.leathers@yolocounty.org	cman Address:				uoc	ON				g) Je			_	Shipment
Samplers Signature:		Container:	Preservative:	e: Matrix	10 '	,N se	KN	8121	_	:C B	(ois	leit i	O	
					ıəqu	: EOI	ΤN				68) I		Other:	
Print:		sək	_				98	_	_	_	eĵo <sup>-</sup>	ssi	_	Custody
Sample	Sampled:		\$C		/ let	oO ,n	sinor				т ен	д бн	)	N / Y
dentification	e	Poly Amb IdQ	ОГР61 HS20 HИО HCГ	Mone Vyate Soil	ioT:		nmA	) / <b>†</b> 9	Hq1 Hq1	nono£ oilloC	169		Sample	Sample Notes or
Brooks (B Site)	12 m	4 3 9 2 1	×		ģ	╀	╋			-			DPH Sou	CDPH Source Númbers;
Capay Bridge	8.11.5	3 0 0	上	( )	+		×   ×	×	×	×	×	×	include	include MDL j-flags
Upstream Gordon	-	0		<b>\</b>	-+	×	× ×	×	×	×	×	×	include	include MDL i-flags
Stevens Bridge	٦,	7 8 0	×	×	19	×	×	×	×	×	×	×	include A	include MDI i-flage
	0.05	3 9 2 1	×××	×	19	×	×	×	×	×	×	×	A Charles	10 in
Gordon Slough	9:45 4	3 9 2 1	×××	×	19	×	×	ţ	┿	╀	+-			HICHAGE INIDIT J-TIAGS
I-5 Bridge	100	3 9 2 1	×	     	+	┿	┿	┿	+-	<u> </u>	×	_   ×	Include N	include MDL j-flags
Robbins (R Site)	1 40.41	0 0	1,	( )	+	×	×	×	×	×	×	×	include N	include MDL j-flags
	_	,	<	×	× S	×	×	×	×	×	×		nclude N	include MDL j-flags
					_	1					_	_		
							•							
Relinguished by:							_			-	+-			
	Received hy:				Date:		Time:							S. M. Company of the
100 00 00 00 00 00 00 00 00 00 00 00 00	X	nelle	FOR	7	11/9/	12.37	3/5							
Som of the second	Jan	M		1		<del> </del>	0,1							ff 77 debete enter des Services formations de 1
					J									
								₫ 3	CA Geotracker EDF Report?		Repor	2	<b>.</b>	2 ● \$
								Global ID EDF to (E)	Globel (D. EDF to (Emel Address)	<b>*</b>		Sampling (	Sempling Compeny Log Code:	•
								Travel and	Travel and Site Time:		Mileage:		Misc. Supplies	



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

30 March 2011

Yolo County Natural Resources Division

Attn: Tami Leathers

625 Court Street Room B03

Woodland, CA 95695

RE: Surface Water

Work Order: 11C0790

Enclosed are the results of analyses for samples received by the laboratory on 03/16/11 21:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For David S. Pingatore

Jeanette Popli

Project Manager



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Tami Leathers

Yolo County Natural Resources DivisionProject:Surface WaterReported:625 Court Street Room B03Project Number:Surface Water03/30/11 14:42

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Brooks (B Site)	11C0790-01	Water	03/16/11 08:05	03/16/11 21:10
Capay Bridge	11C0790-02	Water	03/16/11 08:32	03/16/11 21:10
Upstream Gordon	11C0790-03	Water	03/16/11 09:25	03/16/11 21:10
Stevens Bridge	11C0790-04	Water	03/16/11 10:40	03/16/11 21:10
Gordon Slough	11C0790-05	Water	03/16/11 09:55	03/16/11 21:10
I-5 Bridge	11C0790-06	Water	03/16/11 11:22	03/16/11 21:10
Robbins (R Site)	11C0790-07	Water	03/16/11 11:32	03/16/11 21:10

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 3/30/2011



625 Court Street Room B03

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Tami Leathers
Yolo County Natural Resources Division Project: Surface Water

Project Number: Surface Water

Reported: 03/30/11 14:42

### Metals by EPA 200 Series Methods Alpha Analytical Laboratories, Inc.

	_		Reporting	,						
Analyte	Result	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Brooks (B Site) (11C0790-01) Water	Sampled: 03/16/11	1 08:05	Received: 03/	16/11 21	:10					
Boron	0.015	0.010	0.050	mg/l	1	AC11816	03/18/11 10:46	03/21/11 14:38	EPA 200.7	J
Capay Bridge (11C0790-02) Water	Sampled: 03/16/11	08:32 F	Received: 03/16	5/11 21:	10					
Boron	1.1	0.010	0.050	mg/l	1	AC11816	03/18/11 10:46	03/21/11 14:42	EPA 200.7	
Upstream Gordon (11C0790-03) Water	er Sampled: 03/10	6/11 09:2	25 Received: 0	03/16/11	21:10					
Boron	1.2	0.010	0.050	mg/l	1	AC11816	03/18/11 10:46	03/21/11 14:46	EPA 200.7	
Stevens Bridge (11C0790-04) Water	Sampled: 03/16/11	10:40	Received: 03/1	6/11 21:	:10					
Boron	1.1	0.010	0.050	mg/l	1	AC11816	03/18/11 10:46	03/21/11 14:49	EPA 200.7	
Gordon Slough (11C0790-05) Water	Sampled: 03/16/11	1 09:55	Received: 03/	16/11 21	:10					
Boron	1.1	0.010	0.050	mg/l	1	AC11816	03/18/11 10:46	03/21/11 14:53	EPA 200.7	
I-5 Bridge (11C0790-06) Water Sam	ıpled: 03/16/11 11:2	22 Rece	ived: 03/16/11	21:10						
Boron	1.1	0.010	0.050	mg/l	1	AC11816	03/18/11 10:46	03/21/11 15:07	EPA 200.7	
Robbins (R Site) (11C0790-07) Water	Sampled: 03/16/	11 11:32	Received: 03	/16/11 2	1:10					
Boron	1.1	0.010	0.050	mg/l	1	AC11816	03/18/11 10:46	03/21/11 15:11	EPA 200.7	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 3/30/2011

Laboratory Director Page 2 of 39



e-mail: clientservices@alpha-labs.com

Reported:

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Tami Leathers
Yolo County Natural Resources Division Project: Surface Water

Yolo County Natural Resources Division Project: Surface Water
625 Court Street Room B03 Project Number: Surface Water

# Project Number: Surface Water 03/30/11 14:42 Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Brooks (B Site) (11C0790-01) Water	Sampled: 03/16/	/11 08:05 R	eceived: 03/	16/11 21	:10					
Ammonia as N	ND	0.060	0.20	mg/l	1	AC11815	03/18/11 10:44	03/18/11 16:00	SM4500NH3C	U
Color	3.0	3.0	5.0	Color Units	"	AC11727	03/16/11 18:00	03/16/11 18:00	SM2120B	J
Odor	ND		1.0	T.O.N.	"	"	03/16/11 18:30	03/16/11 18:30	EPA 140.1	U
Total Dissolved Solids	6.0	4.2	10	mg/l	"	AC12134	03/21/11 07:11	03/23/11 08:22	SM2540C	J
Total Kjeldahl Nitrogen	0.10	0.10	1.0	"	"	AC11802	03/18/11 06:11	03/21/11 08:31	SM4500-No B	J
Total Suspended Solids	0.80	0.30	1.0	"	"	AC12232	03/22/11 10:12	03/24/11 10:48	SM2540D	J
Capay Bridge (11C0790-02) Water	Sampled: 03/16/1	1 08:32 Re	ceived: 03/1	6/11 21:1	10					
Ammonia as N	0.10	0.060	0.20	mg/l	1	AC11815	03/18/11 10:44	03/18/11 16:00	SM4500NH3 C	J
Color	75	15	25	Color Units	5	AC11727	03/16/11 18:00	03/16/11 18:00	SM2120B	
Odor	4.0		1.0	T.O.N.	1	"	03/16/11 18:30	03/16/11 18:30	EPA 140.1	
Total Dissolved Solids	180	4.2	10	mg/l	"	AC12134	03/21/11 07:11	03/23/11 08:22	SM2540C	
Total Kjeldahl Nitrogen	1.5	0.10	1.0	"	"	AC11802	03/21/11 06:11	03/21/11 08:31	SM4500-No B	
<b>Total Suspended Solids</b>	540	0.30	1.0	"	"	AC12232	03/22/11 10:12	03/24/11 10:48	SM2540D	
Upstream Gordon (11C0790-03) Wat	er Sampled: 03	/16/11 09:25	Received:	03/16/11	21:10					
Ammonia as N	0.10	0.060	0.20	mg/l	1	AC11815	03/18/11 10:44	03/18/11 16:00	SM4500NH3 C	J
Color	20	6.0	10	Color Units	2	AC11727	03/16/11 18:00	03/16/11 18:00	SM2120B	
Odor	2.0		1.0	T.O.N.	1	"	03/16/11 18:30	03/16/11 18:30	EPA 140.1	
<b>Total Dissolved Solids</b>	200	4.2	10	mg/l	"	AC12134	03/21/11 07:11	03/23/11 08:22	SM2540C	
Total Kjeldahl Nitrogen	1.4	0.10	1.0	"	"	AC11802	03/21/11 06:11	03/21/11 08:31	SM4500-No B	
<b>Total Suspended Solids</b>	430	0.30	1.0	"	"	AC12232	03/22/11 10:12	03/24/11 10:48	SM2540D	
Stevens Bridge (11C0790-04) Water	Sampled: 03/16/	11 10:40 R	eceived: 03/	16/11 21:	:10					

Alpha Analytical Laboratories, Inc.

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 3/30/2011

Laboratory Director Page 3 of 39



e-mail: clientservices@alpha-labs.com

Reported:

03/30/11 14:42

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Project Manager: Tami Leathers Woodland CA, 95695 Yolo County Natural Resources Division Project: Surface Water

Project Number: Surface Water 625 Court Street Room B03

### Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Stevens Bridge (11C0790-04) Water	Sampled: 03/16/	11 10:40	Received: 03/	16/11 21:	:10					
Ammonia as N	0.10	0.060	0.20	mg/l	1	AC11815	03/18/11 10:44	03/18/11 16:00	SM4500NH3 C	J
Color	20	6.0	10	Color Units	2	AC11727	03/16/11 18:00	03/16/11 18:00	SM2120B	
Odor	2.0		1.0	T.O.N.	1	"	03/16/11 18:30	03/16/11 18:30	EPA 140.1	
<b>Total Dissolved Solids</b>	210	4.2	10	mg/l	"	AC12134	03/21/11 07:11	03/23/11 08:22	SM2540C	
Total Kjeldahl Nitrogen	1.5	0.10	1.0	"	"	AC11802	03/21/11 06:11	03/21/11 08:31	SM4500-No B	
<b>Total Suspended Solids</b>	550	0.30	1.0	"	"	AC12232	03/22/11 10:12	03/24/11 10:48	SM2540D	
Gordon Slough (11C0790-05) Water	Sampled: 03/16/	11 09:55	Received: 03/	16/11 21	:10					
Ammonia as N	0.10	0.060	0.20	mg/l	1	AC11815	03/18/11 10:44	03/18/11 16:00	SM4500NH3 C	J
Color	25	15	25	Color Units	5	AC11727	03/16/11 18:00	03/16/11 18:00	SM2120B	
Odor	4.0		1.0	T.O.N.	1	"	03/16/11 18:30	03/16/11 18:30	EPA 140.1	
Total Dissolved Solids	320	4.2	10	mg/l	"	AC12134	03/21/11 07:11	03/23/11 08:22	SM2540C	
Total Kjeldahl Nitrogen	1.2	0.10	1.0	"	"	AC11802	03/21/11 06:11	03/22/11 08:31	SM4500-No B	
<b>Total Suspended Solids</b>	32	0.30	1.0	"	"	AC12232	03/22/11 10:12	03/24/11 10:48	SM2540D	
I-5 Bridge (11C0790-06) Water San	npled: 03/16/11 11	:22 Rece	ived: 03/16/11	21:10						
Ammonia as N	0.39	0.060	0.20	mg/l	1	AC11815	03/18/11 10:44	03/18/11 16:00	SM4500NH3 C	
Color	50	15	25	Color Units	5	AC11727	03/16/11 18:00	03/16/11 18:00	SM2120B	
Odor	4.0		1.0	T.O.N.	1	"	03/16/11 18:30	03/16/11 18:30	EPA 140.1	
<b>Total Dissolved Solids</b>	180	4.2	10	mg/l	"	AC12134	03/21/11 07:11	03/23/11 08:22	SM2540C	
Total Kjeldahl Nitrogen	1.7	0.10	1.0	"	"	AC11802	03/21/11 06:11	03/22/11 08:31	SM4500-No B	
<b>Total Suspended Solids</b>	760	0.30	1.0	"	"	AC12232	03/22/11 10:12	03/24/11 10:48	SM2540D	
Robbins (R Site) (11C0790-07) Water	Sampled: 03/1	6/11 11:32	Received: 03	3/16/11 2	1:10					

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 3/30/2011

Page 4 of 39 Laboratory Director



625 Court Street Room B03

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Tami Leathers
Yolo County Natural Resources Division Project: Surface Water

Project: Surface Water Reported:
Project Number: Surface Water 03/30/11 14:42

### Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Robbins (R Site) (11C0790-07) Water	Sampled: 03/16	/11 11:32	Received: 03	3/16/11 2	1:10					
Ammonia as N	0.18	0.060	0.20	mg/l	1	AC11815	03/18/11 10:44	03/18/11 16:00	SM4500NH3 C	J
Color	30	6.0	10	Color Units	2	AC11727	03/16/11 18:00	03/16/11 18:00	SM2120B	
Odor	2.0		1.0	T.O.N.	1	"	03/16/11 18:30	03/16/11 18:30	EPA 140.1	
<b>Total Dissolved Solids</b>	180	4.2	10	mg/l	"	AC12134	03/21/11 07:11	03/23/11 08:22	SM2540C	
Total Kjeldahl Nitrogen	1.9	0.10	1.0	"	"	AC11802	03/21/11 06:11	03/22/11 08:31	SM4500-No B	
<b>Total Suspended Solids</b>	580	0.30	1.0	"	"	AC12232	03/22/11 10:12	03/24/11 10:48	SM2540D	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 3/30/2011

Laboratory Director Page 5 of 39



625 Court Street Room B03

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Project Manager: Tami Leathers Woodland CA, 95695 Yolo County Natural Resources Division Project: Surface Water

Reported: 03/30/11 14:42 Project Number: Surface Water

#### Anions by EPA Method 300.0 Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Brooks (B Site) (11C0790-01) Water	er Sampled: 03/16	/11 08:05 R	eceived: 03/	16/11 21	:10					
Nitrate as N	0.11	0.030	0.20	mg/l	1	AC11721	03/17/11 10:00	03/17/11 20:17	EPA 300.0	
Nitrite as N	ND	0.020	0.20	"	"	"	"	"	"	J
Orthophosphate as P	ND	0.030	0.10	"	"	"	"	"	"	Ţ
Capay Bridge (11C0790-02) Water	Sampled: 03/16/1	11 08:32 Re	ceived: 03/1	6/11 21:	10					
Nitrate as N	0.18	0.030	0.20	mg/l	1	AC11721	03/17/11 10:00	03/17/11 20:33	EPA 300.0	j
Nitrite as N	ND	0.020	0.20	"	"	"	"	"	"	U
Orthophosphate as P	ND	0.030	0.10	"	"	"	"	"	"	U
Upstream Gordon (11C0790-03) W	Vater Sampled: 03	/16/11 09:25	Received:	03/16/11	21:10					
Nitrate as N	0.17	0.030	0.20	mg/l	1	AC11721	03/17/11 10:00	03/17/11 20:48	EPA 300.0	J
Nitrite as N	ND	0.020	0.20	"	"	"	"	"	"	U
Orthophosphate as P	ND	0.030	0.10	"	"	"	"	"	"	U
Stevens Bridge (11C0790-04) Water	er Sampled: 03/16/	/11 10:40 R	eceived: 03/	16/11 21	:10					
Nitrate as N	0.18	0.030	0.20	mg/l	1	AC11721	03/17/11 10:00	03/17/11 21:03	EPA 300.0	J
Nitrite as N	ND	0.020	0.20	"	"	"	"	"	"	U
Orthophosphate as P	ND	0.030	0.10	"	"	"	"	"	"	U
Gordon Slough (11C0790-05) Water	er Sampled: 03/16	/11 09:55 R	eceived: 03/	16/11 21	:10					
Nitrate as N	0.21	0.030	0.20	mg/l	1	AC11721	03/17/11 10:00	03/17/11 21:18	EPA 300.0	
Nitrite as N	ND	0.020	0.20	"	"	"	"	"	"	U
Orthophosphate as P	0.32	0.030	0.10	"	"	"	"	"	"	
I-5 Bridge (11C0790-06) Water S	Sampled: 03/16/11 11	1:22 Receiv	ed: 03/16/11	21:10						
Nitrate as N	0.18	0.030	0.20	mg/l	1	AC11721	03/17/11 10:00	03/17/11 22:04	EPA 300.0	J
Nitrite as N	ND	0.020	0.20	"	"	"	"	"	"	U
Orthophosphate as P	ND	0.030	0.10	"	"	"	"	"	"	U

