

Appendix A

ATTAINs - Compatible Probable Source List, Descriptions, and GIS Related Data Sources

APPENDIX A - PROBABLE SOURCES			
Source Group Name (EPA ATTAINs)	Source Name (EPA ATTAINs and SQUID)	Source Description (EPA ATTAINs -- references have not been updated since EPA created the list ~2009)	Relevant_GIS_Data_Source(s)
AGRICULTURE	Aquaculture (permitted)	EPA IS CONSIDERING RULEMAKING FOR TYPES OF AQUATIC ANIMAL PRODUCTION (FISH, SHELLFISH OR OTHER AQUATIC ANIMALS) WHERE RELEASES OF WATER FROM PONDS USE FOR AQUACULTURE INTO RECEIVING WATERS COULD LEAD TO USE IMPAIRMENTS. SIC INDUSTRY 02743: ANIMAL AQUACULTURE. SEE BACKGROUND IN EPA EXPANDS FOCUS ON NUTRIENT POLLUTION (EPA-833-F-00-002) <HTTP://WWW.EPA.GOV/OST/GUIDE/AQUACULTURE/FACTSHEET.HTML>	
AGRICULTURE	Animal Feeding Operations (NPS)	POLLUTION FROM SUPPLEMENTAL FEEDING OF LIVESTOCK, INCLUDING SMALLER OPERATIONS THAT MAY NOT REQUIRE PERMITS. SEE BACKGROUND INFORMATION IN THE USDA/EPA - UNIFIED NATIONAL STRATEGY FOR ANIMAL FEEDING OPERATIONS, MARCH 9, 1999 <HTTP://WWW.EPA.GOV/OWM/FINAFOST.HTML>; CZARA MANAGEMENT MEASURES (EPA-840-B-92-002B).	NMED GWQB Dairy Permits Data Layer
AGRICULTURE	Animal Shows And Racetracks	FOR PERIOD OF TIME, ANIMAL SHOWS (E.G., FAIRS) AND RACE TRACKS CAN GENERATE AMOUNTS OF ANIMAL WASTES COMPARABLE TO FEEDLOTS. CAN BE VIEWED AS FALLING UNDER SIC GROUP 02: AGRICULTURAL PRODUCTION - LIVESTOCK AND ANIMAL SPECIALTIES AND/OR SIC GROUP 79: AMUSEMENT AND RECREATION SERVICES. CZARA MANAGEMENT MEASURES (EPA-840-B-92-002B) FOR AGRICULTURE OFTEN RELEVANT. SEE ALSO USDA/EPA - UNIFIED NATIONAL STRATEGY FOR ANIMAL FEEDING OPERATIONS, MARCH 9, 1999 <HTTP://WWW.EPA.GOV/OWM/FINAFOST.HTML>	Multiple Date Visual Image Analysis (eg. NAIP, Google Earth)
AGRICULTURE	Confined Animal Feeding Operations - Cafos (Point Source)	https://www.epa.gov/npdes/npdes-cafos-regulatory-documents	EPA CAFO Per County Data Layer (https://catalog.data.gov/dataset/concentrated-animal-feeding-operations-cafos-per-county-downloadable-package-us-2013-us-epa)
AGRICULTURE	Crop Production (Crop Land Or Dry Land)	CROP PRODUCTION (CROP LAND OR DRY LAND). INSUFFICIENT INFORMATION EXISTS TO IDENTIFY A PARTICULAR TYPE OF CROP PRODUCTION. CAN INCLUDE ANY TYPE OF FARMING AREA PLANTED IN CROPLAND.	USDA CropScape Cropland Data Layer (https://www.nass.usda.gov/Research_and_Science/Cropland/SAR51a.php); National Land Cover Database (https://www.mrlc.gov/data)
AGRICULTURE	Crop Production (Irrigated)	CROP PRODUCTION (CROP LAND OR DRY LAND). INSUFFICIENT INFORMATION EXISTS TO IDENTIFY A PARTICULAR TYPE OF CROP PRODUCTION. CAN INCLUDE ANY TYPE OF FARMING AREA PLANTED IN CROPLAND.	USDA CropScape Cropland Data Layer (https://www.nass.usda.gov/Research_and_Science/Cropland/SAR51a.php); National Land Cover Database (https://www.mrlc.gov/data)
AGRICULTURE	Grazing in Riparian or Shoreline Zones	LIVESTOCK PRODUCTION USING RELATIVELY UNMANAGED GRASSLANDS IN PROXIMITY TO RIPARIAN ZONES OR SHORELINES. SEE SECTIONS IN CZARA MANAGEMENT MEASURE GUIDANCE (EPA-840-B-92-002B); PROFILE OF THE AGRICULTURAL CROP PRODUCTION INDUSTRY (EPA/310-R-00-001)	BLM Grazing Allotment Pastures Data Layer (https://www.nrm.blm.gov/shapefiles/state_wide/spatial_data_metadata.html); USFS Grazing Allotment Data Layer (https://data.fs.usda.gov/geodata/edw/datasets.php)
AGRICULTURE	Livestock (Grazing Or Feeding Operations)	LIVESTOCK (GRAZING OR FEEDING OPERATIONS). INSUFFICIENT INFORMATION EXISTS TO SPECIFICALLY IDENTIFY A PARTICULAR TYPE OF ANIMAL FEEDING OPERATION. INCLUDES GRAZING AND UNPERMITTED ANIMAL FEEDING OPERATIONS. ALSO INCLUDES CAFOS UNTIL A PERMITTED FACILITY IS IDENTIFIED.	New Mexico FAO Cattle, Chicken, Duck, Goat, Pig, and Sheep Density Data Layers (http://rgis.unm.edu/); BLM Grazing Allotment Pastures Data Layer (https://www.nrm.blm.gov/shapefiles/state_wide/spatial_data_metadata.html); USFS Grazing Allotment Data Layer (https://data.fs.usda.gov/geodata/edw/datasets.php)
