Attachment 4

			2009		2010
1	**MSD Green program**	$	8,000,000.00	$	15,000,000.00
2	**System-wide RDI/I**	$	2,750,000.00	$	527,600.00
3	**Trenchless technology - Manholes**	$	1,165,800.00	$	1,235,600.00
4	**Trenchless Technology - Sewers**	$	6,993,500.00	$	7,413,700.00
5	**Urgent Capacity Response**	$	2,331,100.00	$	2,471,100.00
6	**WIB Prevention Program**	$	2,800,000.00	$	2,750,000.00
7	**Wet Weather Strategy Development**	$	1,165,700.00	$	1,235,500.00
8	**Home Sewer Treatment Systems Extensions**		$1,969,695.00		$917,600.00
	Sub Total - per year	**$**	**27,175,795.00**	**$**	**31,551,100.00**

GREEN PROGRAM

			2009	2010
A	LID Demonstration		$ 5,000,000.00	$ 5,000,000.00
B	Regional BMP			
		Planning	$ 1,000,000.00	$ 2,000,000.00
		Design	$ 500,000.00	$ 3,000,000.00
		Construction		$ 2,000,000.00
C	Large Scale Projects			
		Lick Run - Planning	$ 1,500,000.00	$ 2,000,000.00
		Design		$ 1,000,000.00
	TOTAL		$ 8,000,000.00	$ 15,000,000.00

Green Demonstration Program Summary

Project Status / Project Name	Project Applicant	Facility Type	Part 1 Requested Funds	Part 1 Approved Funds	Part 2 Requested Funds	Part 2 Approved Funds	Control Type	Runoff Source
IA Expression of Interest	**Projects in this phase: 4**							
Enright EcoVillage Street Bumpout	Schenk, Jim		$0.00	$0.00	$0.00	$0.00		Surface
Jefferson Quad	University of Cincinnati	Institution Educational	$0.00	$0.00	$0.00	$0.00	To be determined	
Price Hill Pilot	MSD	Resident Single Family	$0.00	$0.00	$0.00	$0.00	Curb Extension	Surface
							Pervious Pavement: Concrete	Surface
							Rain Garden: Natural	Roof and surface
							Rainwater Harvesting: Barrels	Roof
Santa Maria Community Center	Jess Linz		$0.00	$0.00	$0.00	$0.00	Rain Garden: Natural	Roof

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Project Status / Project Name	Project Applicant	Setting Type	Part 1 Requested Funds	Part 1 Approved Funds	Part 2 Requested Funds	Part 2 Approved Funds	Control Type	Runoff Source
1B Part 1 Application Sent	**Projects in this phase: 12**							
5500 Ridge Avenue	Vandercar	Office/Retail Large	$0.00	$0.00	$0.00	$0.00	Biofiltration Basin	Surface
							Rainwater Harvesting: Cistern	Roof
Amberley Village Green Project	Amberley Village		$0.00	$0.00	$0.00	$0.00	Curb Extension	Surface
CPS AMIS	Cincinnati Public Schools	Institution Educational	$0.00	$0.00	$0.00	$0.00	Biofiltration Basin	Surface
CPS College Hill Elementary	Cincinnati Public Schools	Institution Educational	$0.00	$0.00	$0.00	$0.00	Pervious Pavement: Concrete	Surface
CPS Dater Montessori School	Cincinnati Public Schools	Institution Educational	$8,850.00	$0.00	$0.00	$0.00	Bioswale	Surface
							Pervious Pavement: Concrete	Surface
							Rainwater Harvesting: Barrels	Roof
CPS New Evanston	Cincinnati Public Schools	Institution Educational	$0.00	$0.00	$0.00	$0.00	Bioswale	Surface
							Green Roof: Extensive (shallow)	Roof
							Pervious Pavement: Concrete	Surface
CPS Rothenberg School	Cincinnati Public Schools	Institution Educational	$0.00	$0.00	$0.00	$0.00	Biofiltration Basin	Surface
							Green Roof: Modular	Roof
CPS Western Hills- Dater High School	Cincinnati Public Schools	Institution Educational	$0.00	$0.00	$0.00	$0.00	Biofiltration Basin	
CPS Westwood Elementary	Cincinnati Public Schools	Institution Educational	$0.00	$0.00	$0.00	$0.00	Green Roof: Extensive (shallow)	Roof
							Pervious Pavement: Concrete	Surface
							Pervious Pavement: Concrete	Surface
							Rainwater Harvesting: Barrels	Roof
Lunken Airport	Cincinnati DOTE	Institution Other	$0.00	$0.00	$0.00	$0.00	To be determined	
Mt. Lookout Square	Cincinnati DOTE	Roads Local	$0.00	$0.00	$0.00	$0.00	Pervious Pavement: Asphalt	Surface
Westwood Development	Duffy, Carolyn	Office/Retail Small	$0.00	$0.00	$0.00	$0.00	Pervious Pavement: Asphalt	Surface

