Operations Report:

North & South Well Field:

Repairs to the Reservoir controls were made in June that will allow the well pumps to start and stop based on water level. The repairs were approved by Gray and Osborne and will fully integrate into the DWSRF project improvements. These repairs are part of the arsenic blending protocols required by DOH. Estimated Cost: \$4,800.00 parts and \$2,700.00 Ford Electric.

Bison Well Drilling and Septic, LLC is completed the decommissioning of the North Wellfield #2 in June.

Taft Plumbing & Septic was the lowest responsible and responsive bidder on the North Wellfield Septic Installation Project.

Bid Tabulation:

Woody's Septic Specialties, Inc.	\$8,300.00
DPR Builders & Developers, Inc.	\$9,383.19
Wirkalot Trucking	\$8,632.00
Taft Plumbing & Septic, Inc.	\$7,876.70
Hill & Sons Excavating	No Bid

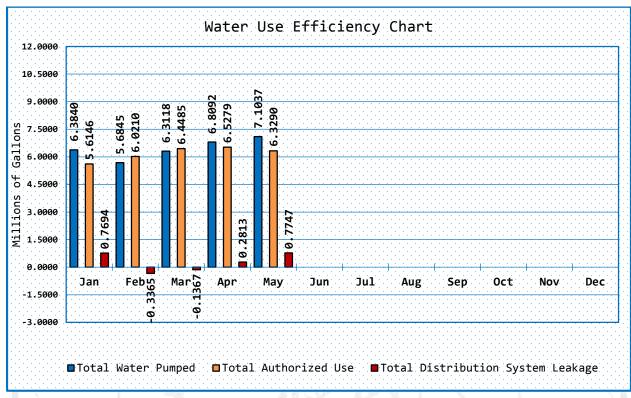
RFP for Birch Place Booster Stations.

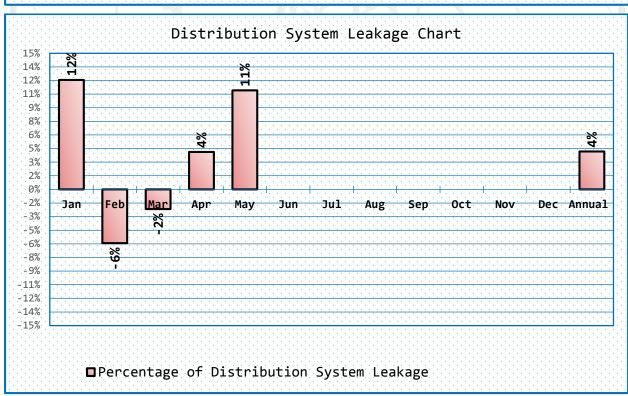
The District Received Proposals from the following Consultants:

- 1. Gray and Osborne, Inc.
- 2. Gibbs and Olson
- 3. Northwest Water Systems

I have worked Gibbs and Olson and Northwest Water Systems in the past. Northwest Water Systems engineered the DWSRF improvements for Oysterville Water. Gibbs and Olsen have done extensive work for Pacific County PUD at Bay Center, Wilson Point, and Lebam water systems. I have worked with Gibbs and Olsen on many projects in Grays Harbor, Mason, Thurston, and Lewis counties. I have work with Northwest Water Systems on many projects in Mason, Thurston, Kitsap, Pierce, and Clallam counties. All Three of the consultants are well qualified to design the Birch Place Booster Station.

Water Use Efficiency Charts:





Treatment Plant Report:

Repairs to the South Wellfield Booster Station were made in June. The operator interface for the programmable logic controller (PLC) lost power. When power was restored the operator interface programing was corrupted and would interact with the PLC. The manufacture of the operator interface is no longer in business and the program used by the operator interface is no longer being supported. We found a vender, The Automation Group, Inc., who had the ability to reprogram the operator interface. We were able to get the South Booster Station up and running on the last day of June. We would not have been able to keep up with the Fourth of July demand without the South Wellfield Booster Station being on-line. Estimated Cost \$2,100.00

Drinking Water State Revolving Fund Project:

The Wiegardt Wellfield Treatment Pilot test is being revised and resubmitted to DOH.

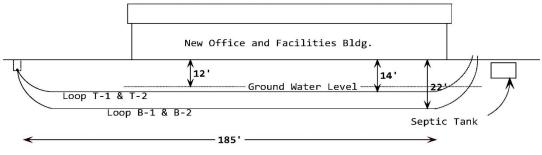
I have requested a status report from the Department of Ecology on the Cost-Reimbursement Agreement scope of work for the Water Rights Transfer for the Wiegardt Wellfield.

AMR Meter Installation Project Report:

The crew installed 227 AMR meters in June, 2015. There are a total of 1,688 AMR meters installed as of June 30, 2015. There are 998 meters left to install. We will have to average 167 meters a month to complete the metering project on time.

Office and Equipment Building Report:

I have contracted with John Geyer (see attached credentials and contract) to design a ground source heat pump for the Office. His contract is for \$2,500.00. John is working with five HVAC contractors who specialize in ground source heat pumps. Preliminary conversation with contracts have the installed cost between \$30,000 and \$35,000. John recommends a closed loop ground coupled heat exchanger installed via horizontal drilling under the building. A closed loop ground coupled heat exchanger would add about \$8,000 to the cost but it would eliminate any water demand from the water system. We should have firm estimates for you to consider by the end of the month.



Closed loop ground coupled heat exchanger - below building

Water Quality Reports:

I have attached copies of the water samples the District submitted for analysis in June, 2015.

The District submitted 9 coliform bacteria samples to ALS Environmental Laboratories in Kelso Washington on Wednesday June 10, 2015 for analysis. All 9 samples were satisfactory for coliform bacteria.

In addition to microbial samples the district also submitted samples for: Analytes ----- Date Submitted ----Results--- Units --- MCL/SMCL ---- Exceedance Wells 6 & 8 Raw Water: ----- Arsenic Speciation As(III) ----- 06/10/2015 ---- 8.4 ---- ug/L ---- N/A ---- N/A ---As(V)----- 06/10/2015---- 3.5---- ug/L ---- N/A ---- N/A ---Inorganic As ----- 06/10/2015 ---- 11.9 ---- ug/L ---- N/A ---- N/A ---Wells 1 Raw Water ---- Arsenic Speciation As(III) ----- 06/10/2015 ---- 0.8 ----- ug/L ---- N/A ----- N/A ---As(V)----- 06/10/2015---- 0.8----- ug/L ---- N/A----- N/A---Inorganic As ----- 06/10/2015 ---- 1.6 ---- ug/L ---- N/A ---- N/A ---Wells 4 & 5 Raw Water: ----- Arsenic Speciation As(III) ----- 06/10/2015 ---- 6.8 ----- ug/L ---- N/A ---- N/A ---As(V) ----- 06/10/2015 ---- 6.3 ----- ug/L ---- N/A ----- N/A ---Inorganic As ----- 06/10/2015 ---- 13.1 ---- ug/L ---- N/A ---- N/A ---Treated Blended Water ---- Arsenic for Compliance As------ 06/17/2015----- []--- ug/L-----10.0 ------- []---Wiegardt Well #3 ---- Arsenic Speciation As(III) ----- 06/10/2015 ---- 15.1 ---- ug/L ---- N/A ---- N/A ---A(V) ----- 06/10/2015 ---- 4.1 ---- ug/L ---- N/A ---- N/A ---Inorganic As ----- 06/10/2015 ---- 19.2 ---- ug/L ---- N/A ---- N/A ---As speciation results for the Wiegardt Well #3 are important in designing the treatment plant. As removal will be the most challenging treatment goal for

Inorganic As speciation is an important factor in the efficiency of the process of removal of arsenic from water by coagulation with ferric salts. As(V) is much more effectively removed than $As(III)^1$ because the former

the District at the Wiegardt Wellfield.

¹ As(III) 40%-70% - As(V) 80%-100% (Chwirka et al, 1999)

generally exists in well waters as mono or divalent anion² and the latter exists, predominantly, in a nonionic³ form. For this reason, previous oxidation of As(III) to As(V) may be an important stage of the treatment process in order to achieve efficient As removal. As you can see from the results of the As Speciation analysis results the Wiegardt well water has a concentration of about 20 ug/L of As and 15 ug/L of that As is As(III). The Only viable oxidants to convert As(III) to As(V) are chlorine and potassium permanganate.

