

APPENDIX 7

TRIBAL STOCKWATER IMPOUNDMENTS

TRIBAL STOCKWATER IMPOUNDMENTS

The attached Appendix 7 exhibit is an illustrative map identifying the general location of the existing tribal stockwater impoundments. A comprehensive listing of each stockwater facility is presented in the following inventory. Detailed locations of each impoundment are documented in a comprehensive set of quadrangle maps that are located at the TWRD office on the reservation, the DNRC office in Havre, Montana, and the RWRCC office in Helena, Montana.

ROCKY BOY'S INDIAN RESERVATION
APPENDIX 7: STOCK WATER IMPOUNDMENT INVENTORY

DATABASE SUMMARY

DRAINAGE BASIN		TOTAL STOCK IMPOUNDMENT SURFACE ACRES		TOTAL STOCK IMPOUNDMENT ANN. EVAPORATIVE LOSS, AF	
NO.	NAME	UNROUNDED	USE ²	UNROUNDED	USE ²
1	Gravel Coulee	13.27	13	39.81	40
2	Box Elder Creek	43.81	44	131.43	130
3	Duck Creek	22.58	23	67.74	70
4	Lower Big Sandy Creek	39.85	40	119.55	120
5	Beaver Creek	13.08	13	39.24	40
6	Camp Creek	18.63	19	55.89	60
7	Gorman Creek	3.25	3	9.75	10
8	Upper Big Sandy Creek	13.88	15	41.64	45
RESERVATION TOTAL		168.35	170	505.05	515

NOTES:

1. All stock water facilities are allowed to continuously fill.
2. Use values reflect the surface water acreage and consumptive use volumes utilized for each drainage in the Compact.

**ROCKY BOY'S INDIAN RESERVATION
APPENDIX 7
STOCK WATER IMPOUNDMENT INVENTORY - DATABASE**

<u>MSE_HKM_ID</u>	<u>BASIN</u>	<u>ACREAGE</u>	
R-02-01	1	8.83	
R-02-04	1	0.27	
R-02-08	1	0.10	
R-05-01	1	0.21	
R-05-02	1	0.12	
R-05-03	1	0.12	
R-06-01	1	0.75	
R-06-02	1	1.06	
R-06-04	1	0.32	
R-06-06	1	0.34	
R-06-07	1	0.16	
R-06-09	1	0.74	
R-06-10	1	0.25	
TOTAL STOCK WATER IMPOUNDMENT SURFACE ACREAGE IN BASIN 1		13.27	Acres
TOTAL STOCK WATER ANNUAL EVAPORATIVE LOSS IN BASIN 1 @ 3 AF/Acre =		39.81	AF

Note: All stock water facilities are allowed to continuously fill.

LEGEND:

MSE-HKM ID: R - Reservoir	01 - Box Elder Quad	06 - Rocky Boy Quad	01 - Stock Water Impoundment No. per Quad
	02 - Laredo Quad	07 - Centennial Mountain Quad	
	03 - Cowan Reservoir Quad	08 - Bearpaw Lake Quad	
	04 - Table Butte Quad	09 - Bowery Peak Quad	
	05 - Laredo NE Quad	10 - Big John Butte Quad	

BASIN:	1 - Gravel Coulee	4 - Lower Big Sandy Creek	7 - Gorman Creek
	2 - Box Elder Creek	5 - Beaver Creek	8 - Upper Big Sandy Creek
	3 - Duck Creek	6 - Camp Creek	

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<u>MSE_HKM_ID</u>	<u>BASIN</u>	<u>ACREAGE</u>
R-03-13	2	0.44
R-03-14	2	1.02
R-03-15	2	0.25
R-03-16	2	0.72
R-03-17	2	0.38
R-06-05	2	0.17
R-06-08	2	0.37
R-06-11	2	1.15
R-06-13	2	0.34
R-06-14	2	0.45
R-06-15	2	0.37
R-06-16	2	0.14
R-06-17	2	0.18
R-06-18	2	0.30
R-06-19	2	0.24
R-06-20	2	0.26
R-06-21	2	0.26
R-06-22	2	0.20
R-06-23	2	0.21
R-06-24	2	0.27
R-06-25	2	1.11
R-06-28	2	0.31
R-06-29	2	0.21
R-06-30	2	0.10
R-06-31	2	0.58
R-06-32	2	0.66
R-06-33	2	0.62
R-06-34	2	0.26
R-06-35	2	3.56
R-06-36	2	0.16
R-06-37	2	1.49
R-06-38	2	0.45
R-06-39	2	0.69
R-06-40	2	0.21
R-06-41	2	0.23
R-06-42	2	0.10
R-06-43	2	0.38
R-06-44	2	0.31

