

EPA ID#: 0311 System Name: City of Spearfish

Sampler- Mr Robert Glenn Work Phone-(605)642-1333
 Title- Env Services Manager
 Address- 625 N 5th Street
 Spearfish SD 57783

Location- City: Spearfish County: Lawrence
 Service Area- Municipality
 PWS Owner Type- Local Government
 Water Supply Type- Groundwater Supply

Population Served- 10,697 Service Connections- 4,024

Sources for Spearfish

Source	Name	Year Built	Depth (feet)	Diameter (inches)	Availability	Type	Vulnerability	Treatment
03	TREAT SITE - DICKEY				Permanent	Treatment Plant	Non-Vulnerable	Aeration Disinfection - Gas Chlorine Fluoridation - H2SiF6
04	TREAT SITE - ELLINGSON				Permanent	Treatment Plant	Non-Vulnerable	Aeration Disinfection - Gas Chlorine Fluoridation - H2SiF6
06	TREAT SITE - VIGNA				Permanent	Treatment Plant	Non-Vulnerable	Aeration Disinfection - Gas Chlorine Fluoridation - H2SiF6
08	TREAT SITE - KYTE				Permanent	Treatment Plant	Non-Vulnerable	Aeration Disinfection - Gas Chlorine Fluoridation - H2SiF6
09	TREAT SITE - COLLEGE				Emergency	Treatment Plant	Non-Vulnerable	Aeration Disinfection - Gas Chlorine Fluoridation - H2SiF6
10	TREAT SITE - NEVIN				Permanent	Treatment Plant	Non-Vulnerable	Aeration Disinfection - Gas Chlorine Fluoridation - H2SiF6
16	DICKEY	1961	880	17	Permanent	Groundwater	Vulnerable	Treatment At Plant
17	ELLINGSON	1974	750	10	Permanent	Groundwater	Vulnerable	Treatment At Plant
18	VIGNA	1981	863	10	Permanent	Groundwater	Vulnerable	Treatment At Plant
19	KYTE	1988	1295	10	Permanent	Groundwater	Vulnerable	Treatment At Plant
20	COLLEGE	1988	727	10	Emergency	Groundwater	Vulnerable	Treatment At Plant
21	NEVIN	1993	842	15	Permanent	Groundwater	Non-Vulnerable	Treatment At Plant
22	YOUNG	2010	1400	15	Permanent	Groundwater	Non-Vulnerable	Treatment At Plant
23	TREAT SITE - YOUNG				Permanent	Treatment Plant	Non-Vulnerable	Aeration Disinfection - Gas Chlorine Fluoridation - H2SiF6

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Common Ion Data

(All chemical data are reported in milligrams per liter (mg/l) except pH and Langlier Index)

Please refer to Private Well Data for more information about these test results.

Source	Type	Date	TDS	Conductance	pH	Alk-M	Alk-P	Na	K	Ca	Mg	Fe	Mn	Cl	SO4	HCO3	CO3	Hardness	Langlier	NO3	F
03	Raw	06/22/93	212	450	7.74	231	0	2	1.0	56.0	22.0	0.03	0.03	1.0	7	282	0	231	+0.42	0.2	0.21
04	Raw	05/20/91	228	405	7.77	211	0	2	1.0	43.0	20.0	0.05	0.03	2.0	6	258	0	190	-0.07	0.1	0.26
06	Raw	03/12/85	190	330	7.94	160	0	5	3.9	40.5	22.0	0.10	0.05	1.0	27	195	0	193	-0.02	0.1	0.66
08	Raw	04/05/89	216	440	7.49	254	0	1	1.0	60.0	27.0	0.83	0.08	3.0	12	310	0	261	-0.11	0.1	0.24
03	Raw	03/07/96	240	375	7.65	209	0	4	1.1	51.9	24.7	0.11	0.02	3.4	17	255	0	231	+0.20	0.3	0.82
10	Raw	04/08/02	199	392	8.04	196	0	4	0.8	37.8	20.7	0.05	0.05	3.0	10	239	0	180	+0.40	0.2	0.24
20	Raw	10/19/04	237	442	7.67	224	0	4	1.0	46.0	24.9	0.05	0.01	2.5	10	273	0	217	+0.18	0.2	0.27
16	Raw	10/19/04	232	453	7.81	224	0	3	1.0	47.4	24.5	0.17	0.01	3.0	10	274	0	219	+0.33	0.1	2.97
17	Raw	10/19/04	238	425	7.76	206	0	5	0.9	44.4	23.3	0.05	0.01	4.3	11	251	0	207	+0.22	0.5	1.07
21	Raw	10/19/04	226	427	7.87	211	0	5	0.9	43.9	23.4	0.05	0.01	3.5	10	257	0	206	+0.33	0.5	0.95
18	Raw	10/19/04	208	341	7.24	117	0	3	1.4	35.1	15.9	0.06	0.01	1.8	19	142	0	153	-0.65	0.5	11.90
22	Raw	10/20/10	216	398	7.79	197	0	4	1.1	64.6	29.5	0.18	0.05	3.0	12	240	0	283	+0.42	0.2	0.30
Averages			220	407	7.73	203	0	3	1.3	47.6	23.2	0.14	0.03	2.6	13	248	0	214		0.3	1.66