227th Place Culvert Replacement - Pacific County

The culvert under 227th Place connecting the wet lands in the center of the Peninsula is failing. Mike Collins, Pacific County Engineer and Director of Public Works has informed the District that they will be replacing the culvert in will need to be relocated and temporarily (up to two days) shut down during the replacement. I am very happy the District completed the loop on Birch Place last year. Even with that water main improvement we are not in good shape to have that line off line for an extended period of time. cannot isolate the section without losing water to all of Sunset Sands, Ocean Meadows Units, Driftwood Beach Tracts, Klipsan Woods Tracts, Fred Hills Trailer Court, and all residences on the north side of 227th Place. (850 +/connections) I have purchased two 8" tees and valves. One will be installed on the water main on 227th Place just east of V Street and one will be installed on the water main on 227th Place just west of Birch Place. The installation of these valves will allow the District to isolate the culvert replacement with only four customers being affected. The tees and valves will be installed on June 28, 2015. The County will replace the culvert at a date to be determined after the valves are installed.

The tee and valve near Birch Place will be used when the Booster Station is installed and the tee and valve at V Street will be used at a later date to install a fire hydrant.

End of Report

²Will dissolve in water

³ Will not dissolve in water

ENERGY MARKETING AND TECHNOLOGY CONSULTANTS

JOHN D. GEYER

Certified Geothermal Designer #0076 IGSHPA Trainer # 1071NATE Proctor # 5183873

JOHN GEYER & ASSOCIATES, INC. P.O. Box 821085 Vancouver, WA 98662 360.882.5050 jgeyer@jgainc.com

Education:	
B.S., Forestry	Oregon State University, 1969 (Honors)
M.S., Management	Marylhurst College, 1988 (Honors)
GeoExchange Credentials:	
International Ground Source Heat Pump Association	member No. 14266-596.
International Ground Source Heat Pump Association	Certified Installer, No. 13100/400
International Ground Source Heat Pump Association	Certified Trainer, No. 1071/1196
Association of Energy Engineers -	Certified Geothermal Designer, No. 0076
Oregon Institute of Technology	Adjunct Instructor, Geo Systems & Design
Geothermal Heat Pump Consortium -	charter member and co-designer (1994)
Chevron/Phillips Performance Pipe -	Factory Sales Representative& Trainer
Geo Bore Technologies, Inc -	Distributor; Sales Manager
Geo Pro Grout, Geothermal Supply Co	Territory Sales Manager
Geo Resource Technologies, Inc	Soil Conductivity Test Technician
North American Technician Excellence -	NATE Testing Proctor #5183873
Memberships:	
Association of Energy Engineers (AEE)	Member and CGD
Geothermal Resources Council (GRC), 1976 -	Present; 3 years as Regional Chapter Officer
International Geothermal Association (IGA)	1988 - Present
International Ground-Source Heat Pump Association (IC	GSHPA) 1996, Present
Geothermal Heat Pump Consortium (GHPC) -	Charter member, 1994 – 2004
GEO Exchange Organization (GEO)	Charter member, 2010 - 2014

REPRESENTATIVE PROJECT EXPERIENCE

JG&A's service to architectural and engineering firms includes technical training of system designers and construction professionals; project team input and advisory support, including recruitment and oversight of qualified contractors; community-scale project design; project feasibility and economic analysis; in-situ formation thermal conductivity testing; design software training; and policy or programmatic development for non-profits and governmental entities. Recurrent work involves forensic diagnosis of under-performing geothermal systems, prescription of corrective measures and education of litigants about geothermal theory. As a specialty consultant to Engineers of Record, project responsibility and "claim" usually remains with clients but enabling, creating and mitigating risks of geothermal heating and cooling systems mark Geyer's involvement.

Examples of geothermal projects and involvements since 2007 include:

Washington State Department of Ecology Technical Advisory Team (12 months)

Republic of Georgia post-Russian invasion reconstruction planning (3 weeks in-country)

Greek Renewable Energy Agency (CRES) program development and demo projects (2 weeks)

Input to Japan's post-tsunami reconstruction planning and R&D projects

Feasibility and economic studies for various proposed commercial applications

Technical or Owner's Rep at 5 California college construction projects in San Francisco Bay area

Diagnoses and "fix" proposals for under-performing municipal systems at two California cities

Technical advisor to the Geothermal Education Office and Geothermal Resources Council

6 years as Technical Services Provider ("TSP") to US DOE, Bonneville Power Administration

Heating/Cooling lead for a Cal Energy Commission "Renewable Energy Community" proposal

Arbitration input or testimony to contested construction contract proceedings

Formation Thermal Conductivity testing at > 60 locations (DoD, EPA, cities, schools)

Three 5- week lecture series at Oregon Institute of Technology, East Portland campus

40+ technical presentations at Geothermal Resources Council's Annual Meeting (econ, drilling)

Heat Fusion training at IGSHPA Installer Training workshops (CA, OR, ID, UT, WY)

Speaker at recurrent regional seminars by American Ground Water Trust and others

Native American tribal policy and construction training

Feasibility and economic analysis or conceptual design of a dozen commercial-scale projects

Heat Load Analysis and value-added design for multiple residential construction projects

Base-wide feasibility and economic studies for Army and Air Force (Washington State, Guam)

Design geothermal fresh water and cooling systems for remote clinics and hospitals (Africa, Myanmar)

Greenhouse and Operational Design for commercial cannabis growers

**NatureSolv the environmentally responsible carbonless capsule

SR#_ KISOLZ78-00|



COLIFORM BA	CTERIA A	NALYSIS
	ne Sample collected	County
6110115	<u>:360</u> □ PM	PACIFC
Type of Water System (check only one box)	/ate Household
Group A ☐ Group E	B □ Ott	ner
Group A and Group B Systems - Provide fr ID# 6 3 0 0 System Name: North Berke	0 0	s Inventory (WFI):
Contact Person: BIM News	<u> </u>	- Mariana
Day Phone: 860) 665 - 4144		1 Phone: 360) 244006
Eve. Phone: ()	4	<u>(()</u>
Send results, to: (Print full name, address and zip NAMA Services with POROX 618 OCOUN PATK, WY	code)	40.
	NFORMATION	
Sample collected by (name):		
Specific location where sample collected:	Spe	cial instructions or comments:
5-9		٠.
Type of Sample (MUST CHECK ONLY O	NE BOX OF #1 TH	ROUGH #4 LISTED BELOW)
#1. Routine Distribution Sample		ole (after unsat. routine)
Chlorinated: Yes No	☐ Distributio	n System
Chlorine Residual: TotalFree		oundwater Rule (GWR)
#3. Raw Water Source Sample		n of 1,000 or less)
☐ E.coli – GWR source sample		ctory routine lab number:
☐ Fecal –Surface, GWI, some springs	0 1 7	<u> </u>
Other	Unsatisfactory	routine collect date:
S		<u> </u>
Public systems must provide source number from WFI		es No
	Chlorine Resid	lual: TotalFree
#4. Sample Collected for Information O Investigative Construction / R	•	Other
LAB USE ONLY DRINKING W	ATER RESUL	TS LAB USE ONLY
☐ Unsatisfactory Total Coliform Present a ☐ E.coli present ☐ E.col	nd oli absent	Satisfactory
Replacement Sample Required:		
☐ Sample too old (>30 hours) ☐ TNT ☐ Improper Container ☐ Turb	C 🔲 id culture	
Bacterial Density Results: Plate Count	/ml. E	.coli/100ml.
Total Coliform/100ml.	Fecal Coliform_	/100ml.
Method Code: MICR- & M 9 2 2	3 6 Date, 1	ime and Temp Received:
Date Analyzed 6,10,15 1		Reported: (-, //, / S
Sample Number (DOH number plus five digits) 0 1 7 - 6 2 7 S	/ 1 Lab U	se Only:

INTERPRETATION OF RESULTS FOR DRINKING WATER

The analysis performed on this drinking water sample is an examination for the presence of coliform organisms in the water and indicates the bacteriological quality of the sample. The presence of coliform organisms is used by health organizations worldwide as an indicator for the possible presence of other disease causing organisms.

REPORTING OF RESULTS:

Group A Public Water Systems must report the results of Drinking Water Analysis to the State as specified in WAC 246-290-480.

SATISFACTORY RESULTS:

The absence of coliforms from any sample is satisfactory. Proper system maintenance and bacteriological monitoring should be continued routinely to insure the safety of the water supply.

UNSATISFACTORY RESULTS:

Any coliform presence is unsatisfactory.

The presence of coliforms indicates the system is not properly protected against contamination and may be unsafe for human consumption. <u>Unsatisfactory samples should be investigated IMMEDIATELY and repeat samples submitted.</u> Contact your local health department or DOH Regional Office for assistance in determining the source of contamination and corrective procedures.