AGRICULTURE	Rangeland Grazing	LIVESTOCK PRODUCTION USING RELATIVELY UNMANAGED GRASSLANDS NOT ORDINARILY MOWN FOR HAY. SEE SECTIONS IN CZARA MANAGEMENT MEASURE GUIDANCE (EPA-840-B-92-002B); PROFILE OF THE AGRICULTURAL CROP PRODUCTION INDUSTRY (EPA/310-R-00-001)	BLM Grazing Allotment Pastures Data Layer (https://www.nrm.blm.gov/shapefiles/state_wide/spatial_data_metadata.html); USFS Grazing Allotment Data Layer (https://data.fs.usda.gov/geodata/edw/datasets.php)
CONSTRUCTION	Construction Stormwater Discharge (Permitted)	NPDES PROVISIONS UNDER NEW PHASE II STORM WATER PERMITTING (EPA-833/F-00-001); DESCRIPTIONS INCLUDING NONPOINT SOURCE POLLUTION ASPECTS IN CZARA MANAGEMENT MEASURE GUIDANCE (EPA-840-B-92-002B) OR IN TECHNICAL INFORMATION FROM THE NATIONWIDE URBAN RUNOFF PROGRAM (EPA-841-S-83-109).	NMED SWQB NPDES Permits Data Layer
CONSTRUCTION	Highways, Roads, Bridges, Infrastructure (New Construction)	NEW CONSTRUCTION INVOLVING INFRASTRUCTURE (ROADS, BRIDGES, PIPELINES, ETC.) OR BUILDINGS. SIC GROUP 16: HEAVY CONSTRUCTION; ALSO GROUP 15: BUILDING CONSTRUCTION. RELEVANT INFORMATION IN CZARA MANAGEMENT MEASURE GUIDANCE (EPA-840-B-92-002B). VARIOUS ASPECTS OF CONSTRUCTION ACTIVITIES NOW REGULATED UNDER THE PHASE II STORMWATER REGULATIONS -- SEE STORM WATER PHASE II FINAL RULE: AN OVERVIEW (EPA-833/F-00-001) <HTTP://WWW.EPA.GOV/NPDES/PUBS/FACT1-0.PDF>	NM DOT Projects Website
CONSTRUCTION	Site Clearance (Land Development Or Redevelopment)	CAN INVOLVE NEW CONSTRUCTION OR REDEVELOPMENT (INFILLING) IN EXISTING URBANIZED AREAS. CAN ALSO INVOLVE INDUSTRIAL PARKS OR OTHER CONSTRUCTION OUTSIDE MUNICIPAL BOUNDARIES. VARIOUS ACTIVITIES UNDER SIC DIVISION C: CONSTRUCTION. RELEVANT INFORMATION IN CZARA MANAGEMENT MEASURE GUIDANCE (EPA-840-B-92-002B). VARIOUS ASPECTS OF CONSTRUCTION ACTIVITIES NOW REGULATED UNDER THE PHASE II STORMWATER REGULATIONS -- SEE STORM WATER PHASE II FINAL RULE: AN OVERVIEW (EPA-833/F-00-001) <HTTP://WWW.EPA.GOV/NPDES/PUBS/FACT1-0.PDF>	Multiple Date Visual Image Analysis (eg. NAIP, Google Earth); National Land Cover Database (https://www.mrlc.gov/data)
HABITAT ALTERATIONS (NOT DIRECTLY RELATED TO HYDROMODIFICATION)	Habitat Modification - Other Than Hydromodification	HABITAT MODIFICATION - OTHER THAN HYDROMODIFICATION. HABITAT MODIFICATION HAS TAKEN PLACE, BUT A MORE SPECIFIC TYPE OF HABITAT MODIFICATION COULD NOT BE IDENTIFIED.	Multiple Date Visual Image Analysis (eg. NAIP, Google Earth)
HABITAT ALTERATIONS (NOT DIRECTLY RELATED TO HYDROMODIFICATION)	Loss Of Riparian Habitat	IMPACTS FROM REMOVAL OF RIPARIAN HABITAT (VEGETATION, SNAGS, UNDERCUT BANKS, AND SO FORTH). SEE BACKGROUND INFORMATION IN STREAM CORRIDOR RESTORATION: PRINCIPLES, PROCESSES, AND PRACTICES. BY THE FEDERAL INTERAGENCY STREAM RESTORATION WORKING GROUP (FSRWG) A 57.6/2-EN 3/PT.653; CZARA MANAGEMENT MEASURE GUIDANCE (EPA-840-B-92-002B).	Multiple Date Visual Image Analysis (eg. NAIP, Google Earth)
HYDROLOGIC ALTERATION	Agricultural return flows		USDA CropScape Cropland Data Layer (https://www.nass.usda.gov/Research_and_Science/Cropland/SAR51a.php); National Land Cover Database (https://www.mrlc.gov/data)
HYDROLOGIC ALTERATION	Baseflow Depletion From Groundwater Withdrawals	ONE CONSEQUENCE OF OVER-DRAFTING (OVER-PUMPING) OF ALLUVIAL OR OTHER AQUIFERS THAT PROVIDE BASEFLOW TO STREAMS. SEE BACKGROUND INFORMATION IN SAFE DRINKING WATER ACT, SECTION 1429 GROUND WATER REPORT TO CONGRESS (EPA-816-R-99-016).	USGS NWIS Groundwater Data Layer (https://maps.waterdata.usgs.gov/mapper/index.html); NWBGR Aquifer Mapping Project Data Layer (https://maps.nmt.edu/)
HYDROLOGIC ALTERATION	Channel erosion/incision from upstream hydromodifications	IMPACTS IN PATTERNS IN CHANNEL INCISION/EROSION RELATED TO CONSTRUCTION OF UPSTREAM DAMS. SEE BACKGROUND INFORMATION IN STREAM CORRIDOR RESTORATION: PRINCIPLES, PROCESSES, AND PRACTICES. BY THE FEDERAL INTERAGENCY STREAM RESTORATION WORKING GROUP (FSRWG) A 57.6/2-EN 3/PT.653.	
