LUPTON LAKES RESOURCE
MLRB 112 RECLAMATION PERMIT M-2004-078
COVER SHEET
SW TKO JOINT VENTURE, LLC

A TRACT OF LAND SITUATED
IN THE E 1/2 OF SECTION 18
AND THE E 1/2 SECTION 19,
T1N, R66W OF THE 6TH P.M.
CITY OF FT. LUPTON,
STATE OF COLORADO

PERMIT BOUNDARY LEGAL DESCRIPTION (REV 4.8.05)

A PORTION OF THE E 1/2 OF SECTIONS 18, AND 19, A PORTION OF THE NE 1/4 OF THE NE 1/4 OF SECTION 30, AND A PORTION OF THE SW 1/4 OF THE SW 1/4 OF SECTION 17, T1N, R66W OF THE 6TH P.M., COUNTY OF WELD, STATE OF COLORADO, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE SE CORNER OF SECTION 19, THENCE ALONG THE SOUTH LINE OF SAID SECTION 19 S89°55'18"E, A DISTANCE OF 335.00 FEET; THENCE N00°03'00"W, A DISTANCE OF 40.00 FEET TO THE POINT OF BEGINNING:

THENCE THE FOLLOWING SIX (6) COURSES THROUGH SAID SE 1/4 OF SAID SECTION 19:
1. N00°03'00"W, A DISTANCE OF 220.00 FEET TO A POINT;
2. S89°55'18"E, A DISTANCE OF 126.00 FEET TO A POINT;
3. N00°03'00"W, A DISTANCE OF 400.10 FEET TO A POINT;
4. N89°55'18"W, A DISTANCE OF 204.00 FEET TO A POINT;
5. N00°03'00"W, A DISTANCE OF 300.00 FEET TO A POINT;
6. S89°55'18"E, A DISTANCE OF 383.00 FEET TO A POINT ON THE WESTERLY LINE OF WELD COUNTY ROAD NO. 27;

THENCE THE FOLLOWING THREE (3) COURSES ALONG SAID WESTERLY LINE:
1. N00°03'00"W, A DISTANCE OF 1689.06 FEET TO A POINT;
2. N00°01'52"E, A DISTANCE OF 2643.59 FEET TO A POINT;
3. N00°05'14"W, A DISTANCE OF 100.01 FEET TO A POINT;

THENCE DEPARTING SAID WESTERLY LINE THE FOLLOWING THREE (3) COURSES
1. N89°18'25"E, A DISTANCE OF 250.02 FEET TO A POINT;
2. N00°05'14"W, A DISTANCE OF 200.01 FEET TO A POINT;
3. S89°18'25"W, A DISTANCE OF 250.02 FEET TO A POINT ON THE WESTERLY LINE OF SAID COUNTY ROAD NO. 27;

THENCE N00°05'14"W, ALONG SAID WESTERLY LINE, A DISTANCE OF 257.68 FEET TO A POINT;
THENCE S89°58'40"W, A DISTANCE OF 386.26 FEET TO A POINT;
THENCE N00°01'07"W, A DISTANCE OF 758.54 FEET TO A POINT ON THE SOUTH LINE OF THE NE 1/4 OF THE NE 1/4 OF SECTION 18, T1N, R66W OF THE 6TH P.M.;
THENCE S89°25'26"W, ALONG SAID SOUTH LINE, A DISTANCE OF 606.83 FEET TO A POINT;
THENCE THE FOLLOWING FOUR (4) COURSES THROUGH THE N 1/2, OF THE SE 1/4 OF SAID SECTION 18:
1. N00°07'36"E, A DISTANCE OF 1293.31 FEET TO A POINT;
2. S89°29'45"W, A DISTANCE OF 295.69 FEET TO A POINT;
3. S89°29'48"W, A DISTANCE OF 691.39 FEET TO A POINT;
4. N00°07'26"E, A DISTANCE OF 30.00 FEET TO A POINT ON THE, SOUTH LINE OF SAID SE 1/4 OF SECTION 18;

