

**HRG - CM Services During Construction - MBE/WBE Participation December 1, 2008 to December 31, 2009 (13 months)**

Utilization/Participation Breakdown	BWARI - PART 1	BWOAS - PART 2	BWOAS - AQCF PART 2B	TOTAL Part 1, 2 & 2B
<b>1 Sub-Total - HRGA</b>	<b>\$ 1,274,538</b>	<b>\$ 83,222</b>	<b>\$ 128,517</b>	<b>\$ 1,486,277</b>
	<b>86.7%</b>	<b>97.1%</b>	<b>98.6%</b>	<b>88.1%</b>
<b>2 MBE/WBE Subcontractors</b>				
MBE - CTL Testing	\$ 3,000	\$ -	\$ -	\$ 3,000
MBE -	\$ -	\$ -	\$ -	\$ -
MBE - Dynotec	\$ 181,030	\$ -	\$ -	\$ 181,030
MBE -	\$ -	\$ -	\$ -	\$ -
WBE -	\$ -	\$ -	\$ -	\$ -
<b>2 Sub-Total - MBE/WBE</b>	<b>\$ 184,030</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 184,030</b>
	<b>12.5%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>10.9%</b>
<b>3 Non MBE/WBE Subcontractors</b>				
Microman (Computer Equipment)	\$ 11,650	\$ 2,510	\$ 1,848	\$ 16,008
Snyder Engineering	\$ -	\$ -	\$ -	\$ -
Ron Heuer	\$ -	\$ -	\$ -	\$ -
Corrosion Probe, Inc.	\$ -	\$ -	\$ -	\$ -
<b>Sub-Total - OTHER SUBS (non MBE/WBE)</b>	<b>\$ 11,650</b>	<b>\$ 2,510</b>	<b>\$ 1,848</b>	<b>\$ 16,008</b>
	<b>0.8%</b>	<b>2.9%</b>	<b>1.4%</b>	<b>0.9%</b>
<b>HRGA TOTAL CONTRACT</b>	<b>\$ 1,470,218</b>	<b>\$ 85,732</b>	<b>\$ 130,365</b>	<b>\$ 1,686,315</b>
	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>
Construction Cost	\$ 90,779,625	\$ 78,660,000	\$ 4,000,000	\$ 173,439,625
<b>CM Services as Percent of Construction</b>	<b>1.62%</b>	<b>0.11%</b>	<b>3.26%</b>	<b>0.97%</b>

**HRG - CM Services During Construction - December 1, 2008 to December 31, 2009 (13 months)**

	BWARI - PART 1	BWOAS - PART 2	BWOAS - AQCF PART 2B	TOTAL Part 1, 2 & 2B
<b>Home Office Cost</b>				
HRGA Office Labor	\$ 45,078	\$ 5,049	\$ 7,573	\$ 57,701
Overhead 1.76	\$ 79,338	\$ 8,886	\$ 13,329	\$ 101,553
Other Direct Costs	\$ -	\$ -	\$ -	\$ -
Local Mileage	\$ -	\$ -	\$ -	\$ -
Equip., Materials & Supplies	\$ -	\$ -	\$ -	\$ -
Subcontracts	\$ -	\$ -	\$ -	\$ -
Synder Engineering	\$ -	\$ -	\$ -	\$ -
Ronald Heuer	\$ -	\$ -	\$ -	\$ -
Corrosion Probe, Inc.	\$ -	\$ -	\$ -	\$ -
Other	\$ -	\$ -	\$ -	\$ -
Fee (10%)	\$ 12,442	\$ 1,393	\$ 2,090	\$ 15,925
<b>Total Office Cost</b>	\$ 136,858	\$ 15,328	\$ 22,992	\$ 175,179
	8.1%	0.9%	1.4%	10.4%
<b>Home Field Cost</b>				
HRGA Field Labor	\$ 411,733	\$ 23,817	\$ 36,887	\$ 472,436
Overhead 1.50	\$ 617,599	\$ 35,725	\$ 55,330	\$ 708,655
Other Direct Costs	\$ -	\$ -	\$ -	\$ -
Local Mileage	\$ 2,925	\$ 878	\$ 1,755	\$ 5,558
Equip., Materials & Supplies	\$ 2,490	\$ 1,520	\$ 2,330	\$ 6,340
Subcontracts	\$ -	\$ -	\$ -	\$ -
CTL - MBE (Material Testing)	\$ 3,000	\$ -	\$ -	\$ 3,000
Microman (Computer System Support)	\$ 11,650	\$ 2,510	\$ 1,848	\$ 16,008
Dynotec - MBE (Tunnel Inspector - 1 ea)	\$ 177,530	\$ -	\$ -	\$ 177,530
FBE - Clerical Support - none)	\$ -	\$ -	\$ -	\$ -
Dynotec Tunnel Inspectors - Reimbursable Expenses	\$ 3,500	\$ -	\$ -	\$ 3,500
Fee (10%)	\$ 102,933	\$ 5,954	\$ 9,222	\$ 118,109
<b>Total Field Cost</b>	\$ 1,333,360	\$ 70,404	\$ 107,372	\$ 1,511,136
	79.1%	4.2%	6.4%	89.6%
<b>HRGA TOTAL CONTRACT</b>	\$ 1,470,218	\$ 85,732	\$ 130,365	\$ 1,686,315
	87.2%	5.1%	7.7%	100.0%
<b>Construction Cost</b>	\$ 90,779,625	\$ 78,660,000	\$ 4,000,000	\$ 173,439,625
	52%	45%	2%	100%
<b>CM Services as Percent of Construction</b>	1.62%	0.11%	3.26%	0.97%



