

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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September 02, 2010

Linda Bangs
Pyxis Laboratory
12423 NE Whitaker Way
Portland, OR 97230

RE: main

Enclosed are the results of analyses for samples received by the laboratory on 08/04/10 16:20.
The following list is a summary of the Work Orders contained in this report, generated on 09/02/10
14:47.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
PTH0109	main	80422

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Christina Woodcock For Estella Rieben, Project Manager

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Pyxis Laboratory 12423 NE Whitaker Way Portland, OR 97230	Project Name: main Project Number: 80422 Project Manager: Linda Bangs	Report Created: 09/02/10 14:47
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SWR-One	PTH0109-01	Water	08/04/10 00:00	08/04/10 16:20

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Christina Woodcock For Estella Rieben, Project Manager

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Pyxis Laboratory

12423 NE Whitaker Way
Portland, OR 97230

Project Name: **main**

Project Number: 80422

Project Manager: Linda Bangs

Report Created:

09/02/10 14:47

Analytical Case Narrative

TestAmerica - Portland, OR

PTH0109

"N1" Qualifier: The low surrogate recoveries are due to matrix interference. Sample was initially analyzed with in hold time and then re-analyzed out of hold to confirm matrix interference causing the low surrogate recoveries.

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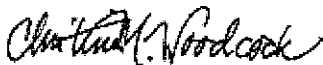
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Pyxis Laboratory 12423 NE Whitaker Way Portland, OR 97230	Project Name: main Project Number: 80422 Project Manager: Linda Bangs	Report Created: 09/02/10 14:47
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Organochlorine Pesticides and PCBs per EPA Method 608
TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTH0109-01 (SWR-One)										RL3
			Water					Sampled: 08/04/10 00:00		
Aldrin	EPA 608	ND	---	5.00	ug/l	5x	10H0351	08/11/10 15:00	08/19/10 17:23	RL1
alpha-BHC	"	ND	---	5.00	"	"	"	"	"	RL1
beta-BHC	"	ND	---	5.00	"	"	"	"	"	RL1
delta-BHC	"	ND	---	5.00	"	"	"	"	"	RL1
gamma-BHC (Lindane)	"	ND	---	5.00	"	"	"	"	"	RL1
Chlordane (tech)	"	ND	---	250	"	"	"	"	"	RL1
alpha-Chlordane	"	ND	---	5.00	"	"	"	"	"	RL1
gamma-Chlordane	"	ND	---	5.00	"	"	"	"	"	RL1
4,4'-DDD	"	ND	---	5.00	"	"	"	"	"	RL1, C
4,4'-DDE	"	ND	---	5.00	"	"	"	"	"	RL1, C
4,4'-DDT	"	ND	---	5.00	"	"	"	"	"	RL1
Dieldrin	"	ND	---	5.00	"	"	"	"	"	RL1
Endosulfan I	"	ND	---	5.00	"	"	"	"	"	RL1
Endosulfan II	"	ND	---	5.00	"	"	"	"	"	RL1
Endosulfan sulfate	"	ND	---	5.00	"	"	"	"	"	RL1
Endrin	"	ND	---	5.00	"	"	"	"	"	RL1
Endrin aldehyde	"	ND	---	5.00	"	"	"	"	"	RL1
Heptachlor	"	ND	---	5.00	"	"	"	"	"	RL1
Heptachlor epoxide	"	ND	---	5.00	"	"	"	"	"	RL1
Methoxychlor	"	ND	---	5.00	"	"	"	"	"	RL1
Toxaphene	"	ND	---	250	"	"	"	"	"	RL1
Aroclor 1016	"	ND	---	5.00	"	1x	"	"	08/19/10 19:51	
Aroclor 1221	"	ND	---	10.0	"	"	"	"	"	
Aroclor 1232	"	ND	---	5.00	"	"	"	"	"	
Aroclor 1242	"	ND	---	5.00	"	"	"	"	"	
Aroclor 1248	"	ND	---	5.00	"	"	"	"	"	
Aroclor 1254	"	ND	---	5.00	"	"	"	"	"	
Aroclor 1260	"	ND	---	5.00	"	"	"	"	"	
Surrogate(s):	2,4,5,6-Tetrachloro-m-xylene			14.3%			16 - 137 %	5x	08/19/10 17:23	Z3, N1
	Decachlorobiphenyl			NR			12 - 130 %	1x	08/19/10 19:51	Z9, N1

