

Species of Fauna Recorded in Baseline Biodiversity Surveys 2008 to 2015					
Latin name	English name	Presence* in Concession Area	IUCN Status	Armenian Status	Comment/ notes on habitat or Location of observation
Mammals					
<i>Erinaceus concolor</i>	Southern White-breasted Hedgehog	C&I	LC		Lowest southern section of Amulsar, Northern slope, Western slope
<i>Sorex Volnuchini</i>	Caucasian Pygmy Shrew	C	LC		Flat land on the right bank of Vorotan River
<i>Lepus europaeus</i>	Hare	C&I	LC		Peaks of Amulsar; southern slope; area just east of heap leach facility; woodland north of Saravan
<i>Martes foina nehringi</i>	Stone marten	C	LC		Northeast of heap leach area; Arshak
<i>Mustela nivalis</i>	Least Weasel	C&I	LC		Mountains east of Vorotan valley
<i>Meles Meles</i>	badger	C&I	LC		Woodland north of Saravan; heap leach area; mountains east of Vorotan valley; Latrines – above Saralanj village, SW and NW montane meadow steppe of Amulsar, traces – base of the eastern slope on mountain
<i>Ursus arctos</i>	Brown bear	C&I	LC	VU	Arshak; woodland north of Saravan; also in mountains east of Vorotan valley (Khachaqar license area); traces- banks of Vorotan River. Tracks = SW slope of Amulsar above Saravan and Saralanj villages.
<i>Canis lupus</i>	wolf	C&I	LC		Arshak; Fresh tracks on all routes within study area and droppings
<i>Vulpes vulpes</i>	fox	C	LC		Common
<i>Sus scrofa</i>	Wild Boar	C	LC		Woodland north of Saravan and area further west towards heap leach facility
<i>Cricetulus migratorius</i>	Grey hamster	C			Areas lower than 2400m on stony flat slopes
<i>Chionomys nivalis</i>	European Snow Vole	C	LC		
<i>Microtus arvalis</i>	Common Vole	C	LC		

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<i>Sylvaemus (apodemus) sylvaticus</i>	Long-tailed Field Mouse	C	LC		All parts of study area
<i>Arvicola amphibius</i>	Water vole	I	LC		Ephemeral and permanent streams
<i>Rattus norvegicus</i>	Grey rat	I??	LC		
<i>Myotis blythii tomes</i>	lesser mouse-eared bat	C	LC		Amulsar exploration camp
<i>Pipistrellus (Vespertilio) pipistrellus</i>	common pipistrelle	C	LC		Amulsar exploration camp
Reptiles and amphibians					
<i>Bufotes viridis</i>	Green Toad	C	LC		Widespread; confirmed in heap leach area
<i>Rana macrocnemis</i>	Minor Asian frog/Lake frog/Brusa frog	C	LC		Pond
<i>Natrix natrix</i>	Grass snake	C	LC		Pond
<i>Hemorrhois (Coluber) ravergieri</i>	Ravergier's (multicolor) whip snake/ Spotted whip snake	C	?		Recorded several times, particularly in grassy mountainous heaths situated 2000-2200 m above the sea level; confirmed in heap leach area
<i>Coronella austriaca</i>	Smooth snake	C	?		Widespread in Amulsar. Recorded in summer in 2009 and 2010, on S and SE slopes (2400-2600 m above the sea level), in dry mountainous, heathy and meadowy landscapes and bushes full of colonies of field mice. Also seen between Gndevaz and heap leach area (2015).
<i>Platyceps (Coluber) najadum</i>	Dahl's whip snake	P	LC		Recorded in 2009 in Vayots Dzor region, at the bottom of the NW and W slopes, in a dry mountainous heath (2000 m above the sea level).
<i>Natrix tessellata</i>	Dice snake	P	LC		Rather common damp locations near water

