



TEST REPORT

Send To: C0000061
PACIFIC WATER COMPANY LIMITED
P.O. BOX 67
MULIFANUA, APIA
SAMOA
Attn: MR. PHILIP ROBERTS

Customer: C0000061
PACIFIC WATER COMPANY LIMITED
P.O. BOX 67
MULIFANUA, APIA
SAMOA
Attn: MR. PHILIP ROBERTS


Plant: C0000061
PACIFIC WATER COMPANY LIMITED
P.O. BOX 67
MULIFANUA, APIA
SAMOA
Attn: MR. PHILIP ROBERTS

Product: Source Water
Test Type: QQ - Qualification Testing

Thank you for having your product tested by NSF.

The enclosed report details the result of the testing performed on your product. Your program representative will be contacting you in the near future if there are any remaining issues concerning the status of this product.

Please do not hesitate to contact us if you have any immediate questions pertaining to your product.

Reviewer: 
Kurtis Kneen - Director, Chemistry Laboratory

Status: **Complete**

CC: Program: 0195 - Beverages Program
Program Rep ADAM C. BLOOM
Region: 03 - Asia
PA Project: 9025120

General Information

Standard: USFDA - USFDA CFR Title 21 Part 165.110 Bottled Water

Clients Name for Product: Source Water
 Date and Time Collected: 9-8-08 18:00 EDT
 Family Code: AB
 Sample Taken From: Sample Valve

Sample Id: **S-0000568376**

Description: Source Water 9-8-08 18:00 EDT

Sampled Date: 09/08/2008

Received Date: 09/19/2008

Testing Parameter	Detection Limit	Result	FDA SOQ	Units	P / F
Physical Quality					
Alkalinity as CaCO3	5	110		mg/LCaCO3	
Color	5	ND	15	Color Unit	Pass
Specific Conductance	0.1	230		umhos/cm	
Corrosivity	0	0-.74			
Hardness, Total	2	100		mg/LCaCO3	
Odor, Threshold	1	1	3	TON	Pass
Solids Total Dissolved	5	160	500	mg/L	Pass
Turbidity	0.1	ND	5	NTU	Pass
pH	0.01	7.79			
Temperature	0	21		deg. C	
Disinfection Residuals/Disinfection By-Products					
Chlorine, Total Residual	0.05	ND	4	mg/L	Pass
Radiologicals					
P1 Gross Alpha	3	ND	15	pCi/L	Pass
P1 Gross Beta	4	ND	50	pCi/L	Pass
Radium 226 by SM705 (modified)	1	ND		pCi/L	
Radium 228 by Ra-05	1	ND		pCi/L	
Total Radium	1	ND	5	pCi/L	Pass
Uranium	0.001	ND	0.03	mg/L	Pass
Inorganic Chemicals					
Aluminum	0.01	ND	0.2	mg/L	Pass
Antimony	0.0005	ND	0.006	mg/L	Pass
Arsenic	0.002	ND	0.01	mg/L	Pass
Barium	0.001	0.002	2	mg/L	Pass
Beryllium	0.0005	ND	0.004	mg/L	Pass
Bromide	10	14		ug/L	
Cadmium	0.0002	ND	0.005	mg/L	Pass
Calcium	0.02	17		mg/L	
Chloride	2	5	250	mg/L	Pass
Chromium (includes Hexavalent Chromium)	0.001	0.001	0.1	mg/L	Pass
Copper	0.001	ND	1	mg/L	Pass
Cyanide, Total	0.01	ND	0.1	mg/L	Pass
Fluoride	0.1	ND	1.2	mg/L	Pass
Iron	0.02	ND	0.3	mg/L	Pass
Lead	0.001	ND	0.005	mg/L	Pass
Magnesium	0.02	15		mg/L	