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Christina Woodcock For Estella Rieben, Project Manager

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Organochlorine Pesticides and PCBs per EPA Method 608
TestAmerica Portland

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTH0109-01RE1 (SWR-One)				Water			Sampled: 08/04/10 00:00			HS, RL3
Aldrin	EPA 608	ND	---	6.00	ug/l	3x	10H0712	08/23/10 15:20	08/26/10 18:53	RL1
alpha-BHC	"	ND	---	6.00	"	"	"	"	"	RL1
beta-BHC	"	ND	---	6.00	"	"	"	"	"	RL1
delta-BHC	"	ND	---	6.00	"	"	"	"	"	RL1
gamma-BHC (Lindane)	"	ND	---	6.00	"	"	"	"	"	RL1
Chlordane (tech)	"	ND	---	300	"	"	"	"	"	RL1
alpha-Chlordane	"	ND	---	6.00	"	"	"	"	"	RL1
gamma-Chlordane	"	ND	---	6.00	"	"	"	"	"	RL1
4,4'-DDD	"	ND	---	6.00	"	"	"	"	"	RL1
4,4'-DDE	"	ND	---	6.00	"	"	"	"	"	RL1
4,4'-DDT	"	ND	---	6.00	"	"	"	"	"	RL1
Dieldrin	"	ND	---	6.00	"	"	"	"	"	RL1
Endosulfan I	"	ND	---	6.00	"	"	"	"	"	RL1
Endosulfan II	"	ND	---	6.00	"	"	"	"	"	RL1
Endosulfan sulfate	"	ND	---	6.00	"	"	"	"	"	RL1
Endrin	"	ND	---	6.00	"	"	"	"	"	RL1
Endrin aldehyde	"	ND	---	6.00	"	"	"	"	"	RL1
Heptachlor	"	ND	---	6.00	"	"	"	"	"	RL1
Heptachlor epoxide	"	ND	---	6.00	"	"	"	"	"	RL1
Methoxychlor	"	ND	---	6.00	"	"	"	"	"	RL1
Toxaphene	"	ND	---	300	"	"	"	"	"	RL1
Aroclor 1016	"	ND	---	10.0	"	1x	"	"	08/27/10 00:07	
Aroclor 1221	"	ND	---	20.0	"	"	"	"	"	
Aroclor 1232	"	ND	---	10.0	"	"	"	"	"	
Aroclor 1242	"	ND	---	10.0	"	"	"	"	"	
Aroclor 1248	"	ND	---	10.0	"	"	"	"	"	
Aroclor 1254	"	ND	---	10.0	"	"	"	"	"	
Aroclor 1260	"	ND	---	10.0	"	"	"	"	"	
Surrogate(s):	2,4,5,6-Tetrachloro-m-xylene			16.8%			16 - 137 %	3x		08/26/10 18:53 NI
	Decachlorobiphenyl			NR			12 - 130 %	1x		08/27/10 00:07 Z9, NI

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Organochlorine Pesticides and PCBs per EPA Method 608 - Laboratory Quality Control Results
TestAmerica Portland

