

Change Orders (CO's)

LOWER CHURCHILL PROJECT - CONSTRUCTION OF NORTH AND SOUTH DAMS (CH0009-001)																
CHANGE ORDER LOG																
6-Feb-19 \$ 2,190,174 \$ 31,799,401 \$ 5,172,226 \$ 23,072,711 \$ 62,234,502.91 \$ 56,268,254.77																
CO #	Rev #	Doc Date	Date Received	Description of Change Work	Target Cost Labour	Fixed Cost EMS	T&M Labour	T&M EMS	Total Value	Status	Impact on Schedule	Change Request #	Adjustment Type	Revenue Approved to Date	Approval Status	Additional CHO required?
CHO-0001	1	5-Oct-16	1-Nov-16	Change Order #001 - FWO 002-003-006 & CHR 002-005-006-007-009-010	(\$453,478.49)	(\$1,418,356.52)	\$50,433.54		(\$1,821,401.47)	Approved	No Impact	002, 005, 006, 007, 009 & 010	Lump Sum	-\$ 1,821,401	PC 012	No - Work Complete
CHO-0002	0	17-Nov-16	28-Nov-16	Living Out Allowance and Bunk Bed Premium - Craft Labour Only	\$0.00	\$138,000.00	\$0.00		\$138,000.00	Approved	No Impact	0011	Unit Price	\$ 129,440	PC 013/014/015	No - Work Complete
CHO-0003	0	28-Nov-16	8-Dec-16	LOA Staff Accommodations	\$0.00	\$406,890.00	\$0.00		\$406,890.00	Approved	No Impact	0018	Unit Price	\$ 449,550	PC 014,016	Yes - CHO-0018
CHO-0004	0		7-Dec-16	Upstream Cofferdam - Grouting Program	\$0.00	\$0.00	\$0.00		\$0.00	Pending	No Impact	0028	Cost Reimbursable	\$ -		No - Work Complete
CHO-0004	0	1-Dec-16	12-Dec-16	Adjustment Pay Item Commitment Value declared in CHO NO. 01	\$1,078,471.24	\$3,197,706.76	\$0.00		\$4,276,178.00	Approved	No Impact	NA	Unit Price	\$ 4,276,178	PC 014	No - Work Complete
CHO-0005	0	7-Dec-16	10-Dec-16	Upstream Cofferdam - Grouting Program				#####	\$14,166,947.26	Approved	No Impact	0028	Cost Reimbursable	\$ 14,167,047	PC 016,017,018, 019,020	No - Work Complete
CHO-0006	0	12-Dec-16	18-Dec-16	Supply and Operation of Rescue Boat - River Closure	\$0.00	\$0.00	\$60,951.82	\$320,566.14	\$381,517.96	Approved	No Impact	0012	T & M	\$ 381,518	PC 014	No - Work Complete
CHO-0007	0	13-Dec-16	11-Jan-17	Aggregates Crushing 25mm - ECN 002	-\$ 140,698.97	-\$99,120.93	\$0.00		(\$239,819.90)	Approved	No Impact	0003	Lump Sum	-\$ 239,820	PC 019	No - Work Complete
CHO-0008	0	14-Jan-17	27-Jan-17	FWO's 008-009-010-011-012-014-015-017-018-021			\$45,180.37	\$54,846.25	\$100,026.62	Approved	No Impact	FWO's 008-009-010-011-012-014-015-017-018-021	T & M	\$ 100,027	PC014	No - Work Complete
CHO-0009	0	21-Jan-17	27-Jan-17	CHR-024 - Upstream Cofferdam Emergency Repair (ECN-007)	\$ 293,645.00	\$677,880.00	\$124,800.00		\$1,096,325.00	Approved	No Impact	0024	Unit Price/ T&M	\$ 929,334	PC 016	No - Work Complete
CHO-0010	0	23-Jan-17	27-Jan-17	CHR-020 - Upstream Cofferdam Turnout (ECN-001 & 005)	\$ 104,414.07	\$472,346.93			\$576,761.00	Approved	No Impact	0020	Unit Price	\$ 567,790	PC 014	No - Work Complete
