Test Well Submittal Fact Sheet

Test wells are required for new community water system wells if the water quality and quantity is not known with a high degree of certainty, or if the well is constructed in an unconsolidated formation. Plans and specification submittal is required prior to the construction of any test well which will be pumped at a rate of 70 gallons per minute or more for a duration of 72 hours or more in accordance with s. NR 811.09(1)(b)(3), Wis. Adm. Code. In addition, department approval must be obtained for a proposed test well if the test well will be converted to a final well. The department recommends including the following information in a proposed test well submittal:

For proposed test wells submitted with a Well Site Investigation Report which *WILL NOT* be converted to a final well it is recommended to submit:

a. A Water System Approval Request (Form 3300-260)
b. A detailed test well cross section which includes geologic formations, drillhole diameters and depths, casing diameters and depths, screen material, slot size, diameter and depths, and grouting or sealing depths.
c. The anticipated rate and duration of test pumpage.
d. Specifications covering casing and screen materials, methods of drilling, and methods of grouting.
e. A well water sampling schedule.
f. Coordinates of the proposed test well.

Plan review submittal requirements for test well which *WILL* be converted to a final well:

a. A Water System Approval Request (Form 3300-260)
b. A Well Site Investigation Report if one has not been previously approved meeting the requirements of s. NR 811.09(4)(j), Wis. Adm. Code.
c. A Cover Letter
d. A Public Well Approval Submittal Request (Form 3300-044)
e. Plans submitted by a professional engineer which includes a detailed test well cross section which includes geologic formations, drillhole diameters and depths, casing diameters and depths, screen diameter and depths, and grouting or sealing depths.
f. Specifications stamped and sealed by a professional engineer.

Test Wells Drilled in Unconsolidated Formations: Test wells are required to be drilled for wells in unconsolidated formations (s. NR 811.12(1)(g), Wis. Adm. Code). The department recommends that final wells in unconsolidated formations be drilled in the same borehole as the test well to assure similar water quality and quantity. If a separate final well is drilled, the test well should not be backfilled with a material which could migrate to the final well.

Test Well Sampling Parameters: The department recommends sampling a test well for the contaminants listed on the attached checklist. The checklist may not necessarily represent all contaminants of concerns and is subject to change.

INORGANIC ANALYSES

System Name:_____

This page to be completed by the laboratory performing analysis.

PWS ID: _____

Lab Sample ID: _____

Storet Code		Parameter	SDWA Method	MDL	Results	MCL	Units
410	X	ALKALINITY TOTAL CACO3					MG/L
1105	X	ALUMINUM TOTAL					MG/L
1097	X	ANTIMONY TOTAL				0.006	MG/L
1002	X	ARSENIC TOTAL				0.010	MG/L
34225	X	ASBESTOS				7 Mill	FIB/L
1007	X	BARIUM TOTAL				2	MG/L
1012	X	BERYLLIUM TOTAL				0.004	MG/L
1027	X	CADMIUM TOTAL				0.005	MG/L
916	X	CALCIUM TOTAL					MG/L
940	X	CHLORIDE					MG/L
50060		CHLORINE TOTAL RESIDUAL FIELD					MG/L
1034	X	CHROMIUM TOTAL				0.1	MG/L
1037		COBALT TOTAL					
80		COLOR					
1042	X	COPPER TOTAL					UG/L
720	X	CYANIDE				0.2	MG/L
951	X	FLUORIDE TOTAL				4	MG/L
900	X	HARDNESS TOTAL CACO3					MG/L
74010	X	IRON					MG/L
1051	X	LEAD TOTAL					UG/L
927	X	MAGNESIUM TOTAL					MG/L
1055	X	MANGANESE					MG/L
71900	X	MERCURY TOTAL				0.002	MG/L
1067	X	NICKEL TOTAL				0.1	MG/L
620	X	NITRATE AS N				10	MG/L
630	X	NITRATE+NITRITE				10	MG/L
615	X	NITRITE (NO2-N) TOTAL				1	MG/L
403	X	PH LAB					SU
70300	X	RESIDUE DISS 180C (TDS)					MG/L
1147	X	SELENIUM TOTAL				0.05	MG/L
1077	X	SILVER TOTAL					MG/L
929	X	SODIUM TOTAL					MG/L
1084		STRONTIUM TOTAL REC					UG/L
945	X	SULFATE TOTAL					MG/L
1059	X	THALLIUM TOTAL				0.002	MG/L
76		TURBIDITY					NTU
1087		VANADIUM ICP					
1092		ZINC TOTAL					MG/L

RADIOACTIVITY ANALYSES

System Name: _____

This page to be completed by the laboratory performing analysis.