QC Batch: 10H0351 Water Preparation Method: EPA 3510/600 Series

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (10H0351-BLK1)														
Extracted: 08/11/10 15:00														
Aldrin	EPA 608	ND	---	0.100	ug/l	1x	--	--	--	--	--	--	08/19/10 14:24	
alpha-BHC	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
beta-BHC	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
delta-BHC	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
gamma-BHC (Lindane)	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Chlordane (tech)	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
alpha-Chlordane	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
gamma-Chlordane	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
4,4'-DDD	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	C
4,4'-DDE	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	C
4,4'-DDT	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Dieldrin	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Endosulfan I	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Endosulfan II	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Endosulfan sulfate	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Endrin	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Endrin aldehyde	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Heptachlor	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Heptachlor epoxide	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Methoxychlor	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Toxaphene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Surrogate(s): 2,4,5,6-Tetrachloro-m-xylene Recovery: 70.0% Limits: 16-137% " 08/19/10 14:24														

LCS (10H0351-BS1)														
Extracted: 08/11/10 15:00														
Aldrin	EPA 608	0.495	---	0.100	ug/l	1x	--	0.500	99.1%	(42-122)	--	--	08/19/10 14:49	
gamma-BHC (Lindane)	"	0.553	---	0.100	"	"	--	"	111%	(32-127)	--	--	"	
4,4'-DDT	"	0.557	---	0.100	"	"	--	"	111%	(25-150)	--	--	"	
Dieldrin	"	0.530	---	0.100	"	"	--	"	106%	(36-146)	--	--	"	
Endrin	"	0.558	---	0.100	"	"	--	"	112%	(30-147)	--	--	"	
Heptachlor	"	0.503	---	0.100	"	"	--	"	101%	(34-111)	--	--	"	
Surrogate(s): 2,4,5,6-Tetrachloro-m-xylene Recovery: 86.2% Limits: 16-137% " 08/19/10 14:49														

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Organochlorine Pesticides and PCBs per EPA Method 608 - Laboratory Quality Control Results
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QC Batch: 10H0351 Water Preparation Method: EPA 3510/600 Series

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Extracted: 08/11/10 15:00														
LCS Dup (10H0351-BSD1)														
Aldrin	EPA 608	0.355	---	0.100	ug/l	1x	--	0.500	66.9%	(42-122)	38.7% (22)		08/19/10 15:14	R2
gamma-BHC (Lindane)	"	0.378	---	0.100	"	"	--	"	75.7%	(32-127)	37.6%	"	"	R2
4,4'-DDT	"	0.396	---	0.100	"	"	--	"	79.3%	(25-150)	33.8%	"	"	R2
Dieldrin	"	0.372	---	0.100	"	"	--	"	74.5%	(36-146)	34.9%	"	"	R2
Endrin	"	0.391	---	0.100	"	"	--	"	78.1%	(30-147)	35.3%	"	"	R2
Heptachlor	"	0.359	---	0.100	"	"	--	"	71.9%	(34-111)	33.4%	"	"	R2
Surrogate(s): 2,4,5,6-Tetrachloro-m-xylene Recovery: 60.0% Limits: 16-137%												08/19/10 15:14		

QC Batch: 10H0712 Water Preparation Method: EPA 3510/600 Series

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Extracted: 08/23/10 15:20														
Blank (10H0712-BLK1)														
Aldrin	EPA 608	ND	---	0.100	ug/l	1x	--	--	--	--	--	--	08/26/10 20:35	
alpha-BHC	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
beta-BHC	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
delta-BHC	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
gamma-BHC (Lindane)	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Chlordane (tech)	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
alpha-Chlordane	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
gamma-Chlordane	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
4,4'-DDD	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
4,4'-DDE	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
4,4'-DDT	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Dieldrin	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Endosulfan I	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Endosulfan II	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Endosulfan sulfate	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Endrin	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Endrin aldehyde	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Heptachlor	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Heptachlor epoxide	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Methoxychlor	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Toxaphene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Aroclor 1016	"	ND	---	0.500	"	"	--	--	--	--	--	--	08/26/10 22:58	
Aroclor 1221	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Aroclor 1232	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1242	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	

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Christina Woodcock For Estella Rieben, Project Manager

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Organochlorine Pesticides and PCBs per EPA Method 608 - Laboratory Quality Control Results
TestAmerica Portland

