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Well Basic Details

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State Well Number	4161401
County	San Saba
River Basin	Colorado
Groundwater Management Area	7
Regional Water Planning Area	K - Lower Colorado
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	31.052
Latitude (degrees minutes seconds)	31° 03' 07.2" N
Longitude (decimal degrees)	-98.4858611
Longitude (degrees minutes seconds)	098° 29' 09.1" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	367GRMN - Gorman Formation
Aquifer	Ellenburger-San Saba
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	1141
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	
Well Depth Source	
Drilling Start Date	
Drilling End Date	
Drilling Method	
Borehole Completion	

Well Type	Spring
Well Use	Recreation
Water Level Observation	None
Water Quality Available	Yes
Pump	None
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	TPWD Gorman Spring
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	310309098291001
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	Gorman Springs
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	5/25/2005
Last Update Date	4/23/2024

Remarks Estimated flow 3411 GPM in 1989. The following flows estimated at south concrete crossing of Gorman Creek: 3960 GPM on June 29,1993, and 2770 GPM on July 22,1993. Spring 370 in SBWE 243. Measured flow 900 GPM in 1938.

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 10/29/1938 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Other Federal Agencies

Sampled Aquifer: Gorman Formation

Analyzed Lab: University of Texas

Reliability: From a report; unknown sample collection & preservation

Collection Remarks: from M-243

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		366	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		9	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)	<	20	mg/L as NO3	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		5.99		
00945	SULFATE, TOTAL (MG/L AS SO4)		7	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		327	mg/L	

Water Quality Analysis

Sample Date: 7/12/1989 **Sample Time:** 1200 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Gorman Formation

Analyzed Lab: Texas Department of Health

Reliability: Sampled using TWDB protocols

Collection Remarks: spring pool.

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
39086	ALKALINITY FIELD DISSOLVED AS CaCO3		336	mg/L as CaCO 3	
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)		386	mg/L as CaCO 3	
01503	ALPHA, DISSOLVED (PC/L)	<	2	PC/L	
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	<	20	ug/L	
01000	ARSENIC, DISSOLVED (UG/L AS AS)	<	10	ug/L	
01005	BARIUM, DISSOLVED (UG/L AS BA)		60	ug/L	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		471.05	mg/L	
01020	BORON, DISSOLVED (UG/L AS B)		60	ug/L	
00915	CALCIUM, DISSOLVED (MG/L AS CA)		114	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00941	CHLORIDE, DISSOLVED (MG/L AS CL)		9	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)	<	0.1	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO3)		391	mg/L as CaCO 3	
01046	IRON, DISSOLVED (UG/L AS FE)	<	20	ug/L	
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)		26	mg/L	
01056	MANGANESE, DISSOLVED (UG/L AS MN)	<	20	ug/L	
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)		1.16	mg/L as N	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		5.14	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		6.44	SU	
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)		0.02	mg/L as P	
00935	POTASSIUM, DISSOLVED (MG/L AS K)		1.9	mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0		
00955	SILICA, DISSOLVED (MG/L AS SiO2)		13	mg/L as SiO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		0.14		
00932	SODIUM, CALCULATED, PERCENT		3	PCT	
00930	SODIUM, DISSOLVED (MG/L AS NA)		6.2	mg/L	

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Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		730	MICR	
00946	SULFATE, DISSOLVED (MG/L AS SO4)		7	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		22	C	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		413	mg/L	
01090	ZINC, DISSOLVED (UG/L AS ZN)		20	ug/L	

Water Quality Analysis

Sample Date: 10/16/1996
Sample Time: 1530
Sample Number: 1
Collection Entity: Texas Water Development Board

Sampled Aquifer: Gorman Formation

Analyzed Lab: LCRA - Lower Colorado River Authority

Reliability: Sampled using TWDB protocols

Collection Remarks: balanced using field alk.