When fecal coliforms or E. coli are reported present in a sample, the **IMMEDIATE ACTION REQUIRED** by a Public System is:

- Investigate to determine the cause and correct the situation. Your local health department or DOH Regional Office can assist you.
- 2. Submit repeat samples as specified in WAC 246-290-480
- 3. Publicly notify the users of public water systems as specified in WAC 246-290-480
- Contact your local health department or DOH Regional Office as specified in WAC 246-290-480.

TEST UNSUITABLE: Resample Immediately

"Confluent Growth" means bacteria have grown into a continuous mass which makes counting impossible, ""TNC" means bacteria are too numerous to count. "Excess Debris" means that particulates in the water interfere with the interpretation of test results, "Turbid Culture" means overgrowth of other bacteria can interfere with coliform analysis. If any box indicating an unsuitable test is checked, the presence of coliform bacteria could not be determined and a new sample must be obtained for testing.

RESAMPLE:

Sample too old. (Sample to be tested must be received within 30 hours). Not in proper container. (Bottle to be used for testing must be purchased from a certified lab within 6 months.)

Insufficient volume. (Sample must be at least 100 ml)

If not tested, a new sample must be submitted for analysis.

FOR ADDITIONAL INFORMATION:

Contact your local health department \mathbf{OR} the laboratory where this sample was tested \mathbf{OR} the Department of Health, Drinking Water Program Regional Office.

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SR# K1506278-002

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COLIFOR	M BACTERIA	AANALYSIS
Date Sample Collected	Time Sample Collected	County
6 1 10 1 15 Month Day Year		PACIFIC
Type of Water System (check on	ly one box)	Private Household
© Group A □	Group B	Other
Group A and Group B Systems ID# 6 3 0	Provide from Water Fa	cilities Inventory (WFI):
System Name: Nordh C	seach was	امر
Contact Person: BM N	ers	
Day Phone: (360) (665-	4144	Cell Phone: (360)244006
Eve. Phone: ()		FAX: ()
Send results to: (Print full name, addition of the North Berkell Pa Bo X 6/8	ess and zip code	162.com
	AMPLE INFORMAT	ION
Sample collected by (name):	Sinne	
Specific location where sample of	collected:	Special instructions or comments:
5-7 Sampl	en	· · · · · · · · · · · · · · · · · · ·
Type of Sample (MUST CHEC	K ONLY ONE BOX OF	#1 THROUGH #4 LISTED BELOW)
#1. Routine Distribution San Chlorinated: Yes No Chlorine Residual: Total I #3. Raw Water Source Sample	□ Distr □ Sour (Pop Uns e springs □ 1 Unsatisf Chlorina	Sample (after unsat. routine) ibution System ree Groundwater Rule (GWR) ibution of 1,000 or less) satisfactory routine lab number: 7 actory routine collect date:/_ ted: Yes No Residual: TotalFree
#4. Sample Collected for Info		
Investigative Con		Other
LAB USE ONLY DRI ☐ Unsatisfactory Total Colifor ☐ E.coli present	NKING WATER RE m Present and E.coli absent	SULTS LAB USE ONLY Satisfactory
Replacement Sample Required Sample too old (>30 hours Improper Container		
Bacterial Density Results: Plate	Count/	mi. <i>E.coli</i> /100ml.
Method Code: 9 2	236	Date, Time and Temp Received:
Date Analyzed 6, /0,/5, Sample Number (DOH number plus five digit 0 1 7 - 6	nb 787	Date Reported: 6, 11, 15 Lab Use Only: 31, 611, 15

INTERPRETATION OF RESULTS FOR DRINKING WATER

The analysis performed on this drinking water sample is an examination for the presence of coliform organisms in the water and indicates the bacteriological quality of the sample. The presence of coliform organisms is used by health organizations worldwide as an indicator for the possible presence of other disease causing organisms.

REPORTING OF RESULTS:

Group A Public Water Systems must report the results of Drinking Water Analysis to the State as specified in WAC 246-290-480.

SATISFACTORY RESULTS:

The absence of coliforms from any sample is satisfactory. Proper system maintenance and bacteriological monitoring should be continued routinely to insure the safety of the water supply.

UNSATISFACTORY RESULTS:

Any coliform presence is unsatisfactory.

The presence of coliforms indicates the system is not properly protected against contamination and may be unsafe for human consumption. Unsatisfactory samples should be investigated IMMEDIATELY and repeat samples submitted. Contact your local health department or DOH Regional Office for assistance in determining the source of contamination and corrective procedures.

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- 2. Submit repeat samples as specified in WAC 246-290-480
- 3. Publicly notify the users of public water systems as specified in WAC 246-290-480
- 4. Contact your local health department or DOH Regional Office as specified in WAC 246-290-480.

TEST UNSUITABLE: Resample Immediately "Confluent Growth" means bacteria have grown into a continuous mass which makes counting impossible, "'TNC" means bacteria are too numerous to count. "Excess Debris" means that particulates in the water interfere with the interpretation of test results, "Turbid Culture" means overgrowth of other bacteria can interfere with coliform analysis. If any box indicating an unsuitable test is checked, the presence of coliform bacteria could not be determined and a new sample must be obtained for testing.

RESAMPLE:

Sample too old. (Sample to be tested must be received within 30 hours). Not in proper container. (Bottle to be used for testing must be purchased from a certified lab within 6 months.) Insufficient volume. (Sample must be at least 100 ml) If not tested, a new sample must be submitted for analysis.

FOR ADDITIONAL INFORMATION:

Contact your local health department OR the laboratory where this sample was tested OR the Department of Health, Drinking Water Program Regional Office.

K1506278-003

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COLIFORM BAC	TERIA A	NALYSIS
	Sample	County
6110115	lected AM	PACISIC
Month Day Year 8	: <u>1</u> 2 🗆 PM	1,40,0,0
Type of Water System (check only one box)	☐ Pri	ivate Household
Group A ☐ Group B	□ Ot	her
Group A and Group B Systems - Provide fro	m Water Facilitie	es Inventory (WFI):
ID# 6 3 0 0	<u>ب 0</u>	
System Name: North Berth	WANEL	D.24.54
Contact Person: BII New		
Day Phone: B60) 665 4140		ell Phone: (360) 2 4 4 006 (
Eve. Phone: ()		X: ()
Email: Bhew @ Nordh Be	xode)	ter, com
Send results to: (Print full name, address and zip of Nordh Beach WA	بعد	
60 BX R R R		
Ocem PARK, WA.	98640)
	NFORMATIO	
Sample collected by (name):		
1 Jan	٠.5	- adal instructions as a
Specific location where sample collected:	3	pecial instructions or comments:
5-1 SAMPley		
Type of Sample (MUST CHECK ONLY OF	NE BOY OF #1 3	TUROLICH #4 LISTED RELOWN
#1. Routine Distribution Sample		mple (after unsat. routine)
Chlorinated: YesNo	☐ Distribu	
Chlorina Residual: Total Free		Groundwater Rule (GWR)
#3. Raw Water Source Sample	(Popula	tion of 1,000 or less)
☐ E.coli – GWR source sample	Unsati	sfactory routine lab number:
☐ Fecal –Surface, GWI, some springs	0 1 7	
Other	Unsatisfact	ory routine collect date:
		<u> </u>
S June 1 and	Chlorinated	I: Yes No
Public systems must provide source number from WFI	Chlorine Re	esidual: TotalFree
#4. Sample Collected for Information C	Only	
Investigative Construction /	Repairs	Other
LAB USE ONLY DRINKING V	NATER RES	ULTS LAB USE ONLY
☐ Unsatisfactory Total Coliform Present	and	Satisfactory
	coli absent	
Replacement Sample Required:	ITC	Π
	rbid culture	
☐ Improper Container ☐ Tu	rolo conure	the same of the sa
Bacterial Density Results: Plate Count	/ml	. E.coli/100ml.
Total Coliform /100ml.	a tako - Ludila	m /100ml.
		Pate, Time and Temp Received:
Method Code: MICR- S M 9 2 2	36	61015 (b.) 13:40
Date Analyzed 6/0/15/16		Pate Reported: 6, 1/1/5
Sample Number (DOH number plus five digits)		ab Use Only:
<u>0 1 7 - 6 2 7</u>	83	016/11/15

INTERPRETATION OF RESULTS FOR DRINKING WATER

The analysis performed on this drinking water sample is an examination for the presence of coliform organisms in the water and indicates the bacteriological quality of the sample. The presence of coliform organisms is used by health organizations worldwide as an indicator for the possible presence of other disease causing organisms.

