

0082

### Document Information Form

Mine Number: C/007/007

File Name: Incoming

To: DOGM

From:

Person N/A

Company N/A

Date Sent: N/A

Explanation:

SUNNYSIDE NO. 5 SLEEP AND SPRING INVENTORY SPRING 1986.

cc:

File in:  
C/007, 007, Incoming

Refer to:

- Confidential
- Shelf
- Expandable

Date \_\_\_\_\_ For additional information

SUNNYSIDE NO.5 SEEP AND SPRING INVENTORY  
 SPRING 1986

PRELIMINARY

Site Number	Flow (gpm)	Temp. (°C)	pH (Units)	Specific Cond. <sup>(a)</sup>	Geology	Formation*	Use
S-1	3.8	7.0	7.7	1700	Where channel turns to bedrock.	PCRV	Deer, birds
S-2	Not Measurable	11.0	7.4	1275	Spring from colluvial material.	BCKK	Not evident
S-3	.5	5.0	8.0	425	At the base of first S.S. cliff.	CLTN	Birds, small mammals
S-4	<1.0	9.0	8.2	700	Slumped area near head of ridge.	CLTN	Birds, deer, other wildlife
S-5	<1.0	10.0	8.1	1270	Slump below sandstone layer.	NRHR	No evidence
S-6	2.2	7.0	7.6	1775	In channel at sandstone outcrop.	NRHR	Deer, bear other wildlife
S-7	4.0	7.0	7.7	1725	Colluvial material in channel.	PCRV	Wildlife probable
S-8	<1.0	8.0	7.6	1475	At base of steep gradient in channel. No outcrop evident.	PCRV	Not evident
S-9	<1.0	10.0	8.1	2000	Water issuing from sandstone ledge.	PCRV	Bear, other
S-10	4.0	10.0	7.2	2500	Spring occurs in alluvium.	MACS	Cattle, deer

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Refer to Record No 0082 Date \_\_\_\_\_

In C/ 007, 007, Incoming

For additional information

Site Number	Flow (gpm)	Temp. (°C)	pH (Units)	Specific Cond. <sup>(a)</sup>	Geology	Formation*	Use
S-11		(No Sample)			Outcrop sandstone/shale.	CLTN	Deer, cattle
S-12	<1.0	6.0	7.9	625	No outcrop, colluvium.	CLTN	Cattle, deer
S-13	<1.0	6.5	8.2	520	Colluvium, open grassy slope.	CLTN	Deer
S-14	<1.0	9.0	7.8	1100	At toe of small soil rotation block. Possible sandstone/siltstone contact.	NRHR	Deer
S-15	<1.0	(No Sample)			In dry streambed. Sandstone outcrop.	NRHR	Not evident
S-16	1.9	12.5	7.9	1350	Several small seeps along streambed.	NRHR	Deer
S-17	<1.0	10.0	7.6	1050	Toe of landslide. Landslide composed of shale.	NRHR	Birds, insects, coyote, deer
S-18	<1.0	15.0	8.2	1250	Shale from colluvium/alluvium below shale outcrop (North Horn Fm.)	NRHR	Deer, insects, small mammals
S-19	<1.0	6.5	7.8	1200	Small seep at toe of debris flow Sandstone/siltstone contact.	NRHR	No tracks
S-20	<1.0	15.0			Seep in channel flowing over sandstone outcrop.	BCKK	Insects

Site Number	Flow (gpm)	Temp. (°C)	pH (Units)	Specific Cond. <sup>(a)</sup>	Geology	Formation*	Use
S-21	Pool	14.5	7.5	2500	Stagnant pool, in channel gravels.	MACS	
S-22	3.2	10.0	8.2	2100	These springs are formed where the channel cuts through interbedded S.S. and shales.	PCRV	Deer, elk, birds, bear
S-23	2.5	18.0	8.4	2100	Spring is stratigraphically controlled infiltrating into the channel.	PCRV	Deer, elk, birds, bear
S-24	<1.0	7.0	8.0	850	Seeping from colluvium under sandstone outcrop.	CLTN	Minimal wildlife
S-25	<1.0				Small seep, probably issuing from same layer as KS-24.	CLTN	None
S-22	3.0	10.0	8.1	2100	Comes out near base of large sandstone layer.	PCRV	Deer, other wildlife
S-26	<1.0	6.0	7.5	2050	Water coming from colluvium. No evident outcrop.	PCRV	Possible wildlife
S-27	Pool	11.5	7.3	2100	Pool occurring within shale/siltstone layer.	PCRV	Deer
S-28	Pool	11.5	7.3	2050	Pool occurring below small coal lens 1 1/2 ft. thick.	PCRV	Deer
S-29	5.8	7.5	7.1	1800	Developed spring running into bathtub. Colluvium/sandstone contact.	NRHR	Deer, livestock