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
39086	ALKALINITY FIELD DISSOLVED AS CaCO3		382	mg/L as CaCO3	
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)		382	mg/L as CaCO3	
01503	ALPHA, DISSOLVED (PC/L)		4	PC/L	
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	<	15	ug/L	
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	<	1	ug/L	
01000	ARSENIC, DISSOLVED (UG/L AS AS)	<	5	ug/L	
01005	BARIUM, DISSOLVED (UG/L AS BA)		66	ug/L	
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	<	1	ug/L	
03503	BETA, DISSOLVED (PC/L)	<	3	PC/L	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		466.17	mg/L	
01020	BORON, DISSOLVED (UG/L AS B)	<	50	ug/L	
71870	BROMIDE, DISSOLVED, (MG/L AS BR)		0.06	mg/L	
00915	CALCIUM, DISSOLVED (MG/L AS CA)		120	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00941	CHLORIDE, DISSOLVED (MG/L AS CL)		8.6	mg/L	
01035	COBALT, DISSOLVED (UG/L AS CO)	<	1	ug/L	
01040	COPPER, DISSOLVED (UG/L AS CU)	<	2	ug/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		0.09	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO3)		418	mg/L as CaCO3	
01046	IRON, DISSOLVED (UG/L AS FE)	<	16.5	ug/L	
01049	LEAD, DISSOLVED (UG/L AS PB)	<	1	ug/L	
01130	LITHIUM, DISSOLVED (UG/L AS LI)	<	3.5	ug/L	
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)		28.9	mg/L	
01056	MANGANESE, DISSOLVED (UG/L AS MN)	<	1	ug/L	
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	<	1	ug/L	
01065	NICKEL, DISSOLVED (UG/L AS NI)		26	ug/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		4.76	mg/L as NO3	
00631	NITRITE PLUS NITRATE, DISSOLVED (MG/L AS N)		1.074	mg/L as N	

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Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)		<	0.1 mg/L as N	
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)			0.1 mg/L as N	
00090	OXIDATION REDUCTION POTENTIAL (ORP), MILLIVOLTS			61.5 MV	
00400	PH (STANDARD UNITS), FIELD			6.71 SU	
00935	POTASSIUM, DISSOLVED (MG/L AS K)		<	1.5 mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED			0	
01145	SELENIUM, DISSOLVED (UG/L AS SE)		<	5 ug/L	
00955	SILICA, DISSOLVED (MG/L AS SI02)			15.6 mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)			0.11	
00932	SODIUM, CALCULATED, PERCENT			2 PCT	
00930	SODIUM, DISSOLVED (MG/L AS NA)			5.2 mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)			718 MICR	
01080	STRONTIUM, DISSOLVED (UG/L AS SR)			92 ug/L	
00946	SULFATE, DISSOLVED (MG/L AS SO4)			6.4 mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)			22 C	
01057	THALLIUM, DISSOLVED (UG/L AS TL)		<	1 ug/L	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)			420 mg/L	
01085	VANADIUM, DISSOLVED (UG/L AS V)			2.7 ug/L	
01090	ZINC, DISSOLVED (UG/L AS ZN)			150 ug/L	

Water Quality Analysis

Sample Date: 5/25/2005 **Sample Time:** 1145 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Gorman Formation

Analyzed Lab: LCRA - Lower Colorado River Authority

Reliability: Sampled using TWDB protocols

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
39086	ALKALINITY FIELD DISSOLVED AS CaCO3		366	mg/L as CaCO3	
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)		383	mg/L as CaCO3	
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	<	4.08	ug/L	
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	<	1.02	ug/L	
01000	ARSENIC, DISSOLVED (UG/L AS AS)	<	2.04	ug/L	
01005	BARIUM, DISSOLVED (UG/L AS BA)		61.2	ug/L	
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	<	1.02	ug/L	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		467.39	mg/L	
01020	BORON, DISSOLVED (UG/L AS B)	<	51	ug/L	
71870	BROMIDE, DISSOLVED, (MG/L AS BR)		0.059	mg/L	
01025	CADMIUM, DISSOLVED (UG/L AS CD)	<	1.02	ug/L	
00915	CALCIUM, DISSOLVED (MG/L AS CA)		113	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00941	CHLORIDE, DISSOLVED (MG/L AS CL)		7.28	mg/L	
01030	CHROMIUM, DISSOLVED (UG/L AS CR)		4.53	ug/L	
01035	COBALT, DISSOLVED (UG/L AS CO)	<	1.02	ug/L	
01040	COPPER, DISSOLVED (UG/L AS CU)		4.58	ug/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		0.11	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO3)		389	mg/L as CaCO3	
01046	IRON, DISSOLVED (UG/L AS FE)	<	51	ug/L	
01049	LEAD, DISSOLVED (UG/L AS PB)	<	1.02	ug/L	
01130	LITHIUM, DISSOLVED (UG/L AS LI)	<	2.04	ug/L	
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)		25.8	mg/L	
01056	MANGANESE, DISSOLVED (UG/L AS MN)	<	1.02	ug/L	
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	<	1.02	ug/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		4.67	mg/L as NO3	
00631	NITRITE PLUS NITRATE, DISSOLVED (MG/L AS N)		1.055	mg/L as N	
00400	PH (STANDARD UNITS), FIELD		6.82	SU	

