

Cameco Australia Pty. Ltd.

East Alligator EL 23522 - Sample Alteration Features

Sample Number	Lithology	Alteration Intensity	Colour	Alteration Type	Alteration Distribution	Comments
EA030101B1	fine grained sandstone	weak		silicification	pervasive	
EA030109B1	fine to medium grained sandstone	moderate		limonite	banded	
EA030110B1	fine grained very silicified sandst	strong		bleaching	pervasive	
EA030111B1	fine to medium grained sandstone	moderate		limonite	patches	
EA030112B1	fine to medium grained sandstone	moderate		bleaching	pervasive	
EA030113B1	fine to medium grained sandstone	weak		silicification	pervasive	
EA030114B1	fine grained sandstone	weak	maroon	hematite	pervasive	
EA030115B1	fine to medium grained sandstone	moderate	maroon	hematite	pervasive	
EA030116B1	fine to medium grained sandstone	weak		silicification	pervasive	
EA030117B1	medium to coarse grained sandstone	moderate		limonite	interstitial	
EA030118B1	medium grained sandstone	moderate		limonite	interstitial	
EA030119B1	fine to medium grained sandstone	moderate		bleaching	patches	
EA030120B1	fine grained sandstone	moderate	maroon	hematite	pervasive	
EA030121B1	fine to medium grained sandstone	moderate	buff	clay	interstitial	
EA030122B1	medium grained sandstone	weak	pink	clay	interstitial	
EA030123B1	fine grained sandstone	weak		silicification	pervasive	
EA030124B1	fine to medium grained sandstone	weak		limonite	pervasive	
EA030125B1	fine to medium grained sandstone	weak		limonite	discrete spots	
EA030126B1	fine to medium grained sandstone	weak		silicification	pervasive	
EA030127B1	medium to coarse grained sandstone	moderate	cream	clay	interstitial	
EA030128B1	medium to coarse grained sandstone	moderate	maroon	hematite	pervasive	
EA030129B1	medium grained sandstone	moderate	maroon	hematite	pervasive	
EA030130B1	medium grained sandstone	weak	orange	clay	interstitial	
EA030131B1	medium to coarse grained sandstone	moderate	maroon	hematite	pervasive	
EA030132B1	medium to coarse grained sandstone	weak		limonite	patches	
EA030132B1	medium to coarse grained sandstone	weak	buff	clay	interstitial	
EA030133B1	medium grained sandstone	weak		limonite	banded	
EA030133B1	medium grained sandstone	weak	orange	clay	interstitial	
EA030133B1	medium grained sandstone	weak		silicification	pervasive	
EA030134B1	medium to coarse grained sandstone	weak		silicification	pervasive	
EA030134B1	medium to coarse grained sandstone	weak	orange	clay	interstitial	
EA030135B1	fine to medium grained sandstone	weak	white	clay	interstitial	
EA030135B1	fine to medium grained sandstone	weak	orange	clay	interstitial	
EA030136B1	fine to medium grained sandstone	weak	white	clay	interstitial	
EA030136B1	fine to medium grained sandstone	weak	orange	clay	interstitial	
EA030137B1	fine grained sandstone	weak	maroon	hematite	pervasive	
EA030137B1	fine grained sandstone	weak		limonite	pervasive	
EA030138B1	medium grained sandstone	moderate	maroon	hematite	pervasive	
EA030139B1	medium grained sandstone	moderate	red	hematite	pervasive	
EA030140B1	fine grained sandstone	moderate		limonite	pervasive	

