

GWI Water Quality Monitoring Interview Documentation Form

System Name: Contact (Name/Phone #):		System ID #: County:		
Basis for Potential GWI Sour	ce Designation:			
	Source Data			
·	Source # 0	_ Source # 0	_ Source # 0 _	
Source Name				
Capacity, gpm				
Total Depth				
Depth of Open Interval				

Susceptibility and Wellhead Protection Zone Information			
	Source # 0_	Source # 0_	Source # 0_
Susceptibility Rating			
Adjacent Surface Water			
Name			
Distance			
WHPA Zone Radius (ft)			
6-month			
1-year			
5-year			

Water Quality Monitoring Parameters			
	Required	Optional	Selected
Temperature (°C)	\square	_	
Conductivity (µmhos/cm)	\square		
Rainfall / streamflow			
Coliform bacteria or HPC			
pН			
Turbidity		\square	

Summary of Meeting

Sources to be monitored:
Date(s) to begin sampling:
Preliminary Monitoring Report due on:
Sampling Locations:
Remarks:

Water Quality Monitoring:

y	dier Quality Mondoring.				
M(ONITORING EQUIPMENT				
	Temperature:				
	\square digital thermometer with readout to $\pm 0.1^{\circ}$ C				
	Conductivity:				
	☐ temperature compensated conductivity meter with digital readout				
	✓ range: 0 to 2,000 micromhos/cm [µmoh/cm]				
	☑ accuracy: ± 1 μmoh/cm				
	pH:				
	☑ digital readout				
	☑ accuracy: ± 0.1 pH unit				
	Turbidity:				
	☑ digital readout				
	☐ range: 0 - 1,000 NTU [nephelometric turbidity units]				
	\square accuracy: ± 0.1 NTU				
	Models Acceptable to the Department				
	☐ relatively inexpensive models available, such as or equivalent to:				
	 Whatman Scientific in Hillsboro, Oregon (1-800-942-8626) 				
	 Hach Company in Loveland, Colorado (1-800-227-4224) 				
	Sampling Frequency & Duration:				
	 Once per week minimum for 12 months 				
	 Same day of week (assure similar usage patterns) 				
	 No less than five [5] days between measurements 				
	• Same time of day (assure consistent temperature & sunlight variations)				
	Sampling Technique:				
	Assure source flowing for 15 to 30 minutes prior to sample collection				
	☐ Flush a minimum volume equal to 3 casing or collection line volumes				
	☑ Seasonal source: online for at least 2 weeks prior to initial sample				
	collection				
	✓ Surface sample:				
	 Rinse sample container at least 3 times; 				

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Obtain temperature measurement immediately

Do not stir

Allow container temperature to adjust to water temperature

Obtain conductivity, temperature and pH samples in the field

 \checkmark

 \checkmark

		Allow thermometer time to acclimate to air temperature versus transport	
temperature Sampling Location:			
_		Source Sample Location:	
		Sample prior to treatment - including chlorination	
	lacksquare	Surface Water Sample Location:Stream cross-section: from as near to stream thalweg (main stream)	
		as possible	
		Avoid shallows and slack-waters	
		 Stream length: As close to source location along streambank as possible 	
		Bridges ¼ mile upstream to 1 mile downstream of source	
	_	location are acceptable	
	✓	Spring Sample Location:	
		Surface water measurements not requiredAir temperature and rainfall measurements required	
		Rainfall / stream gauging:	
		Readings made at the same time as water quality measurements	
		 Assure rain gauge located to assure precipitation not obstructed by 	
		geography, trees or buildings	
		 Record daily precipitation events in narrative for days measurements not taken 	
		 Daily precipitation and temperature data from USGS or state weather 	
		stations can be substituted	
		Surface water stream flow measured with pygmy meter or standard	
		 device such as weir [if available - do not construct] Surface water stream flow measurements substituted from USGS 	
		gaging stations if stations are active, data is available and there are	
		no ungaged, significantly large tributary streams between stations	
		used to gage the site.	
*		waters within 200 feet of the groundwater source shall be monitored. Surface fined as water open to the atmosphere and subject to surface runoff. These include	
		year-round) rivers, streams, and creeks as well as lakes, ponds and wetlands.	
	-	streams, natural and man-made surface impoundments that receive runoff are	
		ed. Isolated bodies of water that form in low lying areas during the rainy season	
		result of the water table rising to the surface are not considered surface water. If	
		uestion as to whether a particular body of water will be considered surface water ext of this guidance, the deciding factor will be whether or not channeled drainage	
		water to the body.	
ш		ΓS - Reporting Requirements inary Report: submit following collection of 6 months of data	
		Report: submit following collection of minimum of 12 months of data,	
		ed following review of preliminary report.	
	✓ Depart	mental review fees - billed at hourly rate	
П	Preliminary W/	QM Report Contents	
_		ackground information" and "Elevation profile diagram" portions of final report	

□ Background information ☑ map of the area surrounding each potential GWI source. locate the potential GWI source, locate all surface water bodies within 200 feet of the potential GWI, identify the location of the baseline monitoring point for each surface water identify major roadways, any stormwater storage or collection facilities open to the atmosphere, and any potential sources of microbiological contamination within the 6month time of travel [obtained from the source susceptibility survey for the potential GWI source sonsite sewage absorption systems sewer lines, dairy or livestock operations. ☑ Base maps: **USGS** maps county plats &/or planning maps aerial photos water system planning maps Minimum scale: 4" per mile or 1" ≈ 1325' **□** Elevation profile diagram ☑ Required for each potential GWI source ☑ elevation profile diagram which shows in cross section the elevations of the potential GWI source and nearby surface water ☑ minimum scale : 1" = 50 feet [horizontal] \square = 10' [vertical] **□** Wells: ☑ well depth ☑ depth to top of first screened/perforated or open interval ☑ surface seal depth (indicate type of seal if known) ☑ the slope of the land in the vicinity of the well ☑ information sources: well logs water system plans waiver susceptibility surveys well driller WA Dept. Of Ecology, Regional Office - Water Resources Division

- ☐ Springs, infiltration galleries, and Ranney wells
 - ☑ depth of box or caisson
 - ☑ depth of buried collection laterals
 - ✓ surface seal type, depth, and extent
 - \square the slope of the land in the vicinity of the source
 - ☑ information sources:

		\checkmark	as-built d construct water sys	ion reports	
				lete, provide the available information and your best estimate for the n (indicate "estimate" on the diagram).	
		N N N	elevation elevation approxim the slope	at may potentially affect the source of normal pool of 100 year floodplain of lake bed, bottom of river channel or streambed hate sampling point elevations of the land surface between the source and the surface water on sources: local floodplain maps or reports available in city and offices.	
		Final Report Contents Use format provided Data analyzed and graphically depicted Analysis performed by the department Data submitted as electronic files preferred Format in ASCII text or common spreadsheets - Excel, Lotus, QuattroPro Data must in column-unique form with one parameter in each column Do not report values "less than" (<) or "greater than" (>); must be numeric data Report full dates [06/05/97] Hour for collection should be provided Text comment reserved for far right column only Complete data required for <u>each</u> potential GWI source Complete surface water data for <u>each</u> surface water body within 200 feet of the GWI source			
	Hydraul: ☑ ☑	ic conne DOH w All sou	ill make n	tified by data: otification to purveyor to proceed with MPA analyses ified required to install disinfection with appropriate microbiologic [CT's]	
Re	turn comj	pleted f	orm to:	GWI Program Lead Department of Health, Office of Drinking Water P.O. Box 47822	

✓ system files

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