



Analytical Chemists
April 22, 2011

Seychelle Water Filtration Products
32963 Calle Perfecto
San Juan Capistrano, CA 92675

Lab ID : SP 1103577
Customer : 2-23748

Laboratory Report

Introduction: This report package contains total of 5 pages divided into 3 sections:

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

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab ID #	Matrix
Bottle 1st Uranium Portion	04/07/2011	04/11/2011	SP 1103577-001	DW
Bottle 2nd Uranium Portion	04/07/2011	04/11/2011	SP 1103577-002	DW

Sampling and Receipt Information: All samples were received, prepared and analyzed within the method specified holding times. All samples arrived at room temperature. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the attached Chain of Custody and Condition Upon Receipt Form.

Quality Control: All samples were prepared and analyzed according to the following tables:

Radio QC

900.0	04/20/2011:205836 All analysis quality controls are within established criteria.
	04/19/2011:204213 All preparation quality controls are within established criteria, except: The following note applies to Gross Beta: 435 Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.
903.0	04/19/2011:205787 All analysis quality controls are within established criteria.
	04/18/2011:204162 All preparation quality controls are within established criteria.
908.0	04/16/2011:205547 All analysis quality controls are within established criteria.
	04/16/2011:205548 All analysis quality controls are within established criteria.
	04/15/2011:204077 All preparation quality controls are within established criteria.



Analytical Chemists
April 22, 2011

Lab ID : SP 1103577-002
Customer ID : 2-23748

Seychelle Water Filtration Products
32963 Calle Perfecto
San Juan Capistrano, CA 92675

Sampled On : April 7, 2011-00:00
Sampled By : Not Available
Received On : April 11, 2011-10:15
Matrix : Drinking Water

Description : Bottle 2nd Uranium Portion
Project : Seychelle

Sample Result - Radio

Constituent	Result ± Error	MDA	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Radio Chemistry^{2,1}								
Gross Beta	0.000 ± 0.991	1.86	pCi/L	50	900.0	04/19/11:204213	900.0	04/20/11:205836
Total Alpha Radium (226)	0.000 ± 0.877	1.65	pCi/L	3	903.0	04/18/11:204162	903.0	04/19/11:205787
Uranium	0.000 ± 2.19	1.90	pCi/L	20	908.0	04/15/11:204077	908.0	04/16/11:205548

ND=Non-Detected, PQL=Practical Quantitation Limit, Containers: (P) Plastic Preservatives: HNO₃ pH < 2 * PQL adjusted for dilution.

MDA = Minimum Detectable Activity (Calculated at the 95% confidence level) = Data utilized by DHS to determine matrix interference.

MCL / AL = Maximum Contamination Level / Action Level. Alpha's Action Level of 5 pCi/L is based on the Assigned Value (AV).

AV = (Gross Alpha Result + (1.64 x Error)), CCR Section 64442: Drinking Water Compliance Note: Do the following

If Gross Alpha's (AV) exceeds 5 pCi/L, run Uranium. If Gross Alpha's (AV) minus Uranium exceeds 5 pCi/L, run Radium 226.

Drinking Water Compliance:

Gross Alpha (AV) minus Uranium is less than or equal to 15 pCi/L.

Uranium is less than or equal to 20 pCi/L.

Radium 226 + Radium 228 is less than or equal to 5 pCi/L.

Note: Samples are held for 3-6 months prior to disposal.

**Note: Cs-137 utilized in Gross Beta Radioactivity removal test.
In each portion of Cs-137 added 100% was removed.
Michel M. Franco, Radiochemistry Technical Advisor**



ENVIRONMENTAL

ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: July 3, 1996
 Laboratory Name: FGL Environmental
 Name of Sampler: Paul Mead
 Date/Time Sample Collected: 06/26/1996-1000
 Sample ID No. SP 605173-01
 Signature Lab Director: *[Signature]*
 Employed By: Environmental Svcs
 Date/Time Sample Rec. @ Lab: 06/21/1996-1000
 Date Analyses Completed: 06/28/1996

System Name: CTL ENVIRONMENTAL SERVICES

System Number:

Name or Number of Sample Source: 49606151-3 (Un-Filtered)