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Testing Parameter	Detection Limit	Result	FDA SOQ	Units	P / F
Inorganic Chemicals					
Manganese	0.001	ND	0.05	mg/L	Pass
Mercury	0.0002	ND	0.002	mg/L	Pass
Nickel	0.001	ND	0.1	mg/L	Pass
Nitrogen, Nitrate	0.05	0.27	10	mg/L N	Pass
Nitrogen, Nitrite	0.025	ND	1	mg/L N	Pass
Total Nitrate + Nitrite-Nitrogen	0.02	0.27	10	mg/L	Pass
Potassium	0.5	2.8		mg/L	
Selenium	0.002	ND	0.05	mg/L	Pass
Silver	0.001	ND	0.1	mg/L	Pass
Sodium	0.5	10		mg/L	
Sulfur, Sulfate	0.5	1.5	250	mg/L	Pass
Surfactants (MBAS)	0.2	ND		mg/L	Pass
Thallium	0.0002	ND	0.002	mg/L	Pass
Phenolics	0.001	ND	0.001	mg/L	Pass
Zinc	0.01	ND	5	mg/L	Pass
Organic Chemicals					
Diquat (Ref: EPA 549.2)					
Diquat	0.5	ND	20	ug/L	Pass
Endothall (Ref. EPA 548.1) - (ug/L)					
Endothall	9	ND	100	ug/L	Pass
Glyphosate (Ref: EPA 547)					
Glyphosate	6	ND	700	ug/L	Pass
Perchlorate, EPA 314.0					
Perchlorate	1	ND		ug/L	
2,3,7,8-TCDD by EPA1613B					
2,3,7,8-Tetrachlorodibenzo-p-dioxin	10	ND	30	pg/L	Pass
Carbamate Pesticides (Ref: 531.2)					
3-Hydroxycarbofuran	1	ND		ug/L	
Aldicarb	1	ND		ug/L	
Aldicarb sulfone	1	ND		ug/L	
Aldicarb sulfoxide	1	ND		ug/L	
Carbaryl	1	ND		ug/L	
Carbofuran	1	ND	40	ug/L	Pass
Methomyl	1	ND		ug/L	
Oxamyl	1	ND	200	ug/L	Pass
Herbicides (Ref: EPA 515.3)					
2,4,5-TP	0.2	ND	50	ug/L	Pass
2,4-D	0.1	ND	70	ug/L	Pass
Bentazon	0.2	ND		ug/L	
Dalapon	1	ND	200	ug/L	Pass
DCPA Acid Metabolites	0.2	ND		ug/L	
Dicamba	0.1	ND		ug/L	
Dinoseb	0.2	ND	7	ug/L	Pass
Pentachlorophenol	0.04	ND	1	ug/L	Pass
Picloram	0.1	ND	500	ug/L	Pass
Multicomponent Pesticides and PCBs (Ref: EPA 505)					
Chlordane	0.2	ND	2	ug/L	Pass

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Testing Parameter	Detection Limit	Result	FDA SOQ	Units	P / F
Organic Chemicals					
PCB 1016	0.3	ND	0.5	ug/L	Pass
PCB 1221	0.4	ND	0.5	ug/L	Pass
PCB 1232	0.4	ND	0.5	ug/L	Pass
PCB 1242	0.3	ND	0.5	ug/L	Pass
PCB 1248	0.2	ND	0.5	ug/L	Pass
PCB 1254	0.2	ND	0.5	ug/L	Pass
PCB 1260	0.3	ND	0.5	ug/L	Pass
Toxaphene	1	ND	3	ug/L	Pass
Semivolatile Organic Compounds (Ref: EPA 525.2)					
2,4 Dinitrotoluene	0.5	ND		ug/L	
2,6-Dinitrotoluene	0.5	ND		ug/L	
Alachlor	0.1	ND	2	ug/L	Pass
Aldrin	0.1	ND		ug/L	
Atrazine	0.2	ND	3	ug/L	Pass
Benzo(a)Pyrene	0.1	ND	0.2	ug/L	Pass
bis(2-Ethylhexyl)adipate	2	ND	400	ug/L	Pass
bis(2-Ethylhexyl)phthalate	2	ND		ug/L	
Butachlor	0.2	ND		ug/L	
Butylbenzylphthalate	2	ND		ug/L	
Di-n-butylphthalate	2	ND		ug/L	
Dieldrin	0.5	ND		ug/L	
Diethylphthalate	2	ND		ug/L	
Dimethylphthalate	2	ND		ug/L	
Endrin	0.1	ND	2	ug/L	Pass
EPTC	0.5	ND		ug/L	
Heptachlor	0.1	ND	0.4	ug/L	Pass
Heptachlor Epoxide	0.1	ND	0.2	ug/L	Pass
Hexachlorobenzene	0.1	ND	1	ug/L	Pass
Hexachlorocyclopentadiene	0.1	ND	50	ug/L	Pass
Lindane	0.1	ND	0.2	ug/L	Pass
Methoxychlor	0.1	ND	40	ug/L	Pass
Metolachlor	0.1	ND		ug/L	
Metribuzin	0.1	ND		ug/L	
Molinate	0.1	ND		ug/L	
p,p'-DDE (4,4'-DDE)	0.5	ND		ug/L	
Propachlor	0.1	ND		ug/L	
Simazine	0.2	ND	4	ug/L	Pass
Terbacil	0.5	ND		ug/L	
Volatiles: EDB and DBCP (Ref: EPA 504.1)					
1,2-Dibromo-3-Chloropropane (DBCP)	0.01	ND	0.2	ug/L	Pass
Ethylene Dibromide (EDB)	0.01	ND	0.05	ug/L	Pass
Volatiles: Regulated and Monitoring VOC's (Ref: EPA 502.2)					
1,1,1,2-Tetrachloroethane	0.5	ND		ug/L	
1,1,1-Trichloroethane	0.5	ND	200	ug/L	Pass
1,1,2,2-Tetrachloroethane	0.5	ND		ug/L	
1,1,2-Trichloroethane	0.5	ND	5	ug/L	Pass

