

EXHIBIT A PROJECT TIME SCHEDULE

PROJECT TITLE: Sanitary Sewer Inflow and Infiltration Remediation Project - CIP 650405.7 - Northwest Alum Creek

FIRM: CDM

PERCENT COMPLETION PER MONTH

TASK NO.	ACTIVITY / MONTH	1	2	3	4	5	6	7	8	9	10	11	12	13	14
5.1	General	0.20%	0.20%	0.20%	0.20%										
5.2	Cleaning and Televising Sanitary Sewers and Manholes			1.80%	3.40%	3.40%	3.40%	3.40%	3.40%	3.40%	1.80%				
5.3	Manhole Inspections			0.63%	0.63%	0.63%	0.63%	0.63%	0.63%						
5.4	Private Source Inflow/Infiltration Investigations														
5.5	Public Source Inflow/Infiltration Investigations														
5.6	6-Year Maintenance and Service Request Inv.		0.10%	0.10%	0.10%										
5.7	Develop New Model of Current Sanitary System	0.50%	1.00%	1.50%	2.00%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%
5.8	Evaluate Current Sanitary System with New Model													0.64%	0.64%
5.9	Reports and Deliverables	0.50%	0.40%	0.40%	0.40%	0.30%	0.30%	0.30%	0.30%	0.40%	0.40%	0.40%	0.50%	0.50%	0.40%
5.10	Community Interaction Program Services	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%
5.11	Project Management	0.37%	0.37%	0.37%	0.37%	0.37%	0.37%	0.37%	0.37%	0.37%	0.37%	0.37%	0.37%	0.37%	0.37%
	Percent Per Month	1.62%	2.12%	5.05%	7.15%	6.85%	6.85%	6.85%	6.85%	6.32%	4.72%	2.92%	3.02%	3.66%	3.56%

TASK NO.	ACTIVITY / MONTH	15	16	17	18	19	20	21	22	23	24	25	26	27	TASK %
5.1	General														0.80%
5.2	Cleaning and Televising Sanitary Sewers and Manholes														24.00%
5.3	Manhole Inspections														3.80%
5.4	Private Source Inflow/Infiltration Investigations	1.00%	1.00%	1.00%	1.00%										4.00%
5.5	Public Source Inflow/Infiltration Investigations	0.51%	0.51%	0.51%	0.51%	0.51%	0.51%	0.51%	0.51%	0.51%	0.51%	0.51%			5.60%
5.6	6-Year Maintenance and Service Request Inv.														0.30%
5.7	Develop New Model of Current Sanitary System	2.00%	2.00%	1.00%											31.00%
5.8	Evaluate Current Sanitary System with New Model	0.64%	0.64%	0.64%	0.64%	0.64%	0.64%	0.64%	0.64%	0.64%	0.64%				7.70%
5.9	Reports and Deliverables	0.50%	0.50%	0.50%	0.40%	0.40%	0.40%	0.40%	0.50%	0.50%	0.50%	0.50%	0.50%	0.50%	11.60%
5.10	Community Interaction Program Services	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%				1.10%
5.11	Project Management	0.37%	0.37%	0.37%	0.37%	0.37%	0.37%	0.37%	0.37%	0.37%	0.37%	0.37%	0.37%	0.37%	10.10%
	Percent Per Month	5.07%	5.07%	4.07%	2.97%	1.97%	1.97%	1.97%	2.07%	2.07%	2.07%	1.38%	0.87%	0.87%	100.00%



Exhibit B - Estimate of time Allocation by Task Activity

Project Title: Northwest Alum Creek Sewer System Remediation I/I Study

Firm: CDM Team

MANHOURS PER PROJECT TASK

Task No.	Task Description	Manhours															Total		
		Staff																	
		O	TD/TA	PM	SDE	STM	TM	SE	EIII	EII	EI	ST	T	JT	SC	CA		CL	
5.1	General	0	20	32	0	28	0	80	0	80	100	0	0	160	0	0	0	0	500
5.2	Cleaning and Televising Sanitary Sewers and Manholes	0	36	100	0	576	0	400	570	1820	1820	110	0	1080	200	0	0	280	6992
5.3	Manhole Inspections	0	62	32	0	134	0	96	0	140	0	128	400	600	760	0	0	50	2402
5.4	Private Source Inflow/Infiltration Investigations	0	58	104	0	304	0	0	0	520	1528	0	0	40	0	0	0	20	2574
5.5	Public Source Inflow/Infiltration Investigations	0	106	180	0	512	0	20	0	860	1464	40	0	340	80	0	0	10	3612
5.6	6-Year Maintenance and Service Request Inv.	0	8	16	0	0	64	0	0	0	0	0	0	104	0	0	0	0	192
5.7	Develop New Model of Current Sanitary System	34	374	443	24	323	1305	1160	696	4627	2560	3672	3600	993	112	0	0	132	20056
5.8	Evaluate Current Sanitary System with New Model	0	216	420	0	108	344	212	720	1200	560	0	0	1200	0	0	0	0	4980
5.9	Reports and Deliverables	0	274	784	40	540	324	80	800	982	2504	0	304	96	0	0	0	740	7468
5.10	Community Interaction Program Services	52	68	112	0	10	0	0	0	110	220	0	0	32	0	0	0	102	706
5.11	Project Management	156	416	1334	32	104	104	312	240	510	2220	32	0	200	0	548	280	6488	
	Total Hours	242	1638	3557	96	2639	2141	2360	3026	10849	12976	3982	4304	4845	1152	548	1614	55970	