REPORTING OF RESULTS:

Group A Public Water Systems must report the results of Drinking Water Analysis to the State as specified in WAC 246-290-480

SATISFACTORY RESULTS:

The absence of coliforms from any sample is satisfactory. Proper system maintenance and bacteriological monitoring should be continued routinely to insure the safety of the water supply.

UNSATISFACTORY RESULTS:

Any coliform presence is unsatisfactory.

The presence of coliforms indicates the system is not properly protected against contamination and may be unsafe for human consumption. Unsatisfactory samples should be investigated IMMEDIATELY and repeat samples submitted. Contact your local health department or DOH Regional Office for assistance in determining the source of contamination and corrective procedures.

When fecal coliforms or E. coli are reported present in a sample, the IMMEDIATE ACTION REQUIRED by a Public System is:

- 1. Investigate to determine the cause and correct the situation. Your local health department or DOH Regional Office can assist you.
- 2. Submit repeat samples as specified in WAC 246-290-480
- 3. Publicly notify the users of public water systems as specified in WAC 246-290-480
- 4. Contact your local health department or DOH Regional Office as specified in WAC 246-290-480.

TEST UNSUITABLE: Resample Immediately

"Confluent Growth" means bacteria have grown into a continuous mass which makes counting impossible, "'TNC" means bacteria are too numerous to count. "Excess Debris" means that particulates in the water interfere with the interpretation of test results, "Turbid Culture" means overgrowth of other bacteria can interfere with coliform analysis. If any box indicating an unsuitable test is checked, the presence of coliform bacteria could not be determined and a new sample must be obtained for testing.

RESAMPLE:

Sample too old. (Sample to be tested must be received within 30 hours). Not in proper container. (Bottle to be used for testing must be purchased from a certified lab within 6 months.) Insufficient volume. (Sample must be at least 100 ml) If not tested, a new sample must be submitted for analysis.

FOR ADDITIONAL INFORMATION:

Contact your local health department OR the laboratory where this sample was tested OR the Department of Health, Drinking Water Program Regional Office.

506278-004 SR#

> (ALS) Environmental 1317 S. 13th Avenue • Kelso, WA 98626

COLIFORM BAC	, I ENIA /	MALISIS
	Sample llected	County
6 1 10 1 15 Month Day Year	:OD PM	PACIFIC
Type of Water System (check only one box)	☐ Pri	ivate Household
Group A ☐ Group B	OI	ther
Group A and Group B Systems - Provide fro ID# 6 3 0 0 System Name: Novelly Beach	<u>ی د</u>	es Inventory (WFI):
Contact Person: B: 11 New		
Day Phone: (360) 665-414		ell Phone: (360)244006
Eve. Phone: () Email: S Noval @ Noval Ba		X:()
Send results to Print full name, address and zipo Por Poox 618 Ocean Park, WA-	ode)	
	NFORMATIO	(Control of the Control of the Contr
Comple collected by (name): A		
Sample collected by (name): Lown: Specific location where sample collected:		pecial instructions or comments:
5-15 Samples		
Type of Sample (MUST CHECK ONLY ON	NE BOX OF #1 T	HROUGH #4 LISTED BELOW)
Chlorinated: YesNo Chlorine Residual: Total Free #3. Raw Water Source Sample E.coli – GWR source sample Fecal –Surface, GWI, some springs Other S Public systems must provide source number from WFI	(Populat Unsatis O 1 7 Unsatisfacto	ion System Groundwater Rule (GWR) ion of 1,000 or less) Ifactory routine lab number:
#4. Sample Collected for Information O Investigative Construction / R		Other
LAB USE ONLY DRINKING W	ATER RESU	ILTS LAB USE ONLY
☐ Unsatisfactory Total Coliform Present a ☐ E.coli present ☐ E.co	and oli absent	Satisfactory
Replacement Sample Required: Sample too old (>30 hours) TNT Improper Container Turk	C oid culture	
Bacterial Density Results: Plate Count		E.coli /100ml.
- 100 PA	F1 0 Pr	
Total Coliform /100ml. Method Code:	~~~~ / l	te,Time and Temp Received:
	36 6	te.Time and Temp Received:

INTERPRETATION OF RESULTS FOR DRINKING WATER

The analysis performed on this drinking water sample is an examination for the presence of coliform organisms in the water and indicates the bacteriological quality of the sample. The presence of coliform organisms is used by health organizations worldwide as an indicator for the possible presence of other disease causing organisms.

REPORTING OF RESULTS:

Group A Public Water Systems must report the results of Drinking Water Analysis to the State as specified in WAC 246-290-480.

SATISFACTORY RESULTS:

The absence of coliforms from any sample is satisfactory. Proper system maintenance and bacteriological monitoring should be continued routinely to insure the safety of the water supply.

UNSATISFACTORY RESULTS:

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The presence of coliforms indicates the system is not properly protected against contamination and may be unsafe for human consumption. Unsatisfactory samples should be investigated IMMEDIATELY and repeat samples submitted. Contact your local health department or DOH Regional Office for assistance in determining the source of contamination and corrective procedures.

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- 2. Submit repeat samples as specified in WAC 246-290-480
- 3. Publicly notify the users of public water systems as specified in WAC 246-290-480
- 4. Contact your local health department or DOH Regional Office as specified in WAC 246-290-480.

TEST UNSUITABLE: Resample Immediately
"Confluent Growth" means bacteria have grown into a continuous mass which makes counting impossible, "'TNC" means bacteria are too numerous to count. "Excess Debris" means that particulates in the water interfere with the interpretation of test results, "Turbid Culture" means overgrowth of other bacteria can interfere with coliform analysis. If any box indicating an unsuitable test is checked, the presence of coliform bacteria could not be determined and a new sample must be obtained for testing.

RESAMPLE:

Sample too old. (Sample to be tested must be received within 30 hours). Not in proper container. (Bottle to be used for testing must be purchased from a certified lab within 6 months.) Insufficient volume. (Sample must be at least 100 ml) If not tested, a new sample must be submitted for analysis.

FOR ADDITIONAL INFORMATION:

Contact your local health department OR the laboratory where this sample was tested OR the Department of Health, Drinking Water Program Regional Office.

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SR#_ KISO6278-005

ALS Environmental 1317 S. 13th Avenue • Kelso, WA 98626

COLIFORM BACTERIA ANALYSIS

4	,,-		
	ne Sample	Ţ	County
6/10/15		AM	DACISIC
Month Day Year <u>/C</u>	<u> </u>	PM	PACIAL
Type of Water System (check only one box)) [] Private	Household
Group A ☐ Group B	3 [_ Other_	
Group A and Group B Systems – Provide from 1D# 6 3 0 0	om Water Fa	acilities In	ventory (WFI):
System Name: North Beac	hus	rake	
Contact Person: BILL new	······································		
Day Phone: (360) 665 - 4144	(Cell Ph	one: (360)244006
Eve. Phone: ()		FAX: (
Email: Brown @ north?		note	r.com
Send results to: (Printfull name, address and zip	gode)		Transpark is
PO BOX 618		• • • • • • • • • • • • • • • • • • • •	
Ocean DATK, WA	Q.	864	•••
		12. A - A - A	
SAMPLE II	NFURMA	IION	
Sample collected by (name): $beau$	n'S		
Specific location where sample collected:		Special	instructions or comments:
5-18 sampler			1
Type of Sample (MUST CHECK ONLY OF	NE BOX OF	#1 THRO	UGH #4 LISTED BELOW)
#1. Routine Distribution Sample	#2.Repeat	Sample	(after unsat. routine)
Chlorinated: Yes No	☐ Disti	ibution S	/stem
Chlorine Residual: Total Free#3, Raw Water Source Sample			dwater Rule (GWR) 1,000 or less)
☐ E.coli – GWR source sample	Un	satisfacto	ry routine lab number:
☐ Fecal –Surface, GWI, some springs	0 1	7 -	
☐ Other			tine collect date:
THE TOTAL CONTRACTOR OF THE TOTAL CONTRACTOR OT THE TOTAL CONTRACTOR OF THE TOTAL CONTRACTOR OT THE TOTAL CONTRACTOR OF THE TO			
	Chlorina	ted: Yes	No
Public systems must provide source number from WFI	Chlorine	Residual	: TotalFree
#4. Sample Collected for Information O	nly	ioni wajiratu ng Jadigura	
Investigative Construction / R	Repairs	Oth	er
LAB USE ONLY DRINKING W	VATER RE	SIII TS	LAB USE ONLY
☐ Unsatisfactory Total Coliform Present a		OOLIO	Satisfactory
	oli absent		Cansiactory
E.com present	on absent		
Replacement Sample Required:			
☐ Sample too old (>30 hours) ☐ TNT	rc		
☐ Improper Container ☐ Turb	oid culture		
Bacterial Density Results: Plate Count		ml. <i>E.col</i>	/100ml.
Total Coliform/100ml.	Fecal Colif	orm	/100ml.
Method Code:	, T		and Temp Received:
MICR- See M. 9 2 2	3 /	6 101	5 SW 13:40
Date Analyzed 6, 10,15 %	- 20° - 10	Date Repo	
Sample Number (DOH number plus five digits)	ا ــ رم	Lab Use C)nlv
0 1 7 - 6 2 7 2	1 Z K		316/11/19

INTERPRETATION OF RESULTS FOR DRINKING WATER

The analysis performed on this drinking water sample is an examination for the presence of coliform organisms in the water and indicates the bacteriological quality of the sample. The presence of coliform organisms is used by health organizations worldwide as an indicator for the possible presence of other disease causing organisms.