HYDROLOGIC ALTERATION	Channelization	IMPACTS RESULTING FROM STRAIGHTENING, DREDGING, AND THE ENTRENCHMENT WITHIN LEVEES OR PILOT CHANNELS OF NATURAL RIVER SYSTEMS. SEE BACKGROUND INFORMATION IN STREAM CORRIDOR RESTORATION: PRINCIPLES, PROCESSES, AND PRACTICES. BY THE FEDERAL INTERAGENCY STREAM RESTORATION WORKING GROUP (FSRWG) A 57.6/2-EN 3/PT.653; CZARA MANAGEMENT MEASURE GUIDANCE (EPA-840-B-92002B).	Multiple Date Visual Image Analysis (eg. NAIP, Google Earth)
HYDROLOGIC ALTERATION	Dam Or Impoundment	DAM OR IMPOUNDMENT. AN EXISTING STRUCTURE (NOT CONSTRUCTION), EITHER UPSTREAM OR DOWNSTREAM OF THE IMPAIRMENT.	NHD High Resolution Data Layers (https://viewer.nationalmap.gov/basic/); Multiple Date Visual Image Analysis (eg. NAIP, Google Earth)
HYDROLOGIC ALTERATION	Dredging	ALTERATIONS IN RIVER OR HARBOR CHANNELS, USUALLY TO IMPROVE SYSTEM FOR NAVIGATION. WHERE DREDGE MATERIALS CONTAINS POLLUTANTS (CONTAMINATED SEDIMENTS), OR WHERE LOSS OF WETLANDS IS INVOLVED, CWA SECTION 404 PERMITTING OR PROCESSES UNDER CERCLA PROVISIONS MAY APPLY. SEE BACKGROUND INFORMATION IN THE DREDGING PROCESS IN THE UNITED STATES (U.S. DOT 1994) <HTTP://WWW.EPA.GOV/OVOW/OCEANS/NDT/REPORT.HTML>	USACE Regional Sediment Mapper Online Mapper (https://usace.maps.arcgis.com/apps/webappviewer/index.html?id=a1b67c6f4d3f49139dce4ca7c17e1bb)
HYDROLOGIC ALTERATION	Dredging (E.G., For Navigation Channels)	ALTERATIONS IN RIVER OR HARBOR CHANNELS, USUALLY TO IMPROVE SYSTEM FOR NAVIGATION. WHERE DREDGE MATERIALS CONTAINS POLLUTANTS (CONTAMINATED SEDIMENTS), OR WHERE LOSS OF WETLANDS IS INVOLVED, CWA SECTION 404 PERMITTING OR PROCESSES UNDER CERCLA PROVISIONS MAY APPLY. SEE BACKGROUND INFORMATION IN THE DREDGING PROCESS IN THE UNITED STATES (U.S. DOT 1994) <HTTP://WWW.EPA.GOV/OVOW/OCEANS/NDT/REPORT.HTML>	USACE Regional Sediment Mapper Online Mapper (https://usace.maps.arcgis.com/apps/webappviewer/index.html?id=a1b67c6f4d3f49139dce4ca7c17e1bb)
HYDROLOGIC ALTERATION	Streambank Modifications/Destabilization	IMPACTS -- OFTEN DOWNSTREAM OF SITE WITH THE INITIAL DISTURBANCES -- FROM DESTABILIZATION OF STREAMBANKS OR OTHER MODIFICATIONS SUCH AS RIP-RAPPING. SEE BACKGROUND INFORMATION IN STREAM CORRIDOR RESTORATION: PRINCIPLES, PROCESSES, AND PRACTICES. BY THE FEDERAL INTERAGENCY STREAM RESTORATION WORKING GROUP (FSRWG) A 57.6/2-EN 3/PT.653; CZARA MANAGEMENT MEASURE GUIDANCE (EPA-840-B-92-002B).	Multiple Date Visual Image Analysis (eg. NAIP, Google Earth)

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Source Group Name (EPA ATTAINS)	Source Name (EPA ATTAINS and SQUID)	Source Description (EPA ATTAINS -- references have not been updated since EPA created the list -2000)	Relevant_GIS_Data_Source(s)
HYDROLOGIC ALTERATION	Water Diversions		Multiple Date Visual Image Analysis (eg. NAIP, Google Earth)
INDUSTRIAL	CERCLA/NPL (Superfund sites)	POLLUTION RELATED TO RELEASES OR DISCHARGES FROM WASTE SITES ON THE CERCLA (SUPERFUND) NATIONAL PRIORITY LIST (NPL). SEE BACKGROUND INFORMATION IN -- GROUND WATER CLEANUP AT SUPERFUND SITES (EPA540-R-95-008); PRESUMPTIVE REMEDY FOR CERCLA MUNICIPAL LANDFILL SITES (EPA 540-F-93-035); REPORTING REQUIREMENTS FOR CONTINUOUS RELEASES OF HAZARDOUS SUBSTANCES (EPA 540-R-97-047).	NOAA Superfund Site Data Layer (https://catalog.data.gov/dataset/superfund-sites1e8f4); EPA Superfund Site Online Mapper (https://epa.maps.arcgis.com/apps/webappviewer/index.html?id=33cbeccdfdd1b4c3a8b51d41695641f1a)