Site Number	Flow (gpm)	Temp. (°C)	pH (Units)	Specific Cond. <sup>(a)</sup>	Geology	Formation*	Use
S-30	6.3	8.0	7.3	1650	Developed spring occurring below sandstone outcrop, on sandstone/siltstone contact: Blue Castle Mbr.	NRHR	
S-31	7.5		8.3	1550	Small seep, running out of colluvium.	NRHR	Cattle, deer
S-32	<1.0	18.0	8.3	2200	Small seeps occurring at toe of sizeable rotation slide.	NRHR	Deer
S-33	<1.0	11.0	7.5	1600	Seep running from colluvium/over sandstone.	NRHR	Deer
S-34	4.6	11.0	8.1	1450	Seeping from interbedded SS and shales into channel from the North Horn Fm.	NRHR	Deer, small animals, birds
S-35	13.6	9.0	7.4	1375	Spring starts from a fracture in a sandstone outcrop. North Horn Fm.	NRHR	Deer, small animals, birds
S-36	<1.0	20.0	8.2	1500	Road cut through landslide (slump) in shales of North Horn Fm.	NRHR	Deer, mountain lion
S-37	<1.0	22.0	8.3	700	Stockpond formed by damming small drainage.	NRHR	Deer, cats, small animals
S-38	<1.0	15.0	7.6	975	Interbedded SS and shale.	PCRV	Birds, small animals
S-39	5.2	10.0	7.6	1075	Flowing out of colluvium. The colluvium covers suspected interbedded sandstones and shales.	PCRV	Deer, birds, small animals,

Site Number	Flow (gpm)	Temp. (°C)	pH (Units)	Specific Cond. (a)	Geology	Formation*	Use
S-40	3.9	8.0	7.4	1075	Flowing out of colluvium and alluvium probably interbedded SS and shale.	CSLG(?)	Deer, birds, small animals, cattle
S-41	<1.0	11.0	7.5	1100	Seep from alluvial/colluvium material in channel bottom.	MACS	None apparent
S-42	<1.0	9.0	7.4	1350	Seeps from toe of slide.	NRHR	Deer, birds
S-43	<1.0	22.0	8.2	250	Excavated pond at North Horn. (Probably surface runoff)	NRHR	Bear, other wildlife
S-44	<1.0	12.0	7.9	1250	Small seeps over top of shales and mudstone outcrop in channel.	NRHR/ PCRV	Wildlife
S-45	<1.0	7.0	7.9	675	Seep occurring in colluvium. No outcrop, but breakin slope.	CLTN	Deer, cattle
S-46	<1.0	7.0	7.7	625	Three seeps at top of colluvium rotation slide. Sandstone/siltstone contact.	CLTN	Deer
S-47	5.9	7.0	7.5	600	Top of colluvium rotation block sandstone/shale contact outcrop.	CLTN	Deer
S-48	<1.0	10.5	7.6	650	No outcrop. Seep at toe of slide.	CLTN	Deer
S-49	5.0	7.5	8.2	775	Head of debris flow seep within slide within Colton.	CLTN	Deer

Site Number	Flow (gpm)	Temp. (°C)	pH (Units)	Specific Cond. <sup>(a)</sup>	Geology	Formation*	Use
S-50	5.0	5.5	7.3	1275	Out of colluvium in drainage, no outcrop.	NRHR/ PCRVR	Cattle, deer
S-51	<1.0	6.0	7.5	1150	Toe of small slide. No outcrop.	NRHR	Deer, cattle
S-52	4.3	6.5	7.3	1150	Running out of colluvium. No outcrop.	CLTN/ NRHR	Deer, cattle
S-53	<1.0	9.0	7.7	1400	Four small seeps on north side of road at stream crossing.	NRHR/ PCRVR	Deer, livestock
S-54	4.5	7.0	7.8	1050	Channel cuts interbedded SS and shale outcrop. North Horn.	NRHR	Deer, bear, birds
S-55	<1.0	25.0	8.1	900	Roadcut through landslide in the North Horn Fm.	NRHR	None
S-43	<1.0	22.0	8.2	250	Stockpond formed by blocking drainage in North Horn shale.	NRHR	Bear, deer, birds
S-56	1.0	16.0	7.2	900	Developed spring small stocktank.	PCRVR	Cattle, deer, birds
S-57	17.4	6.0	7.2	1000	Interbedded SS and shale.	PCRVR	Bear, cat, deer, birds, cows
S-58	<1.0	15.0	8.2	950	Toe of landslide.	PCRVR	None