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EA030140B1	fine grained sandstone	weak		silicification	pervasive	
EA030141B1	medium to coarse grained sandstone	moderate	orange	clay	interstitial	
EA030142B1	medium to coarse grained sandstone	weak	orange	clay	interstitial	
EA030143B1	fine to medium grained sandstone	moderate		silicification	pervasive	
EA030143B1	fine to medium grained sandstone	moderate	maroon	hematite	pervasive	
EA030144B1	medium grained sandstone	moderate		bleaching	pervasive	
EA030144B1	medium grained sandstone	weak		limonite	patches	
EA030145B1	medium to coarse grained sandstone	moderate		bleaching	banded	
EA030145B1	medium to coarse grained sandstone	moderate	maroon	hematite	banded	
EA030146B1	medium grained sandstone	moderate		bleaching	patches	
EA030146B1	medium grained sandstone	moderate		limonite	patches	
EA030148B1	medium grained sandstone	moderate	maroon	hematite	banded	
EA030148B1	medium grained sandstone	weak		silicification	pervasive	
EA030148B1	medium grained sandstone	moderate		bleaching	banded	
EA030149B1	fine grained sandstone	weak	red	hematite	pervasive	
EA030149B1	fine grained sandstone	moderate		bleaching	pervasive	
EA030150B1	medium to coarse grained sandstone	weak	maroon	hematite	pervasive	
EA030150B1	medium to coarse grained sandstone	weak	orange	clay	interstitial	
EA030151B1	medium grained sandstone	moderate	red	hematite	pervasive	
EA030151B1	medium grained sandstone	weak		silicification	pervasive	
EA030152B1	medium to coarse grained sandstone	moderate		limonite	pervasive	
EA030152B1	medium to coarse grained sandstone	moderate	maroon	hematite	patches	
EA030153B1	medium grained sandstone	weak	orange	clay	interstitial	
EA030153B1	medium grained sandstone	weak		bleaching	pervasive	
EA030154B1	fine to medium grained sandstone	weak	pink	hematite	pervasive	
EA030154B1	fine to medium grained sandstone	weak	orange	clay	interstitial	
EA030155B1	fine to medium grained sandstone	weak	orange	clay	interstitial	
EA030155B1	fine to medium grained sandstone	weak	buff	clay	interstitial	
EA030156B1	medium grained sandstone	weak	orange	clay	interstitial	
EA030156B1	medium grained sandstone	weak	red	hematite	patches	
EA030157B1	medium grained sandstone	moderate		silicification	pervasive	
EA030157B1	medium grained sandstone	moderate		limonite	pervasive	
EA030158B1	medium grained sandstone	weak	white	clay	interstitial	
EA030159B1	fine to medium grained sandstone	moderate		bleaching	pervasive	
EA030160B1	medium grained sandstone	weak	maroon	hematite	pervasive	
EA030160B1	medium grained sandstone	weak	orange	clay	interstitial	
EA030161B1	medium grained sandstone	weak	buff	clay	interstitial	
EA030161B1	medium grained sandstone	weak		limonite	banded	
EA030162B1	fine to medium grained sandstone	moderate		limonite	banded	
EA030162B1	fine to medium grained sandstone	moderate	maroon	hematite	banded	