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					courses.
<i>Elaphe sauromates</i>	Blotched snake/Eastern Four lined rat snake	C	?		Foot of hills and in pastures; confirmed just east of Gndevaz (2013)
<i>Vipera (Montivipera) raddei</i>	Armenian viper or radde's viper	C	IUCN Red List NT	Endemic to the Armenian plateau, Red Book of RA VU	Foot of NW slopes, up to 2400 m above the sea level, in dry heaths and juniper scrub, as well as on the road to Jermuk. Also around heap leach area.
<i>Vipera (Pelias) eriwanensis</i>	Armenian mountainous viper	C	IUCN Red List VU	RA Red Book VU	Recorded in the mountainous heaths of N and NW slopes (2000-2300 masl), near the community landfill. Also confirmed in heap leach area (2015) and on western slope of Amulsar (2013).
<i>Eryx jaculus</i>	Western sand boa	P	(not assessed)		In Amulsar this snake is rare. It was recorded within the borders of Vayots Dzor, on western foothills, and in a dry heathy zone situated 1800 m above the sea level.
<i>Macrovipera lebetina</i>	Levantine Viper	C	?		confirmed from heap leach area
<i>Telescopus fallax</i>	Cat Snake/ Soosan Snake	C	LC	RA Red Book VU	confirmed from heap leach area
<i>Eirenis punctatolineatus</i>	Dotted Dwarf Snake	C	LC		confirmed from heap leach area
<i>Eirenis modestus</i>	Ring-headed Dwarf Snake	C	LC		confirmed from heap leach area
<i>Dolichophis schmidtii</i>	Schmidt's whip snake	C	LC		confirmed from heap leach area

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<i>Laudakia caucasia</i>	Caucasian rock agama	C	(not assessed)		Confirmed from heap leach area and area just east of Gndevaz
<i>Pseudopus apodus</i>	European glass lizard	P	(not assessed)		Bottom of hills (up to 2000 m above the sea level).
<i>Ophisops elegans</i>	Snake-eyed lizard	P	(not assessed)		Present SW of Saravan
<i>Lacerta media</i>	Common lizard/ Three-lined lizard	C	LC		Widespread in Amulsar. It was mainly recorded in mountainous and heathy zones and rocks. Also common in and around heap leach area.
<i>Lacerta agilis</i>	Sand lizard	C	LC		Western slope of Amulsar
<i>Lacerta strigata</i>	Caspian green lizard	P	LC		
<i>Darveskia raddei</i>	Radde's Rock Lizard	P	LC		A common species in Jermuk
<i>Darevskia valentini</i>	Valentin's Rock Lizard	C	LC		In Amulsar it mainly inhabits rockfills, rocks and shrubs (2200-3100 m above the sea level). Confirmed from mountains east of Vorotan valley (Khachaqar license area)
Fish					
<i>Salmo trutta</i>	Brown trout	C			Vorotan river
<i>Aspius aspius</i>	Asp		LC	VU	Regional Study Area (RSA)
<i>barbus capito culd</i>	barbel				RSA
<i>barbus mursa guld</i>	barbel				RSA
<i>Acanthalburnus microlepis</i>	Blackbrow bleak				RSA
<i>Varicorhinus capoeta sevangi</i>	Sevan Khramulya		(not assessed)	VU	RSA
<i>Alburnoides bipunctatus</i>	Spirlin				RSA

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<i>Bloch</i>					
Birds – raptors - breeding					
<i>Buteo rufinus</i>	Long-legged Buzzard	C	LC		Breeding
<i>Falco naumanni</i>	Lesser Kestrel	C	LC	Red Book of RA VU	Breeding (Actually breeds just outside concession area but uses it daily for feeding.)
<i>Circaetus gallicus</i>	Short-toed Eagle	C	LC	VU	Probably breeds woodland north of Saravan
<i>Falco peregrinus</i>	Peregrine Falcon	C	LC	Red Book of RA - VU	(Breeds Arpa gorge SW of Gndevaz, outside of concession area).
<i>Aquila pomarina</i>	Lesser Spotted Eagle	C	LC	VU	Breeds southwestern slopes of Amulsar
<i>Accipiter gentilis</i>	Northern Goshawk	C	LC	VU	Probably breeds in woodland north of Saravan
<i>Falco tinnunculus</i>	Common Kestrel	C	LC		Breeds Arshak
Raptors foraging					
<i>Pernis apivorus</i>	European Honey Buzzard	C	LC		Foraging – regular visitor; possibly breeds; common on migration
<i>Aquila chrysaetos</i>	Golden Eagle	C	LC	VU	Foraging – regular visitor (Breeds Arpa gorge)
<i>Buteo buteo</i>	Steppe Buzzard	C	LC		Foraging – regular visitor
<i>Circus pygargus</i>	Montagu’s Harrier	C	LC	VU	Foraging – occasional visitor (Breeds near Gorayk)
<i>Hieraaetus pennatus</i>	Booted Eagle	C	LC	VU	Foraging – regular visitor (Breeds Arpa gorge and near Jermuk)
<i>Gypaetus barbatus</i>	Lammergeier	C	LC	Red Book of RA VU	Foraging - regular visitor to the site (Breeds Arpa gorge)