LEGEND:

MSE-HKM ID: R - Reservoir	01 - Box Elder Quad	06 - Rocky Boy Quad	01 - Stock Water Impoundment
	02 - Laredo Quad	07 - Centennial Mountain Quad	No. per Quad
	03 - Cowan Reservoir Quad	08 - Bearpaw Lake Quad	
	04 - Table Butte Quad	09 - Bowery Peak Quad	
	05 - Laredo NE Quad	10 - Big John Butte Quad	

BASIN:	1 - Gravel Coulee	4 - Lower Big Sandy Creek	7 - Gorman Creek
	2 - Box Elder Creek	5 - Beaver Creek	8 - Upper Big Sandy Creek
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MSE_HKM_ID	BASIN	ACREAGE
R-06-45	2	0.08
R-06-46	2	0.27
R-06-47	2	0.06
R-06-48	2	0.09
R-06-49	2	0.28
R-06-50	2	0.26
R-06-51	2	0.44
R-06-52	2	0.83
R-06-53	2	0.28
R-06-54	2	0.19
R-06-57	2	2.04
R-06-58	2	0.46
R-07-01	2	0.19
R-07-02	2	0.83
R-07-04	2	0.21
R-07-05	2	0.20
R-07-06	2	0.24
R-07-07	2	0.12
R-07-08	2	0.18
R-07-09	2	0.58
R-07-10	2	0.31
R-07-11	2	0.23
R-07-12	2	0.12
R-07-13	2	0.67
R-07-14	2	0.26
R-07-15	2	0.19
R-07-16	2	0.08
R-07-17	2	0.15
R-07-18	2	0.16
R-07-19	2	0.24
R-07-20	2	0.40
R-07-21	2	0.12
R-07-22	2	0.10
R-07-23	2	0.30
R-07-26	2	0.12
R-07-27	2	0.26
R-08-01	2	0.48
R-08-02	2	0.15

LEGEND:

MSE-HKM ID: R - Reservoir	01 - Box Elder Quad	06 - Rocky Boy Quad	01 - Stock Water Impoundment
	02 - Laredo Quad	07 - Centennial Mountain Quad	No. per Quad
	03 - Cowan Reservoir Quad	08 - Bearpaw Lake Quad	
	04 - Table Butte Quad	09 - Bowery Peak Quad	
	05 - Laredo NE Quad	10 - Big John Butte Quad	

BASIN:	1 - Gravel Coulee	4 - Lower Big Sandy Creek	7 - Gorman Creek
	2 - Box Elder Creek	5 - Beaver Creek	8 - Upper Big Sandy Creek
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MSE_HKM_ID	BASIN	ACREAGE
R-08-03	2	0.15
R-08-04	2	0.16
R-08-05	2	0.06
R-08-06	2	0.07
R-08-07	2	0.34
R-08-08	2	0.16
R-08-09	2	0.18
R-08-10	2	0.23
R-08-15	2	0.54
R-08-16	2	0.29
R-08-17	2	0.17
R-08-18	2	0.07
R-08-19	2	0.14
R-08-20	2	0.29
R-08-21	2	0.17
R-08-22	2	0.11
R-08-23	2	0.10
R-08-24	2	0.07
R-08-25	2	0.35
R-08-35	2	0.30
R-08-36	2	0.17
R-08-37	2	0.17
R-08-38	2	0.16
R-08-39	2	0.24
R-08-40	2	0.14
R-08-41	2	0.11
R-08-42	2	0.20
R-08-43	2	0.11
R-08-44	2	0.13
R-08-45	2	0.08
R-08-46	2	0.11
R-09-08	2	0.26
R-09-09	2	0.24
R-09-10	2	0.07
R-09-11	2	0.29
R-09-12	2	0.31
R-09-13	2	0.44
R-09-14	2	0.04

