

AMENDMENT NO. 8  
 CONTRACT NO. 30000828

FOR

Powell Butte Reservoir 2, Phase 2

Pursuant to Ordinance No. \_\_\_\_\_

This Contract was made and entered by and between CH2M Hill, Inc., hereinafter called Contractor, and the City of Portland, a municipal corporation of the State of Oregon, by and through its duly authorized representatives, hereinafter called City.

The Contract is hereby amended as follows:

1. Additional work is necessary as described in the Scope of Work as follows:

**Task 9 – Assistance During Construction**

A. Interpretive Elements

The Contractor shall create and provide elements and provide assistance to the Portland Water Bureau (PWB)'s Construction Contractor. The elements to be provided by the Contractor are as follows:

- Eight additional 36" x 48" Phelonic resin maps with introduction at Trail Entrances;
- Thirty Mountain Finder Directional Signs – custom engraved wall mount signs; and
- One engraved 72" OD Stainless Steel Ring.

The total for this added work shall not exceed \$30,614.

B. Shop Drawings

The Contractor shall review an additional 1,100 shop drawings.

The total for this added work shall not exceed \$407,703.50.

C. Request for Information / Clarifications

The Contractor shall review an additional 300 Requests for Information, field orders, and change orders.

The total for this added work shall not exceed \$352,695.50.

D. Code and Non-Code Required Observations

The Contractor shall provide additional observations above what was in the original contract. The Contractor shall also provide additional observation and assistance in the field in terms of observation of the general construction assistance and answering questions that arise during the course of the project.

The total for this added work shall not exceed \$185,250.

E. Submittal Coordination and Liaison

The Contractor shall ensure that all design team members that are required to provide input to a response to the Construction Contractor is done so in a coordinated, efficient manner and that all comments are appropriate and adjudicated before being released to the Portland Water Bureau (PWB) construction team and Construction Contractor.

The total for this added work shall not exceed \$257,250.

F. Aerial Photos

The Contractor shall provide additional monthly aerial photographs of the work site through May 31, 2014.

The total for this added work shall not exceed \$41,160.

G. On-Site Construction Support

The Contractor shall provide On-Site Construction support as specified in the original contract up through July/August 2013.

The total for this added work shall not exceed \$725,000.

2. Additional compensation is necessary and shall not exceed \$1,999,673. The new not-to-exceed amount of this contract is \$12,267,934. The revised budget detail, attached as Exhibit A, replaces all previous Budget Details.
3. The following line from the Progress Payments article of the COMPENSATION section from Amendment 6 of this contract shall be deleted:

Invoices shall either be e-mailed to: wb.accountspayablesection@ci.portland.or.us (this is the preferred method) or sent to:

City of Portland Water Bureau  
Attn: Portland Water Bureau Accounts Payable  
1120 SW 5<sup>th</sup> Avenue, Room 609  
Portland, OR 97204

And replaced with:

Invoices shall be e-mailed to: wbaps@portlandoregon.gov.

All other terms and conditions shall remain unchanged and in full force and effect.

## CONTRACTOR SIGNATURE:

This contract amendment may be signed in two (2) or more counterparts, each of which shall be deemed an original, and which, when taken together, shall constitute one and the same contract amendment.

The parties agree the City and Contractor may conduct this transaction by electronic means, including the use of electronic signatures.

CH2M Hill, Inc.

By: \_\_\_\_\_

Date: 12 Oct 2012

Name: \_\_\_\_\_

Mark R. Johnson

Title: \_\_\_\_\_

Vice President

Address: \_\_\_\_\_

2020 SW 4th Ave, Ste 600, Portland, OR 97201

Telephone: \_\_\_\_\_

503 1235-5000

Contract No. 30000828 Amendment/Change Order No. 8Contract Title: Powell Butte Reservoir 2, Phase 2

## CITY OF PORTLAND SIGNATURES:

By: \_\_\_\_\_ Date: \_\_\_\_\_  
Chief Procurement OfficerBy: \_\_\_\_\_ Date: \_\_\_\_\_  
Elected Official

Approved:

By: \_\_\_\_\_ Date: \_\_\_\_\_  
Office of City Auditor

Approved as to Form: APPROVED AS TO FORM

By: \_\_\_\_\_ Date: 10/16/12  
Office of City Attorney *James H. Van Dyke*  
CITY ATTORNEY

Portland Water Bureau  
Powell Butte Reservoir No. 2 - Phase II  
Budget Detail  
Amendment No. 8  
Exhibit A

Team Member		CH2M HILL	AECOM	Neumann Park ESB	H.A. PI ESB	DMR Comm ESB	CAMEN Survey ESB	Western States Geo ESB	C.O.A.I. Geo ESB	Locates Down Geo	Pacific Geo Geo ESB	Brantford Electric ESB	Cascade Design Site/Civil ESB	Winterbrook Permitting ESB	APS Pipe Locating	NW Aero Pk Aerial Photos ESB	Stetson Geo ESB	Quality Counts Traffic Counts	Arch NW Archaeological	Sea Reach Ltd Interp Center ESB	Total
PROJECT MANAGEMENT - PM																					
Task 1 - Project Management	DE.01.CB	\$675,000	\$191,500																		\$866,500
Project Management	PM.01	\$100,000																			
Work Plans, etc.	PM.02	\$100,000																			
Accounting	PM.03	\$100,000																			
QC Manager	PM.04	\$100,000																			
Project Controls	PM.05	\$100,000																			
Subk Markup (Not included in \$675K for Task 1 - See Below for Detail)	PM.06	\$332,329																			
Added Services (Not included in \$675K for Task 1)	PM.07	\$461,795																			
DESIGN - DE (Subtasks 2 thru 7)																					
Task 2 - Preliminary Design	DE.02.CB	\$303,927	\$307,856	\$256,648	\$53,924	\$9,000	\$50,000	\$17,641	\$10,695	\$358	\$20,685	\$67,000	\$129,851	\$268,000	\$97,200	\$57,100	\$1,695	\$0	\$0	\$0	\$1,100,164
Reservoir No 2 Design	DE.02.RS																				
Electrical	DE.02.RS.EL		\$77,368																		\$77,368
Mechanical	DE.02.RS.ME																				
Structural	DE.02.RS.ST																				
Mixing System Analysis	DE.02.RS.MS		\$142,638																		\$142,638
Pipeline/Utilities/Site Civil/Discharges	DE.02.IF																				
Geotechnical Evaluation	DE.02.IF.GE	\$80,026																			
Survey	DE.02.SV						\$50,000	\$37,641	\$10,695	\$358	\$20,685				\$4,720		\$3,695				\$157,820
Pipelines	DE.02.PS																				\$50,000
Offsite Pipeline Options Analysis	DE.02.IF.PI.OR		\$37,446																		
Offsite Routing Study	DE.02.IF.PI.OS	\$57,176																			\$37,446
Pipeline Design (Offsite/Onsite/Overflow/Vaults)	DE.02.IF.PI																				\$57,176
Offsite	DE.02.IF.PI.OS	\$9,545																			\$9
Onsite	DE.02.IF.PI.ON	\$7,739																			\$7,739
Vault	DE.02.IF.PI.VT	\$8,513																			\$8,513
Vault Rehab	DE.02.IF.VR	\$8,290																			\$8,290
Dechlorination Vault	DE.02.IF.DV	\$14,533																			\$14,533
Overflow	DE.02.RS.HA																				
Hydraulics Analysis - Pipeline Sizing	DE.02.RS.OF	\$1,000	\$14,204																		\$15,204
Site Civil	DE.02.SC																				\$0