REPORTING OF RESULTS:

Group A Public Water Systems must report the results of Drinking Water Analysis to the State as specified in WAC 246-290-480.

SATISFACTORY RESULTS:

The absence of coliforms from any sample is satisfactory. Proper system maintenance and bacteriological monitoring should be continued routinely to insure the safety of the water supply.

UNSATISFACTORY RESULTS:

Any coliform presence is unsatisfactory.

The presence of coliforms indicates the system is not properly protected against contamination and may be unsafe for human consumption. <u>Unsatisfactory samples should be investigated IMMEDIATELY and repeat samples submitted.</u> Contact your local health department or DOH Regional Office for assistance in determining the source of contamination and corrective procedures.

When fecal coliforms or E. coli are reported present in a sample, the **IMMEDIATE ACTION REQUIRED** by a Public System is:

- Investigate to determine the cause and correct the situation. Your local health department or DOH Regional Office can assist you.
- 2. Submit repeat samples as specified in WAC 246-290-480
- 3. Publicly notify the users of public water systems as specified in WAC 246-290-480
- 4. Contact your local health department or DOH Regional Office as specified in WAC 246-290-480.

TEST UNSUITABLE: Resample Immediately

"Confluent Growth" means bacteria have grown into a continuous mass which makes counting impossible, ""TNC" means bacteria are too numerous to count. "Excess Debris" means that particulates in the water interfere with the interpretation of test results, "Turbid Culture" means overgrowth of other bacteria can interfere with coliform analysis. If any box indicating an unsuitable test is checked, the presence of coliform bacteria could not be determined and a new sample must be obtained for testing.

RESAMPLE:

Sample too old. (Sample to be tested must be received within 30 hours). Not in proper container. (Bottle to be used for testing must be purchased from a certified lab within 6 months.) Insufficient volume. (Sample must be at least 100 ml) If not tested, a new sample must be submitted for analysis.

FOR ADDITIONAL INFORMATION:

Contact your local health department \mathbf{OR} the laboratory where this sample was tested \mathbf{OR} the Department of Health, Drinking Water Program Regional Office.

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SR# KISO6Z78 - 006

(ALS) Environmental 1317 S. 13th Avenue • Kelso, WA 98626

COLIFORM BACTERIA ANALYSIS

<u> </u>	M BACTERIA	
Date Sample Collected	Time Sample Collected	County
6 1 10 1 15 Month Day Year	<u>&:45</u> €	PM PACISC
Type of Water System (check on	ly one box)	Private Household
D Group A [Group B] Other
Group A and Group B Systems -	- Provide from Water Fac	cilities Inventory (WFI):
II# <u>6 3 0</u>	000	
System Name: Warbly	Beachw	ater
Contact Person: B: 1	للعه	
Day Phone: 360) 665	<u> 4144 </u>	Cell Phone: 360)244006
Eve. Phone: () Email: Brewle vo	all Dandle	FAX: ()
Send results to: (Print full name, add Now Pseudo PO Box 618	ress and zip code)	3640
	AMPLE INFORMAT	(Particular de la Contraction
Sample collected by (name):	Dennis	popularities and a state of the
Specific location where sample of	C 1000000000000000000000000000000000000	Special instructions or comments:
5-3 SAN	pler	
Type of Sample (MUST CHEC	K ONLY ONE BOX OF	#1 THROUGH #4 LISTED BELOW)
#1. Routine Distribution Sar	nple #2.Repeat	Sample (after unsat. routine)
Chlorinated: YesNo	✓ Distri	ibution System
Chlorine Residual: Total		ce Groundwater Rule (GWR) ulation of 1,000 or less)
☐ E.coli – GWR source sam	ple Uns	satisfactory routine lab number:
☐ Fecal –Surface, GWI, som	0 1	7
☐ Other	' ' 1	actory routine collect date:
s		
Public systems must provide source number	from WFI Chlorina	ted: Yes No
		Residual: TotalFree
#4. Sample Collected for Info		
Investigative Con	struction / Repairs	Other
LAB USE ONLY DRI	NKING WATER RE	
☐ Unsatisfactory Total Colifor☐ E.coli present	m Present and	Satisfactory
Replacement Sample Require	d;	
☐ Sample too old (>30 hours	s) TNTC	
☐ Improper Container	☐ Turbid culture	
Bacterial Density Results: Plate	Count /i	ml. E.coli /100ml.
Total Coliform	_/100ml. Fecal Colif	orm/100ml.
Method Code:	236	Date, Time and Temp Received:
Date Analyzed 6//0//	506	Date Reported: 6, //, /5
Sample Number (DOH number plus five dig	15) 7 C C	Lab Use Only: 786(11119
<u>0 1 7 - 6 .</u>	<u> </u>	1900mm

INTERPRETATION OF RESULTS FOR DRINKING WATER

The analysis performed on this drinking water sample is an examination for the presence of coliform organisms in the water and indicates the bacteriological quality of the sample. The presence of coliform organisms is used by health organizations worldwide as an indicator for the possible presence of other disease causing organisms.

REPORTING OF RESULTS:

Group A Public Water Systems must report the results of Drinking Water Analysis to the State as specified in WAC 246-290-480.

SATISFACTORY RESULTS:

The absence of coliforms from any sample is satisfactory. Proper system maintenance and bacteriological monitoring should be continued routinely to insure the safety of the water supply.

UNSATISFACTORY RESULTS:

Any coliform presence is unsatisfactory.

The presence of coliforms indicates the system is not properly protected against contamination and may be unsafe for human consumption. <u>Unsatisfactory samples should be investigated IMMEDIATELY and repeat samples submitted.</u> Contact your local health department or DOH Regional Office for assistance in determining the source of contamination and corrective procedures.

When fecal coliforms or E. coli are reported present in a sample, the **IMMEDIATE ACTION REQUIRED** by a Public System is:

- Investigate to determine the cause and correct the situation. Your local health department or DOH Regional Office can assist you.
- Submit repeat samples as specified in WAC 246-290-480
- 3. Publicly notify the users of public water systems as specified in WAC 246-290-480
- 4. Contact your local health department or DOH Regional Office as specified in WAC 246-290-480.

TEST UNSUITABLE: Resample Immediately

"Confluent Growth" means bacteria have grown into a continuous mass which makes counting impossible, ""TNC" means bacteria are too numerous to count. "Excess Debris" means that particulates in the water interfere with the interpretation of test results, "Turbid Culture" means overgrowth of other bacteria can interfere with coliform analysis. If any box indicating an unsuitable test is checked, the presence of coliform bacteria could not be determined and a new sample must be obtained for testing.

RESAMPLE:

Sample too old. (Sample to be tested must be received within 30 hours). Not in proper container. (Bottle to be used for testing must be purchased from a certified lab within 6 months.) Insufficient volume. (Sample must be at least 100 ml) If not tested, a new sample must be submitted for analysis.

Contact your local health department **OR** the laboratory where this sample was tested **OR** the Department of Health, Drinking Water Program Regional Office.

NatureSolv the environmentally responsible carbonless capsule.