PWS ID: _____

Lab Sample ID: _____

Storet Code		Parameter	SDWA Method	MDL	Results	MCL	Units
99971	X	GROSS ALPHA, EXCLUDING URANIUM & RADON				15	PCI/L
* 1501		GROSS ALPHA, INCLUDING URANIUM & RADON					PCI/L
3501		GROSS BETA				50.0	PCI/L
9501	X	RADIUM 226				5	PCI/L
11501	X	RADIUM-228, TOTAL				5	PCI/L
11503		RADIUM 226 + 228 TOTAL				5	PCI/L
82303	X	RADON-222,TOTAL IN WATER					PCI/L
13501		STRONTIUM 90, TOTAL				8.0	PCI/L
7005		TRITIUM DISS PCI/L				20000	PCI/L
22706	X	URANIUM TOTAL				30	UG/L

SYNTHETIC ORGANIC ANALYSES

System Name:_____

This page to be completed by the laboratory performing analysis.

PWS ID: _____

Lab Sample ID: _____

Storet Code		Parameter	SDWA Method	MDL	Results	MCL	Units
46317	X	ALACHLOR (LASSO)				2	UG/L
39053	X	ALDICARB (TEMIK)				3	UG/L
82587	X	ALDICARB SULFONE				2	UG/L
82586	X	ALDICARB SULFOXIDE				4	UG/L
34680	X	ALDRIN					UG/L
39033	X	ATRAZINE				3	UG/L
34247	X	BENZO (A) PYRENE				0.2	UG/L
77860	X	BUTACHLOR					UG/L
77700	X	CARBARYL					UG/L
81405	X	CARBOFURAN				40	UG/L
39350	X	CHLORDANE				2	UG/L
39348	X	CHLORDANE ALPHA					UG/L
39810	X	CHLORDANE GAMMA					UG/L
77780	X	CYANAZINE					
39730	X	2,4-D				70	UG/L
38432	X	DALAPON				200	UG/L
46373	X	DEETHYLATRAZINE					UG/L
46374	X	DEISOPROPYLATRAZINE					UG/L
4442		DIAMINOATRAZINE					UG/L
38760	X	1,2-DIBROMO-3-CHLOROPROPA				0.2	UG/L
82052	X	DICAMBA					UG/L
39380	X	DIELDRIN					UG/L
77903	X	DI(2-ETHYLHEXYL)ADIPATE				400	UG/L
46312	X	DI(2-ETHYLHEXYL)PHTHALATE				6	UG/L
81287	X	DINOSEB				7	UG/L
78885	X	DIQUAT				20	UG/L
38926	X	ENDOTHALL				100	UG/L
39390	X	ENDRIN				2.0	UG/L
46369	X	ETHYLENE DIBROMIDE (EDB)				0.05	UG/L
39941	X	GLYPHOSATE (ROUND-UP)				700	UG/L
39410	X	HEPTACHLOR				0.4	UG/L
39420	X	HEPTACHLOR EPOXIDE				0.2	UG/L
34688	X	HEXACHLOROBENZENE				1	UG/L
34386	X	HEXACHLOROCYCLOPENTADIENE				50	UG/L
82584	X	3-HYDROXYCARBOFURAN					UG/L
39340	X	BHC GAMMA (LINDANE)				0.2	UG/L
39051	X	METHOMYL					UG/L
39480	X	METHOXYCHLOR				40	UG/L
39356	X	METOLACHLOR (DUAL)					UG/L
81408	X	METRIBUZIN (SENCOR)					UG/L
38865	X	OXAMYL (VYDATE)				200	UG/L
39516	X	PCB TOTAL				0.5	UG/L
39032	X	PENTACHLOROPHENOL				1	UG/L
39720	X	PICLORAM (TORDON)				500	UG/L
30295	X	PROPACHLOR					UG/L
39760	X	2,4,5-TP (SILVEX)				50	UG/L
39055	X	SIMAZINE				4	UG/L
34675		2,3,7,8-TCDD (DIOXIN)				.00003	UG/L
39400	X	TOXAPHENE				3	UG/L