CHO-0011	0	26-Jan-17	1-Feb-17	CHR 014 - Extension of South Transition Dam Retaining Wall	\$ 76,134.23	\$108,091.10			\$184,225.33	Approved	No Impact	0014	Unit Price	\$ 241,459	PC 016,020,024	Yes - CHO-0026
CHO-0012	0	26-Jan-17	1-Feb-17	CHR 021- Diversion Ditch - Temporary Cofferdam Modification	\$ 27,198.41	\$43,072.69	\$13,001.63	\$1,675.00	\$84,947.73	Approved	No Impact	0021	Unit Price/ T&M	\$ 119,848	PC 016,017	Yes - CHO-0019
CHO-0013	0	26-Jan-17	1-Feb-17	CHR 026 - Cofferdam 2 & 3 Rebuilt (ECN #008)			\$751,300.78	\$1,198,699.22	\$1,950,000.00	Approved	No Impact	0026	T & M	\$ 1,996,513	PC 017,024	Yes - CHO-0026
CHO-0014	0	26-Jan-17	1-Feb-17	CHR 027 - Downstream Cofferdam Crest Height Increase (ENC #009)			\$194,611.01	\$305,388.99	\$500,000.00	Approved	No Impact	0027	T & M	\$ 428,997	PC 017	No - Work Complete
CHO-0015	0	26-Jan-17	1-Feb-17	CHR 025 R2&R3 - USCD Investigation & Instrumentation Programs			\$30,544.96	\$191,455.04	\$222,000.00	Approved	No Impact	0025	T & M	\$ 242,128	PC 019, 024	Yes - CHO-0026
CHO-0016	0	26-Jan-17	1-Feb-17	CHR 019 - Bathymetric Survey			\$3,590.16	\$3,146.48	\$6,736.63	Approved	No Impact	0019	T & M	\$ 6,475	PC 016	No - Work Complete
CHO-0017	0	26-Jan-17	1-Feb-17	CHR 017 R1 - Delayed RCC Cofferdam Removal				\$4,811.88	\$4,811.88	Approved	No Impact	0017	T & M	\$ 4,407	PC 016	No - Work Complete
CHO-0018	0	6-Feb-17	11-Feb-17	Living Out Allowance and Bunk Bed Premium - Staff Only (Balance amount)		\$42,660.00			\$42,660.00	Approved	No Impact	0018	Lump Sum	SEE CHO-0003	PC 016	No - Work Complete
CHO-0019	0	26-Feb-17	3-Mar-17	CHR021R1 - Diversion Ditch - Temporary Cofferdam Mod. (Balance amount)				\$34,900.56	\$34,900.56	Approved	No Impact	0021	Unit Price/ T&M	SEE CHO-0012	PC 017	No - Work Complete
CHO-0020	0	14-Mar-17	16-Mar-17	Settlement of Disputes (CHR-001, CHR-004, CHR-008, CHR-0016, CHR-029, CHR-023)		\$1,101,860.00			\$1,101,860.00	Approved	No Impact	0001, 0004, 0008, 0016, 0023, 0029	Lump Sum	\$ 1,101,860	PC 017	No - Work Complete
CHO-0021	0	3-May-17	5-May-17	FWO's 013-016-019-020-022-023-024-025-026			\$55,978.31	\$106,051.53	\$162,029.84	Approved	No Impact	020-022-023-024-025-026	T & M	\$ 162,030	PC 018	No - Work Complete
CHO-0022	0	23-Aug-17	24-Aug-17	North Dam Downstream Facilities - Provision of Utility Power					\$0.00	Approved	No Impact	NA		\$ -		No - Work Complete
CHO-0023	0	19-Oct-17	23-Oct-17	CHR-0034 - Production of Blasted Rockfill from Area A	\$ 656,000.00	\$2,344,000.00	\$116,757.61	\$269,502.50	\$3,386,260.11	Approved	No Impact	0034	Unit Price/ T&M	\$ 2,851,086	PC 024,025,032, 033	TBD - Remediation?