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 3/30/2011

Page 6 of 39 Laboratory Director



625 Court Street Room B03

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Tami Leathers
Yolo County Natural Resources Division Project: Surface Water

Project:Surface WaterReported:Project Number:Surface Water03/30/11 14:42

### Anions by EPA Method 300.0 Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Robbins (R Site) (11C0790-07) Water	Sampled: 03/16	/11 11:32	Received: 03	3/16/11 2	21:10					
Nitrate as N	0.18	0.030	0.20	mg/l	1	AC11721	03/17/11 10:00	03/17/11 22:20	EPA 300.0	J
Nitrite as N	ND	0.020	0.20	"	"	"	"	"	"	U
Orthophosphate as P	ND	0.030	0.10	"	"	"	"	"	"	U

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 3/30/2011

Laboratory Director Page 7 of 39



e-mail: clientservices@alpha-labs.com

Reported:

03/30/11 14:42

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695

Project Manager: Tami Leathers

Vols County Network Resources Division

Yolo County Natural Resources Division Project: Surface Water
625 Court Street Room B03 Project Number: Surface Water

### Microbiological Parameters by APHA Standard Methods Alpha Analytical Laboratories, Inc.

								$\overline{}$
MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1 08:05 I	Received: 03/1	6/11 21:	10					
	2.0 M		1	AC11829	03/16/11 16:00	03/18/11 16:00	SM9221	U
	2.0	ml "	"	"	"	"	"	U
08:32 Re	eceived: 03/16/	/11 21:10	)					
	2.0 M		1	AC11829	03/16/11 16:00	03/18/11 16:00	SM9221	
	2.0	ml "	"	"	"	"	"	
6/11 09:25	Received: 0	3/16/11 2	21:10					
	2.0 M		1	AC11829	03/16/11 16:00	03/18/11 16:00	SM9221	
	2.0	ml "	"	"	"	"	"	
10:40 F	Received: 03/10	6/11 <b>2</b> 1:1	10					
	2.0 M		1	AC11829	03/16/11 16:00	03/18/11 16:00	SM9221	<del></del>
	2.0	ml "	"	"	"	"	"	
1 09:55 I	Received: 03/1	6/11 21:1	10					
	2.0 M		1	AC11829	03/16/11 16:00	03/18/11 16:00	SM9221	<u> </u>
	2.0	ml "	"	"	"	"	"	
22 Receiv	ved: 03/16/11	21:10						
	2.0 M		1	AC11829	03/16/11 16:00	03/18/11 16:00	SM9221	
	2.0	ml "	"	"	"	"	"	
11 11:32	Received: 03/	16/11 21	:10					
	2.0 M		1	AC11829	03/16/11 16:00	03/18/11 16:00	SM9221	
	2.0	ml "	,,	,,		,,	"	
	08:05 F 08:32 Re 5/11 09:25 10:40 R	MDL Limit  1 08:05 Received: 03/1  2.0 M  2.0  08:32 Received: 03/16/  2.0 M  2.0  5/11 09:25 Received: 0  2.0 M  2.0  10:40 Received: 03/16/  2.0 M  2.0  2.0 M  2.0  1 09:55 Received: 03/16/11  2.0 M  2.0  2.0 M  2.0  2.0 M  2.0 M	MDL Limit Units  1 08:05 Received: 03/16/11 21:10  2.0 MPN/100 ml 2.0 "  2.0 MPN/100 ml 2.0 "  5/11 09:25 Received: 03/16/11 21:10  2.0 MPN/100 ml 2.0 "  1 09:55 Received: 03/16/11 21:10  2.0 MPN/100 ml 2.0 "  2.0 MPN/100 ml 2.0 "	MDL Limit Units Dilution  1 08:05 Received: 03/16/11 21:10  2.0 MPN/100 1 ml 2.0 " "  08:32 Received: 03/16/11 21:10  2.0 MPN/100 1 ml 2.0 " "  5/11 09:25 Received: 03/16/11 21:10  2.0 MPN/100 1 ml 2.0 " "  1 09:55 Received: 03/16/11 21:10  2.0 MPN/100 1 ml 2.0 " "  2.0 MPN/100 1 ml 2.0 " "	MDL Limit Units Dilution Batch  1 08:05 Received: 03/16/11 21:10  2.0 MPN/100	MDL Limit Units Dilution Batch Prepared  1 08:05 Received: 03/16/11 21:10  2.0 MPN/100	MDL	MDL Limit Units Dilution Batch Prepared Analyzed Method    108:05   Received: 03/16/11 21:10

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 3/30/2011

Laboratory Director Page 8 of 39



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Tami Leathers

Yolo County Natural Resources Division Project: Surface Water Reported: 625 Court Street Room B03 Project Number: Surface Water 03/30/11 14:42

## TPH by EPA/LUFT GC/GCMS Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Brooks (B Site) (11C0790-01) Water	Sampled: 03/16	/11 08:05 I	Received: 03/1	6/11 21	:10					
TPH as Diesel	ND	50	50	ug/l	1	AC11819	03/18/11 11:11	03/22/11 01:07	8015DRO	U
TPH as Gasoline	ND	50	50	"	"	AC12246	03/22/11 08:00	03/23/11 01:06	8260GRO	U
Surrogate: Tetratetracontane		82.3 %	27-124			AC11819	03/18/11 11:11	03/22/11 01:07	8015DRO	
Surrogate: Toluene-d8		100 %	76-129			AC12246	03/22/11 08:00	03/23/11 01:06	8260GRO	
Capay Bridge (11C0790-02) Water	Sampled: 03/16/1	11 08:32 Re	eceived: 03/16	/11 21:	10					
TPH as Diesel	ND	50	50	ug/l	1	AC11819	03/18/11 11:11	03/22/11 01:42	8015DRO	U
TPH as Gasoline	ND	50	50	"	"	AC12246	03/22/11 08:00	03/23/11 01:40	8260GRO	U
Surrogate: Tetratetracontane		77.4 %	27-124			AC11819	03/18/11 11:11	03/22/11 01:42	8015DRO	
Surrogate: Toluene-d8		99.8 %	76-129			AC12246	03/22/11 08:00	03/23/11 01:40	8260GRO	
Upstream Gordon (11C0790-03) Wat	ter Sampled: 03	/16/11 09:25	Received: 0	3/16/11	21:10					
TPH as Diesel	ND	50	50	ug/l	1	AC11819	03/18/11 11:11	03/22/11 02:16	8015DRO	U
TPH as Gasoline	ND	50	50	"	"	AC12246	03/22/11 08:00	03/23/11 02:14	8260GRO	U
Surrogate: Tetratetracontane		65.1 %	27-124			AC11819	03/18/11 11:11	03/22/11 02:16	8015DRO	
Surrogate: Toluene-d8		100 %	76-129			AC12246	03/22/11 08:00	03/23/11 02:14	8260GRO	
Stevens Bridge (11C0790-04) Water	Sampled: 03/16	/11 10:40 R	Received: 03/1	6/11 21	:10					
TPH as Diesel	ND	50	50	ug/l	1	AC11819	03/18/11 11:11	03/22/11 02:51	8015DRO	U
TPH as Gasoline	ND	50	50	"	"	AC12246	03/22/11 08:00	03/23/11 02:48	8260GRO	U
		76.6 %	27-124			AC11819	03/18/11 11:11	03/22/11 02:51	8015DRO	
Surrogate: Tetratetracontane		/0.0 %	2/-127			11011017	03/10/11 11.11	03/22/11 02:31	COLDENIC	
Surrogate: Tetratetracontane Surrogate: Toluene-d8		70.0 % 101 %	76-129			AC12246	03/22/11 08:00	03/23/11 02:48	8260GRO	
ĕ	Sampled: 03/16	101 %	76-129		:10					
Surrogate: Toluene-d8	Sampled: 03/16	101 %	76-129		: <b>10</b>					U
Surrogate: Toluene-d8 Gordon Slough (11C0790-05) Water	-	101 % //11 09:55 I	76-129 Received: 03/1	6/11 21		AC12246	03/22/11 08:00	03/23/11 02:48	8260GRO	U U
Surrogate: Toluene-d8  Gordon Slough (11C0790-05) Water TPH as Diesel	ND	101 % 5/ <b>11 09:55 I</b>	76-129 Received: 03/1	<b>6/11 2</b> 1	1	AC12246 AC11819	03/22/11 08:00	03/23/11 02:48	8260GRO 8015DRO	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 3/30/2011

Laboratory Director Page 9 of 39



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Tami Leathers

Yolo County Natural Resources DivisionProject:Surface WaterReported:625 Court Street Room B03Project Number:Surface Water03/30/11 14:42

## TPH by EPA/LUFT GC/GCMS Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
I-5 Bridge (11C0790-06) Water Sam	pled: 03/16/11 11	:22 Recei	ved: 03/16/11	21:10						
TPH as Diesel	ND	50	50	ug/l	1	AC12248	03/23/11 09:10	03/23/11 16:26	8015DRO	U
TPH as Gasoline	ND	50	50	"	"	AC12246	03/22/11 08:00	03/23/11 03:55	8260GRO	U
Surrogate: Tetratetracontane		86.2 %	27-124			AC12248	03/23/11 09:10	03/23/11 16:26	8015DRO	
Surrogate: Toluene-d8		100 %	76-129			AC12246	03/22/11 08:00	03/23/11 03:55	8260GRO	
Robbins (R Site) (11C0790-07) Water	Sampled: 03/10	5/11 11:32	Received: 03/	16/11	21:10					
TPH as Diesel	ND	50	50	ug/l	1	AC12248	03/23/11 09:10	03/23/11 17:01	8015DRO	U
TPH as Gasoline	ND	50	50	"	"	AC12246	03/22/11 08:00	03/23/11 04:29	8260GRO	U
Surrogate: Tetratetracontane		93.7 %	27-124			AC12248	03/23/11 09:10	03/23/11 17:01	8015DRO	
Surrogate: Toluene-d8		101 %	76-129			AC12246	03/22/11 08:00	03/23/11 04:29	8260GRO	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 3/30/2011

Laboratory Director Page 10 of 39



625 Court Street Room B03

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695

Yolo County Natural Resources Division

Project Manager: Tami Leathers
Project: Surface Water

Project Number: Surface Water

Reported: 03/30/11 14:42

#### Glyphosate by EPA Method 547 Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
2 mary to	Result	MIDL	Liiilt	Omis	Dilution	Datcii	riepaieu	Anaryzeu	Wichiod	110105
Brooks (B Site) (11C0790-01) Water	Sampled: 03/16/1	1 08:05 R	Received: 03/1	6/11 21	:10					
Glyphosate	ND	3.0	10	ug/l	1	AC12226	03/22/11 08:54	03/22/11 20:28	EPA 547	U
Capay Bridge (11C0790-02) Water	Sampled: 03/16/11	08:32 Re	ceived: 03/16	5/11 21:1	10					
Glyphosate	ND	3.0	10	ug/l	1	AC12226	03/22/11 08:54	03/22/11 21:01	EPA 547	U
Upstream Gordon (11C0790-03) Wat	er Sampled: 03/1	6/11 09:25	Received: (	3/16/11	21:10					
Glyphosate	ND	3.0	10	ug/l	1	AC12226	03/22/11 08:54	03/22/11 21:33	EPA 547	U
Stevens Bridge (11C0790-04) Water	Sampled: 03/16/1	1 10:40 R	eceived: 03/1	6/11 21:	:10					
Glyphosate	ND	3.0	10	ug/l	1	AC12226	03/22/11 08:54	03/22/11 22:06	EPA 547	U
Gordon Slough (11C0790-05) Water	Sampled: 03/16/1	1 09:55 R	Received: 03/1	16/11 21	:10					
Glyphosate	ND	3.0	10	ug/l	1	AC12226	03/22/11 08:54	03/22/11 23:12	EPA 547	U
I-5 Bridge (11C0790-06) Water San	npled: 03/16/11 11:	22 Receiv	ed: 03/16/11	21:10						
Glyphosate	ND	3.0	10	ug/l	1	AC12226	03/22/11 08:54	03/22/11 23:45	EPA 547	U
Robbins (R Site) (11C0790-07) Water	r Sampled: 03/16/	11 11:32	Received: 03	/16/11 2	1:10					
Glyphosate	ND	3.0	10	ug/l	1	AC12226	03/22/11 08:54	03/23/11 00:17	EPA 547	U

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 3/30/2011

Laboratory Director Page 11 of 39



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Tami Leathers

Yolo County Natural Resources DivisionProject:Surface WaterReported:625 Court Street Room B03Project Number:Surface Water03/30/11 14:42

### Chlorinated Herbicides by EPA Method 8151A Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Brooks (B Site) (11C0790-01) Water	Sampled: 03/16	/11 08:05	Received: 03/1	6/11 21	:10					
2,4-D	ND	0.60	1.0	ug/l	1	AC12131	03/21/11 07:38	03/26/11 01:17	EPA 8151A	U
2,4-DB	ND	2.0	5.0	"	"	"	"	"	"	U
2,4,5-T	ND	0.20	0.50	"	"	"	"	"	"	U
2,4,5-TP (Silvex)	ND	0.20	0.50	"	"	"	"	"	"	U
Dalapon	ND	0.60	6.0	"	"	"	"	"	"	U
Dicamba	ND	0.060	0.40	"	"	"	"	"	"	U
Dinoseb	ND	0.40	1.0	"	"	"	"	"	"	U
MCPA	ND	100	300	"	"	"	"	"	"	U
MCPP	ND	90	300	"	"	"	"	"	"	U
Dichlorprop	ND	0.50	1.0	"	"	"	"	"	"	U
Pentachlorophenol	ND	0.070	0.20	"	"	"	"	"	"	U
Picloram	ND	0.80	1.0	"	"	"	"	"	"	U
Surrogate: DCAA		91.1 %	62-124	!		"	"	"	"	
Capay Bridge (11C0790-02) Water	Sampled: 03/16/1	1 08:32 R	eceived: 03/16	/11 21:1	10					
2,4-D	ND	0.60	1.0	ug/l	1	AC12131	03/21/11 07:38	03/26/11 01:54	EPA 8151A	U
2,4-DB	ND	2.0	5.0	"	"	"	"	"	"	U
2,4,5-T	ND	0.20	0.50	"	"	"	"	"	"	U
2,4,5-TP (Silvex)	ND	0.20	0.50	"	"	"	"	"	"	U
Dalapon	ND	0.60	6.0	"	"	"	"	"	"	U
Dicamba	ND	0.060	0.40	"	"	"	"	"	"	U
Dinoseb	ND	0.40	1.0	"	"	"	"	"	"	U
MCPA	ND	100	300	"	"	"	"	"	"	U
MCPP	ND	90	300	"	"	"	"	"	"	U
Dichlorprop	ND	0.50	1.0	"	"	"	"	"	"	U
Pentachlorophenol	ND	0.070	0.20	"	"	"	"	"	"	U
Picloram	ND	0.80	1.0	"	"	"	"	"	"	U
Surrogate: DCAA		94.4 %	62-124			,,	"	"	"	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove

Laboratory Director

3/30/2011



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Tami Leathers
Vola County Natural Persurger Division

Yolo County Natural Resources DivisionProject:Surface WaterReported:625 Court Street Room B03Project Number:Surface Water03/30/11 14:42

### Chlorinated Herbicides by EPA Method 8151A Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Upstream Gordon (11C0790-03) Water	Sampled: 03	3/16/11 09:25	Received: 0	3/16/11	21:10					
2,4-D	ND	0.60	1.0	ug/l	1	AC12131	03/21/11 07:38	03/26/11 02:31	EPA 8151A	U
2,4-DB	ND	2.0	5.0	"	"	"	"	"	"	U
2,4,5-T	ND	0.20	0.50	"	"	"	"	"	"	U
2,4,5-TP (Silvex)	ND	0.20	0.50	"	"	"	"	"	"	U
Dalapon	ND	0.60	6.0	"	"	"	"	"	"	U
Dicamba	ND	0.060	0.40	"	"	"	"	"	"	U
Dinoseb	ND	0.40	1.0	"	"	"	"	"	"	U
MCPA	ND	100	300	"	"	"	"	"	"	U
MCPP	ND	90	300	"	"	"	"	"	"	U
Dichlorprop	ND	0.50	1.0	"	"	"	"	"	"	U
Pentachlorophenol	ND	0.070	0.20	"	"	"	"	"	"	U
Picloram	ND	0.80	1.0	"	"	"	"	"	"	U
Surrogate: DCAA		87.2 %	62-124			"	"	"	"	
Stevens Bridge (11C0790-04) Water S	Sampled: 03/16	/11 10:40 Re	ceived: 03/1	6/11 21:	:10					
2,4-D	ND	0.60	1.0	ug/l	1	AC12131	03/21/11 07:38	03/26/11 03:08	EPA 8151A	U
2,4-DB	ND	2.0	5.0	"	"	"	"	"	"	U
2,4,5-T	ND	0.20	0.50	"	"	"	"	"	"	U
2,4,5-TP (Silvex)	ND	0.20	0.50	"	"	"	"	"	"	U
Dalapon	ND	0.60	6.0	"	"	"	"	"	"	U
Dicamba	ND	0.060	0.40	"	"	"	"	"	"	U
Dinoseb	ND	0.40	1.0	"	"	"	"	"	"	U
MCPA	ND	100	300	"	"	"	"	"	"	U
MCPP	ND	90	300	"	"	"	"	"	"	U
Dichlorprop	ND	0.50	1.0	"	"	"	"	"	"	U
Pentachlorophenol	ND	0.070	0.20	"	"	"	"	"	"	U
Picloram	ND	0.80	1.0	"	"	"	"	"	"	U
Surrogate: DCAA		94.7 %	62-124			"	"	"	"	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 3/30/2011