QC Batch: 10H0712 Water Preparation Method: EPA 3510/600 Series

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (10H0712-BLK1) Extracted: 08/23/10 15:20														
Aroclor 1248	EPA 608	ND	---	0.500	ug/l	1x	--	--	--	--	--	--	08/26/10 22:58	
Aroclor 1254	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1260	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	

Surrogate(s): 2,4,5,6-Tetrachloro-m-xylene Recovery: 63.4% Limits: 16-137% " 08/26/10 20:35
Decachlorobiphenyl 58.5% 12-130% " 08/26/10 22:58

LCS (10H0712-BS1) Extracted: 08/23/10 15:20														
Aldrin	EPA 608	0.419	---	0.100	ug/l	1x	--	0.500	83.7%	(42-122)	--	--	08/26/10 19:44	
gamma-BHC (Lindane)	"	0.464	---	0.100	"	"	--	"	92.8%	(32-127)	--	--	"	
4,4'-DDT	"	0.495	---	0.100	"	"	--	"	98.9%	(25-150)	--	--	"	
Dieldrin	"	0.455	---	0.100	"	"	--	"	91.0%	(36-146)	--	--	"	
Endrin	"	0.488	---	0.100	"	"	--	"	97.6%	(30-147)	--	--	"	
Heptachlor	"	0.442	---	0.100	"	"	--	"	88.3%	(34-111)	--	--	"	

Surrogate(s): 2,4,5,6-Tetrachloro-m-xylene Recovery: 66.0% Limits: 16-137% " 08/26/10 19:44

LCS (10H0712-BS2) Extracted: 08/23/10 15:20														
Aroclor 1016	EPA 608	4.48	---	0.500	ug/l	1x	--	5.00	89.7%	(50-114)	--	--	08/26/10 23:21	
Aroclor 1260	"	4.08	---	0.500	"	"	--	"	81.7%	(8-127)	--	--	"	

Surrogate(s): Decachlorobiphenyl Recovery: 61.3% Limits: 12-130% " 08/26/10 23:21

LCS Dup (10H0712-BSD1) Extracted: 08/23/10 15:20														
Aldrin	EPA 608	0.422	---	0.100	ug/l	1x	--	0.500	84.4%	(42-122)	0.733% (22)		08/26/10 20:10	
gamma-BHC (Lindane)	"	0.482	---	0.100	"	"	--	"	96.4%	(32-127)	3.84%	"	"	
4,4'-DDT	"	0.516	---	0.100	"	"	--	"	103%	(25-150)	4.20%	"	"	
Dieldrin	"	0.468	---	0.100	"	"	--	"	93.6%	(36-146)	2.88%	"	"	
Endrin	"	0.486	---	0.100	"	"	--	"	97.2%	(30-147)	0.502%	"	"	
Heptachlor	"	0.459	---	0.100	"	"	--	"	91.8%	(34-111)	3.87%	"	"	

Surrogate(s): 2,4,5,6-Tetrachloro-m-xylene Recovery: 65.9% Limits: 16-137% " 08/26/10 20:10

														QC Source: PTH0109-01RE1	Extracted: 08/23/10 15:20	RL3
Aldrin	EPA 608	ND	---	6.00	ug/l	3x	ND	--	--	--	NR (200)	08/26/10 19:19	RL1			
alpha-BHC	"	ND	---	6.00	"	"	ND	--	--	--	NR	"	RL1			
beta-BHC	"	ND	---	6.00	"	"	ND	--	--	--	NR	"	RL1			
delta-BHC	"	ND	---	6.00	"	"	ND	--	--	--	NR	"	RL1			
gamma-BHC (Lindane)	"	ND	---	6.00	"	"	ND	--	--	--	NR	"	RL1			
Chlordane (tech)	"	ND	---	300	"	"	ND	--	--	--	NR	"	RL1			
alpha-Chlordane	"	ND	---	6.00	"	"	ND	--	--	--	NR	"	RL1			
gamma-Chlordane	"	ND	---	6.00	"	"	ND	--	--	--	NR	"	RL1			
4,4'-DDD	"	ND	---	6.00	"	"	ND	--	--	--	NR	"	RL1			