VOLATILE ORGANIC ANALYSES

System Name: _____

This page to be completed by the laboratory performing analysis.

PWS ID: _____

Lab Sample ID: _____

Storet Code		Parameter	SDWA Method	MDL	Results	MCL	Units
34030	X	BENZENE				5	UG/L
81555	X	BROMOBENZENE					UG/L
32101	X	BROMODICHLOROMETHANE				80	UG/L
32104	X	BROMOFORM				80	UG/L
34413	X	BROMOMETHANE					UG/L
32102	X	CARBON TETRACHLORIDE				5	UG/L
34311	X	CHLOROETHANE					UG/L
32106	X	CHLOROFORM				80	UG/L
34418	X	CHLOROMETHANE					UG/L
77275	X	O-CHLOROTOLUENE					UG/L
77277	X	P-CHLOROTOLUENE					UG/L
32105	X	DIBROMOCHLOROMETHANE				80	UG/L
77596	X	DIBROMOMETHANE					UG/L
34566	X	1,3-DICHLOROBENZENE (M-)					UG/L
34536	X	1,2-DICHLOROBENZENE (O-)				600	UG/L
34571	X	1,4-DICHLOROBENZENE (P-)				75	UG/L
34668	X	DICHLORODIFLUOROMETHANE					UG/L
34496	X	1,1-DICHLOROETHANE					UG/L
34531	X	1,2-DICHLOROETHANE				5	UG/L
34501	X	1,1-DICHLOROETHYLENE				7	UG/L
77093	X	1,2-DICHLOROETHYLENE CIS				70	UG/L
34546	X	1,2-DICHLOROETHYLENE, TRA				100	UG/L
34423	X	DICHLOROMETHANE				5	UG/L
34541	X	1,2-DICHLOROPROPANE				5	UG/L
77173	X	1,3-DICHLOROPROPANE					UG/L
77170	X	2,2-DICHLOROPROPANE					UG/L
77168	X	1,1-DICHLOROPROPENE					UG/L
34561	X	1,3-DICHLOROPROPENE					UG/L
34371	X	ETHYL BENZENE				700	UG/L
81688		ETHYLENE GYLCOL					
71880		FORMALDEHYDE					
34391	X	HEXACHLOROBUTADIENE					UG/L
77223	X	ISOPROPYLBENZENE					UG/L
77356	X	ISOPROPYLTOLUENE P					UG/L
77885		METHANOL					
78032	X	METHYL T-BUTYL ETHER					UG/L
34301	X	CHLOROBENZENE				100	UG/L
34696	X	NAPHTHALENE					UG/L
77128	X	STYRENE				100	UG/L
77562	X	1,1,1,2 TETRACHLOROETHANE					UG/L
34516	X	1,1,2,2 TETRACHLOROETHANE					UG/L
34475	X	TETRACHLOROETHYLENE				5	UG/L
34010	X	TOLUENE				1000	UG/L
34551	X	1,2,4-TRICHLOROBENZENE				70	UG/L
34506	X	1,1,1-TRICHLOROETHANE				200	UG/L
34511	X	1,1,2-TRICHLOROETHANE				5	UG/L
39180	X	TRICHLOROETHYLENE				5	UG/L
34488		TRICHLOROFLUOROMETHANE					UG/L
77443	X	1,2,3-TRICHLOROPROPANE					UG/L
81611		TRICHLOROTRIFLUOROETHANE					UG/L
77222	X	1,2,4-TRIMETHYLBENZENE					UG/L
77226	X	1,3,5-TRIMETHYLBENZENE					UG/L
39175	X	VINYL CHLORIDE				0.2	UG/L
79724	X	XYLENE TOTAL				10000	UG/L
77038		PROPYLENE GLYCOL					UG/L
98965		1,3-PROPANEDIOL					MG/L