Laboratory Director Page 13 of 39



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Tami Leathers

Yolo County Natural Resources DivisionProject:Surface WaterReported:625 Court Street Room B03Project Number:Surface Water03/30/11 14:42

### Chlorinated Herbicides by EPA Method 8151A Alpha Analytical Laboratories, Inc.

Analysis	Result	MDL	Reporting Limit	TT 1:	Dil di	D + 1	D 1		Method	Notes
Analyte	Resuit	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gordon Slough (11C0790-05) Water	Sampled: 03/16	/11 09:55 R	eceived: 03/1	6/11 21	:10					
2,4-D	ND	0.60	1.0	ug/l	1	AC12131	03/21/11 07:38	03/26/11 03:45	EPA 8151A	U
2,4-DB	ND	2.0	5.0	"	"	"	"	"	"	U
2,4,5-T	ND	0.20	0.50	"	"	"	"	"	"	U
2,4,5-TP (Silvex)	ND	0.20	0.50	"	"	"	"	"	"	U
Dalapon	ND	0.60	6.0	"	"	"	"	"	"	U
Dicamba	ND	0.060	0.40	"	"	"	"	"	"	U
Dinoseb	ND	0.40	1.0	"	"	"	"	"	"	U
MCPA	ND	100	300	"	"	"	"	"	"	U
MCPP	ND	90	300	"	"	"	"	"	"	U
Dichlorprop	ND	0.50	1.0	"	"	"	"	"	"	U
Pentachlorophenol	ND	0.070	0.20	"	"	"	"	"	"	U
Picloram	ND	0.80	1.0	"	"	"	"	"	"	U
Surrogate: DCAA		92.3 %	62-124	!		"	"	"	"	
I-5 Bridge (11C0790-06) Water San	npled: 03/16/11 1	1:22 Receiv	ed: 03/16/11	21:10						
2,4-D	ND	0.60	1.0	ug/l	1	AC12131	03/21/11 07:38	03/26/11 04:22	EPA 8151A	U
2,4-DB	ND	2.0	5.0	"	"	"	"	"	"	U
2,4,5-T	ND	0.20	0.50	"	"	"	"	"	"	U
2,4,5-TP (Silvex)	ND	0.20	0.50	"	"	"	"	"	"	U
Dalapon	ND	0.60	6.0	"	"	"	"	"	"	U
Dicamba	ND	0.060	0.40	"	"	"	"	"	"	U
Dinoseb	ND	0.40	1.0	"	"	"	"	"	"	U
MCPA	ND	100	300	"	"	"	"	"	"	U
MCPP	ND	90	300	"	"	"	"	"	"	U
Dichlorprop	ND	0.50	1.0	"	"	"	"	"	"	U
Pentachlorophenol	ND	0.070	0.20	"	"	"	"	"	"	U
Picloram	ND	0.80	1.0	"	"	"	"	"	"	U
Surrogate: DCAA		92.6 %	62-124	!		"	"	"	"	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove

Laboratory Director

3/30/2011



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Tami Leathers

Yolo County Natural Resources DivisionProject:Surface WaterReported:625 Court Street Room B03Project Number:Surface Water03/30/11 14:42

#### Chlorinated Herbicides by EPA Method 8151A Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Robbins (R Site) (11C0790-07) Water	Sampled: 03/1	6/11 11:32	Received: 03/	16/11 2	21:10					
2,4-D	ND	0.60	1.0	ug/l	1	AC12131	03/21/11 07:38	03/26/11 05:00	EPA 8151A	U
2,4-DB	ND	2.0	5.0	"	"	"	"	"	"	U
2,4,5-T	ND	0.20	0.50	"	"	"	"	"	"	U
2,4,5-TP (Silvex)	ND	0.20	0.50	"	"	"	"	"	"	U
Dalapon	ND	0.60	6.0	"	"	"	"	"	"	U
Dicamba	ND	0.060	0.40	"	"	"	"	"	"	U
Dinoseb	ND	0.40	1.0	"	"	"	"	"	"	U
MCPA	ND	100	300	"	"	"	"	"	"	U
MCPP	ND	90	300	"	"	"	"	"	"	U
Dichlorprop	ND	0.50	1.0	"	"	"	"	"	"	U
Pentachlorophenol	ND	0.070	0.20	"	"	"	"	"	"	U
Picloram	ND	0.80	1.0	"	"	"	"	"	"	U
Surrogate: DCAA		95.0 %	62-124			"	"	"	"	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 3/30/2011

Laboratory Director Page 15 of 39



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Tami Leathers
Volo County Natural Resources Division Project Surface Water

Yolo County Natural Resources DivisionProject:Surface WaterReported:625 Court Street Room B03Project Number:Surface Water03/30/11 14:42

## Organophosphorus Compounds by EPA Method 8141A Alpha Analytical Laboratories, Inc.

										$\overline{}$
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Brooks (B Site) (11C0790-01) Water	Sampled: 03/16	/11 08:05	Received: 03/1	6/11 21	:10					
Azinphos ethyl	ND	0.20	2.0	ug/l	1	AC11729	03/17/11 14:57	03/24/11 01:38	EPA 8141A	U
Azinphos methyl	ND	0.40	2.0	"	"	"	"	"	"	U
Bolstar	ND	0.20	1.0	"	"	"	"	"	"	U
Chlorpyrifos	ND	0.20	0.50	"	"	"	"	"	"	U
Coumaphos	ND	0.50	2.0	"	"	"	"	"	"	U
Demeton-o	ND	0.10	1.0	"	"	"	"	"	"	U
Demeton-s	ND	0.20	1.0	"	"	"	"	"	"	U
Diazinon	ND	0.30	0.50	"	"	"	"	"	"	U
Dichlorvos	ND	0.30	1.0	"	"	"	"	"	"	U
Dimethoate	ND	0.20	2.0	"	"	"	"	"	"	U
Disulfoton	ND	0.30	0.50	"	"	"	"	"	"	U
EPN	ND	0.30	1.0	"	"	"	"	"	"	U
Ethion	ND	0.30	0.50	"	"	"	"	"	"	U
Ethoprop (Ethoprophos)	ND	0.30	1.0	"	"	"	"	"	"	U
Famphur	ND	0.30	0.50	"	"	"	"	"	"	U
Fensulfothion	ND	0.40	2.0	"	"	"	"	"	"	U
Fenthion	ND	0.20	0.50	"	"	"	"	"	"	U
Malathion	ND	0.30	0.50	"	"	"	"	"	"	U
Mevinphos	ND	0.20	1.0	"	"	"	"	"	"	U
Parathion	ND	0.30	0.50	"	"	"	"	"	"	U
Parathion-methyl	ND	0.20	0.50	"	"	"	"	"	"	U
Phorate	ND	0.20	0.50	"	"	"	"	"	"	U
Ronnel	ND	0.20	0.50	"	"	"	"	"	"	U
Simazine	ND	0.30	0.50	"	"	"	"	"	"	U
Stirofos	ND	0.30	0.50	"	"	"	"	"	"	U
Thionazin	ND	0.20	1.0	"	"	"	"	"	"	U
Tokuthion (Prothiofos)	ND	0.20	1.0	"	"	"	"	"	"	U
Trichloronate	ND	0.30	1.0	"	"	"	"	"	"	U
Surrogate: Tributyl phosphate		67.3 %	32-159			"	"	"	"	
Surrogate: Triphenyl phosphate		74.0 %	42-167			"	"	"	"	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 3/30/2011

Laboratory Director Page 16 of 39



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Tami Leathers

Yolo County Natural Resources DivisionProject:Surface WaterReported:625 Court Street Room B03Project Number:Surface Water03/30/11 14:42

# Organophosphorus Compounds by EPA Method 8141A Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Capay Bridge (11C0790-02) Water	Sampled: 03/16/1	1 08:32 Re	ceived: 03/16	/11 21:1	0					
Azinphos ethyl	ND	0.20	2.0	ug/l	1	AC11729	03/17/11 14:57	03/24/11 02:47	EPA 8141A	U
Azinphos methyl	ND	0.40	2.0	"	"	"	"	"	"	U
Bolstar	ND	0.20	1.0	"	"	"	"	"	"	U
Chlorpyrifos	ND	0.20	0.50	"	"	"	"	"	"	U
Coumaphos	ND	0.50	2.0	"	"	"	"	"	"	U
Demeton-o	ND	0.10	1.0	"	"	"	"	"	"	U
Demeton-s	ND	0.20	1.0	"	"	"	"	"	"	U
Diazinon	ND	0.30	0.50	"	"	"	"	"	"	U
Dichlorvos	ND	0.30	1.0	"	"	"	"	"	"	U
Dimethoate	ND	0.20	2.0	"	"	"	"	"	"	U
Disulfoton	ND	0.30	0.50	"	"	"	"	"	"	U
EPN	ND	0.30	1.0	"	"	"	"	"	"	U
Ethion	ND	0.30	0.50	"	"	"	"	"	"	U
Ethoprop (Ethoprophos)	ND	0.30	1.0	"	"	"	"	"	"	U
Famphur	ND	0.30	0.50	"	"	"	"	"	"	U
Fensulfothion	ND	0.40	2.0	"	"	"	"	"	"	U
Fenthion	ND	0.20	0.50	"	"	"	"	"	"	U
Malathion	ND	0.30	0.50	"	"	"	"	"	"	U
Mevinphos	ND	0.20	1.0	"	"	"	"	"	"	U
Parathion	ND	0.30	0.50	"	"	"	"	"	"	U
Parathion-methyl	ND	0.20	0.50	"	"	"	"	"	"	U
Phorate	ND	0.20	0.50	"	"	"	"	"	"	U
Ronnel	ND	0.20	0.50	"	"	"	"	"	"	U
Simazine	ND	0.30	0.50	"	"	"	"	"	"	U
Stirofos	ND	0.30	0.50	"	"	"	"	"	"	U
Thionazin	ND	0.20	1.0	"	"	"	"	"	"	U
Tokuthion (Prothiofos)	ND	0.20	1.0	"	"	"	"	"	"	U
Trichloronate	ND	0.30	1.0	"	"	"	"	"	"	U
Surrogate: Tributyl phosphate		62.1 %	32-159			"	"	"	"	
Surrogate: Triphenyl phosphate		62.0 %	42-167			"	"	"	"	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove

Laboratory Director Page 17 of 39

3/30/2011



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Tami Leathers
Vola County Natural Resources Division Project: Surface Water

Yolo County Natural Resources DivisionProject:Surface WaterReported:625 Court Street Room B03Project Number:Surface Water03/30/11 14:42

## Organophosphorus Compounds by EPA Method 8141A Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Upstream Gordon (11C0790-03) Water	Sampled: 03	/16/11 09:25	Received: 0	3/16/11	21:10					
Azinphos ethyl	ND	0.20	2.0	ug/l	1	AC11729	03/17/11 14:57	03/24/11 03:57	EPA 8141A	U
Azinphos methyl	ND	0.40	2.0	"	"	"	"	"	"	U
Bolstar	ND	0.20	1.0	"	"	"	"	"	"	U
Chlorpyrifos	ND	0.20	0.50	"	"	"	"	"	"	U
Coumaphos	ND	0.50	2.0	"	"	"	"	"	"	U
Demeton-o	ND	0.10	1.0	"	"	"	"	"	"	U
Demeton-s	ND	0.20	1.0	"	"	"	"	"	"	U
Diazinon	ND	0.30	0.50	"	"	"	"	"	"	U
Dichlorvos	ND	0.30	1.0	"	"	"	"	"	"	U
Dimethoate	ND	0.20	2.0	"	"	"	"	"	"	U
Disulfoton	ND	0.30	0.50	"	"	"	"	"	"	U
EPN	ND	0.30	1.0	"	"	"	"	"	"	U
Ethion	ND	0.30	0.50	"	"	"	"	"	"	U
Ethoprop (Ethoprophos)	ND	0.30	1.0	"	"	"	"	"	"	U
Famphur	ND	0.30	0.50	"	"	"	"	"	"	U
Fensulfothion	ND	0.40	2.0	"	"	"	"	"	"	U
Fenthion	ND	0.20	0.50	"	"	"	"	"	"	U
Malathion	ND	0.30	0.50	"	"	"	"	"	"	U
Mevinphos	ND	0.20	1.0	"	"	"	"	"	"	U
Parathion	ND	0.30	0.50	"	"	"	"	"	"	U
Parathion-methyl	ND	0.20	0.50	"	"	"	"	"	"	U
Phorate	ND	0.20	0.50	"	"	"	"	"	"	U
Ronnel	ND	0.20	0.50	"	"	"	"	"	"	U
Simazine	ND	0.30	0.50	"	"	"	"	"	"	U
Stirofos	ND	0.30	0.50	"	"	"	"	"	"	U
Thionazin	ND	0.20	1.0	"	"	"	"	"	"	U
Tokuthion (Prothiofos)	ND	0.20	1.0	"	"	"	"	"	"	U
Trichloronate	ND	0.30	1.0	"	"	"	"	"	"	U
Surrogate: Tributyl phosphate		63.3 %	32-159			"	"	"	"	
Surrogate: Triphenyl phosphate		67.0 %	42-167			"	"	"	"	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 3/30/2011

Laboratory Director Page 18 of 39



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Project Manager: Tami Leathers Woodland CA, 95695

Reported: Yolo County Natural Resources Division Project: Surface Water 03/30/11 14:42 625 Court Street Room B03 Project Number: Surface Water

### Organophosphorus Compounds by EPA Method 8141A Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Stevens Bridge (11C0790-04) Water	Sampled: 03/16/	11 10:40	Received: 03/1	6/11 21:	10					
Azinphos ethyl	ND	0.20	2.0	ug/l	1	AC11729	03/17/11 14:57	03/24/11 05:07	EPA 8141A	U
Azinphos methyl	ND	0.40	2.0	"	"	"	"	"	"	U
Bolstar	ND	0.20	1.0	"	"	"	"	"	"	U
Chlorpyrifos	ND	0.20	0.50	"	"	"	"	"	"	U
Coumaphos	ND	0.50	2.0	"	"	"	"	"	"	U
Demeton-o	ND	0.10	1.0	"	"	"	"	"	"	U
Demeton-s	ND	0.20	1.0	"	"	"	"	"	"	U
Diazinon	ND	0.30	0.50	"	"	"	"	"	"	U
Dichlorvos	ND	0.30	1.0	"	"	"	"	"	"	U
Dimethoate	ND	0.20	2.0	"	"	"	"	"	"	U
Disulfoton	ND	0.30	0.50	"	"	"	"	"	"	U
EPN	ND	0.30	1.0	"	"	"	"	"	"	U
Ethion	ND	0.30	0.50	"	"	"	"	"	"	U
Ethoprop (Ethoprophos)	ND	0.30	1.0	"	"	"	"	"	"	U
Famphur	ND	0.30	0.50	"	"	"	"	"	"	U
Fensulfothion	ND	0.40	2.0	"	"	"	"	"	"	U
Fenthion	ND	0.20	0.50	"	"	"	"	"	"	U
Malathion	ND	0.30	0.50	"	"	"	"	"	"	U
Mevinphos	ND	0.20	1.0	"	"	"	"	"	"	U
Parathion	ND	0.30	0.50	"	"	"	"	"	"	U
Parathion-methyl	ND	0.20	0.50	"	"	"	"	"	"	U
Phorate	ND	0.20	0.50	"	"	"	"	"	"	U
Ronnel	ND	0.20	0.50	"	"	"	"	"	"	U
Simazine	ND	0.30	0.50	"	"	"	"	"	"	U
Stirofos	ND	0.30	0.50	"	"	"	"	"	"	U
Thionazin	ND	0.20	1.0	"	"	"	"	"	"	U
Tokuthion (Prothiofos)	ND	0.20	1.0	"	"	"	"	"	"	U
Trichloronate	ND	0.30	1.0	"	"	"	"	"	"	U
Surrogate: Tributyl phosphate		63.3 %	32-159	1		"	"	"	"	
Surrogate: Triphenyl phosphate		62.4 %	42-167			"	"	"	"	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 3/30/2011

Page 19 of 39 Laboratory Director



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Tami Leathers

Yolo County Natural Resources DivisionProject:Surface WaterReported:625 Court Street Room B03Project Number:Surface Water03/30/11 14:42