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Project Status / Project Name	Project Watershed	Sector Type	Part 1 Requested Funds	Part 1 Approved Funds	Part 2 Requested Funds	Part 2 Approved Funds	Control Type	Runoff Source
ID Part 1 Under First Review	**Projects in this phase: 3**							
City of Wyoming Rain Gardens	Wyoming Environmental Commis	Institution Govt Municipal	$0.00	$0.00	$10,000.00	$0.00	Rain Garden: Natural	Surface
Evanston Aquatic Center	Cincinnati Recreation Commissio		$15,000.00	$0.00	$0.00	$0.00	Biofiltration Basin	Surface
							Pervious Pavement: Concrete	Surface
							Pervious Pavement: Pavers	Surface
Green Streets	City of Cincinnati	Roads Local	$241,000.00	$0.00	$0.00	$0.00	Biofiltration Trench	
							Curb Extension	
							Pervious Pavement: Concrete	Roof and surface
							Rain Garden: Urban Planter	
IE Part 1 Information Needed	**Projects in this phase: 6**							
Barrett Condo Green Roof	Barrett, Catherine	Resident Multiple Family	$15,000.00	$0.00	$0.00	$0.00	Green Roof: Extensive (shallow)	Roof
Dent	Dent, Wade	Resident Multiple Family	$0.00	$0.00	$0.00	$0.00	Rainwater Harvesting: Cistern	Roof
Green Off the Grid	Cincinnati State Technical Colleg	Institution Educational	$0.00	$0.00	$0.00	$0.00	To be determined	Roof and surface
O'Neal Green Roof 1	O'Neal, Todd	Resident Single Family	$10,000.00	$0.00	$0.00	$0.00	Green Roof: Extensive (shallow)	Roof
O'Neal Green Roof 2	O'Neal, Todd	Resident Multiple Family	$0.00	$0.00	$0.00	$0.00	Green Roof: Extensive (shallow)	Roof
The Arbors	City Lands Development	Resident Single Family	$21,000.00	$0.00	$0.00	$0.00	Pervious Pavement: Asphalt	Surface
							Rain Garden: Natural	Surface