LEGEND:

MSE-HKM ID: R - Reservoir	01 - Box Elder Quad	06 - Rocky Boy Quad	01 - Stock Water Impoundment No. per Quad
	02 - Laredo Quad	07 - Centennial Mountain Quad	
	03 - Cowan Reservoir Quad	08 - Bearpaw Lake Quad	
	04 - Table Butte Quad	09 - Bowery Peak Quad	
	05 - Laredo NE Quad	10 - Big John Butte Quad	

BASIN:	1 - Gravel Coulee	4 - Lower Big Sandy Creek	7 - Gorman Creek
	2 - Box Elder Creek	5 - Beaver Creek	8 - Upper Big Sandy Creek
	3 - Duck Creek	6 - Camp Creek	

ROCKY BOY'S INDIAN RESERVATION
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MSE_HKM_ID	BASIN	ACREAGE
R-09-15	2	0.55
R-09-16	2	0.46
R-09-20	2	0.50
R-09-23	2	0.62
R-09-26	2	0.28
R-09-27	2	0.38
R-09-28	2	0.19
R-09-29	2	0.34
R-09-30	2	0.15
R-09-31	2	0.25
R-09-33	2	0.18
R-09-34	2	0.20
R-09-35	2	0.26
R-09-36	2	0.41
R-09-38	2	0.18
R-09-39	2	0.20
R-09-40	2	0.12

TOTAL STOCK WATER IMPOUNDMENT SURFACE ACREAGE IN BASIN 1 43.81 Acres

TOTAL STOCK WATER ANNUAL EVAPORATIVE LOSS IN BASIN 1 @ 3 AF/Acre = 131.43 AF

Note: All stock water facilities are allowed to continuously fill.

LEGEND:

MSE-HKM ID: R - Reservoir	01 - Box Elder Quad	06 - Rocky Boy Quad	01 - Stock Water Impoundment No. per Quad
	02 - Laredo Quad	07 - Centennial Mountain Quad	
	03 - Cowan Reservoir Quad	08 - Bearpaw Lake Quad	
	04 - Table Butte Quad	09 - Bowery Peak Quad	
	05 - Laredo NE Quad	10 - Big John Butte Quad	

BASIN:	1 - Gravel Coulee	4 - Lower Big Sandy Creek	7 - Gorman Creek
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STOCK WATER IMPOUNDMENT INVENTORY - DATABASE**

MSE_HKM_ID	BASIN	ACREAGE	
R-01-01	3	0.59	
R-03-18	3	6.42	
R-03-19	3	0.22	
R-03-20	3	11.90	
R-03-21	3	0.28	
R-06-26	3	0.53	
R-06-27	3	0.67	
R-06-55	3	0.98	
R-06-56	3	0.99	
TOTAL STOCK WATER IMPOUNDMENT SURFACE ACREAGE IN BASIN 1		22.58	Acres
TOTAL STOCK WATER ANNUAL EVAPORATIVE LOSS IN BASIN 1 @ 3 AF/Acre =		67.74	AF

Note: All stock water facilities are allowed to continuously fill.

LEGEND:

MSE-HKM ID: R - Reservoir	01 - Box Elder Quad 02 - Laredo Quad 03 - Cowan Reservoir Quad 04 - Table Butte Quad 05 - Laredo NE Quad	06 - Rocky Boy Quad 07 - Centennial Mountain Quad 08 - Bearpaw Lake Quad 09 - Bowery Peak Quad 10 - Big John Butte Quad	01 - Stock Water Impoundment No. per Quad
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BASIN:	1 - Gravel Coulee 2 - Box Elder Creek 3 - Duck Creek	4 - Lower Big Sandy Creek 5 - Beaver Creek 6 - Camp Creek	7 - Gorman Creek 8 - Upper Big Sandy Creek
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<u>MSE_HKM_ID</u>	<u>BASIN</u>	<u>ACREAGE</u>
R-01-02	4	1.76
R-01-03	4	11.25
R-01-04	4	0.20
R-01-05	4	0.47
R-01-06	4	3.20
R-01-07	4	0.37
R-01-08	4	0.24
R-01-09	4	0.35
R-01-10	4	0.55
R-02-05	4	0.88
R-02-06	4	0.37
R-02-07	4	0.16
R-02-09	4	0.08
R-03-01	4	0.13
R-03-02	4	0.08
R-03-03	4	2.73
R-03-04	4	0.36
R-03-05	4	1.94
R-03-06	4	0.07
R-03-07	4	0.16
R-03-08	4	0.09
R-03-09	4	0.42
R-03-10	4	2.47
R-03-12	4	0.13
R-03-22	4	0.14
R-03-23	4	0.23
R-03-24	4	1.02
R-03-25	4	3.17
R-03-26	4	2.58
R-03-27	4	3.88
R-06-03	4	0.37