INDUSTRIAL	Industrial Point Source Discharge	END-OF-PIPE NPDES PERMITTING FOR DISCHARGES OTHER THAN PUBLICLY OWNED TREATMENT WORKS (POTWS -- OR "MUNICIPAL" DISCHARGERS). SEE EFFLUENT GUIDELINES FOR CERTAIN INDUSTRIAL GROUPS IN 40 CFR -- SUBCHAPTER R -- EFFLUENT GUIDELINES AND STANDARDS. ADDITIONAL BACKGROUND INFORMATION IN INDUSTRIAL USER PERMITTING GUIDANCE MANUAL (EPA-833/R-89-001); NPDES PERMIT WRITER'S MANUAL (EPAB33-B-96-003)	NMED SWQB NPDES Permits Data Layer
INDUSTRIAL	Mill Tailings	POLLUTION FROM RESIDUES SEPARATED OUT DURING THE PROCESSING OF MINERAL ORES AT A MILLING FACILITY WHERE THE RAW ORES ARE CRUSHED. MILL TAILINGS ARE NOT ALWAYS FOUND IN PROXIMITY TO THE SITES FORM WHICH THE RAW ORES WERE EXTRACTED IF THE ORES ARE VALUABLE ENOUGH TO TRANSPORT TO SPECIAL MILLING SITES. FOR INSTANCE, URANIUM ORES ARE OFTEN PROCESSED AT SPECIAL MILLING SITES. THE PHYSICAL AND CHEMICAL NATURE OF MILL TAILINGS ARE DERIVED FROM A SLURRY OF FINE-GRAINED ROCK MATERIAL AND PROCESS WATER AS ORE-BEARING MATERIALS ARE SEPARATED FROM THE MINED ROCK USING FLOTATION TECHNIQUES. IN MODERN MINING OPERATIONS, LIQUID IS REMOVED FROM THE TAILINGS SLURRY IN THICKENERS, AND THE THICKENED TAILINGS ARE DISCHARGED TO TAILINGS IMPOUNDMENTS. SEE BACKGROUND INFORMATION FOR MILL TAILINGS PRODUCED IN URANIUM ORE PROCESSING IN EXTRACTION AND BENEFICIATION OF ORES AND MINERALS: VOLUME 5: URANIUM (EPA 530-R-94-032).	NMED SWQB NPDES Permits Data Layer; NM EMMRD Data Layers
INDUSTRIAL	Petroleum/Natural Gas Production Activities (Permitted)	POLLUTION RELATED TO PERMITTED ASPECTS OF PETROLEUM AND NATURAL GAS EXPLORATION/PRODUCTION. SIC GROUP 01-OIL AND GAS EXTRACTION. SEE BACKGROUND INFORMATION IN PROFILE OF THE OIL AND GAS EXTRACTION INDUSTRY (EPA/310-R-99-006).	NMEMNRD Data Layers
INDUSTRIAL	RCRA hazardous waste sites	POLLUTION RELEASES TO RECEIVING WATERS FROM RCRA TREATMENT STORAGE AND DISPOSAL FACILITIES (TSDFs). HANDBOOK OF GROUNDWATER PROTECTION AND CLEANUP POLICIES FOR RCRA CORRECTIVE ACTION (EPA530-F-01-021); MUNICIPAL SOLID WASTE GENERATION, RECYCLING AND DISPOSAL IN THE UNITED STATES: FACTS AND FIGURES FOR 1998; RCRA ORIENTATION MANUAL (EPA-530-R-98-004)	
LAND APPLICATION/WASTE SITES/TANKS	Landfills	POLLUTION FROM LEACHATES OR OTHER RELEASE FROM LANDFILLS. SEE BACKGROUND INFORMATION IN MUNICIPAL SOLID WASTE GENERATION (EPA-530-F-00-024); RCRA ORIENTATION MANUAL (EPA-530-R-98-004)	NMED SWB Data Layers
LAND APPLICATION/WASTE SITES/TANKS	Leaking Underground Storage Tanks	MOST COMMONLY GASOLINE LEAKS FROM FILLING STATION STORAGE TANKS WITH OLDER SINGLE-LINED TANKS. SAFE DRINKING WATER ACT, SECTION 1429 GROUND WATER REPORT TO CONGRESS (EPA-816-R-99-016); REPORT TO CONGRESS: COMPLIANCE PLAN FOR THE UNDERGROUND STORAGE TANK PROGRAM (EPA-510-R-00-001).	NMED PSTB Data Layers
LAND APPLICATION/WASTE SITES/TANKS	Pesticide Application	PESTICIDE APPLICATION (SUCH AS COPPER SULFATE) TO CONTROL NUISANCE ALGAE OR NON-NATIVE AQUATIC SPECIES	
MUNICIPAL DISCHARGES/SEWAGE	Municipal Point Source Discharges	POLLUTION INTRODUCED FROM END-OF-PIPE DISCHARGES FROM PUBLICLY OWNED TREATMENT WORKS (POTWS). SEE BACKGROUND INFORMATION IN (EPA 833-B-96-003)	NMED SWQB NPDES Permits Data Layer
MUNICIPAL DISCHARGES/SEWAGE	On-Site Treatment Systems (Septic Systems And Similar Decentralized Systems)	PROBLEMS FROM POORLY INSTALLED OR MAINTAINED ONSITE DOMESTIC WASTE TREATMENT SYSTEMS (SEPTIC SYSTEMS OR OTHER SMALL FLOWS DECENTRALIZED SYSTEMS). SEE BACKGROUND INFORMATION IN SAFE DRINKING WATER ACT, SECTION 1429 GROUND WATER REPORT TO CONGRESS (EPA-816-R-99-016); SMALL SYSTEMS MANUAL: WASTEWATER TREATMENT/DISPOSAL FOR SMALL COMMUNITIES (EPA-625/R-92-005); ONSITE/SEPTIC SYSTEMS DESIGN MANUAL: ONSITE WASTEWATER TREATMENT AND DISPOSAL SYSTEMS (EPA-625/L-80-012)	