Site Number	Flow (gpm)	Temp. (°C)	pH (Units)	Specific Cond. (a)	Geology	Formation*	Use
S-59	1.3	18.0	8.3	950	Roadcut through landslide.	PCRV	Bear, cat, deer, birds, cows
S-60	2.5	7.0	7.5	950	Spring comes from colluvium/alluvium overlying SS-shale in the North Horn Fm.	NRHR	Bear, cats, deer, birds, cattle
S-61	2.0	7.0	8.0	1050	Spring comes from colluvium in the North Horn.	NRHR	Bear, birds, deer, cows
<del>S-41</del>	<del>5.0</del>	<del>11.0</del>	<del>7.5</del>	<del>1100</del>	<del>In colluvium.</del>	<del>MAGS</del>	<del>None</del>
S-62	24.0	7.0	7.5	1125	Water appears to be coming from old coal workings.	BCKK	None
S-63	<1.0				Coming from colluvial material, clayey.	NRHR	None
S-64	<1.0	14.0	8.3	1225	Small seep between sandstone layers.	NRHR	Deer, other small wildlife
S-65	<1.0	15.0	7.8	1150	Small seep in channel. No outcrop evidence.	NRHR	Birds, small wildlife
S-66	2.0	25.0	7.0	1150	Large area of seeps. Active creep-slump area just below limestone layer.	NRHR	Extensive: cattle, horse, deer
S-67	<del>2.0</del> 1	20.0	8.4	1175	Small seep coming from yellow clayey colluvium in hillside. Above mudstone outcrops.	NRHR	Probably small wildlife

Site Number	Flow (gpm)	Temp. (°C)	pH (Units)	Specific Cond. <sup>(a)</sup>	Geology	Formation*	Use
S-68	<1.0	10.0	8.3	1175	Seep in channel on top on siltstone bedrock.	NRHR	Squirrels, deer, other
S-69	<1.0	18.0	8.4	1200	Flows over Blue Castle outcrop. Composed of K-68 and gain in channel.	PCRVR	Small wildlife
S-70	1.0	7.0	7.4	775	Toe of small slump, no outcrop, colluvium. Colton Fm.	CLTN	Deer, cattle
S-71	<1.0	10.0	7.8	550	Small seep associated with KS-70.	CLTN	Deer, cattle
S-72	22.4	7.0	7.2	850	Several seeps occurring just above sandstone cliff. Colton Fm.	CLTN	Deer, cattle
S-73	<del>6.69</del> 6.6	7.0	7.3	925	Spring occurs at SS-shale contact in Colton Fm.	CLTN	Deer, elk, cattle,
S-74	6.0	8.0	7.3	900	Seeps flowing out over sandstone outcrop, sandstone/shale contact. Colton Fm.	CLTN	Deer, cattle
S-75	12.0	7.0	7.4	925	Several seeps along head of very large slide.	CLTN	Deer, cattle
S-76	3.0	6.0	7.9	600	Occurring at sandstone/shale contact. Green Rivr Fm.	GRRV	Deer
S-77	<1.0	20.0	8.0	1200	No outcrop, colluvium. Break in slope.	CLTN	Deer, elk