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EA030163B1	medium grained sandstone	weak	red	hematite	pervasive	
EA030163B1	medium grained sandstone	weak		bleaching	discrete spots	
EA030164B1	medium to coarse grained sandstone	moderate	maroon	hematite	patches	
EA030164B1	medium to coarse grained sandstone	moderate		bleaching	patches	
EA030165B1	medium grained sandstone	weak	maroon	hematite	interstitial	
EA030165B1	medium grained sandstone	moderate	orange	clay	interstitial	
EA030166B1	medium to coarse grained sandstone	moderate	pink	clay	pervasive	
EA030167B1	fine to medium grained sandstone	moderate		bleaching	pervasive	
EA030167B1	fine to medium grained sandstone	weak		limonite	banded	
EA030168B1	medium grained sandstone	weak		limonite	banded	
EA030168B1	medium grained sandstone	weak		bleaching	pervasive	
EA030169B1	fine to medium grained sandstone	weak	maroon	hematite	banded	
EA030169B1	fine to medium grained sandstone	moderate		bleaching	pervasive	
EA030170B1	fine to medium grained sandstone	moderate		limonite	pervasive	
EA030171B1	fine to medium grained sandstone	weak		bleaching	banded	
EA030172B1	medium to coarse grained sandstone	weak	orange	clay	interstitial	
EA030173B1	fine to medium grained sandstone	weak		silicification	pervasive	
EA030173B1	fine to medium grained sandstone	weak	pink	clay	pervasive	
EA030174B1	medium grained sandstone	moderate	maroon	hematite	pervasive	
EA030175B1	medium grained sandstone	weak	orange	clay	interstitial	
EA030175B1	medium grained sandstone	weak		silicification	pervasive	
EA030176B1	fine to medium grained sandstone	weak		silicification	pervasive	
EA030176B1	fine to medium grained sandstone	moderate		bleaching	pervasive	
EA030176B1	fine to medium grained sandstone	moderate	maroon	hematite	clasts	
EA030177B1	fine grained sandstone	weak	white	clay	interstitial	
EA030177B1	fine grained sandstone	weak		bleaching	pervasive	
EA030177B1	fine grained sandstone	weak		silicification	pervasive	
EA030178B1	medium grained sandstone	moderate		bleaching	discrete spots	
EA030178B1	medium grained sandstone	moderate	maroon	hematite	pervasive	
EA030179B1	fine to medium grained sandstone	moderate		limonite	pervasive	
EA030179B1	fine to medium grained sandstone	weak		bleaching	patches	
EA030180B1	fine to medium grained sandstone	weak		bleaching	banded	
EA030180B1	fine to medium grained sandstone	moderate		limonite	banded	
EA030181B1	fine to medium grained sandstone	strong		silicification	pervasive	
EA030181B1	fine to medium grained sandstone	strong		bleaching	pervasive	
EA030182B1	medium to coarse grained sandstone	moderate		limonite	pervasive	
EA030182B1	medium to coarse grained sandstone	moderate		bleaching	pervasive	
EA030183B1	medium to coarse grained sandstone	weak		bleaching	discrete spots	
EA030183B1	medium to coarse grained sandstone	moderate		limonite	pervasive	
EA030184B1	medium grained sandstone	weak	orange	clay	interstitial	

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EA030185B1	fine grained sandstone	weak		bleaching	pervasive	
EA030185B1	fine grained sandstone	weak	maroon	hematite	pervasive	
EA030186B1	medium to coarse grained sandstone	weak	pink	clay	pervasive	
EA030186B1	medium to coarse grained sandstone	weak	maroon	hematite	clasts	
EA030187B1	medium to coarse grained sandstone	weak		silicification	pervasive	
EA030187B1	medium to coarse grained sandstone	strong		bleaching	banded	
EA030187B1	medium to coarse grained sandstone	moderate	maroon	hematite	banded	
EA030188B1	medium to coarse grained sandstone	strong	maroon	hematite	pervasive	
EA030189B1	medium to coarse grained sandstone	weak	pink	clay	banded	
EA030189B1	medium to coarse grained sandstone	weak		bleaching	banded	
EA030189B1	medium to coarse grained sandstone	moderate		limonite	banded	
EA030190B1	medium grained sandstone	moderate	maroon	hematite	discrete spots	
EA030190B1	medium grained sandstone	weak	orange	clay	interstitial	
EA030191B1	medium to coarse grained sandstone	moderate	maroon	hematite	banded	
EA030191B1	medium to coarse grained sandstone	moderate		limonite	pervasive	
EA030191B1	medium to coarse grained sandstone	moderate	white	clay	interstitial	
EA030192B1	medium grained sandstone	moderate	yellow	clay	interstitial	
EA030192B1	medium grained sandstone	moderate		bleaching	patches	
EA030193B1	medium grained sandstone	moderate	red	hematite	pervasive	
EA030195B1	medium to coarse grained sandstone	moderate		bleaching	banded	
EA030195B1	medium to coarse grained sandstone	weak	pink	clay	banded	
EA030196B1	medium to coarse grained sandstone	moderate		limonite	pervasive	
EA030196B1	medium to coarse grained sandstone	moderate		silicification	banded	
EA030196B1	medium to coarse grained sandstone	weak	orange	clay	interstitial	
EA030197B1	medium grained sandstone	moderate		limonite	pervasive	
EA030197B1	medium grained sandstone	moderate	maroon	hematite	patches	
EA030198B1	medium to coarse grained sandstone	moderate		bleaching	patches	
EA030198B1	medium to coarse grained sandstone	moderate		limonite	patches	
EA030199B1	medium grained sandstone	weak		limonite	discrete spots	
EA030199B1	medium grained sandstone	weak	orange	clay	interstitial	
EA030199B1	medium grained sandstone	weak	maroon	hematite	pervasive	
EA030200B1	medium grained sandstone	moderate		bleaching	patches	
EA030200B1	medium grained sandstone	moderate	maroon	hematite	patches	
EA030201B1	medium grained sandstone	moderate	maroon	hematite	pervasive	
EA030201B1	medium grained sandstone	weak		silicification	pervasive	
EA030201B1	medium grained sandstone	moderate		limonite	pervasive	
EA030202B1	medium grained sandstone	weak		silicification	pervasive	
EA030202B1	medium grained sandstone	moderate	maroon	hematite	pervasive	
EA030203B1	medium to coarse grained sandstone	moderate		bleaching	discrete spots	
EA030203B1	medium to coarse grained sandstone	moderate	red	hematite	pervasive	