User ID:	Station Number:
Date/Time of Sample: 9 6 0 6 2 6 1 0 0 0 Y Y M M D D T T T T	Laboratory Code: 5 8 6 7
Submitted by: FGL Environmental	Phone # (805) 659-0910

RADIOLOGICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
	pCi/L	Radon 222	82303	540	← BEFORE
	pCi/L	Radon 222 Counting Error	82302	± 30	

Name or Number of Sample Source: 49606151-4 (Filtered)

User ID:	Station Number:
Date/Time of Sample: 9 6 0 6 2 6 1 0 0 0 Y Y M M D D T T T T	Laboratory Code: 5 8 6 7
Submitted by: FGL Environmental	Phone # (805) 659-0910

RADIOLOGICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
	pCi/L	Radon 222	82303	0.0	← AFTER
	pCi/L	Radon 222 Counting Error	82302	± 10	

MCL - Maximum Contaminant Level DLR - Detection Limit for Reporting purposes ND - Not Detected at or above DLR
 + Indicates Secondary Drinking Water Standards

JAPAN

B-WELL CO.,LTD

Seychelle Radiological Water Pitcher

● Pitcher Specification

Height	270mm	Pitcher	ABS resin
Width	280mm	Lid	ABS resin
Depth	135mm	Handle	ABS resin
Weight	810.5g	Filter	See below
Capacity	3.78L	Origin	USA
Filtering Capability	567L		

Reference:
 ■EPA / ANSI Approval
 ■NSF Standard #42 and #53

● Filter Specification

Water Filtration Capability		1000L	F i l t r a t i o n C a p a b i l i t y	National Regulated Element※A	Filtration Capability	567L	Remarks
Pitcher Size	3.78L			Free Residual Chlorine	BDL		% Equivalent to JIS S3201 test results
Filter Cartridge Capacity	?L			Cloud	95.80%		50% of JIS S3201 test results
Mineral Addition	None			Trihalomethane	99.80%		% equivalent to JIS S3201 test results ※B
Cartridge Size	Height	90mm		Chloroform	98.52%		
	OD	98mm		Bromodichloromethane	99.80%		
	Depth	-		Dibromochloropropane	98.08%		
Cartridge Mass	Dry	146g		Bromoform	99.80%		
	Wet	156g		tetrachloroethylene	>99.60%		
Water Temp.	70 degree C			Trichloroethylene	99.20%		
Filtration Water Flow Rate	1L/6 min.			1,1,1 Trichloroethane	99.76%		
Filtration Time	10-15 Min.			CAT (Pesticide) ※C	N/A		
Filtration Life	5 Mo.			2-MIB (Mold Odor) ※D	N/A		
Material	Pitcher	ABS resin		Dissoluble Lead	97.50%		
	Lid	ABS resin		Iron (particle)	98.20%		
Mineral Addition	None		Aluminum (neutral)	90.00%			
Filtration Method	Ionic-Adsorption Micro-Filtration System™ (Charcoal, Ionic-Adsorption, Natural Mineral)						
Unfiltrable Element	Dissolved Iron, heavy metals (silver, copper etc.), salt water (seawater)						

※1 日3.78L使用時

※A "Household Goods Quality Labeling Act" designated 13 substances and Japan Water Purifier Association designated 2 substances

※B JIS designated test number

※C CAT (Pesticide), Simazine ※C7H12CN5

※D 2-MIB (Mold Odor) ***2-Methylisoborneol

Check above contents and make corrections if necessary

- If you find any mistake or incorrect information, please revise it.
- JIS3201 test number could be the same test with what you asked JFRL (Please check)