**EXHIBIT E**  
**COST SUMMARY - HRG Construction Management "Office" Services for BWARI, Part 1**

1. CITY: Department of Public Utilities	2. CIP: 491.1	3. VERSION: 12 Duration (mon): 13	BWARI 13	
4. NAME OF CONSULTANT: <b>H.R. Gray, Inc</b>	5. PROJECT TITLE: <b>BWARI - CM During Construction (13 months) - Part 1</b>			
6. ADDRESS: 1335 Dublin Rd., #100-B Columbus, OH 43215	7. TYPE OF CONTRACT From/To: 1-Dec-08 Cost + Fixed Fee 31-Dec-09			
8. DIRECT LABOR (specify labor categories):	HOUR RATE	EST. HOURS	EST. COST	Totals
	Max Rate			
Principal (PR) -	\$81.12	180	\$14,602	
Sr. Construction Manager (SCM)	\$78.15	390	\$30,477	
Administrative Assistant - Office (AAO) -	\$37.86	0	\$0	
<b>Direct Labor Total:</b>			<b>570</b>	<b>\$45,078</b>
<b>Direct Field Labor:</b>				
Project Coordinator/Sr. Const Mgr. (PC/SCM) -	\$78.15	0	\$0	
Construction Manager (CM) -	\$55.16	0	\$0	
Field Project Engineer (FPE)	\$31.37	0	\$0	
Construction Inspector (CI) -	\$31.37	0	\$0	
Administrative Assistant - Field (AAF) -	\$30.83	0	\$0	
Engineering Intern / Coop (EI) -	\$17.04	0	\$0	
<b>Direct Field Labor:</b>			<b>0</b>	<b>\$0</b>
9. INDIRECT COSTS	Rate	x DL Total	Est. Cost	
Payroll (0.95) + Admin (0.81) Direct Labor	1.76	\$45,078	\$79,338	
Payroll (0.95) + Admin (0.55) Field Labor	1.50	\$0	\$0	
<b>INDIRECT COSTS SUBTOTAL:</b>				<b>\$79,338</b>
10. OTHER DIRECT COSTS (ODC)	Rate		Est. Cost	
a. Travel (Miles X Rate per Mile) Current IRS Rate (On Site)	0	\$0.585	\$0	
<b>b. Equipment, Materials, Supplies</b>				
Lodging & Travel Exp - Out-of-Town			\$0	
Telephone Exp & Communications Equip			\$0	
Field Office Equipment & Supplies			\$0	
Utilities (Water)			\$0	
Courier Service (Dynamix - MBE)			\$0	
<b>b. Subtotal:</b>			<b>\$0</b>	
<b>c. Subcontracts:</b>				
	Rate	Hours	Est. Cost	
CTL Material Testing Laboratory - MBE (Material Testing)			\$0	
Microman (Computer System Supply & Support)			\$0	
Dynotec - MBE Tunnel Inspector - 1 (10 months @ 50 hr/wk)			\$0	
			\$0	
Synder Engineering, PE (TBM Consultant)			\$0	
Ronald Heuer, PE, PhD (Geotech Consultant)			\$0	
Corrosion Probe, Inc (Coating Consultant)			\$0	
<b>c. Subtotal:</b>			<b>\$0</b>	
<b>d. Other (specify categories):</b>				
			Est. Cost	
<b>d. Subtotal:</b>			<b>\$0</b>	
<b>SUBTOTAL #10 (a, b, c &amp; d):</b>				<b>\$0</b>
11. TOTAL COST (Direct Labor + Indirect + Other Direct Costs)				<b>\$124,416</b>
12. FIXED FEE (No markup on Other Direct Costs - ODC)		10%		<b>\$12,442</b>
13. TOTAL PRICE				<b>\$136,858</b>
14. OTHER SERVICES, As Requested				<b>\$0</b>
15. TOTAL CONTRACT MODIFICATION for CM Services				<b>\$136,858</b>
16. Construction Cost (@ Bid Opening) =	<b>\$90,779,625</b>	CM Percent of Construction =		<b>0.15%</b>



