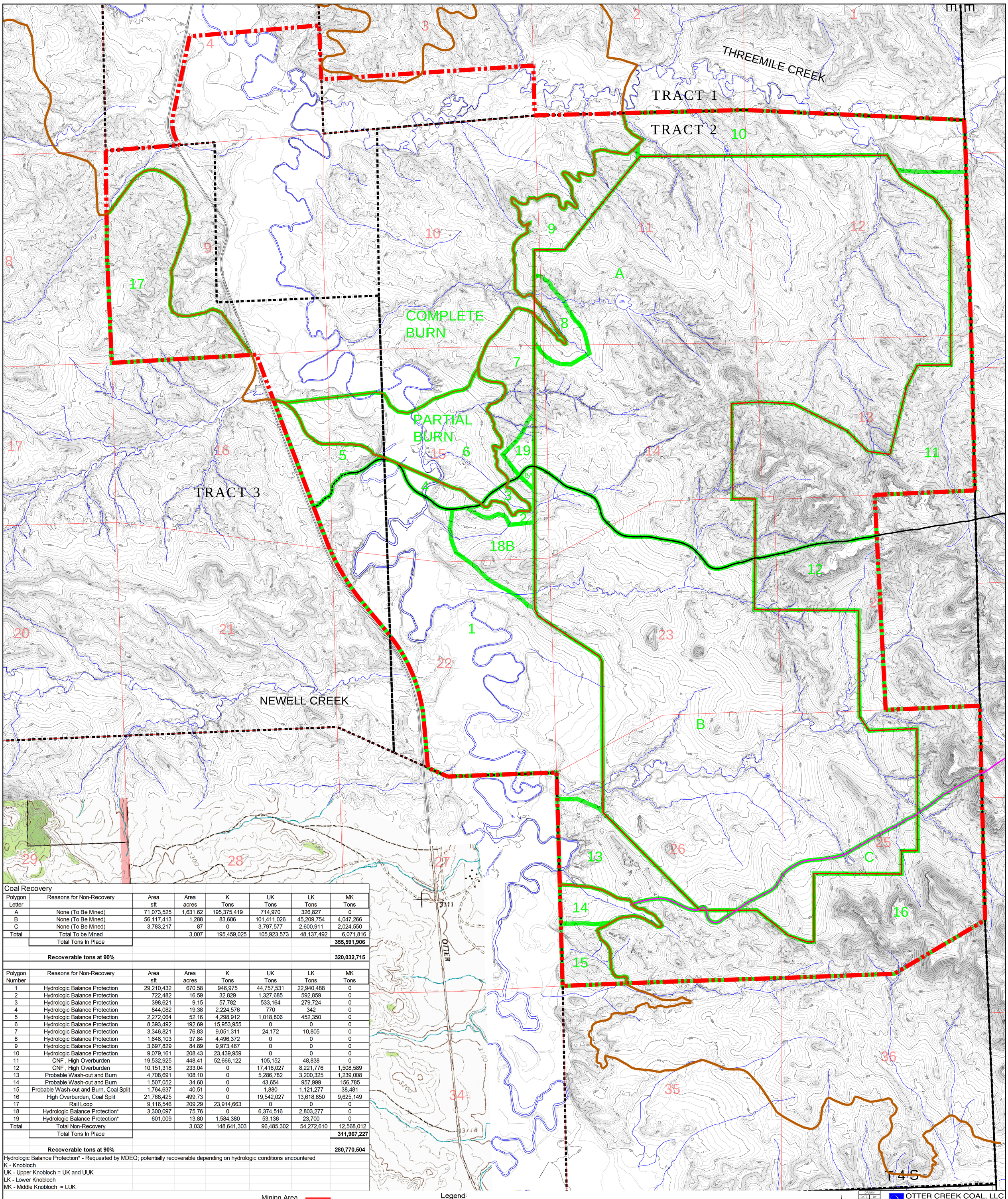

Coal Recovery

Polygon Letter	Reasons for Non-Recovery	Area sft	Area acres	K Tons	UK Tons	LK Tons	MK Tons
A	None (To Be Mined)	71,073,525	1,631.62	195,375,419	714,970	326,827	0
B	None (To Be Mined)	56,117,413	1,288	83,606	101,411,026	45,209,754	4,047,266
C	None (To Be Mined)	3,783,217	87	0	3,797,577	2,600,911	2,024,550
Total	Total To be Mined		3,007	195,459,025	105,923,573	48,137,492	6,071,816
	Total Tons In Place						**355,591,906**
	Recoverable tons at 90%						**320,032,715**