PER/POLY-FLUOROALKYL ANALYSES System Name: _____

To be completed by the laboratory performing analysis. PWS ID: _____ Lab Sample ID: _____

Storet Code		Parameter	Abbrev.	SDWA Method	MDL	Results	MCL	Units
97433	X	11-CHLOROEICOSAFLUORO-3-OXAUNDECANE-1-SULFONIC ACI	11CL-PF3OUDS					NG/L
97434	X	4,8-DIOXA-3H-PERFLUORONONANOIC ACID	DONA					NG/L
97415		4:2 FLUOROTELOMER SULFONIC ACID	4:2 FTSA					NG/L
97414		6:2 FLUOROTELOMER SULFONIC ACID	6:2 FTSA					NG/L
97413		8:2 FLUOROTELOMER SULFONIC ACID	8:2 FTSA					NG/L
97432	X	9-CHLOROHEXADECAFLUORO-3-OXANONANE-1-SULFONIC ACID	9CL-PF3ONS					NG/L
97435	X	HEXAFLUOROPROPYLENE OXIDE DIMER ACID	HFPO-DA					NG/L
97420		N-ETHYL PERFLUOROOCTANESULFONAMIDE	N-EtFOSA					NG/L
97436	X	N-ETHYL PERFLUOROOCTANESULFONAMIDO-ACETIC ACID	N-EtFOSAA					NG/L
97416		N-ETHYL PERFLUOROOCTANESULFONAMIDO-ETHANOL	N-EtFOSE					NG/L
97421		N-METHYL PERFLUOROOCTANESULFONAMIDE	N-MeFOSA					NG/L
97437	X	N-METHYL PERFLUOROOCTANESULFONAMIDO-ACETIC ACID	N-MeFOSAA					NG/L
97417		N-METHYL PERFLUOROOCTANESULFONAMIDO-ETHANOL	N-MeFOSE					NG/L
97423		PERFLUORODODECANESULFONIC ACID	PFDoS					NG/L
99987	X	PERFLUORO-N-BUTANESULFONIC ACID	PFBS					NG/L
99991		PERFLUORO-N-BUTANOIC ACID	PFBA					NG/L
99990		PERFLUORO-N-DECANESULFONIC ACID	PFDS					NG/L
99996	X	PERFLUORO-N-DECANOIC ACID	PFDA					NG/L
99998	X	PERFLUORO-N-DODECANOIC ACID	PFDoA					NG/L
99989		PERFLUORO-N-HEPTANESULFONIC ACID	PFHpS					NG/L
99994	X	PERFLUORO-N-HEPTANOIC ACID	PFHpA					NG/L
99988	X	PERFLUORO-N-HEXANESULFONIC ACID	PFHxS					NG/L
99993	X	PERFLUORO-N-HEXANOIC ACID	PFHxA					NG/L
99995	X	PERFLUORO-N-NONANOIC ACID	PFNA					NG/L
99598	X	PERFLUORO-N-OCTANESULFONIC ACID	PFOS					NG/L
99597	X	PERFLUORO-N-OCTANOIC ACID	PFOA					NG/L
97424		PERFLUORONONANESULFONIC ACID	PFNS					NG/L
99992		PERFLUORO-N-PENTANOIC ACID	PFPeA					NG/L
99924	X	PERFLUORO-N-TETRADECANOIC ACID	PFTeDA					NG/L
99923	X	PERFLUORO-N-TRIDECANOIC ACID	PFTRiA					NG/L
99997	X	PERFLUORO-N-UNDECANOIC ACID	PFuNA					NG/L
97422		PERFLUOROOCTANESULFONAMIDE	FOSA					NG/L
97425		PERFLUOROPENTANESULFONIC ACID	PFPeS					NG/L

Approved By: QA Officer: _____ Date: _____

Laboratory Manager: _____ Date: _____

Comments: _____