**EXHIBIT E**  
**COST SUMMARY - HRGA Construction Management "Field" Services for BWARI, Part 1**

1. CITY: Department of Public Utilities		2. CIP: 491.1	3. VERSION: 12 Duration (mon): 13	BWARI
4. NAME OF CONSULTANT: <b>H.R. Gray, Inc</b>		5. PROJECT TITLE: <b>BWARI - CM During Construction (13 months) - Part 1</b>		
6. ADDRESS: 1335 Dublin Rd., #100-B Columbus, OH 43215		7. TYPE OF CONTRACT From/To: 1-Dec-08 Cost + Fixed Fee 31-Dec-09		
8. DIRECT LABOR (specify labor categories):	HOUR RATE	EST. HOURS	EST. COST	Totals
	Max Rate			
Principal (PR) -	\$81.12	0	\$0	
Sr. Construction Manager (SCM)	\$78.15	0	\$0	
Administrative Assistant - Office (AAO) -	\$37.86	0	\$0	
<b>Direct Labor Total:</b>			<b>0</b>	<b>\$0</b>
<b>Direct Field Labor:</b>				
Project Coordinator/Sr. Const Mgr. (PC/SCM) -	\$78.15	1,600	\$125,033	
Construction Manager (CM) -	\$55.16	1,800	\$99,291	
Field Project Engineer (FPE) -	\$31.37	1,780	\$55,832	
Construction Inspector (CI) -	\$31.37	2,100	\$65,869	
Administrative Assistant - Field (AAF) -	\$30.83	1,800	\$55,486	
Engineering Intern / Coop (EI) -	\$17.04	600	\$10,221	
<b>Direct Field Labor:</b>			<b>9,680</b>	<b>\$411,733</b>
9. INDIRECT COSTS	Rate	x DL Total	Est. Cost	
Payroll (0.95) + Admin (0.81) Direct Labor	1.76	\$0	\$0	
Payroll (0.95) + Admin (0.55) Field Labor	1.50	\$411,733	\$617,599	
<b>INDIRECT COSTS SUBTOTAL:</b>				<b>\$617,599</b>
10. OTHER DIRECT COSTS (ODC)	Rate		Est. Cost	
a. Travel (Miles X Rate per Mile) Current IRS Rate (On Site)	5,000	\$0.585	\$2,925	
<b>b. Equipment, Materials, Supplies</b>				
Lodging & Travel Exp - Out-of-Town			\$0	
Telephone Exp & Communications Equip			\$540	
Field Office Equipment & Supplies			\$1,700	
Utilities (Water)			\$250	
Courier Service (Dynamix - MBE)			\$0	
<b>b. Subtotal:</b>			<b>\$2,490</b>	
<b>c. Subcontracts:</b>				
	Rate	Hours	Est. Cost	
CTL Material Testing Laboratory - MBE (Material Testing)			\$3,000	
Microman (Computer System Supply & Support)			\$11,650	
Dynotec - MBE Tunnel Inspector - 1 (10 months @ 50 hr/wk)	\$82.00	2,165	\$177,530	
Synder Engineering, PE (TBM Consultant)			\$0	
Ronald Heuer, PE, PhD (Geotech Consultant)			\$0	
Corrosion Probe, Inc (Coating Consultant)			\$0	
<b>c. Subtotal:</b>			<b>\$192,180</b>	
<b>d. Other (specify categories):</b>				
Tunnel Inspector for Dynotec - Reimb Expenses (MBE)			\$3,500	
<b>d. Subtotal:</b>			<b>\$3,500</b>	
<b>SUBTOTAL #10 (a, b, c &amp; d):</b>				<b>\$201,095</b>
11. TOTAL COST (Direct Labor + Indirect + Other Direct Costs)				<b>\$1,230,427</b>
12. FIXED FEE (No markup on Other Direct Costs - ODC)		10%		\$102,933
13. TOTAL PRICE				<b>\$1,333,360</b>
14. OTHER SERVICES, As Requested				\$0
15. TOTAL CONTRACT MODIFICATION for CM Services				<b>\$1,333,360</b>
16. Construction Cost (@ Bid Opening) =	\$90,779,625	CM Percent of Construction =		1.47%



