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## LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

**Client:** Crow Butte Resources  
**Project:** SM6-23, SM6-28, SM8-28  
**Lab ID:** C15050867-002  
**Client Sample ID:** SM6-28

**Report Date:** 05/28/15  
**Collection Date:** 05/22/15  
**Date Received:** 05/27/15  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS - DISSOLVED</b>							
Uranium	0.0685	mg/L		0.0003		E200.8	05/27/15 19:04 / clm
Uranium, Activity	4.6E-08	uCi/mL		2.0E-10		E200.8	05/27/15 19:04 / clm

**Report Definitions:** RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



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## LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

**Client:** Crow Butte Resources  
**Project:** SM8-6, SM8-28, SM6-23, SM6-28  
**Lab ID:** C15060077-004  
**Client Sample ID:** SM6-28

**Report Date:** 06/09/15  
**Collection Date:** 05/28/15  
**Date Received:** 06/02/15  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS - DISSOLVED</b>							
Uranium	0.0868	mg/L		0.0003		E200.8	06/08/15 19:29 / smm

**Report Definitions:** RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



## LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

**Client:** Crow Butte Resources  
**Project:** English Creek SM Excursion G-8 Samples  
**Lab ID:** C15060284-002  
**Client Sample ID:** SM6-28

**Report Date:** 06/17/15  
**Collection Date:** 06/04/15  
**Date Received:** 06/08/15  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>MAJOR IONS</b>							
Alkalinity, Total as CaCO <sub>3</sub>	374	mg/L		1		A2320 B	06/08/15 18:24 / wc
Carbonate as CO <sub>3</sub>	ND	mg/L		1		A2320 B	06/08/15 18:24 / wc
Bicarbonate as HCO <sub>3</sub>	456	mg/L		1		A2320 B	06/08/15 18:24 / wc
Calcium	97	mg/L		1		E200.7	06/09/15 18:30 / sf
Chloride	16	mg/L		1		E300.0	06/11/15 15:35 / wc
Fluoride	1.3	mg/L		0.1		A4500-F C	06/11/15 10:48 / wc
Magnesium	9	mg/L		1		E200.7	06/09/15 18:30 / sf
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH <sub>3</sub> G	06/11/15 11:33 / lr
Nitrogen, Nitrate+Nitrite as N	0.4	mg/L		0.1		E353.2	06/09/15 13:40 / lr
Potassium	22	mg/L		1		E200.7	06/09/15 18:30 / sf
Silica	49.3	mg/L		0.2		E200.7	06/09/15 18:30 / sf
Sodium	69	mg/L		1		E200.7	06/09/15 18:30 / sf
Sulfate	70	mg/L		1		E300.0	06/11/15 15:35 / wc
<b>PHYSICAL PROPERTIES</b>							
Conductivity @ 25 C	823	umhos/cm		5		A2510 B	06/11/15 09:48 / lmc
pH	7.60	s.u.	H	0.01		A4500-H B	06/11/15 09:48 / lmc
Solids, Total Dissolved TDS @ 180 C	562	mg/L		10		A2540 C	06/11/15 10:44 / lmc
<b>METALS - DISSOLVED</b>							
Aluminum	ND	mg/L		0.1		E200.7	06/10/15 18:40 / sf
Arsenic	0.025	mg/L		0.001		E200.8	06/10/15 19:18 / smm
Barium	0.3	mg/L		0.1		E200.7	06/09/15 18:30 / sf
Boron	ND	mg/L		0.1		E200.7	06/09/15 18:30 / sf
Cadmium	ND	mg/L		0.005		E200.7	06/10/15 18:40 / sf
Chromium	ND	mg/L		0.05		E200.7	06/10/15 18:40 / sf
Copper	ND	mg/L		0.01		E200.8	06/10/15 19:18 / smm
Iron	ND	mg/L		0.03		E200.7	06/09/15 18:30 / sf
Lead	ND	mg/L		0.001		E200.8	06/10/15 19:18 / smm
Manganese	ND	mg/L		0.01		E200.7	06/09/15 18:30 / sf
Mercury	ND	mg/L		0.001		E200.8	06/10/15 19:18 / smm
Molybdenum	ND	mg/L		0.1		E200.7	06/10/15 18:40 / sf
Nickel	ND	mg/L		0.05		E200.7	06/10/15 18:40 / sf
Selenium	0.013	mg/L		0.005		E200.8	06/10/15 19:18 / smm
Uranium	0.0889	mg/L		0.0003		E200.8	06/10/15 19:18 / smm
Uranium, Activity	6.0E-08	uCi/mL		2.0E-10		E200.8	06/10/15 19:18 / smm
Vanadium	ND	mg/L		0.1		E200.7	06/09/15 18:30 / sf
Zinc	0.01	mg/L		0.01		E200.7	06/10/15 18:40 / sf
<b>RADIONUCLIDES - DISSOLVED</b>							
Radium 226	0.76	pCi/L		0.17		E903.0	06/15/15 09:18 / rdw
Radium 226 precision (±)	0.19	pCi/L				E903.0	06/15/15 09:18 / rdw
Radium 226 MDC	0.17	pCi/L				E903.0	06/15/15 09:18 / rdw

**Report Definitions:**  
RL - Analyte reporting limit.  
QCL - Quality control limit.  
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.  
H - Analysis performed past recommended holding time.