Source	Type	Date	TDS	Conductance	pH	Alk-M	Alk-P	Na	K	Ca	Mg	Fe	Mn	Cl	SO4	HCO3	CO3	Hardness	Langlier	NO3	F
04	Treated	06/22/93	222	400	7.67	210	0	2	1.0	53.0	21.0	0.05	0.03	1.0	15	256	0	219	+0.23	0.2	0.22
09	Treated	06/22/93	236	440	7.56	238	0	3	1.0	59.0	23.0	0.05	0.03	1.0	5	290	0	242	+0.22	0.1	0.33
04	Treated	03/07/96	237	375	7.44	197	0	4	1.0	51.8	24.9	0.08	0.11	3.3	17	240	0	232	-0.03	0.4	5.08
03	Treated	05/20/99	244	436	7.74	206	0	5	1.0	50.5	23.2	0.09	0.02	3.3	15	251	0	222	+0.27	0.3	1.26
04	Treated	05/20/99	242	429	7.64	196	0	5	0.9	49.8	23.3	0.02	0.02	4.1	15	239	0	220	+0.14	0.3	2.79
09	Treated	05/20/99	200	425	7.69	202	0	1	4.5	48.6	23.1	0.02	0.02	3.2	17	246	0	216	+0.21	0.5	0.85
10	Treated	05/20/99	242	583	7.73	202	0	5	1.0	48.5	22.8	0.04	0.02	3.5	16	246	0	215	+0.24	0.3	0.85
09	Treated	04/08/02	218	419	7.83	205	0	4	0.8	40.6	22.0	0.05	0.05	4.0	10	250	0	192	+0.20	0.6	1.47
03	Treated	04/08/02	228	436	7.78	222	0	3	0.8	44.2	22.8	0.05	0.05	3.5	10	271	0	204	+0.30	0.5	1.88
06	Treated	04/08/02	177	331	7.87	141	0	3	1.3	33.9	14.2	0.05	0.05	2.5	22	172	0	143	+0.00	0.1	0.79
04	Treated	04/08/02	202	417	7.91	205	0	5	0.7	40.4	18.7	0.05	0.05	5.0	10	251	0	178	+0.30	0.5	0.23
09	Treated	11/07/13	238	463	7.70	225	0	4	1.2	58.7	24.0	0.27	0.00	1.0	0	275	0	245	+0.32	0.2	6.72
03	Treated	11/07/13	222	442	7.78	214	0	5	1.1	55.2	22.9	0.00	0.00	4.5	11	261	0	232	+0.35	0.0	1.18
04	Treated	11/07/13	228	442	7.79	203	0	5	1.0	55.6	22.2	0.14	0.00	5.4	13	237	0	230	+0.34	0.0	4.70
10	Treated	11/07/13	92	438	7.92	215	0	5	1.1	54.4	22.8	0.00	0.00	4.4	11	262	0	230	+0.49	0.0	0.87
06	Treated	11/07/13	196	343	8.39	131	0	4	1.7	46.5	13.5	0.15	0.00	8.4	32	160	0	171	+0.67	0.1	2.24

Date Of This Report: August 29, 2017

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23	Treated	11/07/13	195	378	7.76	174	0	3	1.0	43.0	20.9	0.00	0.00	2.3	0	212	0	193	+0.13	0.0	7.68
Averages			213	423	7.78	199	0	4	1.2	49.0	21.5	0.07	0.03	3.6	13	242	0	211		0.2	2.30