**EXHIBIT E**  
**COST SUMMARY - HRG Construction Management "Office" Services for BWOAS, Part 2**

1. CITY: Department of Public Utilities	2. CIP: 430.1	3. VERSION: 12 Duration (mon):	BWOAS 3	
4. NAME OF CONSULTANT: <i>H.R. Gray, Inc</i>	5. PROJECT TITLE: <i>BWOAS - CM During Construction (3 months) - Part 2</i>			
6. ADDRESS: 1335 Dublin Rd., #100-B Columbus, OH 43215	7. TYPE OF CONTRACT From/To: 1-Dec-08 Cost + Fixed Fee 28-Feb-09			
8. DIRECT LABOR (specify labor categories):	HOUR RATE	EST. HOURS	EST. COST	Totals
	Max Rate			
Principal (PR) -	\$81.12	16	\$1,298	
Sr. Construction Manager - (SCM) -	\$78.15	48	\$3,751	
Administrative Assistant - Office (AAO) -	\$37.86	0	\$0	
<b>Direct Labor Total:</b>			<b>64</b>	<b>\$5,049</b>
<b>Direct Field Labor:</b>				
Project Coordinator/Sr. Const Mgr. (PC/SCM) -	\$78.15	0	\$0	
Construction Manager (CM) -	\$55.16	0	\$0	
Field Project Engineer (FPE) -	\$31.37	0	\$0	
Construction Inspector (CI) -	\$31.37	0	\$0	
Administrative Assistant - Field (AAF) -	\$30.83	0	\$0	
Engineering Intern / Coop (EI) -	\$17.04	0	\$0	
<b>Direct Field Labor:</b>			<b>0</b>	<b>\$0</b>
9. INDIRECT COSTS	Rate	x DL Total	Est. Cost	
Payroll (0.95) + Admin (0.81) Direct Labor	1.76	\$5,049	\$8,886	
Payroll (0.95) + Admin (0.55) Field Labor	1.50	\$0	\$0	
<b>INDIRECT COSTS SUBTOTAL:</b>				<b>\$8,886</b>
10. OTHER DIRECT COSTS (ODC)	Rate		Est. Cost	
a. Travel (Miles X Rate per Mile) Current IRS Rate (On Site)	0	\$0.585	\$0	
<b>b. Equipment, Materials, Supplies</b>				
Lodging & Travel Exp - Out-of-Town			\$0	
Telephone Exp & Communications Equip			\$0	
Field Office Equipment & Supplies			\$0	
Utilities (Water)			\$0	
Courier Service (Dynamix - MBE)			\$0	
<b>b. Subtotal:</b>			<b>\$0</b>	
<b>c. Subcontracts:</b>				
	Rate	Hours	Est. Cost	
CTL Material Testing Laboratory - MBE (Material Testing)			\$0	
Microman (Computer System Supply & Support)			\$0	
Synder Engineering, PE (TBM Consultant)			\$0	
Ronald Heuer, PE, PhD (Geotech Consultant)			\$0	
Corrosion Probe Inc. (Coating Consultant)			\$0	
<b>c. Subtotal:</b>			<b>\$0</b>	
<b>d. Other (specify categories):</b>				
			Est. Cost	
<b>d. Subtotal:</b>			<b>\$0</b>	
<b>SUBTOAL #10 (a, b, c &amp; d):</b>				<b>\$0</b>
11. TOTAL COST (Direct Labor + Indirect + Other Direct Costs)				<b>\$13,935</b>
12. FIXED FEE (No markup on Other Direct Costs - ODC)		10%		\$1,393
13. TOTAL PRICE				<b>\$15,328</b>
14. OTHER SERVICES, As Requested				\$0
15. TOTAL CONTRACT MODIFICATION for CM Services				<b>\$15,328</b>
16. Construction Cost (@ Bid Opening) =	\$78,660,000	CM Percent of Construction =		0.02%