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Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00935	POTASSIUM, DISSOLVED (MG/L AS K)		1.13	mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0		
01145	SELENIUM, DISSOLVED (UG/L AS SE)	<	4.08	ug/L	
00955	SILICA, DISSOLVED (MG/L AS SI02)		15	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		0.1		
00932	SODIUM, CALCULATED, PERCENT		3	PCT	
00930	SODIUM, DISSOLVED (MG/L AS NA)		4.64	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		743	MICR	
01080	STRONTIUM, DISSOLVED (UG/L AS SR)		95.3	ug/L	
00946	SULFATE, DISSOLVED (MG/L AS SO4)		6.6	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		22.1	C	
01057	THALLIUM, DISSOLVED (UG/L AS TL)	<	1.02	ug/L	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		408	mg/L	
01085	VANADIUM, DISSOLVED (UG/L AS V)		3.55	ug/L	
01090	ZINC, DISSOLVED (UG/L AS ZN)		28.3	ug/L	

Water Quality Analysis

Sample Date: 4/13/2006 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Other or Identity Unknown

Sampled Aquifer: Gorman Formation

Analyzed Lab: Energy Labs Inc.

Reliability: Reliability unknown or not available

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
28004	CARBON-14 DISS APPARENT AGE (YEARS BP)		1370	Y-BP	40
82172	CARBON-14 FRACTION MODERN		0.8428		0.0042
82081	DELTA CARBON 13 C13/C12 PER MIL		-8.5	0/00	
50791	DEUTERIUM, EXPRESSED AS PERMIL VSMOW		-26	0/00	1
50790	OXYGEN-18, EXPRESSED AS PERMIL VSMOW		-4.6	0/00	0.3
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0		
01080	STRONTIUM, DISSOLVED (UG/L AS SR)		96.6	ug/L	
48297	STRONTIUM, ISOTOPE OF MASS 86 AND 87 RATIO		0.709851	N/A	
07012	TRITIUM IN WATER (TRITIUM UNITS)		1.92	TU	0.09

Water Quality Analysis

Sample Date: 10/20/2008 **Sample Time:** 1605 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Gorman Formation

Analyzed Lab: LCRA - Lower Colorado River Authority

Reliability: Sampled using TWDB protocols

Collection Remarks: pool at spring head

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
39086	ALKALINITY FIELD DISSOLVED AS CaCO3		372	mg/L as CaCO3	
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	<	0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)		378	mg/L as CaCO3	
01503	ALPHA, DISSOLVED (PC/L)		3.8	PC/L	2.2
01106	ALUMINUM, DISSOLVED (UG/L AS AL)		11	ug/L	
50938	ANION/CATION CHG BAL, PERCENT		1.55	PCT	
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	<	1.02	ug/L	
01000	ARSENIC, DISSOLVED (UG/L AS AS)	<	2.04	ug/L	
01005	BARIUM, DISSOLVED (UG/L AS BA)		59.1	ug/L	
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	<	1.02	ug/L	
03503	BETA, DISSOLVED (PC/L)		4	PC/L	1.3
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		461.29	mg/L	
01020	BORON, DISSOLVED (UG/L AS B)	<	51	ug/L	
71870	BROMIDE, DISSOLVED, (MG/L AS BR)		0.03	mg/L	
01025	CADMIUM, DISSOLVED (UG/L AS CD)	<	1.02	ug/L	
00915	CALCIUM, DISSOLVED (MG/L AS CA)		113	mg/L	
28004	CARBON-14 DISS APPARENT AGE (YEARS BP)		19410	Y-BP	100
82172	CARBON-14 FRACTION MODERN		0.0892		0.0011
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00941	CHLORIDE, DISSOLVED (MG/L AS CL)		7.4	mg/L	
01030	CHROMIUM, DISSOLVED (UG/L AS CR)		5.54	ug/L	
01035	COBALT, DISSOLVED (UG/L AS CO)	<	1.02	ug/L	
01040	COPPER, DISSOLVED (UG/L AS CU)	<	1.02	ug/L	
82081	DELTA CARBON 13 C13/C12 PER MIL		-6.7	0/00	
50791	DEUTERIUM, EXPRESSED AS PERMIL VSMOW		-28.6	0/00	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		0.12	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO3)		396	mg/L as CaCO3	
71865	IODIDE (MG/L AS I)	<	0.2	mg/L	
01046	IRON, DISSOLVED (UG/L AS FE)		1190	ug/L	
01049	LEAD, DISSOLVED (UG/L AS PB)	<	1.02	ug/L	
01130	LITHIUM, DISSOLVED (UG/L AS LI)		2.14	ug/L	