Polygon Number	Reasons for Non-Recovery	Area sft	Area acres	K Tons	UK Tons	LK Tons	MK Tons
1	Hydrologic Balance Protection	29,210,432	670.58	946,975	44,757,531	22,940,488	0
2	Hydrologic Balance Protection	722,482	16.59	32,829	1,327,685	592,859	0
3	Hydrologic Balance Protection	398,621	9.15	57,782	533,164	279,724	0
4	Hydrologic Balance Protection	844,082	19.38	2,224,576	770	342	0
5	Hydrologic Balance Protection	2,272,064	52.16	4,298,912	1,018,806	452,350	0
6	Hydrologic Balance Protection	8,393,492	192.69	15,953,955	0	0	0
7	Hydrologic Balance Protection	3,346,821	76.83	9,051,311	24,172	10,805	0
8	Hydrologic Balance Protection	1,648,103	37.84	4,496,372	0	0	0
9	Hydrologic Balance Protection	3,697,829	84.89	9,973,467	0	0	0
10	Hydrologic Balance Protection	9,079,161	208.43	23,439,959	0	0	0
11	CNF , High Overburden	19,532,925	448.41	52,666,122	105,152	48,838	0
12	CNF , High Overburden	10,151,318	233.04	0	17,416,027	8,221,776	1,508,589
13	Probable Wash-out and Burn	4,708,691	108.10	0	5,286,782	3,200,325	1,239,008
14	Probable Wash-out and Burn	1,507,052	34.60	0	43,654	957,999	156,785
15	Probable Wash-out and Burn, Coal Split	1,764,637	40.51	0	1,880	1,121,277	38,481
16	High Overburden, Coal Split	21,768,425	499.73	0	19,542,027	13,618,850	9,625,149
17	Rail Loop	9,116,546	209.29	23,914,663	0	0	0
18	Hydrologic Balance Protection*	3,300,097	75.76	0	6,374,516	2,803,277	0
19	Hydrologic Balance Protection*	601,009	13.80	1,584,380	53,136	23,700	0
Total	Total Non-Recovery		3,032	148,641,303	96,485,302	54,272,610	12,568,012
	Total Tons In Place						**311,967,227**
	Recoverable tons at 90%						**280,770,504**

Hydrologic Balance Protection* - Requested by MDEQ; potentially recoverable depending on hydrologic conditions encountered
K - Knobloch
UK - Upper Knobloch = UK and UUK
LK - Lower Knobloch
MK - Middle Knobloch = LUK

Legend:

Mining Area
Mine Permit Boundary
Tract Boundary
Township Lines
Section Lines
Clinker Burn Line
Upper Knobloch 0.5' Split
Lower Knobloch 0.5' Split
Pre Mine Contour Major (25 feet)
Pre Mine Contour Minor (5 feet)
Pre Mine Drainageways
Paved Road
Coal Recovery Polygon

Hydrometrics, Inc.
Consulting Scientists and Engineers

Inside Tracts: Olympus October 26, 2010 Aerial Survey
Outside Tracts: USGS QUADS: Willow Crossing, Coleman Draw, King Mountain, & Yager Butte

SCALE 1"=600' (Feet) 0 600
Montana State Plane NAD83 US Feet

DRAWN	
DATE	BY
7/06/12	job
REVISED	
DATE	BY
7/14/14	job
APPROVED	
DATE	BY

OTTER CREEK COAL, LLC
P.O. BOX 7152 Billings, Mt. 59103

Otter Creek Mine
Permit ID: C2012018

Exhibit 322A Coal Conservation Plan

Coal Recovery Map

FILE NAME: PLATE3_COAL_RECOVERY_MAP_R0_2014.DWG
LAYOUT: PLATE 3
Path: I:\LAND PROJECTS\OTRCR\DWG\322A