# Organophosphorus Compounds by EPA Method 8141A Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gordon Slough (11C0790-05) Water	Sampled: 03/16/	11 09:55	Received: 03/1	6/11 21	:10					
Azinphos ethyl	ND	0.20	2.0	ug/l	1	AC11729	03/17/11 14:57	03/24/11 06:17	EPA 8141A	U
Azinphos methyl	ND	0.40	2.0	"	"	"	"	"	"	U
Bolstar	ND	0.20	1.0	"	"	"	"	"	"	U
Chlorpyrifos	ND	0.20	0.50	"	"	"	"	"	"	U
Coumaphos	ND	0.50	2.0	"	"	"	"	"	"	U
Demeton-o	ND	0.10	1.0	"	"	"	"	"	"	U
Demeton-s	ND	0.20	1.0	"	"	"	"	"	"	U
Diazinon	ND	0.30	0.50	"	"	"	"	"	"	U
Dichlorvos	ND	0.30	1.0	"	"	"	"	"	"	U
Dimethoate	ND	0.20	2.0	"	"	"	"	"	"	U
Disulfoton	ND	0.30	0.50	"	"	"	"	"	"	U
EPN	ND	0.30	1.0	"	"	"	"	"	"	U
Ethion	ND	0.30	0.50	"	"	"	"	"	"	U
Ethoprop (Ethoprophos)	ND	0.30	1.0	"	"	"	"	"	"	U
Famphur	ND	0.30	0.50	"	"	"	"	"	"	U
Fensulfothion	ND	0.40	2.0	"	"	"	"	"	"	U
Fenthion	ND	0.20	0.50	"	"	"	"	"	"	U
Malathion	ND	0.30	0.50	"	"	"	"	"	"	U
Mevinphos	ND	0.20	1.0	"	"	"	"	"	"	U
Parathion	ND	0.30	0.50	"	"	"	"	"	"	U
Parathion-methyl	ND	0.20	0.50	"	"	"	"	"	"	U
Phorate	ND	0.20	0.50	"	"	"	"	"	"	U
Ronnel	ND	0.20	0.50	"	"	"	"	"	"	U
Simazine	ND	0.30	0.50	"	"	"	"	"	"	U
Stirofos	ND	0.30	0.50	"	"	"	"	"	"	U
Thionazin	ND	0.20	1.0	"	"	"	"	"	"	U
Tokuthion (Prothiofos)	ND	0.20	1.0	"	"	"	"	"	"	U
Trichloronate	ND	0.30	1.0	"	"	"	"	"	"	U
Surrogate: Tributyl phosphate		67.7 %	32-159			"	"	"	"	
Surrogate: Triphenyl phosphate		68.2 %	42-167			"	"	"	"	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 3/30/2011

Laboratory Director Page 20 of 39



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Tami Leathers

Yolo County Natural Resources DivisionProject:Surface WaterReported:625 Court Street Room B03Project Number:Surface Water03/30/11 14:42

# Organophosphorus Compounds by EPA Method 8141A Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
I-5 Bridge (11C0790-06) Water	Sampled: 03/16/11 11:22	Recei	ved: 03/16/11	21:10						
Azinphos ethyl	ND	0.20	2.0	ug/l	1	AC11729	03/17/11 14:57	03/24/11 07:27	EPA 8141A	U
Azinphos methyl	ND	0.40	2.0	"	"	"	"	"	"	U
Bolstar	ND	0.20	1.0	"	"	"	"	"	"	U
Chlorpyrifos	ND	0.20	0.50	"	"	"	"	"	"	U
Coumaphos	ND	0.50	2.0	"	"	"	"	"	"	U
Demeton-o	ND	0.10	1.0	"	"	"	"	"	"	U
Demeton-s	ND	0.20	1.0	"	"	"	"	"	"	U
Diazinon	ND	0.30	0.50	"	"	"	"	"	"	U
Dichlorvos	ND	0.30	1.0	"	"	"	"	"	"	U
Dimethoate	ND	0.20	2.0	"	"	"	"	"	"	U
Disulfoton	ND	0.30	0.50	"	"	"	"	"	"	U
EPN	ND	0.30	1.0	"	"	"	"	"	"	U
Ethion	ND	0.30	0.50	"	"	"	"	"	"	U
Ethoprop (Ethoprophos)	ND	0.30	1.0	"	"	"	"	"	"	U
Famphur	ND	0.30	0.50	"	"	"	"	"	"	U
Fensulfothion	ND	0.40	2.0	"	"	"	"	"	"	U
Fenthion	ND	0.20	0.50	"	"	"	"	"	"	U
Malathion	ND	0.30	0.50	"	"	"	"	"	"	U
Mevinphos	ND	0.20	1.0	"	"	"	"	"	"	U
Parathion	ND	0.30	0.50	"	"	"	"	"	"	U
Parathion-methyl	ND	0.20	0.50	"	"	"	"	"	"	U
Phorate	ND	0.20	0.50	"	"	"	"	"	"	U
Ronnel	ND	0.20	0.50	"	"	"	"	"	"	U
Simazine	ND	0.30	0.50	"	"	"	"	"	"	U
Stirofos	ND	0.30	0.50	"	"	"	"	"	"	U
Thionazin	ND	0.20	1.0	"	"	"	"	"	"	U
Tokuthion (Prothiofos)	ND	0.20	1.0	"	"	"	"	"	"	U
Trichloronate	ND	0.30	1.0	"	"	"	"	"	"	U
Surrogate: Tributyl phosphate		51.5 %	32-159			"	"	"	"	
Surrogate: Triphenyl phosphate	7	78.7 %	42-167			"	"	"	"	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove

Laboratory Director Page 21 of 39

3/30/2011



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Tami Leathers
Volo County Natural Resources Division Project: Surface Water

Yolo County Natural Resources DivisionProject:Surface WaterReported:625 Court Street Room B03Project Number:Surface Water03/30/11 14:42

## Organophosphorus Compounds by EPA Method 8141A Alpha Analytical Laboratories, Inc.

			•			-				
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Robbins (R Site) (11C0790-07) Water	Sampled: 03/1	6/11 11:32	Received: 03/	/16/11 2	1:10					
Azinphos ethyl	ND	0.20	2.0	ug/l	1	AC11729	03/17/11 14:57	03/24/11 08:37	EPA 8141A	U
Azinphos methyl	ND	0.40	2.0	"	"	"	"	"	"	U
Bolstar	ND	0.20	1.0	"	"	"	"	"	"	U
Chlorpyrifos	ND	0.20	0.50	"	"	"	"	"	"	U
Coumaphos	ND	0.50	2.0	"	"	"	"	"	"	U
Demeton-o	ND	0.10	1.0	"	"	"	"	"	"	U
Demeton-s	ND	0.20	1.0	"	"	"	"	"	"	U
Diazinon	ND	0.30	0.50	"	"	"	"	"	"	U
Dichlorvos	ND	0.30	1.0	"	"	"	"	"	"	U
Dimethoate	ND	0.20	2.0	"	"	"	"	"	"	U
Disulfoton	ND	0.30	0.50	"	"	"	"	"	"	U
EPN	ND	0.30	1.0	"	"	"	"	"	"	U
Ethion	ND	0.30	0.50	"	"	"	"	"	"	U
Ethoprop (Ethoprophos)	ND	0.30	1.0	"	"	"	"	"	"	U
Famphur	ND	0.30	0.50	"	"	"	"	"	"	U
Fensulfothion	ND	0.40	2.0	"	"	"	"	"	"	U
Fenthion	ND	0.20	0.50	"	"	"	"	"	"	U
Malathion	ND	0.30	0.50	"	"	"	"	"	"	U
Mevinphos	ND	0.20	1.0	"	"	"	"	"	"	U
Parathion	ND	0.30	0.50	"	"	"	"	"	"	U
Parathion-methyl	ND	0.20	0.50	"	"	"	"	"	"	U
Phorate	ND	0.20	0.50	"	"	"	"	"	"	U
Ronnel	ND	0.20	0.50	"	"	"	"	"	"	U
Simazine	ND	0.30	0.50	"	"	"	"	"	"	U
Stirofos	ND	0.30	0.50	"	"	"	"	"	"	U
Thionazin	ND	0.20	1.0	"	"	"	"	"	"	U
Tokuthion (Prothiofos)	ND	0.20	1.0	"	"	"	"	"	"	U
Trichloronate	ND	0.30	1.0	"	"	"	"	"	"	U
Surrogate: Tributyl phosphate		63.1 %	32-159			"	"	"	"	
Surrogate: Triphenyl phosphate		74.3 %	42-167			"	"	"	"	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 3/30/2011

Laboratory Director Page 22 of 39



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Tami Leathers

Yolo County Natural Resources Division Project: Surface Water Reported:
625 Court Street Room B03 Project Number: Surface Water 03/30/11 14:42

#### **Notes and Definitions**

>1600 >1600

J Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).

QM-08 The RPD was outside acceptance limits for MS/MSD, possibly due to matrix interference. The LCS and/or LCSD were within

acceptance limits showing that the laboratory is in control and the data is acceptable.

U Analyte included in analysis, but not detected at or above MDL.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 3/30/2011

Laboratory Director Page 39 of 39



2218 Railroad Avenue Redding, California 96001

voice 530.243.7234 fax 530.243.7494

3860 Morrow Lane, Suite F Chico, California 95928 voice **530.894.8966** fax **530.894.5143** 

April 01, 2011

Lab ID: 1030842

SHERI L. SPEAKS
ALPHA ANALYTICAL LABS - UKIAH
208 MASON STREET
UKIAH, CA 95482
RE: LL Hg 1631 11C0790

Dear SHERI L. SPEAKS,

Enclosed are the analysis results for Work Order number 1030842. All analysis were performed under strict adherence to our established Quality Assurance Plan. Any abnormalities are listed in the qualifier section of this report.

If you have any questions regarding these results, please feel free to contact us at any time. We appreciate the opportunity to service your environmental testing needs.

Sincerely,

Ricky D. Jensen

**Laboratory Director** 

California ELAP Certification Number 1677



2218 Railroad Avenue

voice 530.243.7234 Redding, California 96001 fax 530.243.7494

3860 Morrow Lane, Suite F Chico, California 95928

voice 530.894.8966 fax 530.894.5143

Report To:

ALPHA ANALYTICAL LABS - UKIAH

208 MASON STREET

**UKIAH, CA 95482** SHERI L. SPEAKS

Attention:

Project: LL Hg 1631 11C0790

Lab No: 1030842 Reported:

04/01/11 (707) 468-0401

Phone:

P.O. #

Metais - Total

Metais - 10tai Analyte	Units	Results	Qualifier	MDL	RL	Method	Analyzed	Prepared	Batch
	Water (103	0842-01) Sa	mpled:03/16/11	08:05 I	Received:03	/22/11 10:0	8		
Mercury	ng/t	0.55	<del></del>	0.20	0.50	EPA 1631E	03/28/11	03/28/11	B1C0842
		42-02) Sam	pled:03/16/11 0	8:32 Re	ceived:03/2	22/11 10:08			
Mercury	ng/l	153	R-08	1.00	2.50	EPA 1631E	03/28/11	03/28/11	B1C0842
11C0790-03 UPSTREAM GORDO		030842-03)	Sampled:03/16	/11 09:25	Received	:03/22/11 1	0:08		
Mercury	ng/l	129	R-08	1.00	2.50	EPA 1631E	03/28/11	03/28/11	B1C0842
		0842-04) Si	ampled:03/16/11	10:40	Received:03	3/22/11 10:0	)8		
Mercury	ng/l	299	R-08	1.00	2.50	EPA 1631E	03/28/11	03/28/11	B1C0842
11C0790-05 GORDON SLOUGH		0842-05) S	ampled:03/16/1:	L 09:55	Received:0:	3/22/11 10:	08		
Mercury	ng/i	6.68		0.20	0.50	EPA 1631E	03/28/11	03/28/11	B1C0842
11C0790-06 I-5 BRIDGE Water			d:03/16/11 11:2	2 Receiv	ed:03/22/:	11 10:08			
Mercury	ng/l	269	R-08	1.00	2.50	EPA 1631E	03/28/11	03/28/11	B1C0842
11C0790-07 ROBBINS (R SITE)			ampled:03/16/1	1 11:32	Received:0	3/22/11 10	08		
Mercury	ng/l	361	R-08	1.00	2.50	EPA 1631E	03/28/11	03/28/11	B1C0842



2218 Railroad Avenue

voice 530.243.7234 Redding, California 96001 fax 530.243.7494

3860 Morrow Lane, Suite F Chico, California 95928

voice 530.894.8966 fax 530.894.5143

Report To: ALPHA ANALYTICAL LABS - UKIAH

**208 MASON STREET** 

UKIAH, CA 95482

Attention: SHERI L. SPEAKS

Project: LL Hg 1631 11C0790

Lab No:

1030842

Reported: 04/01/11 Phone:

(707) 468-0401

P.O. #

**Metals - Dissolved** 

Analyte	Units	Results	Qualifler	MDL	RL	Method	Analyzed	Prepared	Batch
11C0790-01 BROOKS (B SITE) Wa	ter (103	0842-01) S	mpled:03/16/11	08:05	Received:0.	3/22/11 10:0	)8		
Mercury	ng/l	0.25	J	0.20	0.50	EPA 1631E	03/31/11	03/31/11	81D0020
11C0790-02 CAPAY BRIDGE Water	(10308	42-02) Sam	pled:03/16/11 0	8:32 Re	ceived:03/	22/11 10:08			
Mercury	ng/l	2.02		0.20	0.50	EPA 1631E	03/31/11	03/31/11	B1D0020
11C0790-03 UPSTREAM GORDON	Water (1	030842-03)	Sampled:03/16/	/11 09:25	Received	:03/22/11 1	0:08		
Mercury	ng/l	1.96		0.20	0.50	EPA 1631E	03/31/11	03/31/11	B1D0020
11C0790-04 STEVENS BRIDGE Wa	ter (103	0842-04) S	ampled:03/16/11	10:40	Received:0:	3/22/11 10:0	18		
Mercury	ng/l	1.94		0.20	0.50	EPA 1631E	03/31/11	03/31/11	B1D0020
11C0790-05 GORDON SLOUGH Wa	ter (103	0842-05) S	ampled:03/16/11	09:55	Received:0	3/22/11 10:	08		
Mercury	ng/l	2.80		0.20	0.50	EPA 1631E	03/31/11	03/31/11	B1D0020
11C0790-06 I-5 BRIDGE Water (	1030842-(	96) Sample	d:03/16/11 11:22	Receiv	ed:03/22/:	L1 10:08	· ·	<del></del>	
Mercury	ng/l	1.90		0.20	0.50	EPA 1631E	03/31/11	03/31/11	B1D0020
	iter (103	0842-07) 5	ampled:03/16/1:	1 11:32	Received:0	3/22/11 10:			
Mercury	ng/l	1.92		0.20	0.50	EPA 1631E	03/31/11	03/31/11	B1D0020



2218 Railroad Avenue voice 530.243,723 Redding, California 96001 fax 530.243,7494 voice 530.243.7234

3860 Morrow Lane, Suite F Chico, California 95928

voice **530.894.8966** fax 530.894.5143

Report To: ALPHA ANALYTICAL LABS - UKIAH

208 MASON STREET

UKIAH, CA 95482

Attention:

SHERI L. SPEAKS **Project:** LL Hg 1631 11C0790 Lab No:

1030842 Reported: 04/01/11 Phone: (707) 468-0401

P.O. #

**Quality Control Data** 

Analyte		Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifie
			<del> </del>	Metals - T	otal					<u> </u>	
Batch B1C0842 -	BrCi Digestion			· · · · · · · · · · · · · · · · · · ·	<del></del> -	<del>_</del> ,					
Blank	· · · · · · · · · · · · · · · · · · ·					- ···· · · · · · · · · · · · · · · · ·					<del></del> ;
Mercury		ND	0.50	ng/l				······································			
Blank			**********					<del></del>	<del></del>		
Mercury		ND	0.50	ng/i	·				•		
LCS											
Mercury		18.8	0.50	ng/l	20.0		93.8	84.1-120			—-—
LCS				<del></del>							·····
Mercury		19.2	0.50	ng/l	20.0		95.9	84.1-120			
Matrix Spike	Source: 1030736-15			<del></del>							
Mercury		21.5	0.50	ng/l	20.0	4.81	83.6	74.3-125			
Matrix Spike	Source: 1030736-23										
Mercury		23.0	0.50	ng/l	20.0	5.72	85.4	74.3-125			
datrix Spike	Source: 1030770-01							<del>-</del> .			
1ercury		18.8	0.50	ng/l	20.0	0.895	89.5	74.3-125			
Matrix Splke	Source: 1030842-05								-		
dercury		24.0	0.50	ng/l	20.0	6.68	86.5	74.3-125			
latrix Spike Dup	Source: 1030736-15										
1ercury		22,2	0.50	ng/l	20.0	4.81	87.1	74.3-125	3.16	24	
latrix Spike Dup	Source: 1030736-23		····								
1ercury		24.8	0.50	ng/l	20.0	5.72	95.6	74.3-125	7.72	24	
latrix Spike Dup	Source: 1030770-01			··		<del></del>					
lercury		19.0	0.50	ng/l	20.0	0.895	90.8	74.3-125	1.34	24	
latrix Spike Dup	Source: 1030842-05										
1ercury		23.5	0.50	ng/l	20.0	6.68	83.8	74.3-125	2.22	24	
			Me	tals - Diss	olved						
atch B1D0020 - B	rCl Digestion	*****								<del></del> -	
lank			· · · · · · · · · · · · · · · · · · ·			<del></del>	<del></del>	<del></del>			
lercury	1	ND	0.50	ng/l	<del></del> ,			<del></del>			
CS	A SECTION OF THE SECTION OF										<del></del>
lercury		19.8	0.50	ng/l	20.0		99.0	84.1-120		<del></del> -	
latrix Spike	Source: 1030842-02				-414			0 4.1-120			
lercury		21.4	0.50	ng/i	20.0	2.02	96.9	74.3-125	<del></del> -		
latrix Spike Dup	Source: 1030842-02	- /		''स'			30.5	, -1.1-12J			
ercury		21.7	0.50	ng/l	20.0	2.02	98.5	74.3-125	1.49	24	

Basic Laboratory, Inc. California ELAP Cert #1677 and #2718

Page 4 of 5



2218 Railroad Avenue Redding, California 96001

voice 530.243.7234 fax 530.243.7494

3860 Morrow Lane, Suite F Chico, California 95928

voice 530.894.8966 fax 530.894.5143

Report To: ALPHA ANALYTICAL LABS - UKIAH

**208 MASON STREET** 

UKIAH, CA 95482

Attention: SHERI L. SPEAKS Project: LL Hg 1631 11C0790

Lab No: 1030842 Reported: 04/01/11

> Phone: (707) 468-0401

P.O. #

#### **Notes and Definitions**

R-08 The sample was diluted due to sample matrix resulting in elevated reporting limits.