**EXHIBIT E**  
**COST SUMMARY - HRG Construction Management "Field" Services for BWOAS, Part 2**

1. CITY: Department of Public Utilities	2. CIP: 430.1	3. VERSION: 12 Duration (mon):	BWOAS 3	
4. NAME OF CONSULTANT: <i>H.R. Gray, Inc</i>	5. PROJECT TITLE: <i>BWOAS - CM During Construction (3 months) - Part 2</i>			
6. ADDRESS: 1335 Dublin Rd., #100-B Columbus, OH 43215	7. TYPE OF CONTRACT From/To: 1-Dec-08 Cost + Fixed Fee 28-Feb-09			
8. DIRECT LABOR (specify labor categories):	HOUR RATE	EST. HOURS	EST. COST	Totals
	Max Rate			
Principal (PR) -	\$81.12	0	\$0	
Sr. Construction Manager (SCM) -	\$78.15	0	\$0	
Administrative Assistant - Office (AAO) -	\$37.86	0	\$0	
<b>Direct Labor Total:</b>				<b>0</b>
<b>Direct Field Labor:</b>				
Project Coordinator/Sr. Const Mgr. (PC/SCM) -	\$78.15	80	\$6,252	
Construction Manager (CM) -	\$55.16	160	\$8,826	
Field Project Engineer (FPE) -	\$31.37	120	\$3,764	
Construction Inspector (CI) -	\$31.37	80	\$2,509	
Administrative Assistant - Field (AAF) -	\$30.83	80	\$2,466	
Engineering Intern / Coop (EI) -	\$17.04	0	\$0	
<b>Direct Field Labor:</b>				<b>520</b>
				<b>\$23,817</b>
9. INDIRECT COSTS	Rate	x DL Total	Est. Cost	
Payroll (0.95) + Admin (0.81) Direct Labor	1.76	\$0	\$0	
Payroll (0.95) + Admin (0.55) Field Labor	1.50	\$23,817	\$35,725	
<b>INDIRECT COSTS SUBTOTAL:</b>				<b>\$35,725</b>
10. OTHER DIRECT COSTS (ODC)	Rate		Est. Cost	
a. Travel (Miles X Rate per Mile) Current IRS Rate (On Site)	1,500	\$0.585	\$878	
<b>b. Equipment, Materials, Supplies</b>				
Lodging & Travel Exp - Out-of-Town			\$0	
Telephone Exp & Communications Equip			\$100	
Field Office Equipment & Supplies			\$1,420	
Utilities (Water)			\$0	
Courier Service (Dynamix)			\$0	
<b>b. Subtotal:</b>				<b>\$1,520</b>
<b>c. Subcontracts:</b>				
	Rate	Hours	Est. Cost	
CTL Material Testing Laboratory - MBE (Material Testing)			\$0	
Microman (Computer System Supply & Support)			\$2,510	
Synder Engineering, PE (TBM Consultant)			\$0	
Ronald Heuer, PE, PhD (Geotech Consultant)			\$0	
Corrosion Probe Inc. (Coating Consultant)			\$0	
<b>c. Subtotal:</b>				<b>\$2,510</b>
<b>d. Other (specify categories):</b>				
			Est. Cost	
<b>d. Subtotal:</b>				<b>\$0</b>
<b>SUBTOTAL #10 (a, b, c &amp; d):</b>				<b>\$4,908</b>
11. TOTAL COST (Direct Labor + Indirect + Other Direct Costs)				<b>\$64,450</b>
12. FIXED FEE (No markup on Other Direct Costs - ODC)		10%		\$5,954
13. TOTAL PRICE				<b>\$70,404</b>
14. OTHER SERVICES, As Requested				\$0
15. TOTAL CONTRACT MODIFICATION for CM Services				<b>\$70,404</b>
16. Construction Cost (@ Bid Opening) =	\$78,660,000	CM Percent of Construction =		0.09%



**EXHIBIT E**  
**COST SUMMARY - HRG Construction Management "Office" Services for BWOAS - AQCF, Part 2B**

1. CITY: Department of Public Utilities	2. CIP: 430.1 AQCF	3. VERSION: 12 Duration (mon): 4.5	BWOAS	
4. NAME OF CONSULTANT: H.R. Gray, Inc	5. PROJECT TITLE: BWOAS - CM During Construction (4.5 months) Air Quality Control Facility - Part 2B			
6. ADDRESS: 1335 Dublin Rd., #100-B Columbus, OH 43215	7. TYPE OF CONTRACT From/To: 1-Dec-08 Cost + Fixed Fee 15-Apr-09			
8. DIRECT LABOR (specify labor categories):	HOUR RATE	EST. HOURS	EST. COST	Totals
	Max Rate			
Principal (PR) -	\$81.12	24	\$1,947	
Sr. Construction Manager - (SCM) -	\$78.15	72	\$5,626	
Administrative Assistant - Office (AAO) -	\$37.86	0	\$0	
<b>Direct Labor Total:</b>			<b>96</b>	<b>\$7,573</b>
<b>Direct Field Labor:</b>				
Project Coordinator/Sr. Const Mgr. (PC/SCM) -	\$78.15	0	\$0	
Construction Manager (CM) -	\$55.16	0	\$0	
Field Project Engineer (FPE) -	\$31.37	0	\$0	
Construction Inspector (CI) -	\$31.37	0	\$0	
Administrative Assistant - Field (AAF) -	\$30.83	0	\$0	
Engineering Intern / Coop (EI) -	\$17.04	0	\$0	
<b>Direct Field Labor:</b>			<b>0</b>	<b>\$0</b>
9. INDIRECT COSTS	Rate	x DL Total	Est. Cost	
Payroll (0.95) + Admin (0.81) Direct Labor	1.76	\$7,573	\$13,329	
Payroll (0.95) + Admin (0.55) Field Labor	1.50	\$0	\$0	
<b>INDIRECT COSTS SUBTOTAL:</b>				<b>\$13,329</b>
10. OTHER DIRECT COSTS (ODC)	Rate		Est. Cost	
a. Travel (Miles X Rate per Mile) Current IRS Rate (On Site)	0	\$0.585	\$0	
<b>b. Equipment, Materials, Supplies</b>				
Lodging & Travel Exp - Out-of-Town			\$0	
Telephone Exp & Communications Equip			\$0	
Field Office Equipment & Supplies			\$0	
Utilities (Water)			\$0	
Courier Service (Dynamix - MBE)			\$0	
<b>b. Subtotal:</b>			<b>\$0</b>	
<b>c. Subcontracts:</b>				
	Rate	Hours	Est. Cost	
CTL Material Testing Laboratory - MBE (Material Testing)			\$0	
Microman (Computer System Supply & Support)			\$0	
Synder Engineering, PE (TBM Consultant)			\$0	
Ronald Heuer, PE, PhD (Geotech Consultant)			\$0	
Corrosion Probe, Inc (Coating Consultant)			\$0	
<b>c. Subtotal:</b>			<b>\$0</b>	
<b>d. Other (specify categories):</b>				
			Est. Cost	
<b>d. Subtotal:</b>			<b>\$0</b>	
<b>SUBTOTAL #10 (a, b, c &amp; d):</b>				<b>\$0</b>
11. TOTAL COST (Direct Labor + Indirect + Other Direct Costs)				<b>\$20,902</b>
12. FIXED FEE (No markup on Other Direct Costs - ODC)		10%		\$2,090
13. TOTAL PRICE				<b>\$22,992</b>
14. OTHER SERVICES, As Requested				\$0
15. TOTAL CONTRACT MODIFICATION for CM Services				<b>\$22,992</b>
16. Construction Cost (@ Bid Opening) =	\$4,000,000	CM Percent of Construction =		0.57%