MUNICIPAL DISCHARGES/SEWAGE	Septage Disposal	POLLUTION FROM SPILLS OR OTHER INAPPROPRIATE HANDLING OF SEPTAGE HAULED FROM DOMESTIC OR OTHER ONSITE TREATMENT SYSTEMS. SEE BACKGROUND INFORMATION IN ONSITE WASTEWATER TREATMENT AND DISPOSAL SYSTEMS (EPA-625/L-80-012); EPA NATIONAL SMALL FLOWS CLEARINGHOUSE < HTTP://WWW.NESC.WVU.EDU/NSFC/NSFC_INDEX.HTM >	
MUNICIPAL DISCHARGES/SEWAGE	Wet Weather Discharges (Point Source, MS4, CSO)	COMPLEX SITUATION INVOLVING COMBINATIONS OF RECEIVING WATER IMPACTS FROM POINT SOURCE END-OF-PIPE DISCHARGES AND NONPOINT CONTRIBUTIONS FROM CSOS, SSOs OR STORM SEWER INPUTS -- THIS COMBINED WITH OTHER DIFFUSE (NONPOINT SOURCE) WET WEATHER POLLUTANT LOADINGS.	NMED SWQB NPDES Permits Data Layer
NATURAL/WILDLIFE	Drought-Related Impacts	DROUGHT EPISODES, WHICH IN SOME CASES CAN LAST SEVERAL YEARS, CAN DEplete WATER SUPPLIES AND ACCENTUATE POLLUTION PROBLEMS AFFECTING HUMAN AND ECOLOGICAL HEALTH. SEE BACKGROUND INFORMATION IN FEMA (1996) -- FINDINGS OF THE MULTI-STATE DROUGHT TASK FORCE < HTTP://ENSO.UNL.EDU/NDMC/IMPACTS/FEMATF.HTM >	NIDIS Drought Data Layers (https://www.drought.gov/drought/search/data)
NATURAL/WILDLIFE	Natural Sources		
NATURAL/WILDLIFE	Waterfowl	POLLUTION IMPACTS (OFTEN PATHOGEN INDICATORS-RELATED) FROM WATERFOWL (E.G., DUCKS, GESE, SWANS, ETC.). SEE BACKGROUND INFORMATION IN PROTOCOL FOR DEVELOPING PATHOGEN TMDLS (EPA 841-R-00-002)	
NATURAL/WILDLIFE	Wildlife Other Than Waterfowl	POLLUTION IMPACTS (OFTEN PATHOGEN INDICATORS-RELATED) FROM WILDLIFE OTHER THAN WATERFOWL (E.G., DEER, RODENTS, ETC.). SEE BACKGROUND INFORMATION IN PROTOCOL FOR DEVELOPING PATHOGEN TMDLS (EPA 841-R-00-002)	
OTHER	Low Water Crossing	INSTANCES WHERE THERE IS A DIRT ROAD DIRECTLY CROSSING THROUGH THE STREAMBED. THESE ARE IN RURAL AREA AND THERE IS USUALLY NO PLANNING OR ENGINEERING DESIGNS INVOLVED.	NM DOT Roadways Data Layers
OTHER	Rural (Residential Areas)	RURAL (RESIDENTIAL AREAS). HOUSES AND SURROUNDING LAND DISTURBANCES CAUSE A WATER TO NOT MEET ITS USES	National Land Cover Database (https://www.mrlc.gov/data)
OTHER	Sources Outside State Jurisdiction or Borders		
OTHER	Unspecified unpaved road or trail	UNSPECIFIED UNPAVED ROAD OR TRAIL: IMPACTS RELATED TO RUNOFF OR DEVELOPMENT OF UNPAVED ROADS OR TRAILS.	NM DOT Roadways Data Layers; USFS Forest Systems Roads Data Layer (https://data.fs.usda.gov/geodata/edw/datasets.php)
RECREATION AND TOURISM (NON-BOATING)	Golf Courses	POLLUTION EFFECTS FROM OPERATION OF GOLF COURSE FACILITIES. SEE BACKGROUND INFORMATION IN CZARA MANAGEMENT MEASURE GUIDANCE (EPA-840-B-92-002B); A SOURCEBOOK FOR NATURAL LANDSCAPING FOR PUBLIC OFFICIALS. NORTHEASTERN ILLINOIS PLANNING COMMISSION FOR EPA GLNPO (1997)< HTTP://WWW.EPA.GOV/GLNPO/GREENACRES/TOOLKIT/INDEX.HTML >	Multiple Date Visual Image Analysis (eg. NAIP, Google Earth)
RECREATION AND TOURISM (NON-BOATING)	Off-Road Vehicles	POLLUTION EFFECTS FROM OFF-ROAD VEHICLES (ORVs) EITHER MAGNIFYING EROSION IN WATERSHED OR DAMAGE TO HABITATS WHEN ORVs ALLOWED IN RIPARIAN AREAS OR IN WATER COURSES. SEE BACKGROUND INFORMATION ON ORV CONCERNS FOR CANAAN VALLEY, WEST VIRGINIA, IN -- A PHASE 1 INVENTORY OF CURRENT EPA EFFORTS TO PROTECT ECOSYSTEMS (EPA-841-S-95-001) - CANAAN VALLEY, WV, MATERIALS AT < HTTP://WWW.EPA.GOV/ECOPLACES/PART2/REGIONS/SITE2.HTML >	Multiple Date Visual Image Analysis (eg. NAIP, Google Earth)
RECREATION AND TOURISM (NON-BOATING)	Other Recreational Pollution Sources	POLLUTION FROM OTHER RECREATIONAL-RELATED ACTIVITIES NOT COVERED UNDER RESORTS OR PUBLIC BATHING AREAS. COULD INCLUDE POLLUTION FROM HUMAN ACTIVITIES ON HIKING TRAILS.	