J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag). The J flag is equivalent to the DNQ Estimated Concentration flag.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the detection limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference < Less than reporting limit

≤ Less than or equal to reporting limit

Greater than reporting limit

Greater than or equal to reporting limit

MDL Method Detection Limit RL/ML Minimum Level of Quantitation

MCL/AL Maxium Contaminant Level/Action Level

mg/kg Results reported as wet weight TTLC Total Threshold Limit Concentration 5TLC Soluble Threshold Limit Concentration TCLP Toxicity Characteristic Leachate Procedure

Basic Laboratory, Inc. California ELAP Cert #1677 and #2718

Page 5 of 5

-mail: clientservices@alpha-labs.com Analytical Laboratories Inc.

& Corporate: Laboratory

707-468-0401 Fax: 707-468-5267

6398 Dougherty Rd, Ste 35, Dublin, CA 94568

Service Center

& Micro Lab:

925-828-6226 Fax: 925-828-6309

208 Mason Street, Ukiah, CA 95482

Chain of Custody Record

Reports and Invoices will be delivered by email in .pdf format.

Custody Seals: (lab use only) Sample S. Notes Shipment Method: CDPH Source Numbers: If "Y" please enter the Source Number(s) in the column above include MDL j-flags Sample Notes or Signature below authorizes work under terms stated on reverse side. es ampling Company Log Cod Lab Approval Required For Rush Tata days 5 days 10 days RUSH: Other: TAT CDPH Write On EDT Transmission? CA Geotracker EDF Report 1631 Hg Dissolved; field filtered (Basic) × × × × × × 1631 Hg Total (Basic) × × × × Coliforms - TC & FC Rec (8 hour) 3/10/11/2,45pg State Systom Number × × × × × × **Analyses Requested** × × × × × leto l Boron -× EDF to (Email Addres ravel and Site Time: × × IPH - Diesel × × × × 547 Glyphosate × × 8141 Pesticides, 8151 Herbicides × × × × × 05:50 JV91/20 Time: スジ X 25. MMT, M as sinommA × TDS, TSS, NO3 as N, NO2 as N, Ortho as P × × × × × × na Color, Odor × × × × シントン 3-16-11 Date: 19 19 6 :Total Number of Containers 6 9 6 9 Other Matrix: lioS SURFACE WATER Project Info for Report: Project ID: **Nater AnoN** × × × × × × Preservative: PO/Reference JedtC Project No: **†**0\$₹⊦ × × × × × FONF × TOF × × × × sterile bacti LAB KANLUST Dpl pag clear  $\sim$ N N Container √mber O G Poly ന ന ო 2 Mrz. AOV Im0# 4 Invoice to (if different): 4 4 Received by: 01:01 ,22 95.6 Time Sampled: **Email Address** Date Company: Attn: ラ olo County Natural Resources Division ami.leathers@yolocounty.org 530.406.5773 / 530.661.3466 325 Court Street Room B03 Jpstream Gordon Robbins (R Site) Samplers Signature Stevens Bridge Noodland CA 95695 dentification Gordon Slough Brooks (B Site) Capay Bridge Relinquished by ami Leathers I-5 Bridge Sample nail Address: 2277



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

30 August 2011

Yolo County Natural Resources Division

Attn: Vic Randall

625 Court Street Room B03

Woodland, CA 95695

RE: Surface Water

Work Order: 11H0539

Enclosed are the results of analyses for samples received by the laboratory on 08/10/11 16:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Sheri L. Speaks For David S. Pingatore

Sheri Speaks

Project Manager



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Vic Randall

Yolo County Natural Resources DivisionProject:Surface WaterReported:625 Court Street Room B03Project Number:Surface Water08/30/11 13:55

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Brooks (B Site)	11H0539-01	Water	08/10/11 09:00	08/10/11 16:50
Capay Bridge	11H0539-02	Water	08/10/11 09:45	08/10/11 16:50
Upstream Gordon	11H0539-03	Water	08/10/11 11:15	08/10/11 16:50
Stevens Bridge	11H0539-04	Water	08/10/11 12:30	08/10/11 16:50
Gordon Slough	11H0539-05	Water	08/10/11 12:10	08/10/11 16:50
I-5 Bridge	11H0539-06	Water	08/10/11 13:40	08/10/11 16:50
Robbins (R Site)	11H0539-07	Water	08/10/11 12:55	08/10/11 16:50

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 8/30/2011

Laboratory Director Page 1 of 42



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Vic Randall

Yolo County Natural Resources Division Project: Surface Water
625 Court Street Room B03 Project Number: Surface Water

Reported: 08/30/11 13:55

#### Metals by EPA 200 Series Methods Alpha Analytical Laboratories, Inc.

			Reporting	_	_	_			_	
Analyte	Result	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Brooks (B Site) (11H0539-01) Water	Sampled: 08/10/1	1 09:00	Received: 08	/10/11 16	5:50					
Boron	ND	0.010	0.050	mg/l	1	AH11109	08/11/11 10:36	08/16/11 11:46	EPA 200.7	U
Capay Bridge (11H0539-02) Water S	Sampled: 08/10/11	09:45 1	Received: 08/1	10/11 16::	50					
Boron	1.3	0.010	0.050	mg/l	1	AH11109	08/11/11 10:36	08/16/11 11:50	EPA 200.7	
Upstream Gordon (11H0539-03) Water	r Sampled: 08/1	0/11 11:1	15 Received:	08/10/11	1 16:50					
Boron	2.3	0.010	0.050	mg/l	1	AH11109	08/11/11 10:36	08/16/11 11:55	EPA 200.7	
Stevens Bridge (11H0539-04) Water	Sampled: 08/10/1	1 12:30	Received: 08	/10/11 16	5:50					
Boron	1.5	0.010	0.050	mg/l	1	AH11109	08/11/11 10:36	08/16/11 12:02	EPA 200.7	
Gordon Slough (11H0539-05) Water	Sampled: 08/10/1	1 12:10	Received: 08	3/10/11 16	5:50					
Boron	1.1	0.010	0.050	mg/l	1	AH11109	08/11/11 10:36	08/16/11 12:05	EPA 200.7	
I-5 Bridge (11H0539-06) Water Sam	pled: 08/10/11 13:	40 Rece	eived: 08/10/1	1 16:50						
Boron	1.6	0.010	0.050	mg/l	1	AH11109	08/11/11 10:36	08/16/11 12:09	EPA 200.7	
Robbins (R Site) (11H0539-07) Water	Sampled: 08/10/	11 12:55	Received: 0	)8/10/11 1	16:50					
Boron	1.8	0.010	0.050	mg/l	1	AH11109	08/11/11 10:36	08/16/11 12:12	EPA 200.7	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 8/30/2011

Laboratory Director Page 2 of 42



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Vic Randall

Yolo County Natural Resources Division Project: Surface Water Reported: 625 Court Street Room B03 Project Number: Surface Water 08/30/11 13:55

#### Metals by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

			Reporting							
Analyte	Result	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Brooks (B Site) (11H0539-01) Water</b>	Sampled: 08/10/	11 09:00	Received: 08	3/10/11 16	5:50					
Mercury	0.200	0.200	0.500	ng/l	1	AH12621	08/24/11 15:00	08/26/11 19:06	EPA 1631E	J
Capay Bridge (11H0539-02) Water	Sampled: 08/10/1	1 09:45 R	eceived: 08/1	10/11 16::	50					
Mercury	1.76	0.200	0.500	ng/l	1	AH12621	08/24/11 15:00	08/26/11 19:14	EPA 1631E	
Upstream Gordon (11H0539-03) Wat	er Sampled: 08/	10/11 11:1:	5 Received:	08/10/11	16:50					
Mercury	2.03	0.200	0.500	ng/l	1	AH12621	08/24/11 15:00	08/26/11 19:22	EPA 1631E	
Stevens Bridge (11H0539-04) Water	Sampled: 08/10/1	11 12:30 I	Received: 08	/10/11 16	:50					
Mercury	4.36	0.200	0.500	ng/l	1	AH12621	08/24/11 15:00	08/26/11 19:29	EPA 1631E	
Gordon Slough (11H0539-05) Water	Sampled: 08/10/	11 12:10	Received: 08	3/10/11 16	5:50					
Mercury	7.06	0.200	0.500	ng/l	1	AH12621	08/24/11 15:00	08/26/11 19:37	EPA 1631E	
I-5 Bridge (11H0539-06) Water San	npled: 08/10/11 13	:40 Recei	ved: 08/10/1	1 16:50						
Mercury	4.29	0.200	0.500	ng/l	1	AH12621	08/24/11 15:00	08/26/11 19:45	EPA 1631E	
Robbins (R Site) (11H0539-07) Water	Sampled: 08/10	)/11 12:55	Received: 0	08/10/11 1	6:50					
Mercury	4.61	0.200	0.500	ng/l	1	AH12621	08/24/11 15:00	08/26/11 19:52	EPA 1631E	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 8/30/2011

Laboratory Director Page 3 of 42



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Vic Randall

Yolo County Natural Resources DivisionProject:Surface WaterReported:625 Court Street Room B03Project Number:Surface Water08/30/11 13:55

### Metals (Dissolved) by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

	n t	MDI	Reporting						Mala	Nec
Analyte	Result	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Brooks (B Site) (11H0539-01) Water</b>	Sampled: 08/10/	11 09:00	Received: 08	/10/11 16	5:50					
Mercury, dissolved	0.432	0.200	0.500	ng/l	1	AH11921	08/16/11 18:00	08/19/11 15:58	EPA 1631	J
Capay Bridge (11H0539-02) Water	Sampled: 08/10/11	1 09:45 R	eceived: 08/1	10/11 16::	50					
Mercury, dissolved	1.20	0.200	0.500	ng/l	1	AH11921	08/16/11 18:00	08/19/11 16:06	EPA 1631	
Upstream Gordon (11H0539-03) Wat	er Sampled: 08/	10/11 11:1:	5 Received:	08/10/11	16:50					
Mercury, dissolved	0.973	0.200	0.500	ng/l	1	AH11921	08/16/11 18:00	08/19/11 16:14	EPA 1631	
Stevens Bridge (11H0539-04) Water	Sampled: 08/10/1	11 12:30	Received: 08	/10/11 16	:50					
Mercury, dissolved	1.55	0.200	0.500	ng/l	1	AH11921	08/16/11 18:00	08/19/11 16:21	EPA 1631	
Gordon Slough (11H0539-05) Water	Sampled: 08/10/	11 12:10	Received: 08	3/10/11 16	<b>5:50</b>					
Mercury, dissolved	2.62	0.200	0.500	ng/l	1	AH11921	08/16/11 18:00	08/19/11 16:29	EPA 1631	
I-5 Bridge (11H0539-06) Water San	npled: 08/10/11 13	:40 Recei	ived: 08/10/1	1 16:50						
Mercury, dissolved	1.43	0.200	0.500	ng/l	1	AH11921	08/16/11 18:00	08/19/11 16:37	EPA 1631	
Robbins (R Site) (11H0539-07) Water	Sampled: 08/10	)/11 12:55	Received: 0	8/10/11 1	16:50					
Mercury, dissolved	1.40	0.200	0.500	ng/l	1	AH11921	08/16/11 18:00	08/19/11 16:44	EPA 1631	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 8/30/2011

Laboratory Director Page 4 of 42



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Vic Randall

Yolo County Natural Resources DivisionProject:Surface WaterReported:625 Court Street Room B03Project Number:Surface Water08/30/11 13:55

#### Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

			•							$\overline{}$
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Brooks (B Site) (11H0539-01) Water</b>	Sampled: 08/10/	11 09:00	Received:	08/10/11 16::	50					
Ammonia as N	ND	0.060	0.20	mg/l	1	AH11756	08/18/11 08:00	08/18/11 16:00	SM4500NH3C	U
Color	ND	3.0	5.0	Color Units	"	AH10520	08/11/11 09:15	08/11/11 09:15	SM2120B	U
Odor	2.2		1.0	T.O.N.	"	"	08/11/11 08:10	08/11/11 08:10	EPA 140.1	
Total Dissolved Solids	ND	4.2	10	mg/l	"	AH11213	08/15/11 14:30	08/23/11 13:30	SM2540C	U
Total Kjeldahl Nitrogen	ND	0.10	1.0	"	"	AH11903	08/22/11 07:03	08/22/11 13:02	SM4500-No B	U
Total Suspended Solids	ND	0.30	1.0	"	"	AH11539	08/15/11 11:15	08/18/11 12:09	SM2540D	U
Capay Bridge (11H0539-02) Water	Sampled: 08/10/1	1 09:45	Received: 0	8/10/11 16:50	)					
Ammonia as N	0.070	0.060	0.20	mg/l	1	AH11756	08/18/11 08:00	08/18/11 16:00	SM4500NH3 C	J
Color	11	3.0	5.0	Color Units	"	AH10520	08/11/11 09:15	08/11/11 09:15	SM2120B	
Odor	7.1		1.0	T.O.N.	"	"	08/11/11 08:10	08/11/11 08:10	EPA 140.1	
<b>Total Dissolved Solids</b>	280	4.2	10	mg/l	"	AH11213	08/15/11 14:30	08/23/11 13:30	SM2540C	
Total Kjeldahl Nitrogen	0.35	0.10	1.0	"	"	AH11903	08/22/11 07:03	08/22/11 13:02	SM4500-No B	J
<b>Total Suspended Solids</b>	1.0	0.30	1.0	"	"	AH11539	08/15/11 11:15	08/18/11 12:09	SM2540D	
Upstream Gordon (11H0539-03) Wat	ter Sampled: 08/	10/11 11:	15 Receive	d: 08/10/11	16:50					
Ammonia as N	ND	0.060	0.20	mg/l	1	AH11756	08/18/11 08:00	08/18/11 16:00	SM4500NH3C	U
Color	9.0	3.0	5.0	Color Units	"	AH10520	08/11/11 09:15	08/11/11 09:15	SM2120B	
Odor	3.2		1.0	T.O.N.	"	"	"	"	EPA 140.1	
<b>Total Dissolved Solids</b>	500	4.2	10	mg/l	"	AH11213	08/15/11 14:30	08/23/11 13:30	SM2540C	
Total Kjeldahl Nitrogen	0.28	0.10	1.0	"	"	AH11903	08/22/11 07:03	08/22/11 13:02	SM4500-No B	J
<b>Total Suspended Solids</b>	0.90	0.30	1.0	"	"	AH11539	08/15/11 11:15	08/18/11 12:09	SM2540D	J
Stevens Bridge (11H0539-04) Water	Sampled: 08/10/	11 12:30	Received:	08/10/11 16:5	50					
Ammonia as N	0.14	0.060	0.20	mg/l	1	AH11756	08/18/11 08:00	08/18/11 16:00	SM4500NH3 C	J
Color	30	15	25	Color Units	5	AH10520	08/11/11 09:15	08/11/11 09:15	SM2120B	
Odor	10		1.0	T.O.N.	1	"	"	"	EPA 140.1	
<b>Total Dissolved Solids</b>	300	4.2	10	mg/l	"	AH11213	08/15/11 14:30	08/23/11 13:30	SM2540C	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 8/30/2011

Laboratory Director Page 5 of 42



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Vic Randall

Yolo County Natural Resources DivisionProject:Surface WaterReported:625 Court Street Room B03Project Number:Surface Water08/30/11 13:55

### Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Stevens Bridge (11H0539-04) Water	Sampled: 08/10/	11 12:30	Received:	08/10/11 16:	50					
Total Kjeldahl Nitrogen	0.60	0.10	1.0	mg/l	1	AH11903	08/22/11 07:03	08/22/11 13:02	SM4500-No B	J
<b>Total Suspended Solids</b>	4.5	0.30	1.0	"	"	AH11539	08/15/11 11:15	08/18/11 12:09	SM2540D	
Gordon Slough (11H0539-05) Water	Sampled: 08/10/	/11 12:10	Received:	08/10/11 16:	50					
Ammonia as N	0.18	0.060	0.20	mg/l	1	AH11756	08/19/11 08:00	08/19/11 16:00	SM4500NH3 C	J
Color	24	12	20	Color Units	4	AH10520	08/11/11 09:15	08/11/11 09:15	SM2120B	
Odor	40		1.0	T.O.N.	1	"	"	"	EPA 140.1	
<b>Total Dissolved Solids</b>	220	4.2	10	mg/l	"	AH11213	08/15/11 14:30	08/23/11 13:30	SM2540C	
Total Kjeldahl Nitrogen	0.60	0.10	1.0	"	"	AH11903	08/22/11 07:03	08/22/11 13:02	SM4500-No B	J
<b>Total Suspended Solids</b>	48	0.30	1.0	"	"	AH11539	08/15/11 11:15	08/18/11 12:09	SM2540D	
I-5 Bridge (11H0539-06) Water San	npled: 08/10/11 13	3:40 Rec	eived: 08/10	/11 16:50						
Ammonia as N	0.10	0.060	0.20	mg/l	1	AH11756	08/19/11 08:00	08/19/11 16:00	SM4500NH3 C	J
Color	18	6.0	10	Color Units	2	AH10520	08/11/11 09:15	08/11/11 09:15	SM2120B	
Odor	14		1.0	T.O.N.	1	"	"	"	EPA 140.1	
<b>Total Dissolved Solids</b>	350	4.2	10	mg/l	"	AH11213	08/15/11 14:30	08/23/11 13:30	SM2540C	
Total Kjeldahl Nitrogen	0.56	0.10	1.0	"	"	AH11903	08/22/11 07:03	08/22/11 13:02	SM4500-No B	J
<b>Total Suspended Solids</b>	4.8	0.30	1.0	"	"	AH11539	08/15/11 11:15	08/18/11 12:09	SM2540D	
Robbins (R Site) (11H0539-07) Water	r Sampled: 08/1	0/11 12:55	5 Received	: 08/10/11 16	5:50					
Ammonia as N	0.10	0.060	0.20	mg/l	1	AH11756	08/19/11 08:00	08/19/11 16:00	SM4500NH3 C	J
Color	22	6.0	10	Color Units	2	AH10520	08/11/11 09:15	08/11/11 09:15	SM2120B	
Odor	24		1.0	T.O.N.	1	"	"	"	EPA 140.1	
<b>Total Dissolved Solids</b>	380	4.2	10	mg/l	"	AH11213	08/15/11 14:30	08/23/11 13:30	SM2540C	
Total Kjeldahl Nitrogen	0.56	0.10	1.0	"	"	AH11903	08/22/11 07:03	08/23/11 14:22	SM4500-No B	J
<b>Total Suspended Solids</b>	6.0	0.30	1.0	"	"	AH11539	08/15/11 11:15	08/18/11 12:09	SM2540D	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 8/30/2011

Laboratory Director Page 6 of 42



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Vic Randall

Yolo County Natural Resources DivisionProject:Surface WaterReported:625 Court Street Room B03Project Number:Surface Water08/30/11 13:55

## Anions by EPA Method 300.0 Alpha Analytical Laboratories, Inc.

			<u> </u>							
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Brooks (B Site) (11H0539-01) Water	Sampled: 08/10/	/11 09:00	Received: 0	8/10/11 16	5:50					
Nitrate as N	0.13	0.050	0.20	mg/l	1	AH11111	08/11/11 10:12	08/11/11 18:25	EPA 300.0	J
Nitrite as N	ND	0.010	0.20	"	"	"	"	"	"	U
Orthophosphate as P	ND	0.010	0.10	"	"	"	"	"	"	U
Capay Bridge (11H0539-02) Water	Sampled: 08/10/1	1 09:45	Received: 08/	/10/11 16:	50					
Nitrate as N	0.52	0.050	0.20	mg/l	1	AH11111	08/11/11 10:12	08/11/11 18:55	EPA 300.0	
Nitrite as N	ND	0.010	0.20	"	"	"	"	"	"	U
Orthophosphate as P	ND	0.010	0.10	"	"	"	"	"	"	U
Upstream Gordon (11H0539-03) Wa	ter Sampled: 08/	/10/11 11:	15 Received	l: 08/10/11	1 16:50					
Nitrate as N	4.9	0.050	0.20	mg/l	1	AH11111	08/11/11 10:12	08/11/11 19:10	EPA 300.0	
Nitrite as N	ND	0.010	0.20	"	"	"	"	"	"	U
Orthophosphate as P	ND	0.010	0.10	"	"	"	"	"	"	U
Stevens Bridge (11H0539-04) Water	Sampled: 08/10/	11 12:30	Received: 08	8/10/11 16	5:50					
Nitrate as N	1.4	0.050	0.20	mg/l	1	AH11111	08/11/11 10:12	08/11/11 19:25	EPA 300.0	
Nitrite as N	ND	0.010	0.20	"	"	"	"	"	"	U
Orthophosphate as P	0.23	0.010	0.10	"	"	"	"	"	"	
Gordon Slough (11H0539-05) Water	Sampled: 08/10/	/11 12:10	Received: 0	8/10/11 16	5:50					
Nitrate as N	0.38	0.050	0.20	mg/l	1	AH11111	08/11/11 10:12	08/11/11 19:40	EPA 300.0	
Nitrite as N	ND	0.010	0.20	"	"	"	"	"	"	U
Orthophosphate as P	0.24	0.010	0.10	"	"	"	"	"	"	
I-5 Bridge (11H0539-06) Water San	npled: 08/10/11 13	3:40 Rec	eived: 08/10/	11 16:50						
Nitrate as N	2.0	0.050	0.20	mg/l	1	AH11111	08/11/11 10:12	08/11/11 20:25	EPA 300.0	· ·
Nitrite as N	ND	0.010	0.20	"	"	"	"	"	"	U
Orthophosphate as P	ND	0.010	0.10	"	"	"	"	"	"	U

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 8/30/2011

Laboratory Director Page 7 of 42



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Vic Randall

Yolo County Natural Resources DivisionProject:Surface WaterReported:625 Court Street Room B03Project Number:Surface Water08/30/11 13:55

### Anions by EPA Method 300.0 Alpha Analytical Laboratories, Inc.

Analyte  Robbins (R Site) (11H0539-07) Water	Result  Sampled: 08/1	MDL 0/11 12:55	Reporting Limit  Received:	Units <b>08/10/11</b>	Dilution	Batch	Prepared	Analyzed	Method	Notes
Nitrate as N	3.1	0.050	0.20	mg/l	1	AH11111	08/11/11 10:12	08/11/11 20:41	EPA 300.0	
Nitrite as N	0.033	0.010	0.20	"	"	"	"	"	"	J
Orthophosphate as P	0.21	0.010	0.10	"	"	"	"	"	"	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 8/30/2011

Laboratory Director Page 8 of 42



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Vic Randall

Yolo County Natural Resources Division Project: Surface Water Reported:
625 Court Street Room B03 Project Number: Surface Water 08/30/11 13:55

#### Microbiological Parameters by APHA Standard Methods Alpha Analytical Laboratories, Inc.

Analyte	Result MI	Reporting DL Limit		Dilution	Batch	Prepared	Analyzed	Method	Notes
Brooks (B Site) (11H0539-01) Water	Sampled: 08/10/11 09:	00 Received:	08/10/11 16::	50					
Total Coliforms	ND	2.0	MPN/100 ml	1	AH11536	08/10/11 17:00	08/12/11 17:00	SM9221	U
Fecal Coliforms	ND	2.0	"	"	"	"	"	"	U
Capay Bridge (11H0539-02) Water	Sampled: 08/10/11 09:4	5 Received: (	08/10/11 16:50	0					
Total Coliforms	1600	2.0	MPN/100 ml	1	AH11536	08/10/11 17:00	08/13/11 15:30	SM9221	
Fecal Coliforms	64.0	2.0	"	"	"	"	"	"	
Upstream Gordon (11H0539-03) Wat	ter Sampled: 08/10/11	11:15 Receiv	ed: 08/10/11	16:50					
Total Coliforms	500.0	2.0	MPN/100 ml	1	AH11536	08/10/11 17:00	08/14/11 13:15	SM9221	
Fecal Coliforms	17.0	2.0	"	"	"	"	"	"	
Stevens Bridge (11H0539-04) Water	Sampled: 08/10/11 12:3	Received:	08/10/11 16:5	50					
Total Coliforms	>1600	2.0	MPN/100 ml	1	AH11536	08/10/11 17:00	08/12/11 14:00	SM9221	
Fecal Coliforms	1600	2.0	"	"	"	"	"	"	
Gordon Slough (11H0539-05) Water	Sampled: 08/10/11 12:	10 Received:	08/10/11 16:	50					
Total Coliforms	>1600	2.0	MPN/100 ml	1	AH11536	08/10/11 17:00	08/12/11 14:00	SM9221	
Fecal Coliforms	500.0	2.0	"	"	"	"	"	"	
I-5 Bridge (11H0539-06) Water Sar	npled: 08/10/11 13:40 F	Received: 08/1	0/11 16:50						
Total Coliforms	1600	2.0	MPN/100 ml	1	AH11536	08/10/11 17:00	08/14/11 13:15	SM9221	
Fecal Coliforms	300.0	2.0	"	"	"	"	"	"	
Robbins (R Site) (11H0539-07) Water	r Sampled: 08/10/11 12	::55 Received	1: 08/10/11 16	5:50					
Total Coliforms	>1600	2.0	MPN/100 ml	1	AH11536	08/10/11 17:00	08/12/11 14:00	SM9221	
Fecal Coliforms	900.0	2.0	"	"	"	"	"	"	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 8/30/2011

Laboratory Director Page 9 of 42



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Vic Randall

Yolo County Natural Resources Division Project: Surface Water Reported:
625 Court Street Room B03 Project Number: Surface Water 08/30/11 13:55

## TPH by EPA/LUFT GC/GCMS Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Brooks (B Site) (11H0539-01) Water	Sampled: 08/10	/11 09:00	Received: 08	8/10/11 10	5:50					
TPH as Diesel	ND	10	50	ug/l	1	AH11222	08/15/11 12:46	08/15/11 20:59	8015DRO	U
TPH as Gasoline	ND	50	50	"	"	AH11205	08/11/11 08:00	08/11/11 16:46	8260GRO	U
Surrogate: Tetratetracontane		91.1 %	27-1.	24		AH11222	08/15/11 12:46	08/15/11 20:59	8015DRO	
Surrogate: Toluene-d8		98.2 %	76-1.	29		AH11205	08/11/11 08:00	08/11/11 16:46	8260GRO	
Capay Bridge (11H0539-02) Water	Sampled: 08/10/	11 09:45	Received: 08/	10/11 16:	50					
TPH as Diesel	ND	10	50	ug/l	1	AH11222	08/15/11 12:46	08/15/11 21:34	8015DRO	U
TPH as Gasoline	ND	50	50	"	"	AH11205	08/11/11 08:00	08/11/11 17:20	8260GRO	U
Surrogate: Tetratetracontane		90.5 %	27-1.	24		AH11222	08/15/11 12:46	08/15/11 21:34	8015DRO	
Surrogate: Toluene-d8		97.5 %	76-1.	29		AH11205	08/11/11 08:00	08/11/11 17:20	8260GRO	
Upstream Gordon (11H0539-03) Wate	er Sampled: 08	3/10/11 11:	15 Received	: 08/10/11	16:50					
TPH as Diesel	ND	10	50	ug/l	1	AH11222	08/15/11 12:46	08/15/11 22:09	8015DRO	U
TPH as Gasoline	ND	50	50	"	"	AH11205	08/11/11 08:00	08/11/11 17:54	8260GRO	U
Surrogate: Tetratetracontane		106 %	27-1.	24		AH11222	08/15/11 12:46	08/15/11 22:09	8015DRO	
Surrogate: Toluene-d8		98.5 %	76-1.	29		AH11205	08/11/11 08:00	08/11/11 17:54	8260GRO	
Stevens Bridge (11H0539-04) Water	Sampled: 08/10	/11 12:30	Received: 08	3/10/11 16	5:50					
TPH as Diesel	ND	10	50	ug/l	1	AH11222	08/15/11 12:46	08/15/11 22:43	8015DRO	U
TPH as Gasoline	ND	50	50	"	"	AH11205	08/11/11 08:00	08/11/11 18:28	8260GRO	U
Surrogate: Tetratetracontane		90.9 %	27-1.	24		AH11222	08/15/11 12:46	08/15/11 22:43	8015DRO	
Surrogate: Toluene-d8		98.0 %	76-1.	29		AH11205	08/11/11 08:00	08/11/11 18:28	8260GRO	
Gordon Slough (11H0539-05) Water	Sampled: 08/10	)/11 12:10	Received: 08	8/10/11 10	5:50					
TPH as Diesel	ND	10	50	ug/l	1	AH11222	08/15/11 12:46	08/15/11 23:18	8015DRO	U
TPH as Gasoline	ND	50	50	"	"	AH11205	08/11/11 08:00	08/11/11 19:02	8260GRO	U
Surrogate: Tetratetracontane		90.2 %	27-1.	24		AH11222	08/15/11 12:46	08/15/11 23:18	8015DRO	
Surrogate: Toluene-d8		97.8 %	76-1.	29		AH11205	08/11/11 08:00	08/11/11 19:02	8260GRO	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 8/30/2011

Laboratory Director Page 10 of 42



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Vic Randall

Yolo County Natural Resources DivisionProject:Surface WaterReported:625 Court Street Room B03Project Number:Surface Water08/30/11 13:55

# TPH by EPA/LUFT GC/GCMS Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
I-5 Bridge (11H0539-06) Water Samp	pled: 08/10/11 13	3:40 Recei	ived: 08/10/1	1 16:50						
TPH as Diesel	ND	10	50	ug/l	1	AH11222	08/15/11 12:46	08/15/11 23:53	8015DRO	U
TPH as Gasoline	ND	50	50	"	"	AH11205	08/11/11 08:00	08/11/11 19:35	8260GRO	U
Surrogate: Tetratetracontane		93.1 %	27-12	4		AH11222	08/15/11 12:46	08/15/11 23:53	8015DRO	
Surrogate: Toluene-d8		98.4 %	76-12	9		AH11205	08/11/11 08:00	08/11/11 19:35	8260GRO	
Robbins (R Site) (11H0539-07) Water	Sampled: 08/1	0/11 12:55	Received: 0	8/10/11	16:50					
TPH as Diesel	ND	10	50	ug/l	1	AH11222	08/15/11 12:46	08/16/11 02:46	8015DRO	U
TPH as Gasoline	ND	50	50	"	"	AH11205	08/11/11 08:00	08/11/11 20:09	8260GRO	U
Surrogate: Tetratetracontane		81.8 %	27-12	4		AH11222	08/15/11 12:46	08/16/11 02:46	8015DRO	
Surrogate: Toluene-d8		99.6 %	76-12	9		AH11205	08/11/11 08:00	08/11/11 20:09	8260GRO	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 8/30/2011

Laboratory Director Page 11 of 42



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Vic Randall

Yolo County Natural Resources Division Project: Surface Water Reported: 625 Court Street Room B03 Project Number: Surface Water 08/30/11 13:55

#### Glyphosate by EPA Method 547 Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Brooks (B Site) (11H0539-01) Water</b>	Sampled: 08/10/1	1 09:00	Received: 08	3/10/11 16:	50					
Glyphosate	ND	3.0	10	ug/l	1	AH11537	08/15/11 10:59	08/16/11 03:39	EPA 547	U
Capay Bridge (11H0539-02) Water	Sampled: 08/10/11	09:45	Received: 08/	10/11 16:5	0					
Glyphosate	ND	3.0	10	ug/l	1	AH11537	08/15/11 10:59	08/16/11 04:12	EPA 547	U
Upstream Gordon (11H0539-03) Wat	er Sampled: 08/1	0/11 11:	15 Received:	08/10/11	16:50					
Glyphosate	ND	3.0	10	ug/l	1	AH11537	08/15/11 10:59	08/16/11 04:45	EPA 547	U
Stevens Bridge (11H0539-04) Water	Sampled: 08/10/1	1 12:30	Received: 08	/10/11 16:	50					
Glyphosate	ND	3.0	10	ug/l	1	AH11537	08/15/11 10:59	08/16/11 05:51	EPA 547	U
Gordon Slough (11H0539-05) Water	Sampled: 08/10/1	1 12:10	Received: 08	3/10/11 16	:50					
Glyphosate	ND	3.0	10	ug/l	1	AH11537	08/15/11 10:59	08/16/11 06:24	EPA 547	U
I-5 Bridge (11H0539-06) Water San	npled: 08/10/11 13:	40 Rec	eived: 08/10/1	1 16:50						
Glyphosate	ND	3.0	10	ug/l	1	AH11537	08/15/11 10:59	08/16/11 06:56	EPA 547	U
Robbins (R Site) (11H0539-07) Water	Sampled: 08/10/	11 12:55	Received: (	08/10/11 1	6:50					
Glyphosate	ND	3.0	10	ug/l		AH11537		08/16/11 07:29	EPA 547	U

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 8/30/2011

Laboratory Director Page 12 of 42



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Vic Randall

Yolo County Natural Resources DivisionProject:Surface WaterReported:625 Court Street Room B03Project Number:Surface Water08/30/11 13:55