THENCE DEPARTING SAID SOUTH LINE AND RUNNING THROUGH SAID EAST 1/2 OF SAID SECTION 18, THE FOLLOWING TEN (10) COURSES:
1. N00°07'26"E, A DISTANCE OF 150.01 FEET TO A POINT
2. S89°29'48"W, A DISTANCE OF 30.00 FEET TO A POINT;
3. N00°07'26"E, A DISTANCE OF 151.00 FEET TO A POINT;
4. S81°07'58"E, A DISTANCE OF 91.89 FEET TO A POINT;
5. N08°19'56"W, A DISTANCE OF 220.55 FEET TO A POINT;
6. S82°28'31"E, A DISTANCE OF 125.43 FEET TO A POINT;
7. N24°46'19"E, A DISTANCE OF 256.44 FEET OT A POINT;
8. N13°35'15"W, A DISTANCE OF 340.08 FEET TO A POINT;
9. N40°28'23"W, A DISTANCE OF 435.28 FEET TO A POINT;
10. N62°48'55"W, A DISTANCE OF 283.55 FEET TO A POINT ON THE EASTERLY LINE OF US HIGHWAY 85;

THENCE THE FOLLOWING FOUR (4) COURSES ALONG SAID EASTERLY LINE:
1. S04°29'51"W, A DISTANCE OF 1490.35 FEET TO A POINT;
2. S89°29'48"W, A DISTANCE OF 7.39 FEET TO A POINT;
3. S03°54'00"W, A DISTANCE OF 1242.40 FEET TO A POINT;
4. S19°35'00"W, A DISTANCE OF 89.20 FEET TO A POINT ON THE SOUTH LINE OF SAID NW 1/4, SE 1/4;

THENCE N89°25'26"E, ALONG SAID SOUTH LINE, A DISTANCE OF 303.75 FEET TO A POINT;
THENCE S00°10'41"W, A DISTANCE OF 1354.68 FEET TO A POINT;
THENCE S89°18'33"W, ALONG A LINE 30 FEET SOUTH OF AND PARALLEL TO THE SOUTH LINE OF SAID SECTION 18, A DISTANCE OF 218.77 FEET;
THENCE S17°11'06"W, A DISTANCE OF 125.12 FEET TO A POINT;
THENCE THE FOLLOWING TWO (2) COURSES THROUGH THE W 1/2 OF THE NE 1/4 SECTION 19, T1N, R66W OF THE 6TH P.M.:
1. S05°02'54"E, A DISTANCE OF 1168.30 FEET TO A POINT;
2. S04°49'38"E, A DISTANCE OF 1318.71 FEET TO A POINT ON THE SOUTH LINE OF SAID NE 1/4;

THENCE N89°47'07"E, ALONG SAID SOUTH LINE, A DISTANCE OF 694.13 FEET TO A POINT;
THENCE THE FOLLOWING SEVEN (7) COURSES THROUGH THE SE 1/4 OF SAID SECTION 19:
1. S00°10'54"E, A DISTANCE OF 1230.86 FEET TO A POINT;
2. N89°56'55"E, A DISTANCE OF 718.37 FEET TO A POINT;
3. S37°55'43"W, A DISTANCE OF 860.49 FEET TO A POINT;
4. S33°06'21"W, A DISTANCE OF 77.31 FEET TO A POINT;
5. S50°05'18"E, A DISTANCE OF 18.12 FEET TO A POINT;
6. S33°06'55"W, A DISTANCE OF 100.00 FEET OT A POINT;
7. S54°34'31"W, A DISTANCE OF 504.43 FEET TO A POINT;

THENCE S89°55'18"E, A DISTANCE OF 617.59 FEET TO A POINT;
THENCE S00°06'42"W, A DISTANCE OF 250.00 FEET TO A POINT;
THENCE S89°55'18"E, A DISTANCE OF 200.00 FEET TO A POINT;
THENCE N00°06'42"E, A DISTANCE OF 290.00 FEET TO A POINT;
THENCE S89°55'18"E, A DISTENCE OF 448.36 FEET TO THE POINT OF BEGINNING.
CONTAINING 359 ACRES OF LAND, MORE OR LESS.