TOTAL STOCK WATER IMPOUNDMENT SURFACE ACREAGE IN BASIN 1 39.85 Acres

TOTAL STOCK WATER ANNUAL EVAPORATIVE LOSS IN BASIN 1 @ 3 AF/Acre = 119.55 AF

Note: All stock water facilities are allowed to continuously fill.

LEGEND:

MSE-HKM ID: R - Reservoir	01 - Box Elder Quad	06 - Rocky Boy Quad	01 - Stock Water Impoundment No. per Quad
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BASIN:	1 - Gravel Coulee	4 - Lower Big Sandy Creek	7 - Gorman Creek
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<u>MSE_HKM_ID</u>	<u>BASIN</u>	<u>ACREAGE</u>
R-08-11	5	0.38
R-08-12	5	0.28
R-08-13	5	0.45
R-08-14	5	0.45
R-08-26	5	0.22
R-08-27	5	0.04
R-08-28	5	0.29
R-08-29	5	0.09
R-08-30	5	0.18
R-08-31	5	0.11
R-08-32	5	0.15
R-08-33	5	0.19
R-08-34	5	0.15
R-09-01	5	0.40
R-09-02	5	1.02
R-09-03	5	0.28
R-09-04	5	0.16
R-09-07	5	0.30
R-09-17	5	0.12
R-09-18	5	0.33
R-09-19	5	0.72
R-09-21	5	0.57
R-09-22	5	0.27
R-09-24	5	0.37
R-09-25	5	0.47
R-09-32	5	0.26
R-09-41	5	0.12
R-09-42	5	0.16
R-09-43	5	0.14
R-09-44	5	0.24
R-09-45	5	0.11
R-09-46	5	0.12
R-09-47	5	0.24
R-09-48	5	0.16
R-09-49	5	0.52
R-09-50	5	0.22
R-09-51	5	0.84
R-09-52	5	0.22

LEGEND:

MSE-HKM ID: R - Reservoir	01 - Box Elder Quad	06 - Rocky Boy Quad	01 - Stock Water Impoundment
	02 - Laredo Quad	07 - Centennial Mountain Quad	No. per Quad
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BASIN:	1 - Gravel Coulee	4 - Lower Big Sandy Creek	7 - Gorman Creek
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MSE_HKM_ID	BASIN	ACREAGE	
R-09-53	5	0.37	
R-09-57	5	0.27	
R-10-01	5	0.34	
R-10-02	5	0.08	
R-10-03	5	0.07	
R-10-04	5	0.18	
R-10-05	5	0.23	
R-10-06	5	0.20	
TOTAL STOCK WATER IMPOUNDMENT SURFACE ACREAGE IN BASIN 1		13.08	Acres
TOTAL STOCK WATER ANNUAL EVAPORATIVE LOSS IN BASIN 1 @ 3 AF/Acre =		39.24	AF

Note: All stock water facilities are allowed to continuously fill.

LEGEND:

MSE-HKM ID: R - Reservoir	01 - Box Elder Quad	06 - Rocky Boy Quad	01 - Stock Water Impoundment No. per Quad
	02 - Laredo Quad	07 - Centennial Mountain Quad	
	03 - Cowan Reservoir Quad	08 - Bearpaw Lake Quad	
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	05 - Laredo NE Quad	10 - Big John Butte Quad	
BASIN:	1 - Gravel Coulee	4 - Lower Big Sandy Creek	7 - Gorman Creek
	2 - Box Elder Creek	5 - Beaver Creek	8 - Upper Big Sandy Creek
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<u>MSE_HKM_ID</u>	<u>BASIN</u>	<u>ACREAGE</u>	
R-04-01	6	18.39	
R-07-24	6	0.14	
R-07-25	6	0.10	
TOTAL STOCK WATER IMPOUNDMENT SURFACE ACREAGE IN BASIN 1		18.63	Acres
TOTAL STOCK WATER ANNUAL EVAPORATIVE LOSS IN BASIN 1 @ 3 AF/Acre =		55.89	AF

Note: All stock water facilities are allowed to continuously fill.