#### Chlorinated Herbicides by EPA Method 8151A Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Brooks (B Site) (11H0539-01) Water	Sampled: 08/10	/11 09:00	Received: 08	8/10/11 16	:50					
2,4-D	ND	0.60	1.0	ug/l	1	AH11624	08/17/11 10:41	08/23/11 00:31	EPA 8151A	U
2,4-DB	ND	2.0	5.0	"	"	"	"	"	"	U
2,4,5-T	ND	0.20	0.50	"	"	"	"	"	"	U
2,4,5-TP (Silvex)	ND	0.20	0.50	"	"	"	"	"	"	U
Dalapon	ND	0.60	6.0	"	"	"	"	"	"	U
Dicamba	ND	0.060	0.40	"	"	"	"	"	"	U
Dinoseb	ND	0.40	1.0	"	"	"	"	"	"	U
MCPA	ND	100	300	"	"	"	"	"	"	U
MCPP	ND	90	300	"	"	"	"	"	"	U
Dichlorprop	ND	0.50	1.0	"	"	"	"	"	"	U
Pentachlorophenol	ND	0.070	0.20	"	"	"	"	"	"	U
Picloram	ND	0.80	1.0	"	"	"	"	"	"	U
Surrogate: DCAA		90.7 %	62-1	24		"	"	"	"	
Capay Bridge (11H0539-02) Water	Sampled: 08/10/1	11 09:45	Received: 08/	/10/11 16:	50					
2,4-D	ND	0.60	1.0	ug/l	1	AH11624	08/17/11 10:41	08/23/11 01:08	EPA 8151A	U
2,4-DB	ND	2.0	5.0	"	"	"	"	"	"	U
2,4,5-T	ND	0.20	0.50	"	"	"	"	"	"	U
2,4,5-TP (Silvex)	ND	0.20	0.50	"	"	"	"	"	"	U
Dalapon	ND	0.60	6.0	"	"	"	"	"	"	U
Dicamba	ND	0.060	0.40	"	"	"	"	"	"	U
Dinoseb	ND	0.40	1.0	"	"	"	"	"	"	U
MCPA	ND	100	300	"	"	"	"	"	"	U
MCPP	ND	90	300	"	"	"	"	"	"	U
Dichlorprop	ND	0.50	1.0	"	"	"	"	"	"	U
Pentachlorophenol	ND	0.070	0.20	"	"	"	"	"	"	U
Picloram	ND	0.80	1.0	"	"	"	"	"	"	U
Surrogate: DCAA		102 %	62-1			,,	"	"	"	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove

Laboratory Director Page 13 of 42

8/30/2011



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Project Manager: Vic Randall Woodland CA, 95695

Yolo County Natural Resources Division Reported: Project: Surface Water 08/30/11 13:55 Project Number: Surface Water 625 Court Street Room B03

#### **Chlorinated Herbicides by EPA Method 8151A** Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Upstream Gordon (11H0539-03) Water	Sampled: 08	/10/11 11:15	Received	: 08/10/11	16:50					
2,4-D	ND	0.60	1.0	ug/l	1	AH11624	08/17/11 10:41	08/23/11 01:45	EPA 8151A	U
2,4-DB	ND	2.0	5.0	"	"	"	"	"	"	U
2,4,5-T	ND	0.20	0.50	"	"	"	"	"	"	U
2,4,5-TP (Silvex)	ND	0.20	0.50	"	"	"	"	"	"	U
Dalapon	ND	0.60	6.0	"	"	"	"	"	"	U
Dicamba	ND	0.060	0.40	"	"	"	"	"	"	U
Dinoseb	ND	0.40	1.0	"	"	"	"	"	"	U
MCPA	ND	100	300	"	"	"	"	"	"	U
MCPP	ND	90	300	"	"	"	"	"	"	U
Dichlorprop	ND	0.50	1.0	"	"	"	"	"	"	U
Pentachlorophenol	ND	0.070	0.20	"	"	"	"	"	"	U
Picloram	ND	0.80	1.0	"	"	"	"	"	"	U
Surrogate: DCAA		97.3 %	62-1.	24		"	"	"	"	
Stevens Bridge (11H0539-04) Water S	ampled: 08/10	/11 12:30 R	eceived: 08	3/10/11 16	:50					
2,4-D	ND	0.60	1.0	ug/l	1	AH11624	08/17/11 10:41	08/23/11 02:22	EPA 8151A	U
2,4-DB	ND	2.0	5.0	"	"	"	"	"	"	U
2,4,5-T	ND	0.20	0.50	"	"	"	"	"	"	U
2,4,5-TP (Silvex)	ND	0.20	0.50	"	"	"	"	"	"	U
Dalapon	ND	0.60	6.0	"	"	"	"	"	"	U
Dicamba	ND	0.060	0.40	"	"	"	"	"	"	U
Dinoseb	ND	0.40	1.0	"	"	"	"	"	"	U
MCPA	ND	100	300	"	"	"	"	"	"	U
MCPP	ND	90	300	"	"	"	"	"	"	U
Dichlorprop	ND	0.50	1.0	"	"	"	"	"	"	U
Pentachlorophenol	ND	0.070	0.20	"	"	"	"	"	"	U
Picloram	ND	0.80	1.0	"	"	"	"	"	"	U
Surrogate: DCAA		106 %	62-1.	24		"	"	"	"	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove

Page 14 of 42 Laboratory Director

8/30/2011



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Project Manager: Vic Randall Woodland CA, 95695

Reported: Yolo County Natural Resources Division Project: Surface Water 08/30/11 13:55 Project Number: Surface Water 625 Court Street Room B03

#### **Chlorinated Herbicides by EPA Method 8151A** Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gordon Slough (11H0539-05) Water	Sampled: 08/10	)/11 12:10	Received: 0	8/10/11 16	5:50					
2,4-D	ND	0.60	1.0	ug/l	1	AH11624	08/17/11 10:41	08/23/11 02:59	EPA 8151A	U
2,4-DB	ND	2.0	5.0	"	"	"	"	"	"	U
2,4,5-T	ND	0.20	0.50	"	"	"	"	"	"	U
2,4,5-TP (Silvex)	ND	0.20	0.50	"	"	"	"	"	"	U
Dalapon	ND	0.60	6.0	"	"	"	"	"	"	U
Dicamba	ND	0.060	0.40	"	"	"	"	"	"	U
Dinoseb	ND	0.40	1.0	"	"	"	"	"	"	U
MCPA	ND	100	300	"	"	"	"	"	"	U
MCPP	ND	90	300	"	"	"	"	"	"	U
Dichlorprop	ND	0.50	1.0	"	"	"	"	"	"	U
Pentachlorophenol	ND	0.070	0.20	"	"	"	"	"	"	U
Picloram	ND	0.80	1.0	"	"	"	"	"	"	U
Surrogate: DCAA		92.3 %	62-1	24		"	"	"	"	
I-5 Bridge (11H0539-06) Water San	npled: 08/10/11 1	3:40 Rec	eived: 08/10/1	11 16:50						
2,4-D	ND	0.60	1.0	ug/l	1	AH11624	08/17/11 10:41	08/23/11 03:35	EPA 8151A	U
2,4-DB	ND	2.0	5.0	"	"	"	"	"	"	U
2,4,5-T	ND	0.20	0.50	"	"	"	"	"	"	U
2,4,5-TP (Silvex)	ND	0.20	0.50	"	"	"	"	"	"	U
Dalapon	ND	0.60	6.0	"	"	"	"	"	"	U
Dicamba	ND	0.060	0.40	"	"	"	"	"	"	U
Dinoseb	ND	0.40	1.0	"	"	"	"	"	"	U
MCPA	ND	100	300	"	"	"	"	"	"	U
MCPP	ND	90	300	"	"	"	"	"	"	U
Dichlorprop	ND	0.50	1.0	"	"	"	"	"	"	U
Pentachlorophenol	ND	0.070	0.20	"	"	"	"	"	"	U
Picloram	ND	0.80	1.0	"	"	"	"	"	"	U
Surrogate: DCAA		98.9 %	62-1	2.4		"	"	,,	"	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove

8/30/2011

Laboratory Director



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Vic Randall

Yolo County Natural Resources DivisionProject:Surface WaterReported:625 Court Street Room B03Project Number:Surface Water08/30/11 13:55

#### Chlorinated Herbicides by EPA Method 8151A Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Robbins (R Site) (11H0539-07) Water	Sampled: 08/1	10/11 12:55	Received:	08/10/11	16:50					
2,4-D	ND	0.60	1.0	ug/l	1	AH11624	08/17/11 10:41	08/23/11 04:12	EPA 8151A	U
2,4-DB	ND	2.0	5.0	"	"	"	"	"	"	U
2,4,5-T	ND	0.20	0.50	"	"	"	"	"	"	U
2,4,5-TP (Silvex)	ND	0.20	0.50	"	"	"	"	"	"	U
Dalapon	ND	0.60	6.0	"	"	"	"	"	"	U
Dicamba	ND	0.060	0.40	"	"	"	"	"	"	U
Dinoseb	ND	0.40	1.0	"	"	"	"	"	"	U
MCPA	ND	100	300	"	"	"	"	"	"	U
MCPP	ND	90	300	"	"	"	"	"	"	U
Dichlorprop	ND	0.50	1.0	"	"	"	"	"	"	U
Pentachlorophenol	ND	0.070	0.20	"	"	"	"	"	"	U
Picloram	ND	0.80	1.0	"	"	"	"	"	"	U
Surrogate: DCAA		93.1 %	62-1	24		"	"	"	"	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 8/30/2011

Laboratory Director Page 16 of 42



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Vic Randall

Yolo County Natural Resources Division Project: Surface Water Reported:
625 Court Street Room B03 Project Number: Surface Water 08/30/11 13:55

# Organophosphorus Compounds by EPA Method 8141A Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Brooks (B Site) (11H0539-01) Water	Sampled: 08/10	/11 09:00	Received: 08	8/10/11 16	:50					
Azinphos ethyl	ND	0.20	2.0	ug/l	1	AH11203	08/12/11 07:10	08/18/11 02:10	EPA 8141A	U
Azinphos methyl	ND	0.40	2.0	"	"	"	"	"	"	U
Bolstar	ND	0.20	1.0	"	"	"	"	"	"	U
Chlorpyrifos	ND	0.20	0.50	"	"	"	"	"	"	U
Coumaphos	ND	0.50	2.0	"	"	"	"	"	"	U
Demeton-o	ND	0.10	1.0	"	"	"	"	"	"	U
Demeton-s	ND	0.20	1.0	"	"	"	"	"	"	U
Diazinon	ND	0.30	0.50	"	"	"	"	"	"	U
Dichlorvos	ND	0.30	1.0	"	"	"	"	"	"	U
Dimethoate	ND	0.20	2.0	"	"	"	"	"	"	U
Disulfoton	ND	0.30	0.50	"	"	"	"	"	"	U
EPN	ND	0.30	1.0	"	"	"	"	"	"	U
Ethion	ND	0.30	0.50	"	"	"	"	"	"	U
Ethoprop (Ethoprophos)	ND	0.30	1.0	"	"	"	"	"	"	U
Famphur	ND	0.30	0.50	"	"	"	"	"	"	U
Fensulfothion	ND	0.40	2.0	"	"	"	"	"	"	U
Fenthion	ND	0.20	0.50	"	"	"	"	"	"	U
Malathion	ND	0.30	0.50	"	"	"	"	"	"	U
Mevinphos	ND	0.20	1.0	"	"	"	"	"	"	U
Parathion	ND	0.30	0.50	"	"	"	"	"	"	U
Parathion-methyl	ND	0.20	0.50	"	"	"	"	"	"	U
Phorate	ND	0.20	0.50	"	"	"	"	"	"	U
Ronnel	ND	0.20	0.50	"	"	"	"	"	"	U
Simazine	ND	0.30	0.50	"	"	"	"	"	"	U
Stirofos	ND	0.30	0.50	"	"	"	"	"	"	U
Thionazin	ND	0.20	1.0	"	"	"	"	"	"	U
Tokuthion (Prothiofos)	ND	0.20	1.0	"	"	"	"	"	"	U
Trichloronate	ND	0.30	1.0	"	"	"	"	"	"	U
Surrogate: Tributyl phosphate		68.9 %	37-1	15		"	"	"	"	
Surrogate: Triphenyl phosphate		91.1 %	44-1	45		"	"	"	"	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 8/30/2011

Laboratory Director Page 17 of 42



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Vic Randall

Yolo County Natural Resources Division Project: Surface Water Reported: 625 Court Street Room B03 Project Number: Surface Water 08/30/11 13:55

# Organophosphorus Compounds by EPA Method 8141A Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Capay Bridge (11H0539-02) Water	Sampled: 08/10/1	1 09:45	Received: 08/1	10/11 16::	50					
Azinphos ethyl	ND	0.20	2.0	ug/l	1	AH11203	08/12/11 07:10	08/18/11 03:20	EPA 8141A	U
Azinphos methyl	ND	0.40	2.0	"	"	"	"	"	"	U
Bolstar	ND	0.20	1.0	"	"	"	"	"	"	U
Chlorpyrifos	ND	0.20	0.50	"	"	"	"	"	"	U
Coumaphos	ND	0.50	2.0	"	"	"	"	"	"	U
Demeton-o	ND	0.10	1.0	"	"	"	"	"	"	U
Demeton-s	ND	0.20	1.0	"	"	"	"	"	"	U
Diazinon	ND	0.30	0.50	"	"	"	"	"	"	U
Dichlorvos	ND	0.30	1.0	"	"	"	"	"	"	U
Dimethoate	ND	0.20	2.0	"	"	"	"	"	"	U
Disulfoton	ND	0.30	0.50	"	"	"	"	"	"	U
EPN	ND	0.30	1.0	"	"	"	"	"	"	U
Ethion	ND	0.30	0.50	"	"	"	"	"	"	U
Ethoprop (Ethoprophos)	ND	0.30	1.0	"	"	"	"	"	"	U
Famphur	ND	0.30	0.50	"	"	"	"	"	"	U
Fensulfothion	ND	0.40	2.0	"	"	"	"	"	"	U
Fenthion	ND	0.20	0.50	"	"	"	"	"	"	U
Malathion	ND	0.30	0.50	"	"	"	"	"	"	U
Mevinphos	ND	0.20	1.0	"	"	"	"	"	"	U
Parathion	ND	0.30	0.50	"	"	"	"	"	"	U
Parathion-methyl	ND	0.20	0.50	"	"	"	"	"	"	U
Phorate	ND	0.20	0.50	"	"	"	"	"	"	U
Ronnel	ND	0.20	0.50	"	"	"	"	"	"	U
Simazine	ND	0.30	0.50	"	"	"	"	"	"	U
Stirofos	ND	0.30	0.50	"	"	"	"	"	"	U
Thionazin	ND	0.20		"	"	"	"	"	"	U
Tokuthion (Prothiofos)	ND	0.20		"	"	"	"	"	"	U
Trichloronate	ND	0.30		"	"	"	"	"	"	U
Surrogate: Tributyl phosphate		71.0 %		5		"	"	"	"	
Surrogate: Triphenyl phosphate		97.6 %		15		"	"	"	"	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove

Laboratory Director Page 18 of 42

8/30/2011



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Vic Randall

Yolo County Natural Resources DivisionProject:Surface WaterReported:625 Court Street Room B03Project Number:Surface Water08/30/11 13:55

# Organophosphorus Compounds by EPA Method 8141A Alpha Analytical Laboratories, Inc.

Analyte	Result	I MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Upstream Gordon (11H0539-03) Water	Sampled: 08/	10/11 11:15	Received	08/10/11	16:50					
Azinphos ethyl	ND	0.20	2.0	ug/l	1	AH11203	08/12/11 07:10	08/18/11 04:30	EPA 8141A	U
Azinphos methyl	ND	0.40	2.0	"	"	"	"	"	"	U
Bolstar	ND	0.20	1.0	"	"	"	"	"	"	U
Chlorpyrifos	ND	0.20	0.50	"	"	"	"	"	"	U
Coumaphos	ND	0.50	2.0	"	"	"	"	"	"	U
Demeton-o	ND	0.10	1.0	"	"	"	"	"	"	U
Demeton-s	ND	0.20	1.0	"	"	"	"	"	"	U
Diazinon	ND	0.30	0.50	"	"	"	"	"	"	U
Dichlorvos	ND	0.30	1.0	"	"	"	"	"	"	U
Dimethoate	ND	0.20	2.0	"	"	"	"	"	"	U
Disulfoton	ND	0.30	0.50	"	"	"	"	"	"	U
EPN	ND	0.30	1.0	"	"	"	"	"	"	U
Ethion	ND	0.30	0.50	"	"	"	"	"	"	U
Ethoprop (Ethoprophos)	ND	0.30	1.0	"	"	"	"	"	"	U
Famphur	ND	0.30	0.50	"	"	"	"	"	"	U
Fensulfothion	ND	0.40	2.0	"	"	"	"	"	"	U
Fenthion	ND	0.20	0.50	"	"	"	"	"	"	U
Malathion	ND	0.30	0.50	"	"	"	"	"	"	U
Mevinphos	ND	0.20	1.0	"	"	"	"	"	"	U
Parathion	ND	0.30	0.50	"	"	"	"	"	"	U
Parathion-methyl	ND	0.20	0.50	"	"	"	"	"	"	U
Phorate	ND	0.20	0.50	"	"	"	"	"	"	U
Ronnel	ND	0.20	0.50	"	"	"	"	"	"	U
Simazine	ND	0.30	0.50	"	"	"	"	"	"	U
Stirofos	ND	0.30	0.50	"	"	"	"	"	"	U
Thionazin	ND	0.20	1.0	"	"	"	"	"	"	U
Tokuthion (Prothiofos)	ND	0.20	1.0	"	"	"	"	"	"	U
Trichloronate	ND	0.30	1.0	"	"	"	"	"	"	U
Surrogate: Tributyl phosphate		70.4 %	37-11	15		"	"	"	"	
Surrogate: Triphenyl phosphate		99.1 %	44-1	45		"	"	"	"	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 8/30/2011