Site Number	Flow (gpm)	Temp. (°C)	pH (Units)	Specific Cond. <sup>(a)</sup>	Geology	Formation*	Use
S-78	4.3	7.0	7.9	825	Spring starts where the channel cuts a small SS outcrop in the Colton.	CLTN	Deer, cattle
S-79	<1.0	24.0	8.2	600	Seep flows out of colluvium covering Colton Fm.	CLTN	None
S-80	270.7	7.0	7.3	850	Spring occurs in interbedded SS and shale in the Colton.	CLTN	Deer, elk, cattle, birds
S-73	6.6	8.0	7.3	900	Spring starts in colluvium overlying Colton Fm. Suspect SS-shale interbedding.	CLTN	Deer, elk, cattle, birds
S-81	5.3	8.0	7.3	1750	Spring occurs where channel cuts SS in Black Hawk Fm.	BCKK	Cattle, deer, birds
S-82	2.9	9.0	7.5	1450	Spring occurs in the Blue Castle member.	PCRV	Cattle, deer, birds
S-83	<1.0	11.0	No Sample		Water seeping from joints in Colton Fm.	CLTN	None
S-84	4.4	7.0	7.4	1350	Spring occurring in alluvium	CSLG	Livestock, deer
S-85	<1.0	<del>15.0</del> 9.0	7.6	850	Seep occurring within limestone within Castle Gate Fm.	FLGF	Deer, cattle
S-86	<1.0	6.0	(No Sample)		Several seeps along streambank, colluvium.	ALVM	Cattle

Site Number	Flow (gpm)	Temp. (°C)	pH (Units)	Specific Cond. <sup>(a)</sup>	Geology	Formation*	Use
S-87	2.2	8.0	7.8	800	Possible sandstone/shale contact. Green River/Colton Fm.	GRRV/ CLTN	Deer, cattle
S-88	1.0	8.0	8.0	625	Several seeps at head of slide possible sandstone/shale contact Green River/Colton Fm.	GRRV/ CLTN	Deer, cattle
S-89	1.0	8.0	8.1	1050	Several seeps along head of small slide, possible Green River Colton Fm.	GRRV/ CLTN	Deer
S-90	<1.0	13.0	7.2	700	Seep at top of slide. Possible sandstone/shale contact.	CLTN	Deer, cattle
S-91	7.5	4.0	7.5	500	Developed springs. Sandstone/shale contact. Colton Fm.	CLTN	Deer, cattle
S-92	<1.0	7.0	7.3	525	Several seeps at top of rotation block, sandstone/shale contact Colton Fm.	CLTN	Deer, cattle
S-93	10.7	3.5	7.1	525	Developed spring occurring in gentle slope, no outcrop. Colton Fm.	CLTN	Deer, cattle
S-94	<1.0	4.0	7.2	625	Small seep, colluvium, Colton Fm.	CLTN	Deer, cattle
S-95	169	4.0	7.5	600	Two large springs, water from above has reappeared. No outcrop. Colton Fm.	CLTN	Deer, cattle
S-96	2.25	7.0	7.0	800	From colluvium covered slope.	ALVM	Deer, beaver, birds

Site Number	Flow (gpm)	Temp. (°C)	pH (Units)	Specific Cond. <sup>(a)</sup>	Geology	Formation*	Use
S-97	1.1	9.0	7.5	850	From colluvium covered slope.	ALVM	Beaver
S-98	<1.0	10.0	7.5	875	At the base of small alluvial fan.	ALVM	None apparent
S-99	<1.0				Sandstone shale contact in Colton Fm.	CLTN	None
S-100	3.0	6.0	7.8	650	Sandstone shale contact in Colton Fm. joints.	CLTN	Deer, birds, cattle
S-101	2.7	10.0	8.0	700	Flows out of alluvium in channel cutting Colton Fm.	CLTN	Deer, birds, cattle
S-102	3.3	10.0	8.0	800	Flow starts from toe of landslide. Colton Fm.	CLTN	Deer, elk, cattle
S-103	<1.0	6.0	7.6	600	Sandstone layer in the Colton Fm.	CLTN	Deer, cattle, birds
S-104	<1.0	6.0	(No Sample)		suggested SS-shale contact in the Colton Fm. colluvium.	CLTN	Deer, cattle, birds
S-105	<1.0	6.0	7.2	700	Sandstone shale contact in the Colton Fm. covered by colluvium.	CLTN	None apparent
S-106	2.3	7.0	7.2	500	SS-shale contact in the Colton Fm. covered by coluvium.	CLTN	Deer, elk, cattle, birds