CHO-0024	0	21-Oct-17	21-Oct-17	CHR-0038 - Impoundment - US Cofferdam & North Dam			\$478,500.00	\$478,500.00	\$957,000.00	Approved	No Impact	0038	T & M	\$ 1,020,447	PC 024,025,031	Yes - CHO-0043
CHO-0025	0	20-Oct-17	23-Oct-17	CHR-0033 - Offsite Prebuilt Formwork		\$107,899.89			\$107,899.89	Approved	No Impact	0033	Lump Sum			TBD
CHO-0026	0	23-Oct-17	28-Oct-17	CHR 0014, 0025 & 0026 Cost Overrun	\$ 43,322.28	\$13,911.70		\$66,640.94	\$123,874.92	Approved	No Impact	0014/0025/0026	Unit Price/ T&M	See Above CHR's	PC 024	No - Work Complete
CHO-0027	0	23-Oct-17	28-Oct-17	FWO/27/28/30/31/33/34/35/36/37/39/40/41/43/44/45/46/47/48/49/50			\$106,161.74	\$141,500.85	\$247,662.59	Approved	No Impact	NA	Lump Sum	\$ 247,663	PC024	No - Work Complete

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CHO-0028	0	24-Oct-17	1-Nov-17	CHR-0036 - Supply and Install 2 additional Piezometers - U/S & D/S Cofferdam			\$9,678.56	\$44,611.63	\$54,290.19	Approved	No Impact	0036	T & M	\$ 37,810	PC024,025	No - Work Complete
CHO-0029	0	25-Oct-17	27-Oct-17	CHR-0043 - MFA South Road Construction		\$210,045.00			\$210,045.00	Approved	No Impact	0043	Lump Sum	\$ 210,405	PC 025, 031	Yes - CHO-0043
CHO-0030	0	27-Oct-17	31-Oct-17	CHR-0042 - South Dam Road and Ditching	\$ 3,936.00	\$14,064.00	\$78,825.99	\$138,785.00	\$235,610.99	Approved	No Impact	0042	Unit Price/ T&M	\$ 151,689	PC 025	No - Work Complete
CHO-0031	0	27-Oct-17	31-Oct-17	CHR-0041 - North Abutment Ditch			\$24,963.00	\$22,646.80	\$47,609.80	Approved	No Impact	0041	T & M	\$ 42,298	PC 025	No - Work Complete
CHO-0032	0	5-Nov-17	6-Nov-17	CHR-0040 - Production of Blasted Rockfill from Area A	\$ 459,200.00	\$1,640,800.00	\$43,268.57	\$63,135.00	\$2,206,403.57	Approved	No Impact	0040	Unit Price/ T&M	\$ 1,460,446	PC 024,025,032, 033	No - Work Complete
CHO-0033	0	7-Nov-17	8-Nov-17	CHR-0045 - Switchyard Civil Works Converter Road	\$ -	\$31,688.53	\$0.00	\$0.00	\$31,688.53	Approved	No Impact	0045	Lump Sum	\$ 31,689	PC 025	No - Work Complete
CHO-0034	0	6-Dec-17	9-Dec-17	CHR-0047 R1 - South Dam Diversion Ditch			\$37,500.00	\$37,500.00	\$75,000.00	Approved	No Impact	0047	T & M	\$ 65,774	PC 026	No - Work Complete
CHO-0035	0	6-Dec-17	14-Dec-17	Lowering Tailrace Protection Cofferdam from El. 21 to 15 (ECN #15)			\$97,698.01	\$206,914.33	\$304,612.34	Approved	No Impact	NA	T & M	\$ 304,336	PC 026	No - Work Complete
CHO-0036	0	7-Dec-17	14-Dec-17	Removal of Downstream Cofferdam from El. 12 to 9			\$6,295.00	\$18,671.50	\$24,966.49	Approved	No Impact	0031	T & M	\$ 24,699	PC 026	No - Work Complete
CHO-0037	1	22-Jan-18	29-Jan-18	Supply of Johnston VT651 Vacuum Sweeper		\$460,509.00			\$460,509.00	Approved	No Impact	0046	Lump Sum	\$ 456,494	PC 030, 031	No - Work Complete
CHO-0038	0	3-Mar-18	3-Mar-18	ECN 0016 - Revised Locations & Numbers of Piezometers & Drainage Holes		-\$89,190.00			(\$89,190.00)	Approved	No Impact	0048_R01	Unit Price	\$ -	TBD/Various	No - Work Complete
CHO-0039	0	1-Mar-18	3-Mar-18	FWO's 007, 029, 032, 038, 051, 052, 053, 054			\$31,997.46	\$99,724.06	\$131,721.52	Approved	No Impact	FWO's 007-029-032-038-051-052-053-054	T & M	\$ 131,722	PC 028	No - Work Complete