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00925	MAGNESIUM, DISSOLVED (MG/L AS MG)		27.7	mg/L	
01056	MANGANESE, DISSOLVED (UG/L AS MN)		2.42	ug/L	
71890	MERCURY, DISSOLVED (UG/L AS HG)	<	0.2	ug/L	
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	<	1.02	ug/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		3.35	mg/L as NO3	
00631	NITRITE PLUS NITRATE, DISSOLVED (MG/L AS N)		0.757	mg/L as N	
50790	OXYGEN-18, EXPRESSED AS PERMIL VSMOW		-4.76	0/00	
00400	PH (STANDARD UNITS), FIELD		6.92	SU	
00935	POTASSIUM, DISSOLVED (MG/L AS K)		1.11	mg/L	
09511	RADIUM 226, DISSOLVED, RADON METHOD, PC/L		0.6	PC/L	0.1
81366	RADIUM 228, DISSOLVED (PC/L AS RA-228)	<	0.1	PC/L	0.1
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0		
01145	SELENIUM, DISSOLVED (UG/L AS SE)	<	4.08	ug/L	
00955	SILICA, DISSOLVED (MG/L AS SI02)		13.7	mg/L as SIO2	
01075	SILVER, DISSOLVED (UG/L AS AG)	<	1.02	ug/L	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		0.1		
00932	SODIUM, CALCULATED, PERCENT		3	PCT	
00930	SODIUM, DISSOLVED (MG/L AS NA)		4.95	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		765	MICR	
01080	STRONTIUM, DISSOLVED (UG/L AS SR)		97	ug/L	
48297	STRONTIUM, ISOTOPE OF MASS 86 AND 87 RATIO		0.709959	N/A	
00946	SULFATE, DISSOLVED (MG/L AS SO4)		6.5	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		22	C	
01057	THALLIUM, DISSOLVED (UG/L AS TL)	<	1.02	ug/L	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		405	mg/L	
07012	TRITIUM IN WATER (TRITIUM UNITS)		1.77	TU	0.09
22610	URANIUM 234, DISSOLVED, PC/L		0.4	PC/L	0.4
22620	URANIUM 235, DISSOLVED, PC/L		0.06	PC/L	0.2
22603	URANIUM 238, DISSOLVED, PC/L		0.3	PC/L	0.3
22703	URANIUM, NATURAL, DISSOLVED (UG/L AS U)	<	1.02	ug/L	
01085	VANADIUM, DISSOLVED (UG/L AS V)		4.1	ug/L	
01090	ZINC, DISSOLVED (UG/L AS ZN)		9.06	ug/L	

Water Quality Analysis

Sample Date: 6/30/2020 **Sample Time:** 1415 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Gorman Formation

