

Animas and San Juan Rivers Exposure and Risk Dashboard May 19, 2017

<u>Risk Levels</u> – This dashboard addresses potential contaminant exposure pathways and risks for the Animas and San Juan River corridors in New Mexico, with emphasis on issues related to the August 5, 2015 Gold King Mine (GKM) spill. This evaluation will be updated in the future, as necessary, if new data becomes available. For more information, including handouts on topics noted below, please visit <u>www.NMEDRiverWaterSafety.org</u>.

Safe	Use Caution	Unsafe

Potential	Risk	
Exposure	Level	Explanation
Pathway		
Public Drinking Water Supplies		Public drinking water supplies are subject to multiple protective requirements of the federal Safe Drinking Water Act (SDWA) and, with one exception, are presently safe for all uses. These requirements include: infrastructure construction standards; solids settling and treatment; disinfection; treated water testing; and New Mexico Environment Department (NMED) inspections. The Harvest Gold water system remains on a boil water advisory for reasons unrelated to the GKM spill. For more information on public drinking water systems, please visit the <u>Drinking</u> <u>Water Watch website</u> .
Private Domestic Wells		Private domestic wells are not subject to the protective requirements of the federal SDWA. Many private wells were not constructed in a sanitary manner or have deteriorated as the well has aged. These wells are at risk of contamination by bacteria, parasites, or viruses. See <u>Fact Sheet on</u> <u>disinfecting a domestic well with shock chlorination</u> . High levels of manganese, iron, sulfate, and total dissolved solids existed in some wells prior to the Gold King Mine (GKM) spill. Elevated lead has been detected in private water systems that have galvanized steel plumbing components or lead solder. Following the GKM spill NMED tested more than 600 private domestic water wells in San Juan County, NM. There is no evidence that the GKM spill contaminated any water wells in New Mexico. NMED and the N.M. Bureau of Geology continue to monitor private domestic wells for evidence of mining and milling contamination.
River Water for Domestic Supply		Untreated river water should never be used for domestic supply, even if there are not visible signs of contamination. When untreated water is consumed from surface sources there is a risk of ingesting harmful bacteria, parasites, or viruses. Untreated river water also may contain high levels of lead and arsenic when spring runoff or storm events stir up contaminated river sediments.
Water Hauling		If you haul water for drinking and cooking, it is recommended that you use commercial bottled water, or obtain water from a public water supply system. Hauling untreated water from a ditch, river, lake, spring or private well is not recommended. See <u>Fact Sheet on safe water hauling practices</u> .

River Water	River water presently complies with all standards for irrigated agriculture,
for	and should be safe for irrigation of all crops. See the Fact Sheet on
Irrigation	agricultural uses of water.
ingution	Preliminary testing of crops by New Mexico State University shows safe
	Freining view of the second state of the secon
Crops	levels of neavy metals. Crops will continue be tested during the 2017
	growing season to monitor safety for consumption by humans and livestock.
River Water	River water presently complies with all standards for livestock watering.
for	See the <u>Fact Sheet on agricultural uses of water</u> .
Livestock	
	The New Mexico State Veterinarian New Mexico Department of Agriculture
	Veterinary Diagnostic Laboratory, and local veterinarians are on the alert for
Livestock	veterinary Diagnostic Laboratory, and local veterinarians are on the alert for
	any signs of unusual animal distress or illness that could result from the
	GKM spill or other mining and milling contamination.
	NMED is monitoring sediment contamination in New Mexico to identify any
	hot spots that exceed residential risk screening levels for lead and other
River and	metals. The residents of San Juan County can be the eyes and ears for
Ditch	NMED in the field. Anyone who sees discolored or contaminated soil should
Codimont	notify NMED immediately by calling 1-800-219-6157. If you are comfortable
Sealment	doing so, you may pick up a sampling kit from the NMED Farmington Office
	located at 3400 Messina Dr. (505) 566-9741 to safely collect a sediment
	sample that will be tested by NMED
	Fich tissue testing by the New Mexico Department of Game and Fish has not
	identified any beauty metal contamination attributable to the CKM chill
	Identified any fleavy filetal containination attributable to the GKW spin.
	Elevated mercury and DDT were known to exist in fish tissue from some
	water bodies in San Juan County long before the GKM spill. Mercury is
Fish	believed to originate largely from the burning of coal. DDT was banned as
	an insecticide in the United States in 1972, but is persistent in the
	environment. The "Quality Waters" of the San Juan River below Navajo
	Lake are located upstream from the confluence with the Animas River and
	were not affected by the GKM spill or by other mining and milling waste
	discharges into the Animas River. NMED has issued Fish Consumption
	Advisories for mercury and PCBs in Lake Farmington, and for mercury in
	Navajo Reservoir.
	Mining and milling contaminants do not presently pose hazards to people
	enjoying water sports, fishing and other recreational activities in and near
Pogractional	the Animas and San Juan Rivers in New Mexico. However, both rivers may
Recreational	contain bacteria parasites or viruses which could nose a health bazard to
Activities	neonle who come into contact with river water. It is recommended that
	people who come into contact with river water. It is recommended that
	people wash thoroughly after going in the river and avoid swallowing river
	water when swimming or doing water sports.