RESOURCE EXTRACTION	Acid Mine Drainage	LEGACY IMPACTS FROM INADEQUATELY RECLAIMED SURFACE OR UNDERGROUND MINING, OFTEN RELATED TO HISTORIC COAL MINING OPERATIONS. SEE BACKGROUND INFORMATION IN ACID MINE DRAINAGE PREDICTION (EPA 530-R-94-036).	NMED SWQB NPDES Permits Data Layer; NMEMNRD Data Layers; Multiple Date Visual Image Analysis (eg. NAIP, Google Earth)

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RESOURCE EXTRACTION	Impacts From Abandoned Mine Lands (Inactive)	LEGACY IMPACTS FROM INADEQUATELY RECLAIMED SURFACE OR UNDERGROUND MINING, OFTEN RELATED TO HISTORIC COAL MINING OPERATIONS. ACID MINE DRAINAGE (AMD) OFTEN A MAJOR CONCERN. SEE BACKGROUND MATERIAL IN COAL REMINING BEST MANAGEMENT PRACTICES GUIDANCE MANUAL (EPA 821-R-00-007); ACID MINE DRAINAGE PREDICTION (EPA 530-R-94-036)	Multiple Date Visual Image Analysis (eg. NAIP, Google Earth)
RESOURCE EXTRACTION	Mine Tailings	POLLUTION FROM RESIDUES SEPARATED OUT DURING THE PROCESSING OF MINERAL ORES. MINE TAILINGS ARE USUALLY FOUND IN CLOSE PROXIMITY TO THE SITES FROM WHICH THE RAW ORES WERE EXTRACTED. THE PHYSICAL AND CHEMICAL NATURE OF MINE TAILINGS ARE DERIVED FROM A SLURRY OF FINE-GRAINED ROCK AND PROCESS WATER AS ORE-BEARING MATERIALS ARE SEPARATED FROM THE MINED ROCK USING FLOTATION TECHNIQUES. IN MODERN MINING OPERATIONS, LIQUID IS REMOVED FROM THE TAILINGS SLURRY IN THICKENERS, AND THE THICKENED TAILINGS ARE DISCHARGED TO TAILINGS IMPOUNDMENTS. IN HISTORIC MINING OPERATIONS, THE TAILING SLURRIES WOULD SOMETIMES BE DUMPED NEAR RIPARIAN AREAS, WHERE RAINFALL COULD WASH OR LEACH FINES AND TOXIC METALS INTO RECEIVING WATERS. SEE BACKGROUND INFORMATION FOR TAILINGS PRODUCED IN COPPER MINING IN EXTRACTION AND BENEFICIATION OFORES AND MINERALS, VOLUME 4, COPPER (EPA 530-R-94-031).	NMED SWOB NPDES Permits Data Layer; NM EMNRD Data Layers
RESOURCE EXTRACTION	Petroleum/Natural Gas Activities	POLLUTION IMPACTS RELATED TO PETROLEUM (OIL, ASPHALT, AND SO FORTH), BRINES, OR EXCESSIVE EROSION CAUSE BY DAMAGE TO SOILS AND VEGETATION IN AREAS WITH SIGNIFICANT HISTORIC OIL OR GAS PRODUCTION. IMPACTS OFTEN MOST NOTICEABLE IN AREAS WITH SHALLOW STRIPPER WELLS. SEE BACKGROUND INFORMATION IN PROFILE OF THE OIL AND GAS EXTRACTION INDUSTRY (EPA/310-R-99-006).	NMEMNRD Data Layers
RESOURCE EXTRACTION	Placer Mining	USE OF HIGH PRESSURE HYDRAULIC SYSTEMS TO EXPOSE ORE BEARING FORMATIONS, OFTEN FOR GOLD MINING. SIC DIVISION B - MINING. SEE INFORMATION IN EXTRACTION AND BENEFICIATION OF ORES AND MINERALS, VOLUME 6, GOLD PLACERS (EPA 530-R-94-035).	NMEMNRD Data Layers
RESOURCE EXTRACTION	Potash Mining	POTASH MINING. MINING FOR POTASH (POTASIUUM ORE).	NMEMNRD Data Layers
RESOURCE EXTRACTION	Sand/Gravel/Rock Mining or Quarries	QUARRY OPERATIONS PRODUCE A VARIETY OF "AGGREGATES" USED MAINLY FOR CONSTRUCTION MATERIALS. MINING MAY IN EITHER UPLAND SETTINGS OR IN FLOODPLAINS OR EVEN WITHIN RIVER CHANNELS. OLD ABANDONED QUARRIES HAVE OFTEN ATTRACTED DUMPING OF WASTES, INCLUDING TOXICS. DREDGE AND FILL PERMITS MAY BE REQUIRED FOR OPERATIONS IN CLOSE PROXIMITY TO WATERBODIES. SEE BACKGROUND INFORMATION IN EPA OFFICE OF COMPLIANCE SECTOR NOTEBOOK PROJECT - PROFILE OF THE NON-METAL, NON-FUEL MINING INDUSTRY (EPA/310R-95-011)	Multiple Date Visual Image Analysis (eg. NAIP, Google Earth); NMEMNRD Data Layers
