



WYOMING GAME AND FISH DEPARTMENT

5400 Bishop Blvd. Cheyenne, WY 82006

Phone: (307) 777-4600 Fax: (307) 777-4610

Web site: <http://gf.state.wy.us>

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June 8, 2010

TFN 5 3/143

MEMORANDUM

TO: Matt Fry, Mary Flanderka

FROM: Scott Smith

COPY TO: Jill Miller, Gary Butler, John Emmerich, Dean Clause, Bernie Holz, File

SUBJECT: Bousman/McMurray Proposed Gravel Pit

Attached is a second version of GIS analysis completed by Jill Miller for the proposed Bousman/McMurray gravel pit. This version has a smaller analysis area (67,236 acres) and 5 % threshold (3,362 acres) as the analysis area was reduced to match only mapped core sage grouse habitat. The first version used the entire 4 mile buffers regardless of core habitat designation. This GIS analysis also excluded state highways (60 foot buffer each side of roadway), county roads (30 foot buffer each side of roadway), and subdivisions (4 acre exclusion for building envelope). Home sites within subdivisions were buffered by 4 acres to account for permanent habitat loss from human development. Entire private parcels were not excluded as these two subdivisions are large tract (35-40 acres) developments and located within 300 yards of sagebrush habitat of 15% canopy cover. Listed below are the acreage totals from the analysis:

Vegetation Treatments: 1,755 Acres
State Highway/County Roads: 199 Acres
Private Home Sites: 60 Acres
Other Disturbances: 236 Acres
Proposed Gravel Pit: 345 Acres

Total Disturbance: 2,595 Acres
5% Threshold: 3,362 Acres

Based on the revised analysis, the 5% disturbance threshold for core sage grouse habitat has not been exceeded by this proposed project.

Sage Grouse 5% Disturbance Analysis May 2010 Proposed Gravel Pit