Electrical Utilities	DE.02.EL											\$1,000	\$12,738								\$13,738
Park Amenities	DE.02.LA																				\$4,000
Trail Plan Update	DE.02.LA.TP																				
Landscape Restoration	DE.02.LA.LR																				
Interpretive Signage	DE.02.LA.IS																				\$1,000
Architecture	DE.02.IF.AR	\$62,302																			\$1,000
Permitting/Public Outreach	DE.02.PR																				\$0
Permitting	DE.02.PR																				\$0
Desktop Documentation and Project Support	DE.02.AI	\$5,320													\$21,000						\$26,320
Desktop Archeological Investigation	DE.02.AI	\$5,320													\$21,000						\$26,320
Public Outreach	DE.02.PO																				\$0
QC/Spec/Support/Estimating/Misc	DE.02.SP																				\$0
Design Management	DE.02.SP.DM	\$8,685																			\$8,685
QC	DE.02.SP.QC	\$10,264																			\$10,264
Estimating	DE.02.SP.ES	\$3,988																			\$3,988
Support	DE.02.SP.SP	\$5,132																			\$5,132
Misc	DE.02.SP.SU	\$7,805																			\$7,805
Project Control	DE.02.SP.PC	\$3,553																			\$3,553
Chartering Meeting	DE.02.CM	\$7,000	\$5,400	\$1,200	\$1,612								\$1,000	\$1,000	\$1,500						\$18,712
Task 3 - 30% Initial Design	DE.03.CB	\$433,683	\$517,916	\$108,009	\$6,411	\$1,000	\$0	\$0	\$0	\$0	\$0	\$18,000	\$59,600	\$45,000	\$0	\$0	\$0	\$0	\$0	\$0	\$1,019,619
Reservoir No 2 Design	DE.03.RS																				
Electrical	DE.03.RS.EL		\$65,680																		\$65,680
Mechanical	DE.03.RS.ME		\$145,727																		\$145,727
Structural	DE.03.RS.ST		\$176,388																		\$176,388
Pipeline/Utilities/Site Civil/Discharges	DE.03.IF																				
Pipelines / Vaults	DE.03.IF.PI																				\$0
Offsite	DE.03.IF.PI.OS	\$78,629																			\$78,629
Onsite	DE.03.IF.PI.ON	\$64,753																			\$64,753
Vault	DE.03.IF.PI.VT	\$70,128																			\$70,128
Dechlorination Vault	DE.03.IF.DV	\$33,013																			\$33,013
Overflow	DE.03.RS.JC		\$52,540																		\$52,540
Johnson Creek Impacts Analysis	DE.03.RS.JC		\$52,540																		\$52,540
Design	DE.03.RS.OF		\$15,560																		\$15,560
Site Civil	DE.03.SC																				\$0
Geotech	DE.03.IF.GE	\$31,315												\$59,600	\$2,000						\$92,915
Electrical Utilities	DE.03.EL																				\$0
Park Amenities	DE.03.LA																				\$0
Trail Plan	DE.03.LA.TP																				\$0
Landscape Restoration	DE.03.LA.LR																				\$0
Interpretive Signage	DE.03.LA.IS																				\$0
Architecture	DE.03.IF.AR	\$100,991																			\$100,991
Permitting/Public Outreach	DE.03.PR																				\$0
Permitting	DE.03.PR																				\$0
Public Outreach	DE.03.PO	\$7,500																			\$7,500
QC/Spec/Support/Estimating/Misc	DE.03.SP																				