Site Number	Flow (gpm)	Temp. (°C)	pH (Units)	Specific Cond. <sup>(a)</sup>	Geology	Formation*	Use
S-107	2.0	15.0	8.1	700	Landslides in the Colton Fm.	CLTN	Deer, birds, cattle
S-108	8.4	6.0	7.5	600	Sandstone shale contact in the Colton Fm.	CLTN	Deer, elk, birds, cattle
S-109	<1.0	7.0	7.6	800	Sandstone shale contact in the Colton Fm.	CLTN	None
S-110	1.8	11.0	8.2	800	Flowing over sandstone outcrop, Colton.	CLTN	Deer, other
S-111	75.0	7.0	8.1	700	Flowing channel near study boundary at confluence with two other drainages.		Deer, cattle
S-112	528.0	14.0	8.4	600	Flow in channel near study boundary at confluence with two other drainages.		Deer, cattle
S-113	<1.0	6.0	7.6	825	Seep from colluvium, slump on hillside.	CLTN	None apparent
S-114	<1.0	7.0	7.5	900	Seep on flatter gradient with steeper slopes above and below.	CLTN	Wildlife probable
S-115	2.9	8.0	7.9	975	On flatter gradient than slopes above and below.	CLTN	Wildlife
S-116	18.0	8.0	7.9	700	From colluvial/alluvial material on hillside above channel.	CLTN	Human

Site Number	Flow (gpm)	Temp. (°C)	pH (Units)	Specific Cond. <sup>(a)</sup>	Geology	Formation*	Use
S-117	<1.0	5.0	7.4	700	Running over sandstone outcrop, sandstone/shale contact, Colton Fm.	CLTN	Deer
S-118	10.5	7.0	7.5	675	Spring occurring at outcrop sandstone/shale contact, Colton Fm.	CLTN	Deer, elk
S-119	3.2	9.0	8.1	750	Several seeps at head of landslide.	CLTN	Deer, elk
S-120	2.5	9.0	8.3	700	Several small seeps at head of small slump, sandstone/shale contact. Colton Fm.	CLTN	Deer
S-121	<1.0	8.0	8.2	700	Seep at scarp of slump, break in slope-sandstone/shale. Colton Fm.	CLTN	Deer
S-122	<1.0	8.0	7.8	825	Several small seeps at scarp of slump, possible sandstone/shale contact. Break in slope.	CLTN	Deer, elk
S-123	<1.0	8.0	7.6	650	Several seeps along east bank of stream add significant to total flow.	CLTN	Deer, cattle
S-124	1.9	7.0	8.2	875	Sandstone shale contact in the Colton Fm. Headscarp of debris flow.	CLTN	Deer, cattle, elk, birds
S-125	5.4	7.0	8.3	800	Sandstone shale contact in Colton Fm. Headscarp of debris flow.	CLTN	Deer, elk, cattle, birds
S-126	2.0	7.0	7.6	950	Sandstone shale contact in Colton Fm. headscarp of landslide.	CLTN	Deer, elk, cattle, birds

Site Number	Flow (gpm)	Temp. (°C)	pH (Units)	Specific Cond. (a)	Geology	Formation*	Use
S-127	6.3	6.0	8.1	850	Sandstone shale contact in Colton Fm.	CLTN	Deer, elk, cattle, birds
S-128	12.0	6.0	8.3	750	Sandstone overlying shale in the Colton Fm. fracture	CLTN	Deer, cattle, birds
S-129	24.0	22.0	7.3	850	Channel cuts sandstone interbedded with shale from numerous small seeps and springs.	CLTN	Deer, cattle, birds
S-130	8.0	6.0	7.4.	650	Spring from sandstone/shale contact.	CLTN	Deer, other wildlife
S-131	<del>4.0</del> <1				Small seep in slide area between sandstone units.	CLTN	None apparent
S-132	3.0	6.0	7.4	650	Spring at sandstone outcrop base.	CLTN	Probable wildlife
S-133	2.0	8.0	7.3	650	Spring near head of slide in gray shale/mud.	CLTN	Deer, other wildlife
S-134	2.0	7.0	7.8	500	Spring from sandstone outcrop.	CLTN	Deer, other
S-135	1.0	7.0	7.8	500	Issuing from under sandstone rock covered by colluvium.	CLTN	Deer
S-136	<1.0	9.0	7.6	450	In slide/slump area in shale/siltstone.	CLTN	Deer, rabbit