ALONG WITH DRAINAGE DITCHES BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

DITCH 1: OLGILVIE SEEPAGE DITCH

THE EXISTING OLGILVIE SEEPAGE DITCH, LOCATED IN THE NW 1/4 OF SECTION 18, T1N, R66W OF THE 6TH P.M. COUNTY OF WELD, STATE OF COLORADO.

BEGINNING AT A POINT ON THE EASTERLY RIGHT-OF-WAY LINE OF COLORADO STATE HIGHWAY 85, CONTINUING TO THE POINT OF TERMINUS AT THE SOUTH PLATTE RIVER.

DITCH 2: PORTER SEEPAGE DITCH

THE EXISTING PORTER SEEPAGE DITCH, LOCATED IN THE S 1/2 OF SECTION 18, T1N, R66W OF THE 6TH P.M. COUNTY OF WELD, STATE OF COLORADO.

BEGINNING AT A POINT ON THE EASTERLY RIGHT-OF-WAY LINE OF COLORADO STATE HIGHWAY 85, CONTINUING TO THE POINT OF TERMINUS AT THE SOUTH PLATTE RIVER.

VICINITY MAP
SCALE: 1"=300'

North

0 150' 300' 600'
SCALE IN FEET

NOTE:

CIVIL RESOURCES, LLC. IS NOT RESPONSIBLE FOR SAFETY, IN, ON, OR ABOUT THE PROJECT SITE, NOR FOR COMPLIANCE BY THE APPROPRIATE PARTY OF ANY REGULATIONS THERETO.

THESE MAPS WERE PREPARED BY CIVIL RESOURCES, LLC. IN COOPERATION WITH SW TKO JOINT VENTURE, LLC. SW TKO JOINT VENTURE, LLC. WILL KEEP THE DIVISION OF MINERALS AND GEOLOGY INFORMED OF ANY CHANGES TO THE MINING OR RECLAMATION PLANS THROUGH ANNUAL REPORTS AND FILE TECHNICAL REVISIONS AND AMENDMENT APPLICATIONS AS NECESSARY THROUGHOUT THE LIFE OF THE MINE.

DANNA ORTIZ
CIVIL RESOURCES, LLC.

4.15.05
DATE

REVISIONS

NO.	DESCRIPTION	DATE	BY
1	REVISIONS PER SW TKO	11/9/04	DF/AR
2	NAME CHANGE PER DMG	12/20/04	DF
3	PERMIT NO. CHANGE PER DMG	1/27/05	DF
4	ADEQUACY RESPONSE	4/8/05	KF
5	ADEQUACY RESPONSE	4/15/05	KF

LUPTON LAKES RESOURCE,
FT. LUPTON SPECIAL USE PERMIT AND
MLRB 112 RECLAMATION PERMIT M-2004-078

COVER SHEET
SW TKO JOINT VENTURE, LLC

CIVIL RESOURCES, LLC
451 Oak Street, Suite 209
P.O. Box 680 Frederick, CO 80530
303 833 1416 (p) 303 833 2850 (f)

DESIGNED BY: DO
DRAWN BY: ARR/SR
CHECKED BY: DO
DATE: SEPT. 2004
SCALE: AS NOTED
JOB NO.
DWG: DMG-Revised for Adequacy Response 4-1-05
SHEET: 1 OF 7

Permit #: M-2004-078 Confidential?: NO
Class: Permit Type-Seq.:
From: Civil Resources To: DMG
Doc. Name: Map 1 of 7
Doc. Date (if no date stamp): 4-18-2005

SCANNED
RECEIVED
APR 18 2005

RECLAIM AS UPLAND
AREA = 1.2 AC.