CHO-0040	0	3-Mar-18	7-Mar-18	CHR-0049 - Concrete Coring Program North Dam			\$118,742.56	\$313,703.53	\$432,446.09	Approved	No Impact	0049	T & M	\$ 363,334	PC 030,31,32,038	TBD
CHO-0041	0	1-Apr-18	4-Apr-18	CHR-0051 - Formsaver & Mechanical Couplers		\$187,059.60			\$187,059.60	Approved	5 days saving	0050	Lump Sum	\$ 187,060	PC 031,032,034,035	No - Work Complete
CHO-0042	0	5-Apr-18	15-Apr-18	Levelling Concrete from Ele. 15.69 to 17.19 and Under Upper Flip Bucket		\$2,035,786.80			\$2,035,786.80	Approved	Mitigation of potential weather days	0051	Unit Price	\$ 2,035,787	PC 031,032	No - Work Complete
CHO-0043	0	1-Jun-18	7-Jun-18	FWO056, CHO024 & 029 Overruns				\$132,900.09	\$132,900.09	Approved	No Impact	0038,0043, FWO00056	Lump Sum	\$ 132,900	PC 031	No - Work Complete
CHO-0044	0	29-May-18	7-Jun-18	Mass Concrete - Area 5 - El 17.19 to 18.69		\$2,199,699.72			\$2,199,699.72	Approved	Mitigation of potential weather days	n/a	Unit Price	\$ 2,083,813	PC 031,032	No - Work Complete
CHO-0045	0	8-Jul-18	2-Aug-18	Tailrace Retaining Wall and Fill Removal	\$ 67,320.00	\$320,040.00	\$429,183.52	\$930,430.84	\$1,746,974.36	Approved	No Impact	0054	Unit Price/ T&M	\$ 1,706,387	033,034,035,036, 037, 038	No - Work Complete
CHO-0046	0	8-Jul-18	23-Jul-18	CHR 057 - ECN 17 - Public Safety Fence at North Abutment			\$ 136,205.62	\$64,946.16	\$201,151.78	Approved	No Impact	0057	T & M	\$ 192,236		YES
CHO-0047	0	25-Aug-18	29-Aug-18	Long Term Structure Monitoring Survey Control Network			\$125,091.36	\$74,828.42	\$199,919.78	Approved	No Impact	0058	T & M	\$ 161,014	PC 036, 037, 038	No - Work Complete
CHO-0048	0	13-Oct-18	16-Oct-18	CHR-0053 - Groupt 4 Aggregates Crushing			\$ 225,844.59	\$757,702.11	\$983,546.70	Approved	No Impact	0053	T & M	\$ 983,547	PC 036	No - Work Complete
CHO-0049	0	20-Sep-18	17-Oct-18	CHR-0052 - Leveling Concrete for the Wedge		\$790,398.60			\$790,398.60	Approved		0052	Unit Price	\$ 790,399	PC 036	No - Work Complete
CHO-0050	0	22-Sep-18	6-Oct-18	Intake Excavation and Fill Removal			\$ 542,079.34	\$1,407,907.02	\$1,949,986.36	Approved	No Impact	0055	T & M	\$ 229,581	PC036, 037, 0XX	TBD
CHO-0051	0	10-Oct-18	23-Oct-18	Extension of Time		\$16,500,000.00			\$16,500,000.00	Approved	7 Month extension of time to the original completion date	n/a	Lump Sum	\$ 14,000,000	PC036, 037, 038...	No - Work Complete
CHO-0052	0	18-Oct-18	22-Oct-18	CHR-060 - Stayform Installation		\$40,748.80			\$40,748.80	Approved	No Impact	0060	Lump Sum	\$ 40,749	PC036	No - Work Complete
CHO-0053	0	25-Oct-18	7-Nov-18	Commercial Meeting 01-Oct-2018 - Resolution of Commercial Items		\$1,150,000.00			\$1,150,000.00	Approved	No Impact	035,037,028,039,044, CHO-005, Crane Incident	Lump Sum	\$ 1,150,000	PC037	No - Work Complete
CHO-0054	0	1-Nov-18	4-Nov-18	Credit for Batch Plant Early Shutdown		-\$650,000.00			(\$650,000.00)	Approved	No Impact	n/a	Lump Sum	-\$ 650,000	PC037	No - Work Complete

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CO #	Rev #	Doc Date	Date Received	Description of Change Work	Target Cost Labour	Fixed Cost EMS	T&M Labour	T&M EMS	Total Value	Status	Impact on Schedule	Change Request #	Adjustment Type	Revenue Approved to Date	Approval Status	Additional CHO required?