LEGEND:

MSE-HKM ID: R - Reservoir	01 - Box Elder Quad	06 - Rocky Boy Quad	01 - Stock Water Impoundment No. per Quad
	02 - Laredo Quad	07 - Centennial Mountain Quad	
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MSE_HKM_ID	BASIN	ACREAGE	
R-04-02	7	0.46	
R-04-03	7	1.23	
R-04-04	7	0.39	
R-04-05	7	0.80	
R-04-06	7	0.37	
TOTAL STOCK WATER IMPOUNDMENT SURFACE ACREAGE IN BASIN 1		3.25	Acres
TOTAL STOCK WATER ANNUAL EVAPORATIVE LOSS IN BASIN 1 @ 3 AF/Acre =		9.75	AF

Note: All stock water facilities are allowed to continuously fill.

LEGEND:

MSE-HKM ID: R - Reservoir	01 - Box Elder Quad	06 - Rocky Boy Quad	01 - Stock Water Impoundment No. per Quad
	02 - Laredo Quad	07 - Centennial Mountain Quad	
	03 - Cowan Reservoir Quad	08 - Bearpaw Lake Quad	
	04 - Table Butte Quad	09 - Bowery Peak Quad	
	05 - Laredo NE Quad	10 - Big John Butte Quad	
BASIN:	1 - Gravel Coulee	4 - Lower Big Sandy Creek	7 - Gorman Creek
	2 - Box Elder Creek	5 - Beaver Creek	8 - Upper Big Sandy Creek
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STOCK WATER IMPOUNDMENT INVENTORY - DATABASE

MSE_HKM_ID	BASIN	ACREAGE
R-07-03	8	0.23
R-07-28	8	0.29
R-07-29	8	0.27
R-07-30	8	0.14
R-07-31	8	0.27
R-07-32	8	0.28
R-07-33	8	0.34
R-07-34	8	0.24
R-07-35	8	0.15
R-07-36	8	0.30
R-07-37	8	0.09
R-07-38	8	0.12
R-07-39	8	0.22
R-07-40	8	0.14
R-07-41	8	0.12
R-07-42	8	0.12
R-07-43	8	0.35
R-07-44	8	0.28
R-07-45	8	0.27
R-07-46	8	0.92
R-07-47	8	0.83
R-07-48	8	1.76
R-07-49	8	1.79
R-07-50	8	0.34
R-07-51	8	0.62
R-07-52	8	0.39
R-07-53	8	0.31
R-07-54	8	0.63
R-07-55	8	1.11
R-09-06	8	0.22
R-09-37	8	0.20
R-09-54	8	0.14
R-09-55	8	0.20
R-09-56	8	0.20
TOTAL STOCK WATER IMPOUNDMENT SURFACE ACREAGE IN BASIN 1		13.88 Acres
TOTAL STOCK WATER ANNUAL EVAPORATIVE LOSS IN BASIN 1 @ 3 AF/Acre =		41.64 AF

Note: All stock water facilities are allowed to continuously fill.

LEGEND:

MSE-HKM ID: R - Reservoir	01 - Box Elder Quad	06 - Rocky Boy Quad	01 - Stock Water Impoundment
	02 - Laredo Quad	07 - Centennial Mountain Quad	No. per Quad
	03 - Cowan Reservoir Quad	08 - Bearpaw Lake Quad	
	04 - Table Butte Quad	09 - Bowery Peak Quad	
	05 - Laredo NE Quad	10 - Big John Butte Quad	
BASIN:	1 - Gravel Coulee	4 - Lower Big Sandy Creek	7 - Gorman Creek
	2 - Box Elder Creek	5 - Beaver Creek	8 - Upper Big Sandy Creek
	3 - Duck Creek	6 - Camp Creek	