**EXHIBIT E**  
**COST SUMMARY - HRG Construction Management "Field" Services for BWOAS - AQCF, Part 2B**

1. CITY: Department of Public Utilities	2. CIP: 430.1 AQCF	3. VERSION: 12 Duration (mon):	BWOAS 4.5	
4. NAME OF CONSULTANT: H.R. Gray, Inc	5. PROJECT TITLE: BWOAS - CM During Construction (4.5 Months) Air Quality Control Facility - Part 2B			
6. ADDRESS: 1335 Dublin Rd., #100-B Columbus, OH 43215	7. TYPE OF CONTRACT From/To: 1-Dec-08 Cost + Fixed Fee 15-Apr-09			
8. DIRECT LABOR (specify labor categories):	HOUR RATE	EST. HOURS	EST. COST	Totals
	Max Rate			
Principal (PR) -	\$81.12	0	\$0	
Sr. Construction Manager (SCM) -	\$78.15	0	\$0	
Administrative Assistant - Office (AAO) -	\$37.86	0	\$0	
<b>Direct Labor Total:</b>				<b>\$0</b>
<b>Direct Field Labor:</b>				
Project Coordinator/Sr. Const Mgr. (PC/SCM) -	\$78.15	144	\$11,253	
Construction Manager (CM) -	\$55.16	200	\$11,032	
Field Project Engineer (FPE) -	\$31.37	210	\$6,587	
Construction Inspector (CI) -	\$31.37	0	\$0	
Administrative Assistant - Field (AAF) -	\$30.83	260	\$8,015	
Engineering Intern / Coop (EI) -	\$17.04	0	\$0	
<b>Direct Field Labor:</b>				<b>\$36,887</b>
9. INDIRECT COSTS	Rate	x DL Total	Est. Cost	
Payroll (0.95) + Admin (0.81) Direct Labor	1.76	\$0	\$0	
Payroll (0.95) + Admin (0.55) Field Labor	1.50	\$36,887	\$55,330	
<b>INDIRECT COSTS SUBTOTAL:</b>				<b>\$55,330</b>
10. OTHER DIRECT COSTS (ODC)	Rate		Est. Cost	
a. Travel (Miles X Rate per Mile) Current IRS Rate (On Site)	3,000	\$0.585	\$1,755	
<b>b. Equipment, Materials, Supplies</b>				
Lodging & Travel Exp - Out-of-Town			\$0	
Telephone Exp & Communications Equip			\$400	
Field Office Equipment & Supplies			\$1,930	
Utilities (Water)			\$0	
Courier Service (Dynamix)			\$0	
<b>b. Subtotal:</b>				<b>\$2,330</b>
<b>c. Subcontracts:</b>				
	Rate	Hours	Est. Cost	
CTL Material Testing Laboratory - MBE (Material Testing)			\$0	
Microman (Computer System Supply & Support)			\$1,848	
Synder Engineering, PE (TBM Consultant)			\$0	
Ronald Heuer, PE, PhD (Geotech Consultant)			\$0	
Corrosion Probe, Inc (Coating Consultant)			\$0	
<b>c. Subtotal:</b>				<b>\$1,848</b>
<b>d. Other (specify categories):</b>				
			Est. Cost	
<b>d. Subtotal:</b>				<b>\$0</b>
<b>SUBTOTAL #10 (a, b, c &amp; d):</b>				<b>\$5,933</b>
11. TOTAL COST (Direct Labor + Indirect + Other Direct Costs)				<b>\$98,150</b>
12. FIXED FEE (No markup on Other Direct Costs - ODC)		10%		\$9,222
13. TOTAL PRICE				<b>\$107,372</b>
14. OTHER SERVICES, As Requested				\$0
15. TOTAL CONTRACT MODIFICATION for CM Services				<b>\$107,372</b>
16. Construction Cost (@ Bid Opening) =	\$4,000,000	CM Percent of Construction =		2.68%