E1/4 COR., SEC.18

S1/16 COR., SEC. 18

EAST LINE SE1/4, SEC. 18

15' TELCO EASEMENT

SE COR., SEC.18

PROPOSED 120' ROW

WELD COUNTY ROAD 27

30' ROW

30' ROW

APPROXIMATE CL LOCATION OF THE McCANNE DITCH

E1/4 COR., SEC.19

SE COR., SEC.19

37' SETBACK

37' SETBACK

37' SETBACK

37' SETBACK

PROPOSED 100' ROW

15' GRAVEL MAINTENANCE ROAD

PREMIER ASPHALT BATCH PLANT AREA = 4.7 AC.

25' SETBACK

25' SETBACK

25' SETBACK

10' UNITED POWER EASEMENT

ELECTRIC EASEMENT 37.5' EACH SIDE

50' SETBACK

PROPOSED 100' ROW

14,800 L.F.

PERIMETER FENCE ALONG ALL PROPERTY LINES (TYP.)

4:1 (TYP) RECLAIMED RESERVOIR SIDESLOPES

POND 2
AREA = 175.0 AC.

RECLAIM AS UPLAND

RECLAIM AS UPLAND

50' GASLINE EASEMENT

GAS WELL

90' SETBACK

4:1 (TYP) RECLAIMED RESERVOIR SIDESLOPES

4:1 (TYP) RECLAIMED RESERVOIR SIDESLOPES

50' PANHANDLE NON-EXCLUSIVE PIPELINE EASEMENT

PROPOSED 100' ROW

9,000 L.F.

65' SETBACK

122' SETBACK

37' SETBACK

GAS WELL

90' GAS WELL SETBACK

10'

33' ROW

30' ROW

APPROX CL OF McCANNE DITCH

WELD COUNTY ROAD 6

30' ROW

30' ROW

22' SETBACK

POND 1
AREA = 82.5 AC.

4:1 (TYP) RECLAIMED RESERVOIR SIDESLOPES

FUTURE PUMP STATION LOCATION

15' GRAVEL ROAD

4:1 (TYP) RECLAIMED RESERVOIR SIDESLOPES

WELD COUNTY ROAD 2

37' SETBACK

S1/4 COR., SEC.18

37' SETBACK

15' GRAVEL ROAD

PERIMETER FENCE ALONG ALL PROPERTY LINES (TYP.)

RECLAIM AS UPLAND

RECLAIM AS UPLAND

24' ALLOWABLE ACCESS

37' SETBACK

37' SETBACK

HIGHWAY 85

APPROXIMATE CL LOCATION OF OGILVIE SEEPAGE DITCH

C1/4 COR., SEC.18

WEST LINE SE1/4, SEC.18

NO ACCESS EASEMENT

APPROXIMATE CL LOCATION OF PORTER SEEPAGE DITCH

15' GRAVEL ROAD

S1/4 COR., SEC.18

RIVER INLET/OUTLET STRUCTURE

INLET/OUTLET PIPELINE ALIGNMENT

SOUTH PLATTE RIVER

North

0 150' 300' 600'

SCALE: 1"=300'

NOTE:

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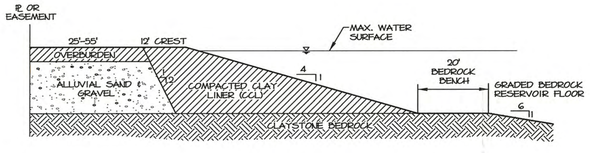
THESE MAPS WERE PREPARED BY CIVIL RESOURCES, LLC. IN COOPERATION WITH SW TKO JOINT VENTURE, LLC. SW TKO JOINT VENTURE, LLC. WILL KEEP THE DIVISION OF MINERALS AND GEOLOGY INFORMED OF ANY CHANGES TO THE MINING OR RECLAMATION PLANS THROUGH ANNUAL REPORTS AND FILE TECHNICAL REVISIONS AND AMENDMENT APPLICATIONS AS NECESSARY THROUGHOUT THE LIFE OF THE MINE.

for DANNA ORTIZ
CIVIL RESOURCES, LLC.