Analytical Chemists

April 22, 2011
Seychelle Water Filtration Products

Lab ID : SP 1103577
Customer : 2-23748

Quality Control - Radio

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Radio								
Beta	900.0	04/20/2011:205836	CCV CCB	cpm cpm	10150	92.9 % 0.3400	87 - 108 0.56	
Gross Beta	900.0	04/19/2011:204213 (SP 1103747-001)	Blank LCS MS MSD MSRPD	pCi/L pCi/L pCi/L pCi/L pCi/L	46.13 92.26 92.26 300.7	0.93 107 % 47.6 % 53.3 % 10.5%	4 75-125 80-130 80-130 <30	435 435
Alpha	903.0	04/19/2011:205787	CCV CCB	cpm cpm	10150	39.8 % 0.0500	38 - 46 0.15	
Total Alpha Radonm (226)	903.0	04/18/2011:204162	RgBlk LCS BS BSD BSRPD	pCi/L pCi/L pCi/L pCi/L pCi/L	18.16 20.89 20.89 20.89	0.1 66.3 % 55.1 % 44.6 % 21.1%	2 53-89 43-92 43-92 ≤35.5	
Alpha	908.0	04/16/2011:205547	CCV CCB	cpm cpm	10160	41.5 % 0.100	38 - 47 0.19	
	908.0	04/16/2011:205548	CCV CCB	cpm cpm	10160	43.7 % 0.100	38 - 47 0.15	
Uranium	908.0	04/15/2011:204077	RgBlk LRS BS BSD BSRPD	pCi/L pCi/L pCi/L pCi/L pCi/L	20.86 20.86 20.86 20.86	0.32 74.8 % 93.3 % 90.2 % 3.4%	1 54-105 75-125 75-125 ≤20	
Definition								
CCV : Continuing Calibration Verification - Analyzed to verify the instrument calibration is within criteria.								
CCB : Continuing Calibration Blank - Analyzed to verify the instrument baseline is within criteria.								
Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.								
RgBlk : Method Reagent Blank - Prepared to correct for any reagent contributions to sample result.								
LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.								
MS : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.								
MSD : Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.								
BS : Blank Spikes - A blank is spiked with a known amount of analyte. It is prepared to verify that the preparation process is not affecting analyte recovery.								
BSD : Blank Spike Duplicate of BS/BSD pair - A blank duplicate is spiked with a known amount of analyte. It is prepared to verify that the preparation process is not affecting analyte recovery.								
MSRPD : MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.								
BSRPD : BS/BSD Relative Percent Difference (RPD) - The BS relative percent difference is an indication of precision for the preparation and analysis.								
DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.								
Explanation								
435 : Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.								



Analytical Chemists
April 22, 2011

Lab ID : SP 1103691-001
Customer ID : 2-23748

Seychelle Water Filtration Products
32963 Calle Perfecto
San Juan Capistrano, CA 92675

Sampled On : April 12, 2011-00:00
Sampled By : Not Available
Received On : April 12, 2011-10:30
Matrix : Drinking Water

Description : Pitcher Plus
Project : Seychelle

Sample Result - Radio

Constituent	Result ± Error	MDA	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Radio Chemistry^P								
Gross Beta	0.697 ± 1.64	2.51	pCi/L	50	900.0	04/19/11:204213	900.0	04/20/11:205836
Total Alpha Radium (226)	0.000 ± 0.398	0.824	pCi/L	3	903.0	04/18/11:204162	903.0	04/19/11:205787
Uranium	0.000 ± 0.681	0.475	pCi/L	20	908.0	04/15/11:204077	908.0	04/16/11:205544

ND=Non-Detected, PQL=Practical Quantitation Limit, Containers: (P) Plastic Preservatives: N/A = PQL adjusted for dilution.

MDA = Minimum Detectable Activity (Calculated at the 95% confidence level) = Data utilized by DHS to determine matrix interference.
MCL / AL = Maximum Contamination Level / Action Level. Alpha's Action Level of 5 pCi/L is based on the Assigned Value (AV).
AV = (Gross Alpha Result + (0.84 x Error)). CCR Section 64442: Drinking Water Compliance Note; Do the following
If Gross Alpha's (AV) exceeds 5 pCi/L run Uranium. If Gross Alpha's (AV) minus Uranium exceeds 5 pCi/L run Radium 226.

Drinking Water Compliance:

Gross Alpha (AV) minus Uranium is less than or equal to 15 pCi/L.
Uranium is less than or equal to 20 pCi/L.
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Note: Samples are held for 3-6 months prior to disposal.

Note: Cs-137 utilized in Gross Beta Radioactivity removal test.
In each portion of Cs-137 added 100% was removed.
Michel M. Franco, Radiochemistry Technical Advisor