Testing Parameter	Detection Limit	Result	FDA SOQ	Units	P / F
Organic Chemicals					
1,1-Dichloroethane	0.5	ND		ug/L	
1,1-Dichloroethylene	0.5	ND	7	ug/L	Pass
1,1-Dichloropropene	0.5	ND		ug/L	
1,2,3-Trichlorobenzene	0.5	ND		ug/L	
1,2,3-Trichloropropane	0.5	ND		ug/L	
1,2,3-Trimethylbenzene	0.5	ND		ug/L	
1,2,4-Trichlorobenzene	0.5	ND	70	ug/L	Pass
1,2,4-Trimethylbenzene	0.5	ND		ug/L	
1,2-Dichlorobenzene	0.5	ND	600	ug/L	Pass
1,2-Dichloroethane	0.5	ND	5	ug/L	Pass
1,2-Dichloropropane	0.5	ND	5	ug/L	Pass
1,3,5-Trimethylbenzene	0.5	ND		ug/L	
1,3-Dichlorobenzene	0.5	ND		ug/L	
1,3-Dichloropropane	0.5	ND		ug/L	
1,4-Dichlorobenzene	0.5	ND	75	ug/L	Pass
2,2-Dichloropropane	0.5	ND		ug/L	
2-Chlorotoluene	0.5	ND		ug/L	
4-Chlorotoluene	0.5	ND		ug/L	
Benzene	0.5	ND	5	ug/L	Pass
Bromobenzene	0.5	ND		ug/L	
Bromochloromethane	0.5	ND		ug/L	
Bromodichloromethane	0.5	ND		ug/L	
Bromoform	0.5	ND		ug/L	
Bromomethane	0.5	ND		ug/L	
Carbon Tetrachloride	0.5	ND	5	ug/L	Pass
Chlorobenzene	0.5	ND	100	ug/L	Pass
Chlorodibromomethane	0.5	ND		ug/L	
Chloroethane	0.5	ND		ug/L	
Chloroform	0.5	ND		ug/L	
Chloromethane	0.5	ND		ug/L	
cis-1,2-Dichloroethylene	0.5	ND	70	ug/L	Pass
cis-1,3-Dichloropropene	0.5	ND		ug/L	
Dibromomethane	0.5	ND		ug/L	
Dichlorodifluoromethane	0.5	ND		ug/L	
Ethyl Benzene	0.5	ND	700	ug/L	Pass
Hexachlorobutadiene	0.5	ND		ug/L	
Isopropylbenzene (Cumene)	0.5	ND		ug/L	
m+p-Xylenes	1	ND		ug/L	
Methyl-tert-Butyl Ether (MTBE)	0.5	ND		ug/L	
Methylene Chloride	0.5	ND	5	ug/L	Pass
n-Butylbenzene	0.5	ND		ug/L	
n-Propylbenzene	0.5	ND		ug/L	
Naphthalene	0.5	ND		ug/L	
o-Xylene	0.5	ND	10000	ug/L	Pass
p-Isopropyltoluene (Cymene)	0.5	ND		ug/L	