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<i>Gyps fulvus</i>	Griffon Vulture	C	LC	Red Book of RA VU	Foraging – occasional visitor
<i>Milvus migrans</i>	Black Kite	C	LC		Foraging – occasional visitor (fairly common migrant)
<i>Neophron Percnopterus</i>	Egyptian Vulture	C	EN	Red Book of RA EN	Foraging – regular visitor (Breeds Arpa gorge)
<i>Falco cherrug</i>	Saker Falcon	C	EN	EN	Foraging – occasional visitor
<i>Accipiter nisus</i>	Sparrowhawk	C	LC		Foraging – regular visitor; possibly breeds
<i>Aegypius monachus</i>	Cinereous Vulture	C	NT	Red Book of RA – EN	Foraging - occasional visitor
Raptors - migratory					
<i>Accipiter brevipes</i>	Levant Sparrowhawk	C	LC	VU	Migratory
<i>Aquila clanga</i>	Greater Spotted Eagle	C	VU	VU	Occasional migrant
<i>Aquila Heliaca</i>	Imperial Eagle	C	VU	VU	Occasional migrant
<i>Aquila nipalensis</i>	Steppe Eagle	C	LC	VU	Migratory
<i>Circus aeruginosus</i>	Marsh Harrier	C	LC		Migratory
<i>Circus cyaneus</i>	Hen Harrier	C	LC		Occasional migrant
<i>Circus macrourus</i>	Pallid Harrier	C	NT	EN	Migratory
<i>Falco columbarius</i>	Merlin	C	LC		Migratory
<i>Falco subbuteo</i>	Hobby	C	LC		Migratory
<i>Falco vespertinus</i>		C	NT	VU	Migratory
<i>Haliaeetus albicilla</i>	White-tailed Eagle	C	LC	EN	Occasional migrant
<i>Pandion Haliaeetus</i>	Osprey	C	LC	VU	Migratory

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Birds – breeding					
<i>Acrocephalus palustris</i>	Marsh Warbler	C	LC		Breeds heap leach area
<i>Actitis hypoleucos</i>	Common Sandpiper	C	LC		
<i>Alauda arvensis</i>	Eurasian Skylark	C	LC		
<i>Alectoris chukar</i>	Chukar	C	LC		Breeds western slope of Amulsar
<i>Anas platyrhynchos</i>	Mallard	C	LC		
<i>Anthus campestris</i>	Tawny Pipit	C	LC		
<i>Anthus spinoletta</i>	Water Pipit	C	LC		
<i>Anthus trivialis</i>	Tree Pipit	C	LC		
<i>Apus apus</i>	Common Swift	C	LC		
<i>Apus melba</i>	Alpine Swift	C	LC		Breeds mainly in Arpa gorge
<i>Bubo bubo</i>	Eurasian Eagle Owl	C	LC	VU	Breeds near Amulsar exploration camp
<i>Carduelis cannabina</i>	Eurasian Linnet	C	LC		
<i>Carduelis flavirostris</i>	Twite	C	LC		
<i>Carpodacus erythrinus</i>	Common Rosefinch	C	LC		
<i>Cinclus cinclus</i>	White-throated Dipper	C	LC		
<i>Corvus corax</i>	Common Raven	C	LC		
<i>Coturnix coturnix</i>	Common Quail	C	LC		
<i>Cuculus canorus</i>	Common Cuckoo	C	LC		
<i>Delichon urbica</i>	Northern House-martin	C	LC		
<i>Eremophila alpestris</i>	Horned Lark	C	LC		
<i>Emberiza cia</i>	Rock Bunting	C	LC		

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<i>Emberiza hortulana</i>	Ortolan Bunting	C	LC		
<i>Emberiza melanocephala</i>	Black-headed Bunting	C	LC		
<i>Garrulus glandarius</i>	Eurasian Jay	C	LC		
<i>Hirundo rustica</i>	Barn Swallow	C	LC		
<i>Irania gutturalis</i>	White-throated Robin	C	LC	DD	Breeds near heap leach area, on lower western slope of Amulsar, and just east of Gndevaz
<i>Jynx torquilla</i>	Eurasian Wryneck	C	LC		One breeding record just east of Gndevaz in 2014
<i>Lanius collurio</i>	Red-backed Shrike	C	LC		
<i>Locustella naevia</i>	Grasshopper Warbler	C	LC		Breeds near mountains east of Vorotan valley (Khachaqar license area)
<i>Lullula arborea</i>	Woodlark	C	LC		
<i>Luscinia svecica</i>	Bluethroat	C	LC		
<i>Merops apiaster</i>	European Bee- eater	C	LC		
<i>Miliaria calandra</i>	Corn Bunting	C	LC		
<i>Monticola saxatilis</i>	Rufous-tailed Rock Thrush	C	LC		
<i>Montifringilla nivalis</i>	White-winged Snowfinch	C	LC		Breeds Arshak
<i>Motacilla alba</i>	White Wagtail	C	LC		
<i>Motacilla cinerea</i>	Grey Wagtail	C	LC		
<i>Motacilla flava</i>	Yellow Wagtail	C	LC		Only breeds near Gorayk village
<i>Oenanthe finschii</i>	Finch's Wheatear	C	LC		One breeding record in small gorge east of Gndevaz in 2015
<i>Oenanthe hispanica</i>	Black-eared Wheatear	C	LC		Breeds in small gorge east of Gndevaz