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Organochlorine Pesticides and PCBs per EPA Method 608 - Laboratory Quality Control Results
 TestAmerica Portland

QC Batch: 10H0712 **Water Preparation Method:** EPA 3510/600 Series

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (10H0712-DUP1)														RL3
QC Source: PTH0109-01RE1							Extracted: 08/23/10 15:20							
4,4'-DDE	EPA 608	ND	---	6.00	ug/l	3x	ND	--	--	--	NR (200)		08/26/10 19:19	RL1
4,4'-DDT	"	ND	---	6.00	"	"	ND	--	--	--	NR	"	"	RL1
Dieldrin	"	ND	---	6.00	"	"	ND	--	--	--	NR	"	"	RL1
Endosulfan I	"	ND	---	6.00	"	"	ND	--	--	--	NR	"	"	RL1
Endosulfan II	"	ND	---	6.00	"	"	ND	--	--	--	NR	"	"	RL1
Endosulfan sulfate	"	ND	---	6.00	"	"	ND	--	--	--	NR	"	"	RL1
Endrin	"	ND	---	6.00	"	"	ND	--	--	--	NR	"	"	RL1
Endrin aldehyde	"	ND	---	6.00	"	"	ND	--	--	--	NR	"	"	RL1
Heptachlor	"	ND	---	6.00	"	"	ND	--	--	--	NR	"	"	RL1
Heptachlor epoxide	"	ND	---	6.00	"	"	ND	--	--	--	NR	"	"	RL1
Methoxychlor	"	ND	---	6.00	"	"	ND	--	--	--	NR	"	"	RL1
Toxaphene	"	ND	---	300	"	"	ND	--	--	--	NR	"	"	RL1
Aroclor 1016	"	ND	---	10.0	"	1x	ND	--	--	--	NR	"	08/26/10 23:44	
Aroclor 1221	"	ND	---	20.0	"	"	ND	--	--	--	NR	"	"	
Aroclor 1232	"	ND	---	10.0	"	"	ND	--	--	--	NR	"	"	
Aroclor 1242	"	ND	---	10.0	"	"	ND	--	--	--	NR	"	"	
Aroclor 1248	"	ND	---	10.0	"	"	ND	--	--	--	NR	"	"	
Aroclor 1254	"	ND	---	10.0	"	"	ND	--	--	--	NR	"	"	
Aroclor 1260	"	ND	---	10.0	"	"	ND	--	--	--	NR	"	"	
<i>Surrogate(s): 2,4,5,6-Tetrachloro-m-xylene</i>		<i>Recovery: 14.0%</i>		<i>Limits: 16-137%</i>		<i>3x</i>						<i>08/26/10 19:19</i>		<i>Z3</i>
<i>Decachlorobiphenyl</i>		<i>NR</i>		<i>12-130%</i>		<i>1x</i>						<i>08/26/10 23:44</i>		<i>Z9</i>

TestAmerica Portland



Christina Woodcock For Estella Rieben, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Pyxis Laboratory

12423 NE Whitaker Way
Portland, OR 97230

Project Name: **main**
Project Number: 80422
Project Manager: Linda Bangs

Report Created:
09/02/10 14:47

Notes and Definitions

Report Specific Notes:

- C - Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
- H8 - The sample was extracted past the holding time.
- N1 - See case narrative.
- R2 - The RPD exceeded the acceptance limit.
- RL1 - Reporting limit raised due to sample matrix effects.
- RL3 - Reporting limit raised due to high concentrations of non-target analytes.
- Z3 - The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.
- Z9 - Unable to calculate surrogate recovery due to matrix interference.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Portland



Christina Woodcock For Estella Rieben, Project Manager

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