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Sample Number	Lithology	Alteration Intensity	Colour	Alteration Type	Alteration Distribution	Comments
EA030204B1	medium grained sandstone	moderate		bleaching	discrete spots	
EA030204B1	medium grained sandstone	moderate	maroon	hematite	pervasive	
EA030205B1	medium grained sandstone	strong	maroon	hematite	pervasive	
EA030206B1	medium grained sandstone	weak		silicification	pervasive	
EA030206B1	medium grained sandstone	weak	red	hematite	banded	
EA030206B1	medium grained sandstone	moderate		bleaching	pervasive	
EA030207C1	medium to coarse grained sandstone	moderate	maroon	hematite	pervasive	
EA030207C1	medium to coarse grained sandstone	moderate	maroon	hematite	clasts	
EA030207C2	medium to coarse grained sandstone	moderate	maroon	hematite	pervasive	
EA030207C2	medium to coarse grained sandstone	moderate	maroon	hematite	clasts	
EA030208C1	fine to medium grained sandstone	moderate		limonite	interstitial	
EA030209C1	medium to coarse grained sandstone	moderate	maroon	hematite	banded	
EA030209C1	medium to coarse grained sandstone	weak	red	hematite	banded	
EA030211C1	laterite	moderate		specular hematite	disseminated	
EA030211C1	laterite	moderate	white	clay	mineral control	
EA030211C1	laterite	strong	maroon	hematite	pervasive	
EA030211C1	laterite	strong		limonite	pervasive	
EA030212C2	medium grained sandstone	weak		bleaching	patches	
EA030212C2	medium grained sandstone	moderate		limonite	pervasive	
EA030212C2	medium grained sandstone	weak	orange	clay	interstitial	
EA030213C2	laterite	weak		silicification	surfacial coating	
EA030213C2	laterite	moderate	white	clay	interstitial	
EA030213C2	laterite	strong	maroon	hematite	pervasive	
EA030214C1	laterite	strong		limonite	pervasive	
EA030214C1	laterite	moderate		specular hematite	discrete spots	
EA030217C1	laterite	weak	red	hematite	pervasive	
EA030217C1	laterite	moderate		limonite	disseminated	
EA030219C1	medium to coarse grained sandstone	moderate		bleaching	patches	
EA030219C1	medium to coarse grained sandstone	weak		limonite	patches	
EA030220C1	coarse grained granular sandstone	strong	maroon	hematite	discrete spots	
EA030220C1	coarse grained granular sandstone	weak	orange	clay	interstitial	
EA030220C1	coarse grained granular sandstone	moderate		bleaching	patches	
EA030221C1	medium grained sandstone + laterite	moderate	maroon	hematite	pervasive	
EA040001C1	sandstone	moderate	maroon	hematite	patches	
EA040003C1	sandstone	moderate		limonite	pervasive	
EA040003C1	sandstone	moderate	maroon	hematite	patches	
EA040004C1	sandstone	moderate	maroon	hematite	patches	
EA040005C1	sandstone	strong	maroon	hematite	pervasive	