4.15.05
DATE



OPEN LAKE RECLAMATION DETAIL
NOT TO SCALE

NOTES:

1. TREES AND SHRUBS SHOWN SCREENED BACK ON THIS PLAN ARE TO BE PLANTED AT THE TIME OF MINING IN ORDER TO SCREEN THE MINING FROM ADJACENT ROADS AND PROPERTIES. REFER TO THE RECLAMATION LANDSCAPE PLAN FOR MORE INFORMATION REGARDING THE PLANTS PROPOSED AT THE TIME OF RECLAMATION.
2. PRIOR TO CONSTRUCTION ALL UTILITY, GAS WELL, OIL WELL, & WATER WELL LOCATIONS MUST BE VERIFIED.
3. IRRIGATION SHALL BE INSTALLED PRIOR TO PLANTING.
4. ALL DISTURBED AREAS SHALL BE SEEDED WITH THE SPECIFIED SEED MIX IMMEDIATELY AFTER MINING IS COMPLETE FOR EACH PHASE, BETWEEN LATE SEPTEMBER AND MID-APRIL.
5. THE SITE SHALL BE MINED AND RECLAIMED CONCURRENTLY. THE MINER SHALL RESTORE THE TOP OF THE MINING PHASE TO RECLAMATION CONDITION AS SOON AS MINING IS COMPLETED IN A PHASE.
6. THE OPERATOR MAY NOT MINE POND 2 BELOW GROUNDWATER UNTIL POND 1 IS RECLAIMED TO ABOVE THE GROUNDWATER LEVEL.
7. THE APPLICANT MUST BEGIN CONSTRUCTING THE SLOPE LINER AS SOON TWO PHASES HAVE BEEN COMPLETELY MINED OUT TO BEDROCK BY THE MINER.
8. THE MAXIMUM UNLINED RESERVOIR PERIMETER THAT MAY BE DISTURBED AT ANY GIVEN TIME WILL BE 6,000 LINEAR FEET.

LEGEND:

	PERMIT BOUNDARY		EXISTING TREE
	EXISTING WATER		EXISTING STRUCTURES
4840	EXISTING 1' CONTOURS		TOP OF GRADE OF RECLAIMED PONDS
Ø	EXISTING POWER POLE		GRAVEL ACCESS ROAD
E	EXISTING OVERHEAD POWER		UPLAND
G	EXISTING GAS LINE		EVERGREEN TREES
	GAS MARKER		DECIDUOUS TREES
	PETROLEUM WELL		LARGE SHRUBS
	GAS/OIL EQUIPMENT		SMALL SHRUBS
	TELEPHONE PEDESTAL		
X	FENCE		

NO.	REVISIONS DESCRIPTION	DATE	BY
1	REVISIONS PER SW TKO	11/9/04	AR
2	NAME CHANGE PER DMG	12/20/04	DF
3	PERMIT NO. CHANGE PER DMG	1/27/05	DF
4	WETLAND NOTE (#5) ADDED	1/27/05	DF
5	FT LUPTON SPECIAL USE	3/24/05	SR
6	DMG ADEQUACY REVIEW	3/28/05	KF
7	ADEQUACY REVIEW/NAME CORR	4/8/05	KF
8	ADEQUACY RESPONSE	4/15/05	KF

LUPTON LAKES RESOURCE, FT. LUPTON SPECIAL USE PERMIT AND MLRB 112 RECLAMATION PERMIT M-2004-078

RECLAMATION PLAN

SW TKO JOINT VENTURE, LLC

CIVIL RESOURCES, LLC
451 Oak Street, Suite 209
P.O. Box 680 Frederick, CO 80530
303 833 1416 (p) 303 833 2850 (f)

DESIGNED BY: DO
DRAWN BY: ARR/SR
CHECKED BY: DO
DATE: SEPT. 2004
SCALE: AS NOTED
JOB NO.
DWG: DMG-Revised for Adequacy Response 4-1-05
SHEET: 6 OF 7

Permit #: M-2004-078 Confidental?: N
Class: New Permit Type-Seq.:
From: Civil Resources To: DMG
Doc. Name: Reclamation Plan Map - 6 of 7
Doc. Date (if no date stamp): 4-18-05

RECEIVED
APR 18 2005