SR# K1506278-007

ALS Environmental 1317 S. 13th Avenue • Kelso, WA 98626

COLIFORM BACTERIA ANALYSIS

Date Sample Collected	Time Sam	nle	County
6110115	Collecte		
Month Day Year	<u>lo : 3</u>	<u>⊘</u> □ PM	PACIEC
Type of Water System (check or	nly one box)	☐ Pri	ivate Household
⊠ Group A [Group B	□ 0t	her
Group A and Group B Systems	- Provide from Wa	ater Facilitie	es Inventory (WFI):
ID# <u>6 3 0</u>	00	<u> </u>	
System Name: Wordh		WAY	<u>~</u>
Contact Person: B: W Y			
Day Phone: 860)665-	4144		ell Phone: B60)2440068
Eve. Phone: () Email: By new () Non	II Banda		x:()
Send results to: (Print full name, add	lress and zip code)	(U) SARE	X.com
north Beach			
60 BOX 618			. 1 m
ocean park	- wa.	186	40
S	AMPLE INFO	RMATIO	N
Sample collected by (name): \(\square{1} \)	Lunis		
Specific location where sample	collected:	Sp	ecial instructions or comments:
5-16 SAM	plen		
Type of Sample (MUST CHEC	K ONLY ONE BO	X OF #1 T	HROUGH #4 LISTED BELOW)
#1. Routine Distribution Sa	mple #2.R	Repeat San	nple (after unsat. routine)
Chlorinated: YesNo_2	X _ [] Distributi	on System
Chlorine Residual: Total	Free		Groundwater Rule (GWR) on of 1,000 or less)
#3, Raw Water Source Sample			factory routine lab number:
☐ E.coli – GWR source sam		1 7	
☐ Fecal –Surface, GWI, son	ic spiniys		ry routine collect date:
Other			/
S	C		Yes No
Public systems must provide source number	from WH		sidual: TotalFree
#4. Sample Collected for Inf	ormation Only		
Investigative Cor	struction / Repair	s	Other
LAB USE ONLY DRI	NKING WATE	R RESU	LTS LAB USE ONLY
☐ Unsatisfactory Total Colifor			Satisfactory
☐ E.coli present	☐ E.coli abs	ent	
Replacement Sample Require	d.		
☐ Sample too old (>30 hour		Г	7
☐ Improper Container	Turbid cul	lture	
Bacterial Density Results: Plate	Count	/ml.	E.coli/100ml.
Total Coliform	_/100ml. Fec	al Coliform	/100ml.
Method Code:	, , ,	. 61.	e,Time and Temp Received:
MICR- 5 /4 1			1015 by 13:40
Date Analyzed (, / V, /) Sample Number (DOH number plus five dig	its)		Use Only:
0 1 7 - ² 2	<u> 78</u>	<u> </u>	B6/11/19

INTERPRETATION OF RESULTS FOR DRINKING WATER

The analysis performed on this drinking water sample is an examination for the presence of coliform organisms in the water and indicates the bacteriological quality of the sample. The presence of coliform organisms is used by health organizations worldwide as an indicator for the possible presence of other disease causing organisms.

REPORTING OF RESULTS:

Group A Public Water Systems must report the results of Drinking Water Analysis to the State as specified in WAC 246-290-480.

SATISFACTORY RESULTS:

The absence of coliforms from any sample is satisfactory. Proper system maintenance and bacteriological monitoring should be continued routinely to insure the safety of the water supply.

UNSATISFACTORY RESULTS:

Any coliform presence is unsatisfactory.

The presence of coliforms indicates the system is not properly protected against contamination and may be unsafe for human consumption. <u>Unsatisfactory samples should be investigated IMMEDIATELY and repeat samples submitted.</u> Contact your local health department or DOH Regional Office for assistance in determining the source of contamination and corrective procedures.

When fecal coliforms or E. coli are reported present in a sample, the **IMMEDIATE ACTION REQUIRED** by a Public System is:

- Investigate to determine the cause and correct the situation. Your local health department or DOH Regional Office can assist you.
- 2. Submit repeat samples as specified in WAC 246-290-480
- 3. Publicly notify the users of public water systems as specified in WAC 246-290-480
- Contact your local health department or DOH Regional Office as specified in WAC 246-290-480.

TEST UNSUITABLE: Resample Immediately

"Confluent Growth" means bacteria have grown into a continuous mass which makes counting impossible, ""TNC" means bacteria are too numerous to count. "Excess Debris" means that particulates in the water interfere with the interpretation of test results, "Turbid Culture" means overgrowth of other bacteria can interfere with coliform analysis. If any box indicating an unsuitable test is checked, the presence of coliform bacteria could not be determined and a new sample must be obtained for testing.

RESAMPLE:

Sample too old. (Sample to be tested must be received within 30 hours). Not in proper container. (Bottle to be used for testing must be purchased from a certified lab within 6 months.)

Insufficient volume. (Sample must be at least 100 ml)

If not tested, a new sample must be submitted for analysis.

FOR ADDITIONAL INFORMATION:

Contact your local health department **OR** the laboratory where this sample was tested **OR** the Department of Health, Drinking Water Program Regional Office.

NatureSolv* the environmentally responsible carbonless capsule

SR# KISOCZ78-008

ALS Environmental 1317 S. 13th Avenue • Kelso, WA 98626

COLIFORM BACTERIA ANALYSIS

COLIFOR	MI DAU I EKI	A ANALI SIS
Date Sample Collected	Time Sample Collected	County
6 10 115 Month Day Year	\$ 30 8	PM PACISIC
Type of Water System (check o	nly one box)	☐ Private Household
Group A		Other
Group A and Group B Systems	- Provide from Water Fa	acilities Inventory (WFI):
ID# <u>6</u> 3 0	000	
System Name: North	Beach WA	when
Contact Person: R/VIII	neal	
Day Phone: 1360) 665	-वापप	Cell Phone: 360/244006
Eve. Phone: ()		FAX: ()
Email: Blende No.	MAN BONACKU	when com
Send results to Print full name, add	h water	
100 Box 61	*************	
OCCUM PARK	WA. 99	8640
S	AMPLE INFORMA	TION
Sample collected by (name):	Dermis	
Specific location where sample		Special instructions or comments:
5-2 SAMPL		
J C JAMP		
Type of Sample (MUST CHE	CK ONLY ONE BOX OF	#1 THROUGH #4 LISTED BELOW)
1. ☑ Routine Distribution Sa		Sample (after unsat. routine)
Chlorinated: YesNo	X ☐ Distr	ribution System
Chlorine Residual: Total		rce Groundwater Rule (GWR) oulation of 1,000 or less)
3. Raw Water Source Sample	Un	satisfactory routine lab number:
☐ E.coli – GWR source sam	iple 0 1	7
☐ Fecal –Surface, GWI, son	ile spilligs	actory routine collect date:
Other	Ulisatisi	
S	Chlorina	ited: YesNo
Public systems must provide source number	from WFI	Residual: TotalFree
4. ☐ Sample Collected for Inf		7.0000001.7000
Investigative Cor		Other
	INKING WATER RE	SULTS LAB USE ONLY
☐ Unsatisfactory Total Colifor		Satisfactory
☐ E.coli present	☐ E.coli absent	7
Replacement Sample Require		
☐ Sample too old (>30 hour	As a Section of	U
☐ Improper Container	☐ Turbid culture	
Bacterial Density Results: Plate	Count /	ml. <i>E.coli</i>
Total Coliform	/100ml, Fecal Colif	iorm /100ml
		Date, Time and Temp Received:
Method Code: MICR- S M 9 2	2236	6-1015 6W 13:40
Date Analyzed C./O./	Sab	Date Reported: 6/// / 5
Sample Number (DOH number plus five dig		Lab Use Only:
0 1 7 - 6 2	-7881	MOLINY

INTERPRETATION OF RESULTS FOR DRINKING WATER

The analysis performed on this drinking water sample is an examination for the presence of coliform organisms in the water and indicates the bacteriological quality of the sample. The presence of coliform organisms is used by health organizations worldwide as an indicator for the possible presence of other disease causing organisms.

REPORTING OF RESULTS:

Group A Public Water Systems must report the results of Drinking Water Analysis to the State as specified in WAC 246-290-480.

SATISFACTORY RESULTS:

The absence of coliforms from any sample is satisfactory. Proper system maintenance and bacteriological monitoring should be continued routinely to insure the safety of the water supply.

UNSATISFACTORY RESULTS:

Any coliform presence is unsatisfactory.

The presence of coliforms indicates the system is not properly protected against contamination and may be unsafe for human consumption. <u>Unsatisfactory samples should be investigated IMMEDIATELY and repeat samples submitted.</u> Contact your local health department or DOH Regional Office for assistance in determining the source of contamination and corrective procedures.

