

The Study shall address the short-term, long-term and cumulative effects of natural gas exploration and production in the Marcellus shale, best practices, and appropriate changes, if any, to the laws or regulations concerning oil and gas; including the following:

E.O. Item	Addressed in BP report?	To be completed by
a. the risk of contamination of groundwater and surface water by fracturing fluids and gas.	Partially	Risk assessment
b. the risks of contamination of, or negative impacts to, water and other natural resources from the transportation, storage, and handling of liquids, including fracturing fluids;	Partially	Risk assessment
c. the risks of contamination or negative impacts to water and other natural resources from the handling and disposal of flow back and other wastewater and wastes;	Partially	Risk assessment
d. the water resources required to support hydraulic fracturing activities and the availability of water resources to meet that need;	Yes	
e. forest and habitat fragmentation and other environmental impacts due to the construction of drilling platforms, gathering lines, transmission pipelines, and other necessary infrastructure;	Yes	
f. well spacing;	Yes	
g. greenhouse gas emissions from exploration wells, production wells and transmission lines;	Partially	Collect data from available sources and analyze
h. the risks of traffic accidents and damage to roads and bridges from truck traffic related to drilling operations;	Partially	Work with County Roads and Maryland State Police
i. impacts to local land use patterns and the character of rural areas and towns;	Partially	MDP to assist

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j. the capabilities of local emergency response agencies and the need for additional training;	Partially	Research and summarize; formulate recommendation, if appropriate
k. impacts to state resource and recreation lands;	Yes	
l. the projected positive and negative economic impact of hydraulic fracturing activities to the region and the State;	No	RESI study
m. methods for disposal of flow back and other wastewater and wastes containing radioactive materials;	Yes	
n. the appropriate type and amount of insurance and bonding ;	Addressed by 2013 law	
o. the appropriate scope of the environmental assessment required before permit issuance;	Partially	MDE's Science Services Administration to redraft scope
p. best practices for all aspects of gas exploration and production in the Marcellus shale in Maryland;	Yes	Could be revisited in connection with the risk assessment
q. appropriate changes, if any, to the laws or regulations concerning oil and gas; and	Partially	Surface owners protection act State-level severance tax
r. any other issues jointly agreed upon by the Secretaries of the Departments: Public health	No	DHMH undertaking study