**COST SUMMARY - HRG Construction Management Services for BWARI, Part 1 & 2**

1. CITY: Department of Public Utilities		2. CIP: 491.1	3. VERSION: 12 Duration (mon): 13	BWARI Part 1, 2 & 2B
4. NAME OF CONSULTANT: H.R. Gray & Associates, Inc		5. PROJECT TITLE: CM Services During Construction for BWARI, BWOAS & AQCF (Part 1, 2 & 2B)		
6. ADDRESS: 1335 Dublin Rd., #100-B Columbus, OH 43215		7. TYPE OF CONTRACT From/To: 1-Dec-08 Cost + Fixed Fee 31-Dec-09		
8. DIRECT LABOR (specify labor categories):	HOUR RATE	EST. HOURS	EST. COST	Totals
Principal (PR) -	\$81.12	220	\$17,846	
Project Coordinator/Sr. Const Mgr. (PC/SCM) -	\$78.15	510	\$39,854	
Administrative Assistant - Office (AAO) -	\$37.86	0	\$0	
<b>Direct Labor Total:</b>			<b>730</b>	<b>\$57,701</b>
<b>Direct Field Labor:</b>				
Project Coordinator/Sr. Const Mgr. (PC/SCM) -	\$78.15	1,824	\$142,538	
Construction Manager (CM) -	\$55.16	2,160	\$119,149	
Construction Scheduler (CS) -	\$42.62	0	\$0	
Field Project Engineer (FPE)	\$31.37	2,110	\$66,183	
Construction Inspector (CI) -	\$31.37	2,180	\$68,379	
Administrative Assistant - Field (AAF) -	\$30.83	2,140	\$65,987	
Engineering Intern / Coop (EI) -	\$17.04	600	\$10,221	
<b>Direct Field Labor:</b>			<b>11,014</b>	<b>\$472,436</b>
9. INDIRECT COSTS	Rate	x DL Total	Est. Cost	
Payroll (0.95) + Admin (0.81) Direct Labor	1.76	\$57,701	\$101,553	
Payroll (0.95) + Admin (0.55) Field Labor	1.50	\$472,436	\$708,655	
<b>INDIRECT COSTS SUBTOTAL:</b>				<b>\$810,208</b>
10. OTHER DIRECT COSTS (ODC)	Rate		Est. Cost	
a. Travel (Miles X Rate per Mile)	9,500	\$0,585	\$5,558	
<b>b. Equipment, Materials, Supplies</b>				
Lodging & Travel Exp - Out-of-Town			\$0	
Telephone Exp & Communications Equip			\$1,040	
Field Office Equipment & Supplies			\$5,050	
Utilities (Trash & Water)			\$250	
Courier Service (Dynamix)			\$0	
<b>b. Subtotal:</b>			<b>\$6,340</b>	
<b>c. Subcontracts:</b>				
	Rate	Hours	Est. Cost	
CTL Material Testing Laboratory - MBE (Material Testing)			\$3,000	
Microman (Computer System Supply & Support)			\$16,008	
Dynotec - MBE Tunnel Inspector - 1 (10 months @ 50 hr/wk)	\$82.00	2,165	\$177,530	
		0	\$0	
Synder Engineering, PE (TBM Consultant)			\$0	
Ronald Heuer, PE, PhD (Geotech Consultant)			\$0	
Corrosion Probe, Inc. - (Coating Consultant)			\$0	
<b>c. Subtotal:</b>			<b>\$196,538</b>	
<b>d. Other (specify categories):</b>				
Tunnel Inspector for Dynotec - Reimb Expenses (MBE)			\$3,500	
<b>d. Subtotal:</b>			<b>\$3,500</b>	
<b>SUBTOTAL #10 (a, b, c &amp; d):</b>				<b>\$211,936</b>
11. TOTAL COST (Direct Labor + Indirect + Other Direct Costs)				\$1,552,281
12. FIXED FEE (No markup on Other Direct Costs - ODC)		10%		\$134,034
13. TOTAL PRICE				\$1,686,315
14. OTHER SERVICES, As Requested				\$0
15. TOTAL CONTRACT MODIFICATION for CM Services				\$1,686,315
16. Estimated Construction Cost =	\$173,439,625	CM Percent of Construction =		0.97%