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<i>Oenanthe oenanthe</i>	Northern Wheatear	C	LC		
<i>Otus scops</i>	Scops Owl	P	LC		Breeds commonly in Jermuk; might breed in woodland north of Saravan
<i>Parus caeruleus</i>	Blue Tit	C	LC		
<i>Parus major</i>	Great Tit	C	LC		
<i>Passer domesticus</i>	House Sparrow	C	LC		
<i>Perdix perdix</i>	Grey Partridge	C	LC		
<i>Petronia petronia</i>	Rock Sparrow	C	LC		
<i>Phoenicurus ochruros</i>	Black Redstart	C	LC		
<i>Phylloscopus sindianus</i>	Mountain Chiffchaff	C	LC		
<i>Prunella collaris</i>	Alpine Accentor	C	LC		
<i>Prunella ocularis</i>	Radde's Accentor	C	LC		
<i>Ptyonoprogne rupestris</i>	Eurasian Crag Martin	C	LC		
<i>Pyrrhocorax pyrrhocorax</i>	Red-billed Chough	C	LC		
<i>Rhodopechys sanguineus</i>	Crimson-winged Finch	C	LC		Breeds Arshak
<i>Riparia riparia</i>	Sand Martin	C	LC		
<i>Saxicola rubetra</i>	Whinchat	C	LC		
<i>Saxicola torquatus</i>	Stonechat	C	LC		
<i>Sitta tephronota</i>	Eastern Rock Nuthatch	C	LC	VU	Breeds in small gorge east of Gndevaz
<i>Sitta neumayer</i>	Western Rock Nuthatch	C	LC		

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<i>Sturnus vulgaris</i>	Common Starling	C	LC		
<i>Sylvia communis</i>	Greater Whitethroat	C	LC		
<i>Sylvia nisoria</i>	Barred Warbler	C	LC		
<i>Sylvia curruca</i>	Lesser Whitethroat	C	LC		
<i>Tadorna ferruginea</i>	Ruddy Shelduck	C	LC	VU	Breeds near Gndevaz reservoir
<i>Tetraogallus caspius</i>	Caspian Snowcock	C	LC	VU	Probably bred Arshak in 2013-2014
<i>Tringa tetanus</i>	Common Redshank	C	LC		Breeds in Vorotan valley
<i>Turdus torquatus</i>	Ring Ouzel	C	LC		
<i>Upupa epops</i>	Eurasian Hoopoe	C	LC		
Insects					
<i>Coenagrion lunulatum</i>	Irish damselfly	C			
<i>Enallagma cyathigerum</i>	Common blue damselfly	C			
<i>Lestes dryas</i>	Emerald spreadwing	C			
<i>Libellula depressa</i>	Broad bodied chaser	C			
<i>Libellula quadrimaculata</i>	Four spotted chaser	C			
<i>Sympetrum flaveolum</i>	Yellow winged darter				
Butterflies					

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<i>Aricia agestis</i>	Brown argus	C			
<i>Agriades pyrenaicus</i>	Gavarnie (Balkan) blue	C			
<i>Aglais urticae</i>	Small tortoiseshell	C			
<i>Agrodiaetus ripartii</i>	Ripart's anomalous blue	C			
<i>Anthocharis cardamines</i>	Orange tip butterfly	C			
<i>Argynnis aglaja</i>	Dark green fritillary	C			
<i>Brenthis hecate</i>	Twin spot Fritillary	C			
<i>Boloria caucasica</i>		C			
<i>Carcharodus alceae</i>	Mallow Skipper	C			
<i>Carcharodus flocciferus</i>	Tufted marbled skipper	C			
<i>Coenonympha leander</i>	Russian heath	C			
<i>Coenonympha pamphilus</i>	Small heath butterfly	C			
<i>Colias crocea</i>	Clouded yellow butterfly	C			
<i>Colias sareptensis</i>	Berger's clouded yellow	C			
<i>Cupido minima</i>	Small blue	C			
<i>Cupido osiris</i>	Osiris blue	C			
<i>Cyaniris bellis</i>		C			
<i>Esperarge climene</i>	Lesser lattice brown butterfly	C			