Laboratory Director Page 19 of 42



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Vic Randall

Yolo County Natural Resources Division Project: Surface Water Reported: 625 Court Street Room B03 Project Number: Surface Water 08/30/11 13:55

# Organophosphorus Compounds by EPA Method 8141A Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Stevens Bridge (11H0539-04) Water	Sampled: 08/10/	/11 12:30	Received: 08	3/10/11 16:	:50					
Azinphos ethyl	ND	0.20	2.0	ug/l	1	AH11203	08/12/11 07:10	08/18/11 05:40	EPA 8141A	U
Azinphos methyl	ND	0.40	2.0	"	"	"	"	"	"	U
Bolstar	ND	0.20	1.0	"	"	"	"	"	"	U
Chlorpyrifos	ND	0.20	0.50	"	"	"	"	"	"	U
Coumaphos	ND	0.50	2.0	"	"	"	"	"	"	U
Demeton-o	ND	0.10	1.0	"	"	"	"	"	"	U
Demeton-s	ND	0.20	1.0	"	"	"	"	"	"	U
Diazinon	ND	0.30	0.50	"	"	"	"	"	"	U
Dichlorvos	ND	0.30	1.0	"	"	"	"	"	"	U
Dimethoate	ND	0.20	2.0	"	"	"	"	"	"	U
Disulfoton	ND	0.30	0.50	"	"	"	"	"	"	U
EPN	ND	0.30	1.0	"	"	"	"	"	"	U
Ethion	ND	0.30	0.50	"	"	"	"	"	"	U
Ethoprop (Ethoprophos)	ND	0.30	1.0	"	"	"	"	"	"	U
Famphur	ND	0.30	0.50	"	"	"	"	"	"	U
Fensulfothion	ND	0.40	2.0	"	"	"	"	"	"	U
Fenthion	ND	0.20	0.50	"	"	"	"	"	"	U
Malathion	ND	0.30	0.50	"	"	"	"	"	"	U
Mevinphos	ND	0.20	1.0	"	"	"	"	"	"	U
Parathion	ND	0.30	0.50	"	"	"	"	"	"	U
Parathion-methyl	ND	0.20	0.50	"	"	"	"	"	"	U
Phorate	ND	0.20	0.50	"	"	"	"	"	"	U
Ronnel	ND	0.20	0.50	"	"	"	"	"	"	U
Simazine	ND	0.30	0.50	"	"	"	"	"	"	U
Stirofos	ND	0.30	0.50	"	"	"	"	"	"	U
Thionazin	ND	0.20	1.0	"	"	"	"	"	"	U
Tokuthion (Prothiofos)	ND	0.20	1.0	"	"	"	"	"	"	U
Trichloronate	ND	0.30	1.0	"	"	"	"	"	"	U
Surrogate: Tributyl phosphate		69.9 %	37-1	15		"	"	"	"	
Surrogate: Triphenyl phosphate		91.7 %	44-1			"	"	"	"	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 8/30/2011

Laboratory Director Page 20 of 42



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Vic Randall

Yolo County Natural Resources DivisionProject:Surface WaterReported:625 Court Street Room B03Project Number:Surface Water08/30/11 13:55

# Organophosphorus Compounds by EPA Method 8141A Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gordon Slough (11H0539-05) Water	Sampled: 08/10/	/11 12:10	Received: 08	8/10/11 16	:50					
Azinphos ethyl	ND	0.20	2.0	ug/l	1	AH11203	08/12/11 07:10	08/18/11 06:50	EPA 8141A	U
Azinphos methyl	ND	0.40	2.0	"	"	"	"	"	"	U
Bolstar	ND	0.20	1.0	"	"	"	"	"	"	U
Chlorpyrifos	ND	0.20	0.50	"	"	"	"	"	"	U
Coumaphos	ND	0.50	2.0	"	"	"	"	"	"	U
Demeton-o	ND	0.10	1.0	"	"	"	"	"	"	U
Demeton-s	ND	0.20	1.0	"	"	"	"	"	"	U
Diazinon	ND	0.30	0.50	"	"	"	"	"	"	U
Dichlorvos	ND	0.30	1.0	"	"	"	"	"	"	U
Dimethoate	ND	0.20	2.0	"	"	"	"	"	"	U
Disulfoton	ND	0.30	0.50	"	"	"	"	"	"	U
EPN	ND	0.30	1.0	"	"	"	"	"	"	U
Ethion	ND	0.30	0.50	"	"	"	"	"	"	U
Ethoprop (Ethoprophos)	ND	0.30	1.0	"	"	"	"	"	"	U
Famphur	ND	0.30	0.50	"	"	"	"	"	"	U
Fensulfothion	ND	0.40	2.0	"	"	"	"	"	"	U
Fenthion	ND	0.20	0.50	"	"	"	"	"	"	U
Malathion	ND	0.30	0.50	"	"	"	"	"	"	U
Mevinphos	ND	0.20	1.0	"	"	"	"	"	"	U
Parathion	ND	0.30	0.50	"	"	"	"	"	"	U
Parathion-methyl	ND	0.20	0.50	"	"	"	"	"	"	U
Phorate	ND	0.20	0.50	"	"	"	"	"	"	U
Ronnel	ND	0.20	0.50	"	"	"	"	"	"	U
Simazine	ND	0.30	0.50	"	"	"	"	"	"	U
Stirofos	ND	0.30	0.50	"	"	"	"	"	"	U
Thionazin	ND	0.20	1.0	"	"	"	"	"	"	U
Tokuthion (Prothiofos)	ND	0.20	1.0	"	"	"	"	"	"	U
Trichloronate	ND	0.30	1.0	"	"	"	"	"	"	U
Surrogate: Tributyl phosphate		68.4 %	37-1	15		"	"	"	"	
Surrogate: Triphenyl phosphate		86.5 %	44-1	45		"	"	"	"	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 8/30/2011

Laboratory Director Page 21 of 42



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Vic Randall

Yolo County Natural Resources Division Project: Surface Water Reported: 625 Court Street Room B03 Project Number: Surface Water 08/30/11 13:55

# Organophosphorus Compounds by EPA Method 8141A Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
I-5 Bridge (11H0539-06) Water	Sampled: 08/10/11 1	3:40 Rece	ived: 08/10/11	16:50						
Azinphos ethyl	ND	0.20	2.0	ug/l	1	AH11203	08/12/11 07:10	08/18/11 07:59	EPA 8141A	U
Azinphos methyl	ND	0.40	2.0	"	"	"	"	"	"	U
Bolstar	ND	0.20	1.0	"	"	"	"	"	"	U
Chlorpyrifos	ND	0.20	0.50	"	"	"	"	"	"	U
Coumaphos	ND	0.50	2.0	"	"	"	"	"	"	U
Demeton-o	ND	0.10	1.0	"	"	"	"	"	"	U
Demeton-s	ND	0.20	1.0	"	"	"	"	"	"	U
Diazinon	ND	0.30	0.50	"	"	"	"	"	"	U
Dichlorvos	ND	0.30	1.0	"	"	"	"	"	"	U
Dimethoate	ND	0.20	2.0	"	"	"	"	"	"	U
Disulfoton	ND	0.30	0.50	"	"	"	"	"	"	U
EPN	ND	0.30	1.0	"	"	"	"	"	"	U
Ethion	ND	0.30	0.50	"	"	"	"	"	"	U
Ethoprop (Ethoprophos)	ND	0.30	1.0	"	"	"	"	"	"	U
Famphur	ND	0.30	0.50	"	"	"	"	"	"	U
Fensulfothion	ND	0.40	2.0	"	"	"	"	"	"	U
Fenthion	ND	0.20	0.50	"	"	"	"	"	"	U
Malathion	ND	0.30	0.50	"	"	"	"	"	"	U
Mevinphos	ND	0.20	1.0	"	"	"	"	"	"	U
Parathion	ND	0.30	0.50	"	"	"	"	"	"	U
Parathion-methyl	ND	0.20	0.50	"	"	"	"	"	"	U
Phorate	ND	0.20	0.50	"	"	"	"	"	"	U
Ronnel	ND	0.20	0.50	"	"	"	"	"	"	U
Simazine	ND	0.30	0.50	"	"	"	"	"	"	U
Stirofos	ND	0.30	0.50	"	"	"	"	"	"	U
Thionazin	ND	0.20	1.0	"	"	"	"	"	"	U
Tokuthion (Prothiofos)	ND	0.20	1.0	"	"	"	"	"	"	U
Trichloronate	ND	0.30	1.0	"	"	"	"	"	"	U
Surrogate: Tributyl phosphate		71.5 %	37-115			"	"	"	"	
Surrogate: Triphenyl phosphate		101 %	44-145			"	"	"	"	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 8/30/2011

Laboratory Director Page 22 of 42



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Vic Randall

Yolo County Natural Resources Division Project: Surface Water Reported: 625 Court Street Room B03 Project Number: Surface Water 08/30/11 13:55

# Organophosphorus Compounds by EPA Method 8141A Alpha Analytical Laboratories, Inc.

			D 4:			-				
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Robbins (R Site) (11H0539-07) Water	Sampled: 08/1	0/11 12:55	Received:	08/10/11 1	6:50					
Azinphos ethyl	ND	0.20	2.0	ug/l	1	AH11203	08/12/11 07:10	08/18/11 09:09	EPA 8141A	U
Azinphos methyl	ND	0.40	2.0	"	"	"	"	"	"	U
Bolstar	ND	0.20	1.0	"	"	"	"	"	"	U
Chlorpyrifos	ND	0.20	0.50	"	"	"	"	"	"	U
Coumaphos	ND	0.50	2.0	"	"	"	"	"	"	U
Demeton-o	ND	0.10	1.0	"	"	"	"	"	"	U
Demeton-s	ND	0.20	1.0	"	"	"	"	"	"	U
Diazinon	ND	0.30	0.50	"	"	"	"	"	"	U
Dichlorvos	ND	0.30	1.0	"	"	"	"	"	"	U
Dimethoate	ND	0.20	2.0	"	"	"	"	"	"	U
Disulfoton	ND	0.30	0.50	"	"	"	"	"	"	U
EPN	ND	0.30	1.0	"	"	"	"	"	"	U
Ethion	ND	0.30	0.50	"	"	"	"	"	"	U
Ethoprop (Ethoprophos)	ND	0.30	1.0	"	"	"	"	"	"	U
Famphur	ND	0.30	0.50	"	"	"	"	"	"	U
Fensulfothion	ND	0.40	2.0	"	"	"	"	"	"	U
Fenthion	ND	0.20	0.50	"	"	"	"	"	"	U
Malathion	ND	0.30	0.50	"	"	"	"	"	"	U
Mevinphos	ND	0.20	1.0	"	"	"	"	"	"	U
Parathion	ND	0.30	0.50	"	"	"	"	"	"	U
Parathion-methyl	ND	0.20	0.50	"	"	"	"	"	"	U
Phorate	ND	0.20	0.50	"	"	"	"	"	"	U
Ronnel	ND	0.20	0.50	"	"	"	"	"	"	U
Simazine	ND	0.30	0.50	"	"	"	"	"	"	U
Stirofos	ND	0.30	0.50	"	"	"	"	"	"	U
Thionazin	ND	0.20	1.0	"	"	"	"	"	"	U
Tokuthion (Prothiofos)	ND	0.20	1.0	"	"	"	"	"	"	U
Trichloronate	ND	0.30	1.0	"	"	"	"	"	"	U
Surrogate: Tributyl phosphate		68.2 %	37-1.	15		"	"	"	"	
Surrogate: Triphenyl phosphate		95.2 %	44-1			"	"	"	"	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 8/30/2011

Laboratory Director Page 23 of 42



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Service Center: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Woodland CA, 95695 Project Manager: Vic Randall

Yolo County Natural Resources Division Project: Surface Water Reported:
625 Court Street Room B03 Project Number: Surface Water 08/30/11 13:55

#### **Notes and Definitions**

>1600 >1600

J Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).

U Analyte included in analysis, but not detected at or above MDL.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove 8/30/2011

Laboratory Director Page 42 of 42

& Corporate: Laboratory

208 Mason Street, Ukiah, CA 95482

6398 Dougherty Rd, Ste 35, Dublin, CA 94568 707-468-0401 Fax: 707-468-5267

925-828-6226 Fax: 925-828-6309

Service Center

& Micro Lab:

**Chain of Custody Record** 

Reports and Invoices will be delivered by email in .pdf format.

Lab No. (1 HO539

Report to	Invoice to (if different).	different				ď	rojec	t Infe	for	Project Info for Report.	irt:				ľ	igna	ureb	elow	autho	nizes	work	nnde	Signature below authorizes work under terms stated on reverse side.	on rev	erse side.	
	Company:					Q.	Project ID:	ë																		pje
Yolo County Natural Resources Division							<b>(</b> )	J.	ACE	SURFACE WATER	Ä				-	Ana	Analyses Requested	<u>%</u>	anb	ste	_		TAT	sT/		88
	Attn:													ŀ		ļ			Ī	ľ	ł	ŀ		/1 4 T		(A)
Vic Randall								İ						ū	1.					•	5		10 days	lsus	Temperature	ature:
Address: 625 Court Street Room 202	Address:					<u>a</u>	Project No:	S F						UH							eqn			103	9,7	^
Woodland CA 95695													S.	#U	110						<u>۹</u> ۱(				<b>3</b> 1	1
Phone/Fax:	Phone/Fax:					ĺ							เอน	IN 3	'h :	eəpi					no	119 1			deg. C	ပ
530.406.5773 / 530.661.3466	cell 510.219.7885	3885				5	O/R	/Reference	<u>5</u>				ietr	ای ت		oich			·		4 8)	-10:3				nem
Email Address:	Email Address:												100	ON		ЭH					395	.,po			Method	8
victor randall@yolocounty.org					1	-							10	171 3					•							
Samplers Signature:		)	Container:	tain	er:	Ъľ	rese	eservative:	ive:	∑	Matrix		Je.	t			ə							,		See Jan
Print:			7		dear	gecţi							dmuN i	Odor Od, NO	W as sind	esticide	lyphosat	Diesel	SaS	IstoT -	OT - emi	6H 1631	631 Hg	ο Γ <mark>ε</mark> Ί	Custody Seals:	Z dais
Sample Identification	Sampled: Date Tim	. e	40ml VC	Amber	Del bag	Sterile b	HIO3	HS2O4	Other	Mone Water	lioS	Other		Color,			Ð <b>∠</b> ₩9	- H9T	- H9T	Boron				ample I Sou	Sample Notes or CDPH Source Numbers	ers:
Brooks (B Site)	P 11/01/3	9:03 P					×		-	×			19	×	×	×	×	×	×	×	×	×	x inclu	nde	include MDL j-flags	gg
Capay Bridge	↓		4 3	о •••	2	-	×	×		×			19	×	×	×	×	×	×	×	×	×	× inclt	nde	include MDL j-flags	SB
Upstream Gordon	11 01/8		4 3	6	2	1	×	×		×			19	×	×	×	×	×	×	×	×	×	×	de	include MDL j-flags	gs
Stevens Bridge		L	4 3	6	2	1	×	×		×			19	×	×	×	×	×	×	×	×	×	×	nde 1	include MDL j-flags	gs
Gordon Slough	_	12:16	4 3	6	2	1	×	×		×			19	×	×	×	×	×	×	×	×	×	× incl	de	include MDL j-flags	gs
I-5 Bridge	_	_	4 3	6	2	1	×	×		×			19	×	×	×	×	×	×	×	×	×	× incl	nde	include MDL j-flags	gs
Robbins (R Site)	1 91/8	12:55	4 3	6	2	1	×	×		×			61	×	×	×	×	×	×	×	×	×	× incl	nde	include MDL j-flags	gs
															_	_							:	ŀ		
										-					$\dashv$	_					1	$\dashv$				
Relinquished by:	Re	Received by	. ~			<b>*</b>			•			Ţ,	Date:		Time	.01										
Vide P. Rushell	1	4	1	¥	2	1			H	0		7	2/2/	]	1400	힏										rie v
Bob de Pulle	1/a		<u> </u>		12	py	2	ム	<i> }</i> ∤	$\setminus$		8.	8-10-17		1650	10								) 7:37		
				}	}												ð	8	i		CA Geofracker EDF Report?	Ž	È	O.	≸ O:	9
					1												<b>6</b> 40	Glober HD: EDF to (Em	Globel 10: EDF to (Email Addrese)	(88			Sempling Co	3	) Coate	
																	Van.	of and	14 TW	'n	2	Менде		Misc. Supple	Mee:	
				1										$\mathbf{I}$			1	l	l	l	١	l				