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## LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

**Client:** Crow Butte Resources  
**Project:** English Creek SM Excursion G-8 Samples  
**Lab ID:** C15060284-002  
**Client Sample ID:** SM6-28

**Report Date:** 06/17/15  
**Collection Date:** 06/04/15  
**Date Received:** 06/08/15  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>DATA QUALITY</b>							
A/C Balance ( $\pm 5$ )	-1.51	%				A1030 E	06/16/15 15:21 / kbh
Anions	9.47	meq/L				A1030 E	06/16/15 15:21 / kbh
Cations	9.18	meq/L				A1030 E	06/16/15 15:21 / kbh
Solids, Total Dissolved Calculated	570	mg/L				A1030 E	06/16/15 15:21 / kbh
TDS Balance (0.80 - 1.20)	0.98	unitless				A1030 E	06/16/15 15:21 / kbh

**Report**  
**Definitions:** RL - Analyte reporting limit.  
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MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



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## LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

**Client:** Crow Butte Resources  
**Project:** SM Wells  
**Lab ID:** C15060642-002  
**Client Sample ID:** SM6-28

**Report Date:** 06/23/15  
**Collection Date:** 06/11/15  
**Date Received:** 06/17/15  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS - DISSOLVED</b>							
Uranium	0.0828	mg/L		0.0003		E200.8	06/22/15 16:13 / smm
Uranium, Activity	5.6E-08	uCi/mL		2.0E-10		E200.8	06/22/15 16:13 / smm

**Report Definitions:** RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



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## LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

**Client:** Crow Butte Resources  
**Project:** SM Wells  
**Lab ID:** C15060880-002  
**Client Sample ID:** SM6-28

**Report Date:** 06/25/15  
**Collection Date:** 06/18/15  
**Date Received:** 06/23/15  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS - DISSOLVED</b>							
Uranium	0.0755	mg/L		0.0003		E200.8	06/24/15 17:27 / smm
Uranium, Activity	5.1E-08	uCi/mL		2.0E-10		E200.8	06/24/15 17:27 / smm

**Report**  
**Definitions:** RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



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## LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

**Client:** Crow Butte Resources  
**Project:** SM Wells  
**Lab ID:** C15070036-002  
**Client Sample ID:** SM6-28

**Report Date:** 07/07/15  
**Collection Date:** 06/25/15  
**Date Received:** 07/01/15  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS - DISSOLVED</b>							
Uranium	0.0796	mg/L		0.0003		E200.8	07/02/15 16:14 / smm
Uranium, Activity	5.4E-08	uCi/mL		2.0E-10		E200.8	07/02/15 16:14 / smm

**Report Definitions:** RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.





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## LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

**Client:** Crow Butte Resources  
**Project:** Crow Butte Uranium  
**Lab ID:** C15070274-002  
**Client Sample ID:** SM6-28

**Report Date:** 07/10/15  
**Collection Date:** 07/02/15  
**Date Received:** 07/08/15  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS - DISSOLVED</b>							
Uranium	0.0711	mg/L		0.0003		E200.8	07/09/15 22:10 / smm
Uranium, Activity	4.8E-08	uCi/mL		2.0E-10		E200.8	07/09/15 22:10 / smm

**Report**  
**Definitions:** RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.





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## LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

**Client:** Crow Butte Resources  
**Project:** SM Wells  
**Lab ID:** C15070479-002  
**Client Sample ID:** SM6-28

**Report Date:** 07/20/15  
**Collection Date:** 07/06/15  
**Date Received:** 07/14/15  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS - DISSOLVED</b>							
Uranium	0.0693	mg/L		0.0003		E200.8	07/15/15 16:57 / smm
Uranium, Activity	4.7E-08	uCi/mL		2.0E-10		E200.8	07/15/15 16:57 / smm

**Report Definitions:** RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



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## LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

**Client:** Crow Butte Resources  
**Project:** SM Wells  
**Lab ID:** C15070663-002  
**Client Sample ID:** SM6-28

**Report Date:** 07/23/15  
**Collection Date:** 07/13/15  
**Date Received:** 07/20/15  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS - DISSOLVED</b>							
Uranium	0.0702	mg/L		0.0003		E200.8	07/22/15 00:27 / smm
Uranium, Activity	4.8E-08	uCi/mL		2.0E-10		E200.8	07/22/15 00:27 / smm

**Report**  
**Definitions:** RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



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## LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

**Client:** Crow Butte Resources  
**Project:** Crow Butte Uranium  
**Lab ID:** C15070873-002  
**Client Sample ID:** SM6-28

**Report Date:** 07/31/15  
**Collection Date:** 07/20/15  
**Date Received:** 07/27/15  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS - DISSOLVED</b>							
Uranium	0.0668	mg/L		0.0003		E200.8	07/30/15 01:01 / smm
Uranium, Activity	4.5E-08	uCi/mL		2.0E-10		E200.8	07/30/15 01:01 / smm

**Report Definitions:** RL - Analyte reporting limit.  
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## LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

**Client:** Crow Butte Resources  
**Project:** SM Wells  
**Lab ID:** C15080085-002  
**Client Sample ID:** SM6-28

**Report Date:** 08/06/15  
**Collection Date:** 07/27/15  
**Date Received:** 08/04/15  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS - DISSOLVED</b>							
Uranium	0.0666	mg/L		0.0003		E200.8	08/05/15 14:33 / smm
Uranium, Activity	4.5E-08	uCi/mL		2.0E-10		E200.8	08/05/15 14:33 / smm

**Report**  
**Definitions:** RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



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## LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

**Client:** Crow Butte Resources  
**Project:** Deepwell July 2015 Composites SM Wells  
**Lab ID:** C15080161-003  
**Client Sample ID:** SM6-28

**Report Date:** 08/18/15  
**Collection Date:** 08/03/15  
**Date Received:** 08/05/15  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS - DISSOLVED</b>							
Uranium	0.0626	mg/L		0.0003		E200.8	08/07/15 13:09 / smm

**Report**  
**Definitions:** RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.