Portland Water Bureau  
Powell Butte Reservoir No. 2 - Phase II  
Budget Detail  
Amendment No. 8  
Exhibit A

Team Member		CH2M HILL	ARC OM	Neuere Park ESB	JLA PI ESB	McCl Comm ESB	CAMES Survey ESB	Western States Geo ESB	C.O.V.E. Geo ESB	Locates Down Geo	Pacific Geo Geo ESB	Bradford Electric ESB	Cascade Design Site/Civil ESB	Winterbrook Permitting ESB	APS Pipe Locating	NW Area Pk Aerial Photos ESB	Status Geo ESB	Quality Counts Traffic Counts	Arch NW Archaeological	Sea Reach Ltd Interp Center ESB	Total
Pipeline/Utilities/Site Civil/Discharges																					
Pipeline	DE.06.IF.PL																				\$0
Offsite	DE.06.IF.PL.OS	\$10,986																			\$10,986
Onsite	DE.06.IF.PL.ON	\$84,313																			\$84,313
Vault	DE.06.IF.PL.VT	\$92,744																			\$92,744
Dischlorination Vault	DE.06.DV	\$24,340																			\$24,340
Overflow	DE.06.RS.OF		\$18,740												\$1,000						\$19,740
Site Civil	DE.06.SC	\$75,000													\$2,000						\$77,000
Electrical Utilities	DE.06.EL											\$17,000									\$17,000
Park Amenities																					
Trail Plan	DE.06.LA.TP			\$12,121											\$2,000						\$14,121
Landscape Restoration	DE.06.LA.LR			\$12,703											\$4,000						\$16,703
Interpretive Signage	DE.06.LA.IS			\$3,320																	\$3,320
Architecture	DE.06.IF.AR	\$92,511																			\$92,511
Permitting/Public Outreach																					
Permitting	DE.06.PR		\$8,560																		\$8,560
Public Outreach	DE.06.PO				\$6,245	\$2,000									\$10,000						\$18,245
QC/Spec/Support/Estimating/Misc	DE.06.SP		\$21,927																		\$21,927
Design Management	DE.06.SP.DM	\$10,602																			\$10,602
QC	DE.06.SP.QC	\$12,530																			\$12,530
Estimating	DE.06.SP.ES	\$4,819																			\$4,819
Support	DE.06.SP.SP	\$6,265																			\$6,265
Misc	DE.06.SP.SU	\$9,639																			\$9,639
Project Control	DE.06.SP.PC	\$4,337																			\$4,337
BCOE Review	DE.06.BC	\$14,060	\$12,000																		\$26,060
Task 6 - 95% Pre-Final Design	DE.06.CB	\$94,698	\$105,845	\$3,723	\$0	\$1,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$19,000	\$0	\$0	\$0	\$0	\$0	\$0	\$224,266
Reservoir No 2 Design																					
Electrical	DE.06.RS.EL		\$8,940																		\$8,940
Mechanical	DE.06.RS.ME		\$16,511																		\$16,511
Structural	DE.06.RS.ST		\$42,244																		\$42,244
Pipeline/Utilities/Site Civil/Discharges																					
Pipeline	DE.06.IF.PL																				\$0
Offsite	DE.06.IF.PL.OS	\$4,114																			\$4,114
Onsite	DE.06.IF.PL.ON	\$3,336																			\$6,450
Vault	DE.06.IF.PL.VT	\$4,670																			\$9,040
Dischlorination Vault	DE.06.DV	\$6,807																			\$6,807
Overflow	DE.06.RS.OF		\$5,801												\$2,000						\$7,801
Site Civil	DE.06.SC														\$2,000						\$2,000
Electrical Utilities	DE.06.EL																				
Park Amenities																					
Trail Plan	DE.06.LA.TP			\$1,923											\$2,500						\$4,423
Landscape Restoration	DE.06.LA.LR			\$1,000											\$2,500						\$3,500
Interpretive Signage	DE.06.LA.IS			\$760																	\$760
Architecture	DE.06.IF.AR	\$39,171																			\$39,171
Permitting/Public Outreach																					
Permitting	DE.06.PR																				
Public Outreach	DE.06.PO					\$1,000									\$40,000						\$41,000
QC/Spec/Support/Estimating/Misc	DE.06.SP		\$31,099																		\$31,099
Design Management	DE.06.SP.DM	\$5,632																			\$5,632
QC	DE.06.SP.QC	\$6,656																			\$6,656
Estimating	DE.06.SP.ES	\$3,529																			\$3,529