Site Number	Flow (gpm)	Temp. (°C)	pH (Units)	Specific Cond. (a)	Geology	Formation*	Use
S-137	2.7	11.0	8.1	425	Water from head of slide. Siltstone bedrock.	CLTN	Deer
S-138	<1.0				Two small seeps probably sandstone/shale contact.	CLTN	None apparent
S-139	17.0	5.5	7.6	750	Large spring from head of slide, material silty, sandy.	CLTN	Deer, cows
S-140	19.0	6.0	7.7	725	Spring from colluvium with alluvial gravels present.	CLTN	Wildlife possibly
S-141	4.3	6.0	7.4	650	Spring flows from depression in colluvium covered hillslope. Sandstone/shale contact in Colton Fm. possible.	CLTN	Wildlife, cattle
S-142	1.0	6.0	7.8	600	Spring starts from colluvium; probable SS/shale contact in Colton Fm.	CLTN	None apparent Possible wildlife
S-143	1.0	7.0	8.2	625	Spring starts from colluvium. SS/shale contact in Colton Fm.	CLTN	None apparent Possible wildlife
S-144	4.9	5.0	8.2	700	At base of large SS cliff in Colton Fm. Developed spring.	CLTN	Livestock, Wildlife
S-145	40.0	<del>22.0</del> 4.0	7.6	<del>750</del> 650	Flowing from alluvium at the river's edge. Suspected source is the Colton Fm.	ALVM	None
S-146	1.0	7.0	7.8	575	Sandstone/shale contact suspected. Colton Fm.	CLTN	Deer, cattle

Site Number	Flow (gpm)	Temp. (°C)	pH (Units)	Specific Cond. <sup>(a)</sup>	Geology	Formation*	Use
S-147	3.5	7.0	7.6	550	Colluvium no outcrop, possible sandstone/shale contact, Colton Fm.	CLTN	Deer, cattle
S-148	<1.0	6.0	8.0	575	Sandstone/shale contact, colluvium no outcrop, Colton Fm.	CLTN	Deer
S-149	<1.0	10.0	8.0	600	Seep on gentle slope, alluvium, no outcrop,	ALVM	Deer
S-156	3.6	5.0	7.8	650	Occurring from alluvium, possible sandstone on origin. Colton Fm.	CLTN	Deer
S-157	<1.0	8.0	8.5	625	Seep at toe of slump, possible sandstone/shale contact, Colton Fm.	CLTN	Deer
S-152	<del>&lt;1.0</del> 7.0	6.0	7.6	550	Three springs at break in slope, no outcrop, Colton Fm.	ALVM	Deer
S-153	<1.0	12.0	(No Sample)		Very small seep, at break in slope, colluvium, Colton Fm.	CLTN	Deer
S-154	<1.0	7.0	7.5	550	In alluvial material of valley bottom (Whitmore Canyon Alluvium).	ALVM	None
S-155	<1.0		(No Sample)		Small seep in alluvial material or channel (Whitmore Canyon Alluvium).	ALVM	None
S-156	<1.0	18.0	7.8	725	Located in floodplain of channel on inside meander bend.	?	Possible wildlife

Site Number	Flow (gpm)	Temp. (°C)	pH (Units)	Specific Cond. <sup>(a)</sup>	Geology	Formation*	Use
S-157	1-2	6.0	8.0	725	Seeps in slide/slump area.	CLTN	Possible wildlife
S-158	4.6	4.0	7.7	600	SS/shale contact due to break in slope. Colton Fm.	CLTN	Wildlife
S-159	2.5	6.0	7.7	700	Flows out of colluvium. A sandstone member of the Colton Fm. Outcrops 20m south on hill slope.	ALVM	Wildlife, cattle
S-160	1.0	8.0	7.5	625	Colluvium, possible sandstone/shale contact, Colton Fm.	CLTN	Deer, cattle
S-161	6.7	6.0	7.8	550	Spring at sandstone partings, just below break in slope, Colton Fm.	CLTN	Deer, cattle
S-162	1.4	4.0	7.8	500	Several seeps at scarp of small slide no outcrop, Colton Fm.	CLTN	Deer
S-163	6.0	7.0	8.1	575	At scarp on small landslide, suspected ss/sh interface.	CLTN	Wildlife, cattle
S-164	<1.0	7.0	7.7	550	Should be listed with KS-163, same geology, within 5m of KW-57.	CLTN	Wildlife, cattle
S-165	3.4	5.0	8.0	525	Flows out of colluvium just below large outcrop of sandstone in the Colton Fm.	CLTN	Wildlife (cats)
S-166	1.4	6.0	7.4	650	Same as KS-165, spring locate 100 meters north.	CLTN	Wildlife, cattle