**HRG Field Office Expenses**

**PROJECT TITLE: BWARI, Part 1 & 2 - Construction Management Services During Construction**

**Duration = 13 months**

From: 1-Dec-08 To: 31-Dec-09

	Quantity	Setup	Monthly	Duration	Project Cost
<b>Trailer - Lease</b>					<b>\$0</b>
Trailer (70x12) - lease	0		\$700		\$0
Trailer Setup & Removal	0	\$1,500			\$0
Trailer Steps & ADA Ramp	0	\$1,000			\$0
Property & Liability Insurance			\$100	0	\$0
Permit & Foundation	0	\$11,000			\$0
<b>Telephone Expense &amp; Communication Equipment</b>					<b>\$1,260</b>
Telephone PBX Setup	0	\$1,000			\$0
Telephones Maintenance	0	\$325	\$10	3	\$30
Cable/Data Maintenance	0	\$500	\$10	3	\$30
Ameritech - Monthly Billing	0	\$500	\$400	3	\$1,200
<b>Office Furniture - Lease</b>					<b>\$0</b>
Desk 30x60	0		\$35	0	\$0
Desk Chairs	0		\$20	0	\$0
Filing Cabinets	0		\$35	0	\$0
Chairs - Conference	0		\$15	0	\$0
Folding Tables	0		\$10	0	\$0
Drawing Table	0		\$0	0	\$0
Drawing Chair	0		\$0	0	\$0
Other Furnishings	0		\$0	0	\$0
<b>Field Office Equipment &amp; Supplies</b>					<b>\$510</b>
Copier/Maint Service	0	\$2,000	\$20	3	\$60
Fax & Other Equipment /Maint Service	0	\$375	\$50	3	\$150
Postage, Printing, Plotting & Photos			\$50	3	\$150
Safety Equipment	0		\$50	3	\$150
<b>Maintenance &amp; Cleaning</b>					<b>\$0</b>
Cleaning Srv (See Subcontracts - DAG)	0		\$400	0	\$0
Trailer Maintenance	0		\$100	0	\$0
<b>Utilities</b>					<b>\$0</b>
Trash Dumpsters	0		\$120	0	\$0
Bottled Water	0		\$25	0	\$0
Electrical, Setup & Monthly Fee	0		\$300	0	\$0
<b>Management Information Systems (MIS) &amp; Computer Systems</b>					<b>\$39,100</b>
Computer Hardware Maintenance	4	\$5,000	\$20	43	\$20,860
Software Maintenance/Upgrade	4	\$1,500	\$20	43	\$6,860
Printer - maint/year	1	\$1,500	\$20	4	\$1,580
Software Licenses/year	1	\$1,000	\$1,500	4	\$7,000
Network Service (See Subcontractor - RES ONE)	1	\$800	\$500	4	\$2,800
<b>Misc Field Items</b>					<b>\$600</b>
Courier Service (Dynamix)	0	\$1,000	\$200	3	\$600
<b>Total Field Office Expenses</b>					<b>\$41,470</b>

**Big Walnut Augmentation Rickenbacker Interceptor Sewer (Part 1), CIP 491.1**

**Big Walnut Outfall Augmentation Sewer (Part 2), CIP 430.1**

**Big Walnut Outfall Augmentation Sewer - AQCF (Part 2B), CIP 430.1**

**H. R. Gray Rate Schedule**

	Annual Inflation Rate = 4%			104%	Max Rate
	Year	2008	2009	2010	
1 Principal (PR) -		\$75.00	\$78.00	\$81.12	<b>\$81.12</b>
2 Project Coordinator/Sr. Const Mgr. (PC/SCM) -		\$72.25	\$75.14	\$78.15	<b>\$78.15</b>
3 Construction Manager (CM) -		\$51.00	\$53.04	\$55.16	<b>\$55.16</b>
4 Construction Scheduler (CS) -		\$39.40	\$40.98	\$42.62	<b>\$42.62</b>
5 Field Project Engineer (FPE)		\$29.00	\$30.16	\$31.37	<b>\$31.37</b>
6 Construction Inspector (CI) -		\$29.00	\$30.16	\$31.37	<b>\$31.37</b>
7 Administrative Assistant - Office (AAO) -		\$35.00	\$36.40	\$37.86	<b>\$37.86</b>
8 Administrative Assistant - Field (AAF) -		\$28.50	\$29.64	\$30.83	<b>\$30.83</b>
9 Engineering Intern / Coop (EI) -		\$15.75	\$16.38	\$17.04	<b>\$17.04</b>