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Testing Parameter	Detection Limit	Result	FDA SOQ	Units	P / F
Organic Chemicals					
sec-Butylbenzene	0.5	ND		ug/L	
Styrene	0.5	ND	100	ug/L	Pass
tert-Butylbenzene	0.5	ND		ug/L	
Tetrachloroethylene	0.5	ND	5	ug/L	Pass
Toluene	0.5	ND	1000	ug/L	Pass
Total Trihalomethanes	0.5	ND	80	ug/L	Pass
Total Xylenes	0.5	ND	10000	ug/L	Pass
trans-1,2-Dichloroethylene	0.5	ND	100	ug/L	Pass
trans-1,3-Dichloropropene	0.5	ND		ug/L	
Trichloroethylene	0.5	ND	5	ug/L	Pass
Trichlorofluoromethane	0.5	ND		ug/L	
Trichlorotrifluoroethane	0.5	ND		ug/L	
Vinyl Chloride	0.5	ND	2	ug/L	Pass

<<Additional Information>>

Sample Id: S-0000568376

Test Parameter	Date Analyzed	Time Analyzed	Date Prepared/ Processed
Physical Quality			
* Alkalinity, SM 2320B	22-SEP-2008		
* Color (Ref: SM2120B)	22-SEP-2008	9:50	
Specific Conductance (Ref: EPA 120.1)	22-SEP-2008		
* Corrosivity (Ref: SM 2330B)			
* Hardness, Total, EPA 200.7	23-SEP-2008		
* Odor, Threshold Number (Ref: EPA 140.1)	22-SEP-2008		
* Solids, Total Dissolved (Ref: SM2540C)	23-SEP-2008		
Turbidity (Ref: EPA 180.1)	22-SEP-2008	9:55	
pH (Ref: EPA 150.1)	22-SEP-2008	10:45	
Disinfection Residuals/Disinfection By-Products			
* Chlorine, Total Residual (Ref: SM 4500-CLG)	22-SEP-2008	10:00	
Radiologicals			
(1) * Gross Alpha/Beta Counts (General Engineering) EPA (900)			
(1) * Total Radium (General Engineering)			
Uranium in Drinking Water by ICPMS (Ref: EPA-200.8)	24-SEP-2008		
Inorganic Chemicals			
Aluminum (Ref: EPA 200.8)	24-SEP-2008		
Antimony in Drinking Water by ICPMS (Ref: EPA-200.8)	24-SEP-2008		
Arsenic in Drinking Water by ICPMS (Ref: EPA-200.8)	24-SEP-2008		
Barium in Drinking Water by ICPMS (Ref: EPA-200.8)	24-SEP-2008		
Beryllium in Drinking Water by ICPMS (Ref: EPA-200.8)	24-SEP-2008		
Bromide (Ref: EPA 300.1)	23-SEP-2008		
Cadmium in Drinking Water by ICPMS (Ref: EPA-200.8)	24-SEP-2008		
Calcium in Drinking Water by ICPAES (Ref: EPA 200.7)	23-SEP-2008		
Chloride (Ref: EPA 300.0)	22-SEP-2008		
Chromium in Drinking Water by ICPMS (Ref: EPA-200.8)	24-SEP-2008		
Copper in Drinking Water by ICPMS (Ref: EPA-200.8)	24-SEP-2008		
Cyanide, Total (Ref: EPA 335.4)	26-SEP-2008		
Fluoride (Ref: SM 4500FC)	26-SEP-2008		
Iron in Drinking Water by ICAP (Ref: EPA-200.7)	24-SEP-2008		
Lead in Drinking Water by ICPMS (Ref: EPA-200.8)	24-SEP-2008		
Magnesium in Drinking Water by ICAP (Ref: EPA-200.7)	23-SEP-2008		
Manganese in Drinking Water by ICPMS (Ref: EPA-200.8)	24-SEP-2008		
Mercury in Drinking Water by ICPMS (Ref: EPA-200.8)	24-SEP-2008		