RESOURCE EXTRACTION	Subsurface (Hardrock) Mining	Pollution impacts related to subsurface mining operations. Subsurface, hardrock or underground mining involves construction of shafts, drifts, passages and other pathways from the surface to underground ore or mineral-bearing formations. Technology also leads to ore tailings and other wastes at the surface. See background information in EPA Office of Compliance Sector Notebook Project: Profile of the Metal Mining Industry (EPA/310-R-95-008).	NMEMNRD Data Layers
RESOURCE EXTRACTION	Surface Mining	REMOVAL OF SURFICIAL SOIL AND OVERBURDEN TO EXPOSE MINERAL-BEARING DEPOSITS. USED EXTENSIVELY IN COAL MINING. CAN INVOLVE NEW MINING OR RE-MINING OF OLDER (OR ABANDONED) MINED LANDS. SIC DIVISION B - MINING. SEE BACKGROUND MATERIAL IN COAL REMINING BEST MANAGEMENT PRACTICES GUIDANCE MANUAL (EPA 821-R-00-007); ACID MINE DRAINAGE PREDICTION (EPA 530-R-94-036).	NMEMNRD Data Layers
SILVICULTURE (FORESTRY)	Forest Roads (Road Construction And Use)	A COMPONENT IN LARGER-SCALE FORESTRY OPERATIONS USUALLY ADDRESSED UNDER STATE FOREST PRACTICES LAWS OR FALLING UNDER USDA FS OR DOI BLM STEWARDSHIP ON FEDERAL LANDS. SEE BACKGROUND INFORMATION IN CZARA MANAGEMENT MEASURE GUIDANCE (EPA-840-B-92-002B); SUMMARY OF CURRENT STATE NONPOINT SOURCE CONTROL PRACTICES FOR FORESTRY (EPA-841/S-93-001); PROFILE OF THE AGRICULTURAL CROP PRODUCTION INDUSTRY (EPA/310-R-00-001).	USFS Forest Systems Roads Data Layer (https://data.fs.usda.gov/geodata/edw/datasets.php)
SILVICULTURE (FORESTRY)	Silviculture Activities	SILVICULTURE ACTIVITIES: POLLUTION FROM ASPECTS OF FOREST HARVESTING INCLUDING BOTH REGISTERED AND NON-REGISTERED OPERATIONS.	USFS Forest Silviculture Data Layers (https://data.fs.usda.gov/geodata/edw/datasets.php); Multiple Date Visual Image Analysis (eg. NAIP, Google Earth)
SILVICULTURE (FORESTRY)	Silviculture, Fire Suppression	Silviculture, Fire Suppression. Impacts from the suppression of fire on forested lands.	USFS Forest Fire Data Layers (https://data.fs.usda.gov/geodata/edw/datasets.php)
SILVICULTURE (FORESTRY)	Watershed Runoff Following Forest Fire	WATERSHED RUNOFF FOLLOWING FOREST FIRE. DEFORESTED LANDS DUE TO FIRE OR CATASTROPHIC FIRE THAT RESULT IN HIGHER LEVELS OF EROSION AND SEDIMENT RUNOFF.	USFS Forest Fire Data Layers (https://data.fs.usda.gov/geodata/edw/datasets.php)
SPILLS/DUMPING	Above Ground Storage Tank Leaks (Tank Farms)	POLLUTION FROM FACILITIES THAT STORE AND MANAGE PETROLEUM, HAZARDOUS SUBSTANCES, AND HAZARDOUS WASTE IN ABOVEGROUND STORAGE TANKS (TANK FARMS OR TANK BATTERIES). THIS INCLUDES SOME FACILITIES REGULATED UNDER RCRA OR WITH BULK STORAGE REPORTING REQUIREMENTS UNDER THE TRI. FACILITIES CAN DIFFERENT APPRECIABLY IN SIZE, RANGING FROM SMALL HOLDING FACILITIES SIMILAR TO THE "GAS STATIONS" THAT ARE THE FOCUS OF EPA'S UNDERGROUND STORAGE TANK (UST) PROGRAM UP TO THE LARGER TANK BATTERIES FOUND AT OIL REFINERIES OR OTHER PETROCHEMICAL PLANTS. SEE BACKGROUND INFORMATION IN PETROLEUM TERMINALS AND BULK STORAGE FACILITIES (EPA 745-B-00-002); PROTOCOL FOR CONDUCTING ENVIRONMENTAL COMPLIANCE AUDITS OF STORAGE TANKS (EPA 300-B-00006).	NMED PSTB Data Layers
SPILLS/DUMPING	Illegal Dumps Or Other Inappropriate Waste Disposal	POLLUTION RELEASES TO RECEIVING WATERS FROM LOCALIZED "HOT-SPOTS" INVOLVING ILLEGAL DISPOSAL OF SOLID WASTES OR OTHER WASTES THAT MAY CONTAIN CONVENTIONAL OR HAZARDOUS POLLUTANTS OR THAT CAN DEGRADE AQUATIC HABITATS OR OTHERWISE IMPAIR AESTHETIC AMENITIES. SEE BACKGROUND INFORMATION IN ILLEGAL DUMPING PREVENTION GUIDEBOOK (EPA REGION 5)- HTTP://WWW.EPA.GOV/REGIONS/DMP/GUIDE.HTM ; STORM WATER PHASE II FINAL RULE: AN OVERVIEW (EPA-833/F-00-001).	