Analyzed Lab: LCRA - Lower Colorado River Authority

Reliability: Sampled using TWDB protocols

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00425	ALKALINITY, BICARBONATE DISSOLVED (MG/L), LAB		385	mg/L	
00430	ALKALINITY, CARBONATE DISSOLVED (MG/L), LAB		0	mg/L	
00420	ALKALINITY, HYDROXIDE DISSOLVED (MG/L), LAB		0	mg/L	
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)		385	mg/L as CaCO 3	
01503	ALPHA, DISSOLVED (PC/L)		3.47	PC/L	2.35
01106	ALUMINUM, DISSOLVED (UG/L AS AL)		6.38	ug/L	
50938	ANION/CATION CHG BAL, PERCENT		1.43	PCT	
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	<	1	ug/L	
01000	ARSENIC, DISSOLVED (UG/L AS AS)	<	1	ug/L	
01005	BARIUM, DISSOLVED (UG/L AS BA)		59.8	ug/L	
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	<	1	ug/L	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		469.833	mg/L	
01020	BORON, DISSOLVED (UG/L AS B)	<	50	ug/L	
71870	BROMIDE, DISSOLVED, (MG/L AS BR)		0.049	mg/L	
01025	CADMIUM, DISSOLVED (UG/L AS CD)	<	1	ug/L	
00915	CALCIUM, DISSOLVED (MG/L AS CA)		118	mg/L	
28004	CARBON-14 DISS APPARENT AGE (YEARS BP)		990	Y-BP	
82172	CARBON-14 FRACTION MODERN		0.8844		0.0032
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00941	CHLORIDE, DISSOLVED (MG/L AS CL)		8.03	mg/L	
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	<	1	ug/L	
01035	COBALT, DISSOLVED (UG/L AS CO)	<	1	ug/L	
01040	COPPER, DISSOLVED (UG/L AS CU)	<	1	ug/L	
82081	DELTA CARBON 13 C13/C12 PER MIL		-12	0/00	
50791	DEUTERIUM, EXPRESSED AS PERMIL VSMOW		-27.59	0/00	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		0.0594	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO3)		408.078	mg/L as CaCO 3	
01046	IRON, DISSOLVED (UG/L AS FE)	<	50	ug/L	
01049	LEAD, DISSOLVED (UG/L AS PB)	<	1	ug/L	
01130	LITHIUM, DISSOLVED (UG/L AS LI)	<	2	ug/L	
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)		27.5	mg/L	

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Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
01056	MANGANESE, DISSOLVED (UG/L AS MN)	<	1	ug/L	
71890	MERCURY, DISSOLVED (UG/L AS HG)	<	0.2	ug/L	
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	<	1	ug/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		4.405	mg/L as NO3	
00631	NITRITE PLUS NITRATE, DISSOLVED (MG/L AS N)		0.995	mg/L as N	
50790	OXYGEN-18, EXPRESSED AS PERMIL VSMOW		-4.8	0/00	
00400	PH (STANDARD UNITS), FIELD		6.96	SU	
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	<	0.02	mg/L as P	
00935	POTASSIUM, DISSOLVED (MG/L AS K)		1.14	mg/L	
09503	RADIUM 226, DISSOLVED, PC/L	<	1	PC/L	0.12
81366	RADIUM 228, DISSOLVED (PC/L AS RA-228)	<	1	PC/L	0.49
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0		
01145	SELENIUM, DISSOLVED (UG/L AS SE)	<	5	ug/L	
00955	SILICA, DISSOLVED (MG/L AS SI02)		13.1	mg/L as SIO2	
01075	SILVER, DISSOLVED (UG/L AS AG)	<	1	ug/L	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		0.109		
00932	SODIUM, CALCULATED, PERCENT		2.629	PCT	
00930	SODIUM, DISSOLVED (MG/L AS NA)		5.06	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		540	MICR	
01080	STRONTIUM, DISSOLVED (UG/L AS SR)		97.8	ug/L	
48297	STRONTIUM, ISOTOPE OF MASS 86 AND 87 RATIO		0.7099484	N/A	
00946	SULFATE, DISSOLVED (MG/L AS SO4)		7.99	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		21.8	C	
01057	THALLIUM, DISSOLVED (UG/L AS TL)	<	1	ug/L	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		416.399	mg/L	
07012	TRITIUM IN WATER (TRITIUM UNITS)		1.07	TU	0.09
22703	URANIUM, NATURAL, DISSOLVED (UG/L AS U)	<	1	ug/L	
01085	VANADIUM, DISSOLVED (UG/L AS V)		3.77	ug/L	
01090	ZINC, DISSOLVED (UG/L AS ZN)	<	5	ug/L	

Water Quality Analysis

Sample Date: 4/13/2021 **Sample Time:** 1221 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Gorman Formation