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Sample Number	Lithology	Alteration Intensity	Colour	Alteration Type	Alteration Distribution	Comments
EA040006C1	sandstone	moderate		limonite	pervasive	
EA040008C1	sandstone	weak		limonite	patches	
EA040008C1	sandstone	moderate	maroon	hematite	pervasive	
EA040009C1	sandstone	moderate		iron oxides	pervasive	
EA040009C1	sandstone	moderate		limonite	pervasive	
EA040011C1	sandstone	moderate		limonite	fracture coating	
EA040011C1	sandstone	moderate	maroon	hematite	pervasive	
EA040013C1	sandstone	moderate	maroon	hematite	pervasive	
EA040019C1	sandstone	moderate	maroon	hematite	pervasive	
EA040020C1	sandstone	moderate		limonite	patches	
EA040020C1	sandstone	strong		iron oxides	pervasive	
EA040020C2	sandstone	strong		iron oxides	pervasive	
EA040020C2	sandstone	moderate		limonite	patches	
EA040020C3	sandstone	strong		limonite	pervasive	
EA040022C1	sandstone + ?volcanic material	moderate	maroon	hematite	banded	
EA040022C2	sandstone + ?volcanic material	moderate	maroon	hematite	banded	
EA040029C1	sandstone	moderate		limonite	pervasive	
EA040029C1	sandstone	moderate	maroon	hematite	banded	
EA040042C2	sandstone + laterite	moderate		limonite	irregular	
EA040042C2	sandstone + laterite	moderate	maroon	hematite	pervasive	
EA040044C1	sandstone	moderate	maroon	hematite	pervasive	
EA040049C1	sandstone + laterite (?volcanic)	weak		silicification	pervasive	
EA040051C1	sandstone	weak	maroon	hematite	pervasive	
EA040054C1	sandstone	moderate		iron oxides	pervasive	
EA040060C1	sandstone	moderate		limonite	pervasive	
EA040060C1	sandstone	weak	maroon	hematite	pervasive	
EA040070C1	sandstone + laterite (volcanic)	moderate	maroon	hematite	pervasive	purple hematite red hematite, but probably still reflecting surficial weathering processes
EA040070C1	sandstone + laterite (volcanic)	weak	maroon	hematite	irregular	
EA040070C1	sandstone + laterite (volcanic)	weak		limonite	patches	
EA040072C1	sandstone	moderate	maroon	hematite	pervasive	
EA050200	coarse grained sandstone	weak	orange	limonite	disseminated	
EA050200	coarse grained sandstone	weak	orange	hematite	irregular bands	
EA050200	coarse grained sandstone	strong		bleaching	patches	
EA050200	coarse grained sandstone	moderate		bleaching	pervasive	
EA050200	coarse grained sandstone	weak	white	clay	intraclasts	
EA050200	coarse grained sandstone	moderate	white	clay	weakly disseminated	
EA050200_R	coarse grained sandstone	strong		bleaching	patches	

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Sample Number	Lithology	Alteration Intensity	Colour	Alteration Type	Alteration Distribution	Comments
EA050200_R	coarse grained sandstone	weak	orange	hematite	irregular bands	
EA050200_R	coarse grained sandstone	moderate		bleaching	pervasive	
EA050200_R	coarse grained sandstone	weak	white	clay	intraclasts	
EA050200_R	coarse grained sandstone	weak	orange	limonite	disseminated	
EA050200_R	coarse grained sandstone	moderate	white	clay	weakly disseminated	
EA050201	coarse grained sandstone	strong		bleaching	patches	
EA050201	coarse grained sandstone	weak	maroon	diagenetic hematite	pervasive	
EA050201	coarse grained sandstone	weak	orange	hematite	irregular bands	
EA050201	coarse grained sandstone	weak	yellow	clay	weakly disseminated	
EA050201	coarse grained sandstone	moderate		bleaching	pervasive	
EA050202	coarse grained sandstone	moderate		bleaching	pervasive	
EA050202	coarse grained sandstone	weak	pink	hematite	pervasive	
EA050202	coarse grained sandstone	weak	white	clay	disseminated	