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<i>Erebia graucasica</i>		C			
<i>Erebia medusa</i>	Woodland ringlet	C			
<i>Eumedonia eumedon</i>	Geranium argus	C			
<i>Heodes virgaurea</i>	Scarce Copper	C			
<i>Heodes candens</i>		C			
<i>Hesperia comma</i>	Silver spotted skipper	C			
<i>Hyponephele lycaon</i>	Dusky meadow brown	C			
<i>Hyponephele lupina</i>	Oriental meadow brown	C			
<i>Issoria lathonia</i>	Queen of Spain fritillary	C			
<i>Lasiommata maera</i>	Large wall brown butterfly	C			
<i>Lycaena phlaeas</i>	Small copper	C			
<i>Lysandra bellargus</i>	Adonis blue	C			
<i>Lysandra caucasica</i>		C			
<i>Maniola jurtina</i>	Meadow brown butterfly	C			
<i>Melanargia galathea</i>	Marbled white butterfly	C			
<i>Melanargia russiae</i>	Espers marbled white butterfly	C			
<i>Melitaea didyma</i>	Spotted fritillary	C			
<i>Melitaea cinxia</i>	Granville fritillary	C			
<i>Neolysandra alexander</i>		C			

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<i>Parnassius apollo</i>	Apollo butterfly	C	VU	VU	
<i>Pieris brassicae</i>	Large white butterfly	C			
<i>Pieris bryoniae</i>	The dark veined white	C			
<i>Pieris pseudorapae</i>	False small white butterfly	C			
<i>Plebeius argus</i>	Silver studded blue	C			
<i>Plebeius calliopis</i>		C			
<i>Plebejides zephyrinus</i>		C			
<i>Pontia daplidice</i>	The bath white butterfly	C			
<i>Polyommatus icarus</i>	Common blue	C			
<i>Polyommatus amandus</i>	Amanda's blue	C			
<i>Polyommatus dorylas</i>	Turquoise blue	C			
<i>Polyommatus thersites</i>	Chapman's blue	C			
<i>Pseudophilotes vicrama</i>	Eastern baton blue	C			
<i>Pyrgus alveus</i>	Large grizzled skipper	C			
<i>Pyrgus armoricanus</i>	Obethur's Grizzled skipper	C			
<i>Thymelicus lineola</i>	Essex skipper	C			
<i>Thymelicus sylvestris</i>	Small skipper	C			
<i>Vanessa atalanta</i>	Red admiral butterfly	C			
<i>Vanessa cardui</i>	Painted lady butterfly	C			

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<i>Thersamonia thersamon</i>	Lesser fiery copper	C			
<i>Thersamonolycaena alciphron</i>		C			
<i>Thersamonia thetis</i>		C			
<i>Ultraaricia crassipuncta</i>		C			
Carabidae					
<i>Amara apricaria (Paykull)</i>	Ground beetle	C			
<i>Amara equestris (Duft.)</i>		C			
<i>Amara famelica Zimm.</i>	Early sunshiner	C			
<i>Brachinus crepitans (L.)</i>	Bombardier beetle	C			
<i>Brachinus explodens (L.)</i>		C			
<i>Calathus ambiguous (Paykull)</i>		C			
<i>Calathus fuscipes (Goeze)</i>		C			
<i>Calathus melanocephalus (L.)</i>		C			
<i>Carabus calleyi renardi Chaud.</i>		C			
<i>Carabus cribratus Quensel</i>		C			
<i>Cymindis scapularis Schaum</i>		C			
<i>Harpalus quadratus Chaud.</i>		C			
<i>Harpalus affinis (Schrank)</i>		C			
<i>Harpalus distinguendus (Duft.)</i>		C			

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<i>Lebia cyanocephala</i> (L.)		C			
<i>Philorhizus crucifer</i> Lucas		C			
<i>Pristonychus mannerheimi</i> (Kol.)		C			
<i>Syntomus motschulskyi</i> Khnz.		C			
<i>Syntomus pallipes</i> Dej.		C			
<i>Trechus melanocephalus</i> Kol.		C			
<i>Trechus quadristriatus</i> (Schränk)		C			

***Presence:**

C = Confirmed

I = Inferred from tracks or signs

P = Possible from literature or other secondary sources