Analyzed Lab: LCRA - Lower Colorado River Authority

Reliability: Sampled using TWDB protocols

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00425	ALKALINITY, BICARBONATE DISSOLVED (MG/L), LAB		383	mg/L	
00430	ALKALINITY, CARBONATE DISSOLVED (MG/L), LAB		0	mg/L	
00420	ALKALINITY, HYDROXIDE DISSOLVED (MG/L), LAB		0	mg/L	
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CaCO ₃)		383	mg/L as CaCO ₃	
01503	ALPHA, DISSOLVED (PC/L)	<	3	PC/L	1.47
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	<	5	ug/L	
50938	ANION/CATION CHG BAL, PERCENT		1.41	PCT	
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	<	1	ug/L	
01000	ARSENIC, DISSOLVED (UG/L AS AS)	<	1	ug/L	
01005	BARIUM, DISSOLVED (UG/L AS BA)		65.2	ug/L	
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	<	1	ug/L	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO ₃)		467.393	mg/L	
01020	BORON, DISSOLVED (UG/L AS B)	<	50	ug/L	
71870	BROMIDE, DISSOLVED, (MG/L AS BR)		0.0454	mg/L	
01025	CADMIUM, DISSOLVED (UG/L AS CD)	<	1	ug/L	
00915	CALCIUM, DISSOLVED (MG/L AS CA)		115	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO ₃)		0	mg/L	
00941	CHLORIDE, DISSOLVED (MG/L AS CL)		6.95	mg/L	
01030	CHROMIUM, DISSOLVED (UG/L AS CR)		7.81	ug/L	
01035	COBALT, DISSOLVED (UG/L AS CO)	<	1	ug/L	
01040	COPPER, DISSOLVED (UG/L AS CU)	<	1	ug/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		0.079	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO ₃)		404.289	mg/L as CaCO ₃	
01046	IRON, DISSOLVED (UG/L AS FE)	<	50	ug/L	
01049	LEAD, DISSOLVED (UG/L AS PB)	<	1	ug/L	
01130	LITHIUM, DISSOLVED (UG/L AS LI)		2.1	ug/L	
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)		28.4	mg/L	
01056	MANGANESE, DISSOLVED (UG/L AS MN)	<	1	ug/L	
71890	MERCURY, DISSOLVED (UG/L AS HG)	<	0.2	ug/L	
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	<	1	ug/L	

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Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		4.471	mg/L as NO3	
00631	NITRITE PLUS NITRATE, DISSOLVED (MG/L AS N)		1.01	mg/L as N	
00400	PH (STANDARD UNITS), FIELD		6.79	SU	
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	<	0.02	mg/L as P	
00935	POTASSIUM, DISSOLVED (MG/L AS K)		1.05	mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0		
01145	SELENIUM, DISSOLVED (UG/L AS SE)	<	5	ug/L	
00955	SILICA, DISSOLVED (MG/L AS SI02)		12	mg/L as SIO2	
01075	SILVER, DISSOLVED (UG/L AS AG)	<	1	ug/L	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		0.107		
00932	SODIUM, CALCULATED, PERCENT		2.582	PCT	
00930	SODIUM, DISSOLVED (MG/L AS NA)		4.92	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		685	MICR	
01080	STRONTIUM, DISSOLVED (UG/L AS SR)		95.1	ug/L	
00946	SULFATE, DISSOLVED (MG/L AS SO4)		7.45	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		22.1	C	
01057	THALLIUM, DISSOLVED (UG/L AS TL)	<	1	ug/L	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		410.232	mg/L	
22703	URANIUM, NATURAL, DISSOLVED (UG/L AS U)	<	1	ug/L	
01085	VANADIUM, DISSOLVED (UG/L AS V)		3.93	ug/L	
01090	ZINC, DISSOLVED (UG/L AS ZN)	<	5	ug/L	

Water Quality Analysis

Sample Date: 4/8/2022
Sample Time: 1430
Sample Number: 1
Collection Entity: Texas Water Development Board

Sampled Aquifer: Gorman Formation

Analyzed Lab: TWDB Field Analysis

Reliability: Sampled using TWDB protocols

Collection Remarks: Baseline water quality parameters and atrazine only. Sampled from spring orifice.

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00400	PH (STANDARD UNITS), FIELD		7.07	SU	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		746	MICR	
00010	TEMPERATURE, WATER (CELSIUS)		22	C	

Water Quality Analysis

Sample Date: 4/12/2023
Sample Time: 1239
Sample Number: 1
Collection Entity: Texas Water Development Board

Sampled Aquifer: Gorman Formation

Analyzed Lab: TWDB Field Analysis

Reliability: Sampled using TWDB protocols

Collection Remarks: Baseline water quality parameters and atrazine only. Sampled from spring orifice.

