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PART 3/4

COMMISSION STAFF WORKING DOCUMENT

IMPACT ASSESSMENT

Accompanying the document

COMMUNICATION FROM THE COMMISSION TO THE EUROPEAN PARLIAMENT, THE COUNCIL, THE EUROPEAN ECONOMIC AND SOCIAL COMMITTEE AND THE COMMITTEE OF THE REGIONS

Exploration and production of hydrocarbons (such as shale gas) using high volume hydraulic fracturing in the EU

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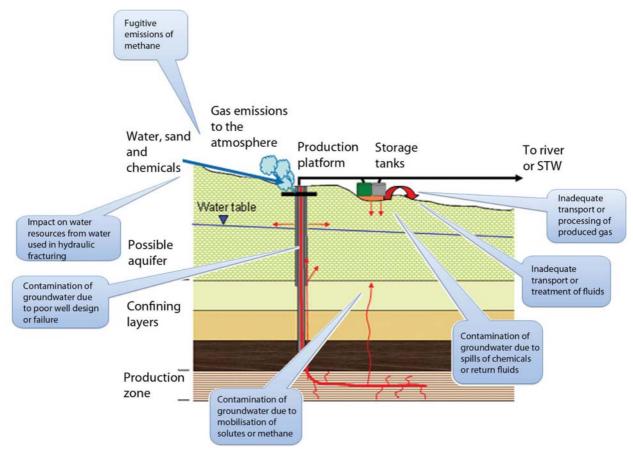
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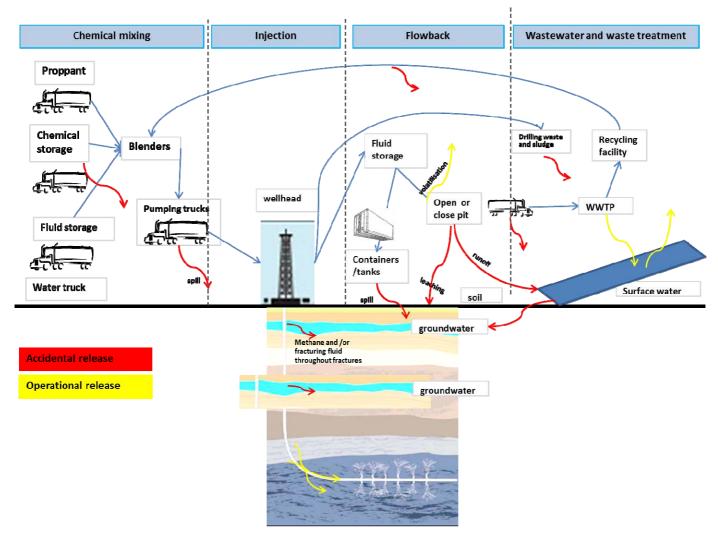
ANNEX 4. ENVIRONMENTAL IMPACT PATHWAYS

4.1 General impacts pathways



Source: Pollutant pathways associated with hydraulic fracturing. Source: Adapted from Environment Agency (England) (2013) © Environment Agency right

4.2 Chemicals' pathways

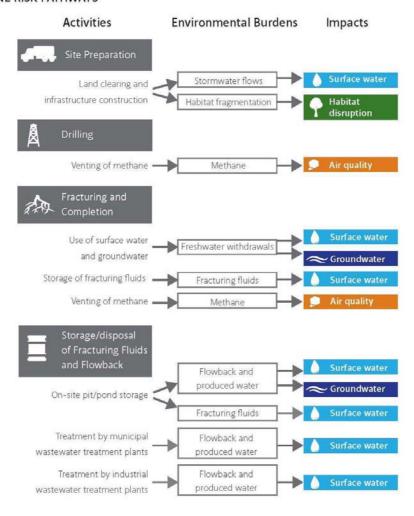


Source: "Spatially-resolved Assessment of Land and Water Use Scenarios for Shale Gas Development: Poland and Germany", JRC IES, forthcoming

4.3. RFF risks pathways

Source: RFF report, Pathways to Dialogue What the Experts Say about the Environmental Risks of Shale Gas Development, Alan Krupnick, Hal Gordon, and Sheila Olmstead, 2013 (accessible at: http://www.rff.org/Documents/RFF-Rpt-PathwaystoDialogue_FullReport.pdf)- RFF retains copyright on this figure.

ROUTINE RISK PATHWAYS



ADDITIONAL ROUTINE RISK PATHWAYS IDENTIFIED BY TOP EXPERTS