Test Parameter	Date Analyzed	Time Analyzed	Date Prepared/ Processed
Inorganic Chemicals			
Nickel in Drinking Water by ICPMS (Ref: EPA-200.8)	24-SEP-2008		
Nitrogen, Nitrate (Ref: EPA 300.0)	22-SEP-2008	1316	
Nitrogen, Nitrite (Ref: EPA 300.0)	22-SEP-2008	1316	
Total Nitrite + Nitrate-Nitrogen (Ref EPA 300.0)			
Potassium (Ref: EPA 200.7)	23-SEP-2008		
Selenium in Drinking Water by ICPMS (Ref: EPA-200.8)	24-SEP-2008		
Silver in Drinking Water by ICPMS (Ref: EPA 200.8)	24-SEP-2008		
Sodium in Drinking Water by ICAP (Ref: EPA-200.7)	23-SEP-2008		
Sulfur, Sulfate (Ref: EPA 300.0)	22-SEP-2008		
* Surfactants, Methylene Blue Active Substances (Ref: SM5540.c)	22-SEP-2008	14:10	
Thallium in Drinking Water by ICPMS (Ref: EPA-200.8)	24-SEP-2008		
Phenolics, Total Recoverable (Ref: EPA 420.2)	23-SEP-2008		
Zinc in Drinking Water by ICPMS (Ref: EPA 200.8)	24-SEP-2008		
Organic Chemicals			
Diquat (Ref: EPA 549.2)	24-SEP-2008		22-SEP-2008
Test Notes 9-22 Sample is a source that was received in lab past its holdtime. BS			
Endothall (Ref: EPA 548.1) - (ug/L)	25-SEP-2008		23-SEP-2008
Test Notes 09/23/08 Sample is a source and was received past holdtime. RNecula			
Glyphosate (Ref: EPA 547)	30-SEP-2008		
Perchlorate, EPA 314.0	22-SEP-2008		
2,3,7,8-TCDD by EPA1613B	30-SEP-2008		30-SEP-2008
Carbamate Pesticides (Ref: 531.2)	24-SEP-2008		
Herbicides (Ref: EPA 515.3)	29-SEP-2008		29-SEP-2008
Test Notes 9-29-08 Sample is a source and was received past holdtime. KJohnson			
Multicomponent Pesticides and PCBs (Ref: EPA 505)	29-SEP-2008		
Semivolatile Organic Compounds (Ref: EPA 525.2)	24-SEP-2008		24-SEP-2008
Volatiles: EDB and DBCP (Ref: EPA 504.1)	29-SEP-2008		
Volatiles: Regulated and Monitoring VOC's (Ref: EPA 502.2)	22-SEP-2008		

Job Notes:

10/05/2008 Source water received 14 days past holding time for the following methods:
EPA 310.2, 525.2, 300.1, 335.4, 504, 548.1, 547, 552.2, 515.3, 505, 502.2, 549.2, 548.1, 160.1, EPA
110.2,
150.1, 180.1, 300.0, SM 4500-C1-G, SM 4500-C1O2-D, SM 4500-C1G SM5540-C and radon.

Testing Laboratories:

	Flag	Id	Address
All work performed at: (Unless otherwise specified)	→	NSF_AA	NSF INTERNATIONAL 789 N. DIXBORO ROAD ANN ARBOR MI 48105
	(1)	GENENG	GEL Laboratories LLC 2040 Savage Road Charleston, SC 29407 NELAP PA certificate number 68-000485 Arizona License #AZ0668

References to Testing Procedures:

NSF Reference	Parameter / Test Description
C0185	* Total Radium (General Engineering)
C1010	* Odor, Threshold Number (Ref: EPA 140.1)
C2015	2,3,7,8-TCDD by EPA1613B
C3013	Chloride (Ref: EPA 300.0)
C3014	Bromide (Ref: EPA 300.1)
C3016	Nitrogen, Nitrate (Ref: EPA 300.0)
C3017	Nitrogen, Nitrite (Ref: EPA 300.0)
C3018	Sulfur, Sulfate (Ref: EPA 300.0)
C3019	Cyanide, Total (Ref: EPA 335.4)
C3021	Phenolics, Total Recoverable (Ref: EPA 420.2)
C3033	Aluminum (Ref: EPA 200.8)
C3036	Arsenic in Drinking Water by ICPMS (Ref: EPA-200.8)
C3039	Barium in Drinking Water by ICPMS (Ref: EPA-200.8)
C3042	Beryllium in Drinking Water by ICPMS (Ref: EPA-200.8)
C3044	Calcium in Drinking Water by ICPAES (Ref: EPA 200.7)
C3047	Cadmium in Drinking Water by ICPMS (Ref: EPA-200.8)
C3053	Chromium in Drinking Water by ICPMS (Ref: EPA-200.8)
C3059	Copper in Drinking Water by ICPMS (Ref: EPA-200.8)
C3064	Iron in Drinking Water by ICAP (Ref: EPA-200.7)
C3072	Mercury in Drinking Water by ICPMS (Ref: EPA-200.8)
C3079	Potassium (Ref: EPA 200.7)
C3085	Magnesium in Drinking Water by ICAP (Ref: EPA-200.7)
C3086	Manganese in Drinking Water by ICPMS (Ref: EPA-200.8)
C3091	Sodium in Drinking Water by ICAP (Ref: EPA-200.7)
C3094	Nickel in Drinking Water by ICPMS (Ref: EPA-200.8)
C3101	Lead in Drinking Water by ICPMS (Ref: EPA-200.8)
C3114	Antimony in Drinking Water by ICPMS (Ref: EPA-200.8)
C3116	Selenium in Drinking Water by ICPMS (Ref: EPA-200.8)
C3128	Thallium in Drinking Water by ICPMS (Ref: EPA-200.8)
C3136	Zinc in Drinking Water by ICPMS (Ref: EPA 200.8)
C3144	* Solids, Total Dissolved (Ref: SM2540C)
C3145	Turbidity (Ref: EPA 180.1)
C3155	* Surfactants, Methylene Blue Active Substances (Ref: SM5540.c)
C3157	* Color (Ref: SM2120B)
C3158	Specific Conductance (Ref: EPA 120.1)
C3159	pH (Ref: EPA 150.1)
C3161	* Hardness, Total, EPA 200.7
C3167	* Chlorine, Total Residual (Ref: SM 4500-CLG)
C3170	Fluoride (Ref: SM 4500FC)
C3174	* Alkalinity, SM 2320B
C3188	Silver in Drinking Water by ICPMS (Ref: EPA 200.8)
C3210	* Corrosivity (Ref: SM 2330B)
C3244	* Gross Alpha/Beta Counts (General Engineering) EPA (900)
C3342	Total Nitrite + Nitrate-Nitrogen (Ref EPA 300.0)
C4076	Carbamate Pesticides (Ref: 531.2)
C4145	Diquat (Ref: EPA 549.2)
C4154	Endothall (Ref. EPA 548.1) - (ug/L)

References to Testing Procedures: (Cont'd)

NSF Reference	Parameter / Test Description
C4193	Glyphosate (Ref: EPA 547)
C4202	Herbicides (Ref: EPA 515.3)
C4292	Multicomponent Pesticides and PCBs (Ref: EPA 505)
C4343	Semivolatile Organic Compounds (Ref: EPA 525.2)
C4411	Volatiles: EDB and DBCP (Ref: EPA 504.1)
C4412	Volatiles: Regulated and Monitoring VOC's (Ref: EPA 502.2)
C4496	Uranium in Drinking Water by ICPMS (Ref: EPA-200.8)
C4497	Perchlorate, EPA 314.0

Certifications:

Michigan (# 0048)	Florida (# E-87752 FL)	California (# 01149 CA)
New York (# 11206)	Connecticut (# PH-0625)	New Jersey (# 62770)
South Carolina (# 81005)	Pennsylvania (# 68-00312)	Arizona (# AZ0655)
Hawaii	Indiana	Maryland (# 201)
Nevada (# MI000302007A)	Virginia (# 00045)	Vermont (# VT 11206)

Test descriptions preceded by an asterisk "*" indicate that testing has been performed per NSF International requirements but is not within its scope of accreditation.

Notes:

- 1) NSF maximum level for fluoride is based on US EPA guidance for NSF/ANSI Std 60. US FDA SOQ is dependent on the annual average of maximum daily air temperature at the location where the bottled water is sold at retail and other factors.
- 2) A blank on the FDA SOQ column indicates that no maximum level has been established by the FDA for that contaminant.
- 3) An ND result means that the contaminant was not detected at or above the detection limit for the instrument.