Support	DE.06.SP.SP	\$3,328																			\$3,328
Misc	DE.06.SP.SU	\$5,120																			\$5,120
Project Control	DE.06.SP.PC	\$2,304																			\$2,304
BCOE Review	DE.06.BC	\$12,000	\$1,250																		\$13,250
Task 7 100% Final Design	DE.07.CB	\$287,980	\$98,140	\$38,521	\$6,086	\$2,000	\$0	\$0	\$0	\$0	\$0	\$12,000	\$289	\$36,000	\$0	\$0	\$0	\$0	\$0	\$0	\$481,016
Reservoir No 2 Design																					
Electrical	DE.07.RS.EL		\$7,495																		\$7,495
Mechanical	DE.07.RS.ME		\$15,511																		\$15,511
Structural	DE.07.RS.ST		\$40,574																		\$40,574
Pipeline/Utilities/Site Civil/Discharges																					
Pipeline	DE.07.IF.PL																				\$0
Offsite	DE.07.IF.PL.OS	\$79,724																			\$79,724
Onsite	DE.07.IF.PL.ON	\$64,641																			\$124,365
Vault	DE.07.IF.PL.VT	\$71,105																			\$142,210
Dischlorination Vault	DE.07.DV	\$11,800																			\$11,800
Overflow	DE.07.RS.OF		\$9,201												\$2,000						\$11,201
Site Civil	DE.07.SC	\$24,737																			\$24,737
Electrical Utilities	DE.07.EL											\$12,000	\$189		\$2,000						\$14,189
Park Amenities																					
Trail Plan	DE.07.LA.TP			\$17,557											\$2,000						\$19,557
Landscape Restoration	DE.07.LA.LR			\$19,254											\$2,000						\$21,254
Interpretive Signage	DE.07.LA.IS			\$1,710																	\$1,710
Architecture	DE.07.IF.AR	\$15,943																			\$15,943
Permitting/Public Outreach																					
Permitting	DE.07.PR																				
Public Outreach	DE.07.PO				\$6,086	\$2,000									\$10,000						\$18,086
QC/Spec/Support/Estimating/Misc	DE.07.SP		\$15,359																		\$15,359
Design Management	DE.07.SP.DM	\$4,407																			\$4,407
QC	DE.07.SP.QC	\$5,208																			\$5,208
Estimating	DE.07.SP.ES	\$2,003																			\$2,003
Support	DE.07.SP.SP	\$2,604																			\$2,604
Misc	DE.07.SP.SU	\$1,006																			\$1,006
Project Control	DE.07.SP.PC	\$1,803																			\$1,803
ASSISTANCE DURING BIDDING - DB																					
Task 8 - Asst During Bidding	DB.08.CB	\$84,662	\$48,384	\$15,769	\$0	\$6,000	\$0	\$0	\$0	\$0	\$0	\$2,500		\$1,500							\$109,315
	DB.08.DB	\$84,662	\$48,384	\$15,769		\$6,000						\$2,500		\$1,500							\$109,315
ASST DURING CONSTRUCTION - SD																					
Task 9 - Asst During Constr	SD.09.CB	\$2,150,712	\$1,317,932	\$67,212	\$0	\$36,000	\$0	\$0	\$0	\$0	\$0	\$109,275	\$0	\$5,000	\$0	\$19,200	\$0	\$0	\$0	\$29,156	\$3,765,187
Engineering Support Services	SD.09.SS	\$617,870	\$466,932	\$67,212		\$36,000						\$12,500		\$5,000							\$728,514
Resident Engineering Observer	SD.09.EO	\$500,000	\$0																		\$500,000
Amendment No. 8		\$921,500	\$861,000									\$97,475				\$39,200					\$2,000,175
Sub Mark Up on Amendment No. 8 (5%)		\$51,342																			\$53,884
Sub Mark Up on Original Fee (5%)		\$210,221																			\$420,442
Additional Services	ASCB	\$339,972	\$15,608	\$0	\$0	\$0	\$15,100	\$6,176	\$3,093	\$400	\$0	\$0	\$0	\$1,400	\$5,000	\$57,400	\$8,716	\$3,300	\$5,500	\$461,795	
Amendment No. 4 (CO #1)		\$710,092	\$196,660	\$206,000			\$50,000	\$3,100	\$620			\$98,280		\$78,384		\$21,600					\$1,215,015
Amendment No. 4 (Attributed to PM - Task 1)		\$19,098																			\$19,098
Amendment No. 4 (Attributed to Design Task 2 thru 7)		\$515,114	\$196,660	\$206,000			\$50,000	\$3,100	\$620			\$98,280		\$78,384		\$21,600					\$1,215,015
Amendment No. 4 (Attributed to Bidding Task 8)		\$100,701																			\$100,701
Amendment No. 4 (Attributed to Constr Svcs Task																					