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00400	PH (STANDARD UNITS), FIELD		6.9	SU	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		756	MICR	
00010	TEMPERATURE, WATER (CELSIUS)		22	C	

Water Quality Analysis

Sample Date: 3/27/2024 **Sample Time:** 1055 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Gorman Formation

Analyzed Lab: LCRA - Lower Colorado River Authority

Reliability: Sampled using TWDB protocols

Collection Remarks: Sampled from spring orifice using a peristaltic pump

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00425	ALKALINITY, BICARBONATE DISSOLVED (MG/L), LAB		391	mg/L	
00430	ALKALINITY, CARBONATE DISSOLVED (MG/L), LAB		0	mg/L	
00420	ALKALINITY, HYDROXIDE DISSOLVED (MG/L), LAB		0	mg/L	
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)		391	mg/L as CaCO 3	
01503	ALPHA, DISSOLVED (PC/L)	<	3	PC/L	1.2
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	<	5	ug/L	
50938	ANION/CATION CHG BAL, PERCENT		-0.42	PCT	
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	<	1	ug/L	
01000	ARSENIC, DISSOLVED (UG/L AS AS)	<	1	ug/L	
01005	BARIUM, DISSOLVED (UG/L AS BA)		60.3	ug/L	
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	<	1	ug/L	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		477.155	mg/L	
01020	BORON, DISSOLVED (UG/L AS B)	<	50	ug/L	
71870	BROMIDE, DISSOLVED, (MG/L AS BR)		0.0554	mg/L	
01025	CADMIUM, DISSOLVED (UG/L AS CD)	<	1	ug/L	
00915	CALCIUM, DISSOLVED (MG/L AS CA)		116	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00941	CHLORIDE, DISSOLVED (MG/L AS CL)		7.29	mg/L	
01030	CHROMIUM, DISSOLVED (UG/L AS CR)		9.17	ug/L	
01035	COBALT, DISSOLVED (UG/L AS CO)	<	1	ug/L	
01040	COPPER, DISSOLVED (UG/L AS CU)	<	1	ug/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		0.119	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO3)		400.208	mg/L as CaCO 3	
01046	IRON, DISSOLVED (UG/L AS FE)	<	50	ug/L	
01049	LEAD, DISSOLVED (UG/L AS PB)	<	1	ug/L	
01130	LITHIUM, DISSOLVED (UG/L AS LI)		2.09	ug/L	
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)		26.8	mg/L	
01056	MANGANESE, DISSOLVED (UG/L AS MN)	<	1	ug/L	
71890	MERCURY, DISSOLVED (UG/L AS HG)	<	0.2	ug/L	
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	<	1	ug/L	

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Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		5.091	mg/L as NO3	
00631	NITRITE PLUS NITRATE, DISSOLVED (MG/L AS N)		1.15	mg/L as N	
00400	PH (STANDARD UNITS), FIELD		6.85	SU	
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)		0.0236	mg/L as P	
00935	POTASSIUM, DISSOLVED (MG/L AS K)		1.16	mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0		
01145	SELENIUM, DISSOLVED (UG/L AS SE)	<	5	ug/L	
00955	SILICA, DISSOLVED (MG/L AS SI02)		12.7	mg/L as SIO2	
01075	SILVER, DISSOLVED (UG/L AS AG)	<	1	ug/L	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		0.102		
00932	SODIUM, CALCULATED, PERCENT		2.499	PCT	
00930	SODIUM, DISSOLVED (MG/L AS NA)		4.71	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		737	MICR	
01080	STRONTIUM, DISSOLVED (UG/L AS SR)		105	ug/L	
00946	SULFATE, DISSOLVED (MG/L AS SO4)		7.69	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		22	C	
01057	THALLIUM, DISSOLVED (UG/L AS TL)	<	1	ug/L	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		416.282	mg/L	
22703	URANIUM, NATURAL, DISSOLVED (UG/L AS U)	<	1	ug/L	
01085	VANADIUM, DISSOLVED (UG/L AS V)		5.13	ug/L	
01090	ZINC, DISSOLVED (UG/L AS ZN)	<	5	ug/L	

* Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..

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