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Project Status / Project Name	Project Applicant	Project Type	Part 1 Requested Funds	Part 1 Approved Funds	Part 2 Requested Funds	Part 2 Requested Funds	Control Type	Runoff Source
IF Part 1 Under Revision	**Projects in this phase:**	**4**						
American Can Site Development	American Can LLC	Office/Retail Large	$44,000.00	$0.00	$0.00	$0.00	Bioswale	Surface
							Green Roof: Extensive (shallow)	Roof
							Pervious Pavement: Asphalt	Surface
							Pervious Pavement: Concrete	Surface
							Pervious Pavement: Grids	Surface
							Pervious Pavement: Pavers	Surface
							Rain Garden: Natural	Surface
Burnet Woods Park CSO Control	Cincinnati Park Board	Large Open Areas	$172,000.00	$0.00	$0.00	$0.00	To be determined	Surface
Cincinnati Business Development & Permit Ce	City of Cincinnati	Institution Govt Municipal	$0.00	$0.00	$0.00	$0.00	Bioswale	Roof and surface
							Rainwater Harvesting: Barrels	Roof
CPS Pleasant Ridge Montessori	Cincinnati Public Schools	Institution Educational	$0.00	$0.00	$0.00	$0.00	Bioswale	Surface
							Green Roof: Extensive (shallow)	Roof
							Rain Garden: Natural	
							Rainwater Harvesting: Barrels	Roof
II Part 1 Approved	**Projects in this phase:**	**3**						
1600 Gest Street Rain Garden	MSDGC	Institution Govt Municipal	$369,659.00	$15,000.00	$0.00	$0.00	Rain Garden: Natural	Surface
							Rain Garden: Urban Planter	Surface
Christ Hospital Bioswales	Christ Hospital	Institution Hospital/Churc	$4,800.00	$4,800.00	$43,000.00	$0.00	Biofiltration Basin	Surface
							Rain Garden: Natural	Surface
CPS Kilgour Elementary	Cincinnati Public Schools	Institution Educational	$25,000.00	$25,000.00	$0.00	$0.00	Pervious Pavement: Asphalt	Surface

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Project Status / Project Name	Project Applicant	Setting Type	Part 1 Requested Funds	Part 1 Approved Funds	Part 2 Requested Funds	Part 2 Approved Funds	Control Type	Runoff Source
IJ Part I Not Approved	**Projects in this phase:** 4							
1600 Gest Street BMP Study	MSDGC	Institution Govt Municipal	$185,000.00	$0.00	$0.00	$0.00	To be determined	Roof and surface
Mt. Washington Green Demonstration Project	Hillside Trust	Institution Hospital/Churc	$0.00	$0.00	$0.00	$0.00	Bioswale	Surface
Spring Grove Avenue Rain Gardens	Cincinnati DOTE	Roads Local	$86,000.00	$0.00	$0.00	$0.00	Rain Garden: Natural	Surface
Springfield Township Schools Green Curriculu	GAIA Foundation		$1,800.00	$0.00	$0.00	$0.00	Other	
IL Part I Funding Agreement	**Projects in this phase:** 1							
Union Terminal Green Roof	Cincinnati Museum Center	Institution Govt Municipal	$31,919.00	$10,000.00	$212,795.00	$0.00	Green Roof: Extensive (shallow)	Roof
							Rainwater Harvesting: Barrels	Roof
IM Part I Complete	**Projects in this phase:** 2							
CPS School Study	Cincinnati Public Schools	Institution Educational	$0.00	$0.00	$0.00	$0.00	Other	
Fire Station 51 Rain Garden	Cincinnati City Facility Managem	Institution Govt Municipal	$0.00	$0.00	$0.00	$0.00	Rain Garden: Natural	Surface