When fecal coliforms or E. coli are reported present in a sample, the **IMMEDIATE ACTION REQUIRED** by a Public System is:

- 1. Investigate to determine the cause and correct the situation. Your local health department or DOH Regional Office can assist you.
- 2. Submit repeat samples as specified in WAC 246-290-480
- 3. Publicly notify the users of public water systems as specified in WAC 246-290-480
- 4. Contact your local health department or DOH Regional Office as specified in WAC 246-290-480.

TEST UNSUITABLE: Resample Immediately

"Confluent Growth" means bacteria have grown into a continuous mass which makes counting impossible, ""TNC" means bacteria are too numerous to count. "Excess Debris" means that particulates in the water interfere with the interpretation of test results, "Turbid Culture" means overgrowth of other bacteria can interfere with coliform analysis. If any box indicating an unsuitable test is checked, the presence of coliform bacteria could not be determined and a new sample must be obtained for testing.

RESAMPLE:

Sample too old. (Sample to be tested must be received within 30 hours). Not in proper container. (Bottle to be used for testing must be purchased from a certified lab within 6 months.) Insufficient volume. (Sample must be at least 100 ml) If not tested, a new sample must be submitted for analysis.

FOR ADDITIONAL INFORMATION:

Contact your local health department **OR** the laboratory where this sample was tested **OR** the Department of Health, Drinking Water Program Regional Office.

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SR# 161506278-009

ALS Environmental 1317 S. 13th Avenue • Kelso, WA 98626

COLIFORM BACTERIA ANALYSIS

Date Sample Collected	Time Sample Collected		County		
6 1 10 1 15 Month Day Year	9:45 ⁰	AM E	S2:2AQ		
Type of Water System (check on	lly one box)	☐ Pri	vate Household		
Group A [☐ Group B	Ot	her		
Group A and Group B Systems -	Provide from Water F	acilitie	s Inventory (WFI):		
System Name: Nordh	Boach W	Ada	ΣA		
Contact Person: (3) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ral .				
Day Phone: 360) 665-	4144	Ce	Phone: 360244006		
Eve. Phone: ()		L	X: ()		
Send results to (Print full name, add NOTON BENECH OCOMA DATE	ress and zip corte)		dec.com		
	AMPLE INFORMA	XI IOI			
Sample collected by (name): r	Dennis				
Specific location where sample of	collected:	Sp	ecial instructions or comments:		
5-11					
Type of Sample (MUST CHEC	K ONLY ONE BOX OF	#1 TI	HROUGH #4 LISTED BELOW)		
#1. Routine Distribution San	nple #2.Repea	it Sam	ple (after unsat. routine)		
Chlorinated: YesNo	X ☐ Dis	tributio	on System		
Chlorine Residual: TotalI			roundwater Rule (GWR) on of 1,000 or less)		
#3. Raw Water Source Sample	u U	nsatisf	actory routine lab number:		
☐ Fecal –Surface, GWI, som	0 1	7			
☐ Other		sfactor	y routine collect date:		
s					
Public systems must provide source number	Chlorin	ated:	Yes No		
Public systems must provide source number		e Res	idual: TotalFree		
#4. Sample Collected for Info	ormation Only				
Investigative Con	struction / Repairs		Other		
LAB USE ONLY DRI I	NKING WATER R	ESU	LTS LAB USE ONLY		
Unsatisfactory Total Coliforn	m Present and		Satisfactory		
☐ E.coli present	☐ E.coli absent		/:		
Replacement Sample Required Sample too old (>30 hours]		
☐ Improper Container	☐ Turbid culture				
Bacterial Density Results: Plate	Count	_/ml.	E.coli/100ml.		
Total Coliform	_/100ml. Fecal Co	liform	/100ml.		
Method Code: MICR- 9	233	Date 61	Time and Temp Received:		
Date Analyzed 6,/0,/	1506		Reported: 6.///		
Sample Number (DOH number plus five digit 0 1 7 - 6	789	Lab	Use Only: ACCIVITY		

INTERPRETATION OF RESULTS FOR DRINKING WATER

The analysis performed on this drinking water sample is an examination for the presence of coliform organisms in the water and indicates the bacteriological quality of the sample. The presence of coliform organisms is used by health organizations worldwide as an indicator for the possible presence of other disease causing organisms.

REPORTING OF RESULTS:

Group A Public Water Systems must report the results of Drinking Water Analysis to the State as specified in WAC 246-290-480.

SATISFACTORY RESULTS:

The absence of coliforms from any sample is satisfactory. Proper system maintenance and bacteriological monitoring should be continued routinely to insure the safety of the water supply.

UNSATISFACTORY RESULTS:

Any coliform presence is unsatisfactory.

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When fecal coliforms or E. coli are reported present in a sample, the **IMMEDIATE ACTION REQUIRED** by a Public System is:

- 1. Investigate to determine the cause and correct the situation. Your local health department or DOH Regional Office can assist you.
- 2. Submit repeat samples as specified in WAC 246-290-480
- 3. Publicly notify the users of public water systems as specified in WAC 246-290-480
- Contact your local health department or DOH Regional Office as specified in WAC 246-290-480.

TEST UNSUITABLE: Resample Immediately

"Confluent Growth" means bacteria have grown into a continuous mass which makes counting impossible, ""TNC" means bacteria are too numerous to count. "Excess Debris" means that particulates in the water interfere with the interpretation of test results, "Turbid Culture" means overgrowth of other bacteria can interfere with coliform analysis. If any box indicating an unsuitable test is checked, the presence of coliform bacteria could not be determined and a new sample must be obtained for testing.

RESAMPLE:

Sample too old. (Sample to be tested must be received within 30 hours). Not in proper container. (Bottle to be used for testing must be purchased from a certified lab within 6 months.)

Insufficient volume. (Sample must be at least 100 ml)

If not tested, a new sample must be submitted for analysis.

FOR ADDITIONAL INFORMATION:

Contact your local health department \mathbf{OR} the laboratory where this sample was tested \mathbf{OR} the Department of Health, Drinking Water Program Regional Office.

dba ALS Environmental Analytical Report

Client: North Beach Water District

Service Request: K1506304 Project: **Date Collected:** 06/09/15 NA Sample Matrix: **Date Received:** 06/10/15 Water

Total Metals

Units: ug/L (ppb) Basis: NA Sample Name: Well 6 & 8 NWF Lab Code: K1506304-001

	Prep	Analysis		Dilution	Date	Date		Result
Analyte	Method	Method	MRL	Factor	Extracted	Analyzed	Result	Notes
Arsenic (III)	None	1632A	0.5	25	NA	07/01/15	8.4	
Arsenic (V)	None	1632A	1.0	50	NA	07/01/15	3.5	
Inorganic Arsenic	None	1632A	1.0	50	NA	06/20/15	11.9	

dba ALS Environmental Analytical Report

Client: North Beach Water District

Project: NA **Sample Matrix:** Water

Service Request: K1506304 **Date Collected:** 06/09/15 **Date Received:** 06/10/15

Total Metals

Sample Name: Lab Code: Well 1 NWF K1506304-002 Units: ug/L (ppb) Basis: NA

	Prep	Analysis		Dilution	Date	Date		Result
Analyte	Method	Method	MRL	Factor	Extracted	Analyzed	Result	Notes
Arsenic (III)	None	1632A	0.1	5	NA	07/01/15	0.8	
Arsenic (V)	None	1632A	0.2	10	NA	07/01/15	0.8	
Inorganic Arsenic	None	1632A	0.2	10	NA	06/20/15	1.6	

dba ALS Environmental Analytical Report

Client: North Beach Water District

Service Request: K1506304 Project: **Date Collected:** 06/09/15 NA Sample Matrix: **Date Received:** 06/10/15 Water

Total Metals

Units: ug/L (ppb) Basis: NA Sample Name: Well 3 SWF Lab Code: K1506304-003

Test Notes:

	Prep	Analysis		Dilution	Date	Date		Result
Analyte	Method	Method	MRL	Factor	Extracted	Analyzed	Result	Notes
Arsenic (III)	None	1632A	1.0	50	NA	07/01/15	15.1	
Arsenic (V)	None	1632A	2.0	100	NA	07/01/15	4.1	
Inorganic Arsenic	None	1632A	2.0	100	NA	06/20/15	19.2	

K1506304icp - 3 07/08/15 - CL Page No.:

dba ALS Environmental Analytical Report

Client: North Beach Water District

Service Request: K1506304 Project: **Date Collected:** 06/09/15 NA Sample Matrix: **Date Received:** 06/10/15 Water