CHO-0055	0	2-Nov-18	4-Nov-18	Site Services Support			\$ 80,000.00	\$80,000.00	\$160,000.00	Approved	No Impact	FWO-0059, 0060	T & M	\$ 160,000	PC037, 038	YES
CHO-0056	0	9-Nov-18	14-Nov-18	Credit for Cancellation of the Permanent Road Construction	-\$ 25,289.82	-\$179,091.00			(\$204,380.82)	Approved				\$ -	PC037	No - Work Complete
CHO-0057	0	21-Dec-18	24-Dec-18	Powerhouse Drainage Gallery Trench Clean Out			\$ 188,996.19	\$55,430.00	\$244,426.19	Approved	No Impact	0063	T & M	\$ 167,300	PC038, 0XX	No - Work Complete
CHO-0058	0	21-Dec-18	24-Dec-18	Scaffold Removal in Tailrace			\$ 219,996.98	\$57,300.00	\$277,296.98	Approved	No Impact	0064	T & M	\$ 251,156	PC038	No - Work Complete
CHO-0059	0	14-Dec-18	18-Dec-18	Removal of Fill Upstream of Intake Cofferdam			\$ 101,824.24	\$218,750.00	\$320,574.24	Approved	No Impact	0065	T & M	\$ 668,158	PC038, 0XX	YES
CHO-0060	0	28-Nov-18	11-Jan-19	Dewatering Seepage Water			\$ 104,195.00	\$104,195.00	\$208,390.00	Pending	No Impact	0061	T & M	\$ 208,390	PC038, 0XX	YES - CHO-0064
CHO-0061	0	29-Nov-18	3-Dec-18	RCC Mix Design Program			\$ 168,927.83	\$526,282.37	\$695,201.20	Approved	No Impact	0056	Lump Sum	\$ 695,210	PC037	No - Work Complete
CHO-0062	0	10-Jan-19	25-Jan-19	Dewatering & Access Road Tailrace			\$ 125,000.00	\$125,000.00	\$250,000.00	Approved	No Impact	0066	T & M	\$ 228,432		No - Work Complete
CHO-0063	0	11-Jan-19	21-Jan-19	Grounding of Safety Fencing & Gurdail - North Dam			\$ 19,100.06	\$21,715.00	\$40,815.06	Approved	No Impact	0067	T & M			TBD
CHO-0064	0	28-Jan-19	31-Jan-19	Dewatering Seepage Water - Part 2			\$ 225,000.00	\$225,000.00	\$450,000.00	Pending	No Impact	0061	T&M	\$ 202,866		TBD
CHO-0065	0								\$0.00							

Original Contract Value	Original Contract Value	\$ 286,601,926.00
Approved COR Value	Approved COR Value	\$ 62,234,502.91
Pending COR Value	Backcharges	-\$ 1,893,218.13
Total Contract Value	Total Contract Value	\$ 346,943,210.78
	CHO-005	\$14,166,947.26
	<b>LCP Contract Total</b>	<b>\$ 332,776,263.52</b>