URBAN-RELATED RUNOFF/STORMWATER	Highway/Road/Bridge Runoff (Non-Construction Related)	POLLUTION EFFECTS FROM ESTABLISHED INFRASTRUCTURES SUCH AS HIGHWAYS AND BRIDGES. IN CITIES, ROADS AND BRIDGES ADD TO THE AREA IN IMPERVIOUS SURFACES. IN RURAL AREAS, INFRASTRUCTURE SUCH AS BRIDGES CAN ALTER GEOMORPHIC PROCESSES. SEE MATERIALS IN CZARA MANAGEMENT MEASURE GUIDANCE (EPA-840-B-92-002B)	NMDOT Roadways Data Layers; National Land Cover Database (https://www.mrlc.gov/data)
URBAN-RELATED RUNOFF/STORMWATER	Impervious Surface/Parking Lot Runoff	IMPERVIOUS SURFACE/PARKING LOT RUNOFF. RUNOFF FROM A PAVED OR IMPERVIOUS SURFACE.	National Land Cover Database (https://www.mrlc.gov/data)
URBAN-RELATED RUNOFF/STORMWATER	MS4 Discharges	INVOLVES POLLUTION IMPACTS FROM SEPARATE STORM SEWER SYSTEMS -- SEE STORM WATER PHASE II FINAL RULE SUMMARY IN EPA-833/F-00001.	NMED SWOB NPDES Permits Data Layer; National Land Cover Database (https://www.mrlc.gov/data)
URBAN-RELATED RUNOFF/STORMWATER	Municipal (Urbanized High Density Area)	HIGH DENSITY ("ULTRA-URBAN") AREAS IN CITIES AND TOWNS (E.G., CENTRAL BUSINESS DISTRICTS) WITH HIGH PERCENTAGES OF IMPERVIOUS SURFACES. RELEVANT INFORMATION IN CZARA MANAGEMENT MEASURE GUIDANCE (EPA-840-B-92-002B); (NURP) NATIONWIDE URBAN RUNOFF PROGRAM (EPA-841-S-93-109). SEE ALSO STORM WATER PHASE II FINAL RULE: AN OVERVIEW (EPA-833/F-00-001) < HTTP://WWW.EPA.GOV/NPDES/PUBS/FACT1-0.PDF >	National Land Cover Database (https://www.mrlc.gov/data)
URBAN-RELATED RUNOFF/STORMWATER	Site Clearance (New Development or Infill)	CAN INVOLVE NEW CONSTRUCTION OR REDEVELOPMENT (INFILLING) IN EXISTING URBANIZED AREAS. CAN ALSO INVOLVE INDUSTRIAL PARKS OR OTHER CONSTRUCTION OUTSIDE MUNICIPAL BOUNDARIES. VARIOUS ACTIVITIES UNDER SIC DIVISION C: CONSTRUCTION. RELEVANT INFORMATION INCZARA MANAGEMENT MEASURE GUIDANCE (EPA-840-B-92-002B). VARIOUS ASPECTS OF CONSTRUCTION ACTIVITIES NOW REGULATED UNDER THE PHASE II STORMWATER REGULATIONS -- SEE STORM WATER PHASE II FINAL RULE: AN OVERVIEW (EPA-833/F-00-001) < HTTP://WWW.EPA.GOV/NPDES/PUBS/FACT1-0.PDF >	Multiple Date Visual Image Analysis (eg. NAIP, Google Earth); National Land Cover Database (https://www.mrlc.gov/data)
URBAN-RELATED RUNOFF/STORMWATER	Urban Runoff/Storm Sewers	URBAN RUNOFF/STORM SEWERS. RUNOFF FROM AN URBANIZED AREA AS A RESULT OF A WET-WEATHER EVENT.	NMED SWOB NPDES Permits Data Layer; National Land Cover Database (https://www.mrlc.gov/data)

APPENDIX A - PROBABLE SOURCES			
Source Group Name (EPA ATTAINS)	Source Name (EPA ATTAINS and SQUID)	Source Description (EPA ATTAINS -- references have not been updated since EPA created the list - 2009)	Relevant_GIS_Data_Source(s)
URBAN-RELATED RUNOFF/STORMWATER	Wastes From Pets	PET WASTES ARE OF PARTICULAR CONCERN IN URBANIZED AREAS, WHERE CONTAMINANTS CAN ENTER STORM SEWERS OR OTHERWISE INTRODUCE POLLUTANTS INTO RECEIVING WATERS. SEE MATERIALS IN CZARA MANAGEMENT MEASURE GUIDANCE (EPA-840-B-92-002B).	National Land Cover Database (https://www.mrlc.gov/data)
URBAN-RELATED RUNOFF/STORMWATER	Wet Weather Discharges (Non-Point Source)	WET WEATHER DISCHARGES (NON-POINT SOURCE). USUALLY ASSOCIATED WITH ELEVATED PATHOGEN COUNTS DURING WET WEATHER EVENTS WHERE A SPECIFIC POINT SOURCE COULD NOT BE IDENTIFIED.	NMED SWOB NPDES Permits Data Layer; National Land Cover Database (https://www.mrlc.gov/data)

highlighted source are listed on field forms to be noted by field staff