Total Metals

Units: ug/L (ppb) Basis: NA Sample Name: Well 4 & 5 NWF Lab Code: K1506304-004

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Arsenic (III)	None	1632A	0.5	25	NA	07/01/15	6.8	
Arsenic (V)	None	1632A	1.0	50	NA	07/01/15	6.3	
Inorganic Arsenic	None	1632A	1.0	50	NA	06/20/15	13.1	

dba ALS Environmental Analytical Report

Client: North Beach Water District Service Request: K1506304

Project:NADate Collected:NASample Matrix:WaterDate Received:NA

Total Metals

Sample Name: Method Blank 1 Units: ug/L (ppb)
Lab Code: K1506304-MB1 Basis: NA

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Arsenic (III)	None	1632A	0.02	1	NA	07/01/15	ND	
Inorganic Arsenic	None	1632A	0.02	1	NA	06/20/15	ND	

dba ALS Environmental Analytical Report

Client: North Beach Water District Service Request: K1506304

Project:NADate Collected:NASample Matrix:WaterDate Received:NA

Total Metals

Sample Name: Method Blank 2 Units: ug/L (ppb)
Lab Code: K1506304-MB2 Basis: NA

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Arsenic (III)	None	1632A	0.02	1	NA	07/01/15	ND	
Inorganic Arsenic	None	1632A	0.02	1	NA	06/20/15	ND	

dba ALS Environmental Analytical Report

Client: North Beach Water District Service Request: K1506304

Project:NADate Collected:NASample Matrix:WaterDate Received:NA

Total Metals

Sample Name: Method Blank 3 Units: ug/L (ppb)
Lab Code: K1506304-MB3 Basis: NA

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Arsenic (III)	None	1632A	0.02	1	NA	07/01/15	ND	
Inorganic Arsenic	None	1632A	0.02	1	NA	06/20/15	ND	

dba ALS Environmental Analytical Report

Client: North Beach Water District Service Request: K1506304

Project:NADate Collected:NASample Matrix:WaterDate Received:NA

Total Metals

Sample Name: Method Blank 4 Units: ug/L (ppb)
Lab Code: K1506304-MB4 Basis: NA

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Arsenic (III)	None	1632A	0.02	1	NA	07/01/15	ND	
Inorganic Arsenic	None	1632A	0.02	1	NA	06/20/15	ND	

dba ALS Environmental Analytical Report

Client: North Beach Water District Service Request: K1506304

Project:NADate Collected:NASample Matrix:WaterDate Received:NA

Total Metals

Sample Name: Method Blank 5 Units: ug/L (ppb)
Lab Code: K1506304-MB5 Basis: NA

Test Notes:

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Arsenic (III)	None	1632A	0.02	1	NA	07/01/15	ND	
Inorganic Arsenic	None	1632A	0.02	1	NA	06/20/15	ND	

K1506304icp - 9 07/07/15 Page No.:

dba ALS Environmental Analytical Report

Client: North Beach Water District Service Request: K1506304

Project:NADate Collected:NASample Matrix:WaterDate Received:NA

Total Metals

Sample Name: Method Blank 6 Units: ug/L (ppb)
Lab Code: K1506304-MB6 Basis: NA

Analyte	Prep Method	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
Arsenic (III)	None	1632A	0.02	1	NA	07/01/15	ND	
Inorganic Arsenic	None	1632A	0.02	1	NA	06/20/15	ND	

QA/QC Report

Client: North Beach Water District

Project: NA **Sample Matrix:** Water Service Request: K1506304 Date Collected: NA

Date Received: NA Date Extracted: NA

Date Analyzed: 07/01/15

Basis: NA

Matrix Spike/Duplicate Matrix Spike Summary

Total Metals

Sample Name:

Batch QC

Units: ug/L (ppb)

Lab Code: K1506621-001MS, K1506621-001MSD

Test Notes:

Percent Recovery

Analyte	Prep Method	Analysis Method	MRL	Spike MS	Level DMS	Sample Result	Spike MS	Result DMS	MS	DMS	Method Acceptance Limits	Relative Percent Difference	Result Notes
Arsenic (III)	None	1632A	0.02	0.2	0.2	0.04	0.21	0.22	85	90	30-170	5	

K1506304icp - DMS 07/07/15 Page No.:

QA/QC Report

Client: North Beach Water District

Project: NA Sample Matrix: Water

Service Request: K1506304

Date Collected: NA

Date Received: NA **Date Extracted:** NA

Date Analyzed: 06/20/15

Matrix Spike/Duplicate Matrix Spike Summary

Total Metals

Sample Name:

Batch QC

K1506318-001MS,

K1506318-001MSD

Units: ug/L (ppb)

Basis: NA

Lab Code: Test Notes:

Percent Recovery

	Prep	Analysis		Spike	e Level	Sample	Spike	Result	rer	сепі	Method Acceptance	Relative Percent	Result
Analyte	Method	Method	MRL	MS	DMS	Result	MS	DMS	MS	DMS	Limits	Difference	Notes
Inorganic Arsenic	None	1632A	0.02	0.2	0.2	0.16	0.33	0.34	85	90	50-150	3	

K1506304icp - DMS (2) 07/07/15 Page No.:

QA/QC Report

Client: North Beach Water District Service Request: K1506304

Project: NA
LCS Matrix: Water

Date Collected: NA
Date Received: NA
Date Extracted: NA

Date Analyzed: 06/20,07/01/15

Calibration Verification (CALVER) Sample Summary

Total Metals

Sample Name: CALVER 1 Units: ug/L (ppb)

Basis: NA

	Prep	Analysis	True		Percent	CAS Percent Recovery Acceptance	Result
Analyte	Method	Method	Value	Result	Recovery	Limits	Notes
Arsenic (III) Inorganic Arsenic	None None	1632A 1632A	0.200 0.200	0.189 0.208	94 104	70-130 80-120	

ALS Group USA, Corp. dba ALS Environmental QA/QC Report

North Beach Water District

Service Request: K1506304

Project:NADate Collected:NALCS Matrix:WaterDate Received:NADate Extracted:NA

Date Analyzed: 06/20,07/01/15

Calibration Verification (CALVER) Sample Summary

Total Metals

Sample Name: CALVER 2 Units: ug/L (ppb)

Basis: NA

Test Notes:

Client:

	Prep	Analysis	True		Percent	CAS Percent Recovery Acceptance	Result
Analyte	Method	Method	Value	Result	Recovery	Limits	Notes
Arsenic (III) Inorganic Arsenic	None None	1632A 1632A	0.200 0.200	0.199 0.199	100 100	70-130 80-120	

QA/QC Report

Client: North Beach Water District Service Request: K1506304

Project:NADate Collected:NALCS Matrix:WaterDate Received:NADate Extracted:NA

Date Extracted: NA

Date Analyzed: 06/20/15

Calibration Verification (CALVER) Sample Summary

Total Metals

Sample Name: CALVER 3 Units: ug/L (ppb)

Basis: NA

Test Notes:

						CAS Percent Recovery	
Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	Acceptance Limits	Result Notes
Inorganic Arsenic	None	1632A	0.200	0.208	104	80-120	

K1506304icp - CALVER3 07/07/15 Page No.:

QA/QC Report

Client: North Beach Water District Service Request: K1506304

Project:NADate Collected:NALCS Matrix:WaterDate Received:NADate Extracted:NA

Date Analyzed: 06/20/15

Calibration Verification (CALVER) Sample Summary

Total Metals

Sample Name: CALVER 4 Units: ug/L (ppb)

Basis: NA

Analyte						CAS Percent Recovery	
	Prep Method	Analysis Method	True Value	Result	Percent Recovery	Acceptance Limits	Result Notes
Inorganic Arsenic	None	1632A	0.200	0.214	107	80-120	

QA/QC Report

Client: North Beach Water District Service Request: K1506304

Project: NA
LCS Matrix: Water

Date Collected: NA
Date Received: NA
Date Extracted: NA

Date Extracted: NA
Date Analyzed: 06/20/15

Calibration Verification (CALVER) Sample Summary

Total Metals

Sample Name: CALVER 5 Units: ug/L (ppb)

Basis: NA

Analyte						CAS Percent Recovery	
	Prep Method	Analysis Method	True Value	Result	Percent Recovery	Acceptance Limits	Result Notes
Inorganic Arsenic	None	1632A	0.200	0.198	99	80-120	

Pacific County 227th Place Culvert Replacement Project



District Water Main on the South Side of 227th Place will be interrupted during the replacement of the culvert. Outage will affect all of Sunset Sands, as well as all customers on 227th east of HWY 103. (Approximately 600 customers)