Site Number	Flow (gpm)	Temp. (°C)	pH (Units)	Specific Cond. <sup>(a)</sup>	Geology	Formation*	Use
S-167	5.2	6.0	7.7	825	Colton Fm., sandstone/shale contact suspected.	CLTN	Wildlife, cattle
S-168	12.5	7.0	8.0	550	Small outcrop of sandstone in the Colton Fm.	CLTN	Beavers
S-169	<1.0	26.0	8.5	575	Small seep at roadside colluvium, no outcrop, North Horn.	NRHR	Deer, cattle
S-170	15.7	6.0	7.9	600	Sandstone/shale, sandstone, parting layers, Colton Fm.	CLTN	Deer
S-171	<1.0	7.0	7.7	800	No outcrop, possible limestone source.	CLTN	Deer
S-172	3.7	6.0	7.6	700	Developed spring at toe of slope just above stream, alluvium, no outcrop.	ALVM	Deer, cattle
S-173	<1.0	8.0	(No Sample)		Seep at toe of cut bank of stream-alluvium, no outcrop, Colton Fm.	ALVM	?
S-174	8.4	6.0	7.7	575	Two springs at stream channel, alluvium, no outcrop, Colton Fm.	ALVM	?
S-175	<1.0	8.0	7.4	700	Alluvium just above stream, no outcrop, Colton Fm.	ALVM	
S-176	5.0	8.0	8.1	675	Several seeps at small slide scarp, alluvium, no outcrop, Colton Fm.	CLTN	Deer, cattle

Site Number	Flow (gpm)	Temp. (°C)	pH (Units)	Specific Cond. <sup>(a)</sup>	Geology	Formation*	Use
S-177	3.0	7.0	7.7	600	Sandstone/shale interface probable. Colton.	CLTN	Deer, cattle
S-178	<1.0				Small seep in side drainage at sandstone/siltstone interface, Colton.	CLTN	
S-179	4.0	6.5	7.6	675	Spring out of colluvium. Same elevation as sandstone outcrop. Colton.	CLTN	Deer
S-180	3.0	6.5	8.0	775	In colluvium. Probably from same source as KS-179.	CLTN	Deer
S-181	<1.0	6.5	8.1	875	From head of small slide on hillslope. Colton.	CLTN	Probable wildlife
S-182	1.1	12.0	8.4	1025	Small seep from failure of road cut. Colton.	CLTN	Minor wildlife probable
S-183	<1.0	4.0	7.4	425	From base of slump block in Colton Formation.	CLTN	Wildlife, cattle
S-184	<1.0	17.0	7.7	3600	From sandstone/shale contact at base of North Horn.	NRHR	Horse, wildlife
S-185	<1.0		(No Sample)		From sandstone/shale contact at base of North Horn.	NRHR	Horse, wildlife
S-186	1.2	7.0	7.4	525	Several seeps at head of small debris flow, no outcrop, sandstone/shale contact, Colton Fm.	CLTN	Deer

Site Number	Flow (gpm)	Temp. (°C)	pH (Units)	Specific Cond. (a)	Geology	Formation*	Use
S-187	3.0	<del>8.0</del> 6	7.9	475	Possible jointed sandstone source sandstone outcrop, Colton Fm.	CLTN	Deer
S-188	2.9	4.0	7.3	550	Developed spring, possible sandstone/shale contact, no outcrop, alluvium, Colton Fm.	CLTN	Cattle, deer
S-189	3.8	10.0	7.3	1150	Spring at side of stream, no outcrop, alluvium.	ALVM	Deer, beaver
S-190	37.0	8.0	7.3	650	Spring and seeps at road side from under fill, alluvium, no outcrop. North Horn.	NRHR	Deer, cattle
S-191	4.2	5.0	7.8	600	Base of sandstone outcrop in the Colton Fm.	CLTN	Beaver, deer, cattle
S-192	8.4	6.0	7.9	750	Flows from small depression in colluvium. Suggest covered outcrop of sandstone (Colton.)	CLTN	Wildlife, cattle
S-193	<1.0	7.0	8.0	900	Seep flows out of colluvium covered valley floor.	CLTN	Wildlife, cattle
S-194	<1.0	7.0	(No Sample)		Flows out of interbedded sandstone/shale at the scarp of a landslide in the Colton Fm.	CLTN	None
S-195	11.1	6.0	7.5	675	Spring flows out of alluvium alongside Whitmore Ck.	ALVM	None