DIRECT LABOR RATES FOR PROJECT (CDM Rates shown, see attached Fee Backup Spreadsheets for others):

O - Officer.....	\$ 79	per Hour
TD/TA - Technical Director / Technical Advisor	\$ 75	per Hour
PM - Project Manager.....	\$ 53	per Hour
SDE - Senior Design Engineer.....	\$ 60	per Hour
STM - Senior Task Manager.....	\$ 53	per Hour
TM - Task Manager.....	\$ 42	per Hour
SE - Senior Engineer.....	\$ 54	per Hour
EIII - Engineer III.....	\$ 39	per Hour
EII - Engineer II.....	\$ 32	per Hour
EI - Engineer I.....	\$ 26	per Hour
ST - Senior Technician.....	\$ 26	per Hour
T - Technician.....	\$ 21	per Hour
JT - Junior Technician.....	\$ 17	per Hour
SC - 2-man Survey Crew.....	\$ 38	per Hour
CA - Contract Administrator.....	\$ 42	per Hour
CL - Clerical.....	\$ 27	per Hour

Mileage: Truck at \$ 0.485 per Mile
 Auto at \$ 0.485 per Mile



Exhibit C CDM - Cost Summary

CIP 650405.7 Northwest Alum Creek Sewer System Remediation I/I Study

1. CITY: COLUMBUS, OHIO DEPT. OF PUBLIC UTILITIES		2. CIP NO. : 650405.7		3. VERSION: 1	
4. NAME OF CONSULTANT: CDM		PROJECT TITLE: Northwest Alum Creek Sewer System Remediation I/I Study			
5. ADDRESS: 8800 Lyra Drive, Suite 500 Columbus, OH 43240		6. TYPE OF CONTRACT: Direct Hourly w/ Multiplier			
7.	LABOR CATEGORY	EST. HRS.	HOURLY RATE	EST. COST	TOTALS
	Officer	188	79.00	14852.00	
	Technical Director	1260	75.00	94527.00	
	Project Manager	3137	53.00	166246.16	
	Senior Design Engineer	0	60.00	0.00	
	Senior Task Manager	1795	53.00	95135.00	
	Task Manager	1741	42.00	73135.44	
	Senior Engineer	1052	54.00	56808.00	
	Engineer III	2306	39.00	89934.00	
	Engineer II	5777	32.00	184861.44	
	Engineer I	0	26.00	0.00	
	Senior Technician	70	26.00	1820.00	
	Technician	0	21.00	0.00	
	Junior Technician	3245	17.00	55168.40	
	2-Person Survey Crew	0	38.00	0.00	
	Contract Administrator	448	42.00	18816.00	
	Clerical	1120	27.00	30240.00	
DIRECT LABOR (DL)TOTAL:					\$881,543.44
8. HOURLY COST MULTIPLIER (HCM) <small>HCM = (1+OR) x (1+NF) where: OR=Overhead Rate composed of Payroll and Administrative markups. NF=Net Fee or profit.</small>					3.30
9. TOTAL LABOR COSTS (Line 7 x Line 8)					\$2,909,093.35
10. OTHER DIRECT COSTS (ODC)				EST. COST	
a. Travel Transportation _____ mi @ \$ _____ /mile					
Travel Subtotal:				\$0.00	
b. Equipment, materials, supplies (provide itemized breakdown of these costs on separate sheet)					
E, M & S Subtotal:				\$0.00	
c. Subcontracts					
DLZ				\$1,374,850.00	
RD Zande				\$875,811.56	
EMH&T				\$16,915.58	
Dynotec				\$299,540.54	
C&K Industries				\$391,170.00	
Donahue IDEAS				\$227,392.00	
Chester Engineers				\$254,941.02	
CCTV Cleaning and Inspection (EMH&T, AAA, FeeCorp, ADS)				\$1,211,489.26	
Subcontracts Subtotal:				\$4,652,109.96	
d. Other (Specify categories)					
ADS Flowshark Meters 50 meters at \$6,850 ea.				\$342,500.00	
Installation Hardware 50 meters at \$450 ea.				\$22,500.00	
Rain Gauges 5 at \$1000				\$5,000.00	
Vieux and Associates Radar Rainfall				\$32,520.00	
Other Subtotal:				\$402,520.00	
OTHER DIRECT COSTS (ODC) TOTAL:					\$5,054,629.96
11. TOTAL COST (without Task 10 - Supplemental Services) (Line 9+Line 10)					\$7,963,723.32
12. Contingency Supplemental Services Contract Amount (Section 10) (10% of Total Cost, Line 11)					\$796,372.33
13. CONTRACT TOTAL					\$8,760,095.65