Site Number	Flow (gpm)	Temp. (°C)	pH (Units)	Specific Cond. <sup>(a)</sup>	Geology	Formation*	Use
S-196	2.7	7.0	7.8	900	Spring flows out of alluvium alongside Whitmore Ck.	ALVM	None
S-197	<1.0	6.0	8.2	675	Spring flows out of alluvium alongside Whitmore Ck.	ALVM	None
S-198	<1.0	6.0	(No Sample)		Spring flows out of alluvium alongside Whitmore Ck.	ALVM	None
S-199	<1.0		(No Sample)		Spring flows out of alluvium alongside Whitmore Ck.	ALVM	None
S-200	<1.0	6.0	7.6	800	Seep flows out of roadcut from colluvium.	ALVM	Deer, cattle
S-201	<1.0		(No Sample)		Two seeps in alluvium, no outcrop, North Horn Fm.	ALVM	?
S-202	6.8	7.0	8.0	1250	Spring in alluvium of stream channel, no outcrop, Colton Fm.	CLTN	Deer, cattle
S-203	12.2	8.0	7.2	775	Several seeps along stream bank, alluvium.	ALVM	Deer, cattle
S-204	<1.0	18.0	8.0	1075	Several seeps along stream bank, alluvium, no outcrop.	ALVM	None
S-205	9.1	6.0	8.0	450	Colton Fm. Sandstone/shale contact suspected.	CLTN	Wildlife, cattle

Site Number	Flow (gpm)	Temp. (°C)	pH (Units)	Specific Cond. <sup>(a)</sup>	Geology	Formation*	Use
S-206	6.2	5.0	7.7	525	Spring flows out from under sandstone float. Sandstone cliffs outcrop 2m upslope.	CLTN	Wildlife
S-207	2.0	9.0	8.4	1825	Numerous seeps in a landslide in the North Horn Fm. Subsidence suspected.	NRHR	Cattle
S-208	5.0	9.0	7.9	750	Spring flows from colluvium covering SS-sh interface change in slope.	NRHR	Cattle
S-209	<1.0	12.0	8.0	800	SS-sh contact.	NRHR	Wildlife, cattle
S-210	1.0	8.0	8.4	425	Several seeps at slide scarp, alluvium/colluvium, no outcrop.	CLTN	Deer
S-211	6.0	6.0	8.2	700	Alluvium, possible source sandstone partings or joints.	CLTN	Deer
S-212	9.1	6.0	7.8	1150	Spring flowing from alluvium, no break in slope.	CLTN	Deer, cattle
S-213	1.6	6.0	8.0	1200	Several seeps at slide scarp colluvium.	CLTN	
S-214	<del>207</del> 2.7	8.0	8.6	600	Series of springs start from a debris flow at the toe of a landslide.	CLTN	Cattle, wildlife

Site Number	Flow (gpm)	Temp. (°C)	pH (Units)	Specific Cond. (a)	Geology	Formation*	Use
S-215	<del>4.1</del> 1.1	12.0	8.3	1300	Spring occurs in cutbank. Starts in colluvium covering interbedded SS-sh.	NRHR	Irrigation
S-216	<1.0	13.0	(No Sample)		At ss-sh contact in North Horn contact.	NRHR	None
S-217	1.8	9.0	8.4	1375	Flows from head scarp of landslide (slump).	NRHR	Deer, birds
S-218	<1.0	11.0	8.1	1375	Numerous seeps from top of landslide.	NRHR	Deer, birds
S-219	<1.0	15.0	7.9	1375	Water seeps from SS layer bounded by shale.	NRHR	Deer, birds
S-220	<del>2.0</del> 3.9	5.0	8.2	1375	Spring flows from interbedded limestone and shale.	NRHR	Wildlife, cattle
S-221	<1.0	6.0	7.9	375	Seep at head of slide, colluvium, no outcrop, sandstone/shale contact.	CLTN	Deer
S-222	<1.0	26.0	7.8	475	Stockpond formed by blocking small drainage.	NRHR	Stockpond cattle, deer, birds
S-223	<1.0	12.0	(No Samples)		Small seep flows out of colluvium covering SS outcrop.	NRHR	Deer

\*FORMATION ABBREVIATIONS

ALVM	Whitmore Canyon Alluvium
MACS	Mancos Shale
BCKK	Blackhawk Formation
CSLG	Castlegate Sandstone
PCRV	Price River Formation
FLGF	Flagstaff Limestone
NRHR	North Horn Formation
CLTN	Colton Formation
GRRV	Green Rivr Formation