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Project Status / Project Name	Project Applicant	Project Type	Part 1 Requested Funds	Part 1 Approved Funds	Part 2 Requested Funds	Part 2 Approved Funds	Control Type	Runoff Source
2A Part 2 Application Sent	**Projects in this phase: 9**							
American Red Cross Building	American Red Cross	Institution Other	$22,300.00	$22,300.00	$0.00	$0.00	Bioinfiltration Trench	Surface
							Bioswale	Surface
							Green Roof: Extensive (shallow)	Roof
							Pervious Pavement: Grids	Surface
							Rainwater Harvesting: Cistern	Roof
CPS Clark Montessori	Cincinnati Public Schools	Institution Educational	$19,000.00	$19,000.00	$0.00	$0.00	Biofiltration Basin	Surface
							Green Roof: Intensive (deep)	Roof
							Green Roof: Modular	Roof
							Pervious Pavement: Concrete	Surface
CPS Hartwell	Cincinnati Public Schools	Institution Educational	$26,200.00	$26,200.00	$0.00	$0.00	Green Roof: Extensive (shallow)	Roof
							Other	Roof
							Pervious Pavement: Concrete	Surface
CPS North Avondale Montessori	Cincinnati Public Schools	Institution Educational	$9,800.00	$9,800.00	$0.00	$0.00	Bioswale	Surface
							Green Roof: Extensive (shallow)	Roof
							Pervious Pavement: Concrete	Surface
CPS Sands Montessori	Cincinnati Public Schools	Institution Educational	$14,500.00	$14,500.00	$0.00	$0.00	Bioswale	Surface
							Rainwater Harvesting: Cistern	Roof
Hixson Building	Hixson Properties LLC	Office/Retail Large	$0.00	$0.00	$500,000.00	$0.00	Green Roof: Intensive (deep)	Roof
Osborn Alley	Cincinnati DOTE	Roads Local	$6,000.00	$6,000.00	$75,000.00	$0.00	Other	
							Pervious Pavement: Pavers	Roof and surface
Pleasant Ridge Park	Pleasant Ridge Community Coun	Institution Hospital/Churc	$6,500.00	$5,000.00	$0.00	$0.00	Rain Garden: Natural	Surface
Zoo African Savannah	Cincinnati Zoo	Institution Hospital/Churc	$20,000.00	$20,000.00	$0.00	$0.00	Bioswale	Surface
							Green Roof: Extensive (shallow)	Roof

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Project Status / Project Name	Project Applicant	Project Type	Part 1 Requested Funds	Part 1 Approved Funds	Part 2 Requested Funds	Part 2 Approved Funds	Control Type	Runoff Source
Zoo African Savannah	Cincinnati Zoo	Institution Hospital/Churc	$20,000.00	$20,000.00	$0.00	$0.00	Pervious Pavement: Asphalt	Surface
							Pervious Pavement: Concrete	Surface
							Rainwater Harvesting: Cistern	Roof
2C Part 2 Technical Review	**Projects in this phase:**	1						
CPS Taft IT	Cincinnati Public Schools	Institution Educational	$13,800.00	$13,800.00	$465,000.00	$0.00	Green Roof: Extensive (shallow)	Roof
							Rain Garden: Natural	Surface
2D Part 2 Cost Review	**Projects in this phase:**	1						
Oakley Square	Cincinnati DOTE	Roads Local	$0.00	$0.00	$252,000.00	$0.00	Pervious Pavement: Concrete	Surface
							Rain Garden: Urban Planter	Surface
2E Part 2 Information Needed	**Projects in this phase:**	1						
Green Station (aka Off the Grid)	Civic Garden Center	Special Learning Center	$30,000.00	$30,000.00	$500,000.00	$0.00	Bioswale	Surface
							Green Roof: Extensive (shallow)	Roof
							Green Roof: Intensive (deep)	Roof
							Green Roof: Modified	Roof
							Pervious Pavement: Asphalt	Surface
							Pervious Pavement: Concrete	Surface
							Pervious Pavement: Pavers	Surface
							Rain Garden: Natural	Surface
							Rainwater Harvesting: Barrels	Roof
							Rainwater Harvesting: Cistern	Roof and surface

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Project Status / Project Name	Project Sponsor	Setting Type	Part 1 Requested Funds	Part 1 Approved Funds	Part 2 Requested Funds	Part 2 Approved Funds	Control Type	Runoff Source
2I Part 2 Funding Agreement	**Projects in this phase:**	**1**						
Corner Alley	Cincinnati DOTE	Roads Local	$0.00	$0.00	$31,000.00	$31,000.00	Pervious Pavement: Pavers	Roof and surface
2J Part 2 Implementation	**Projects in this phase:**	**1**						
Zoo Main Entry	Cincinnati Zoo	Institution Hospital/Churc	$15,000.00	$15,000.00	$360,460.00	$301,783.00	Bioswale	Surface
							Pervious Pavement: Concrete	Surface
							Pervious Pavement: Pavers	Surface
							Rain Garden: Natural	Surface
							Rainwater Harvesting: Barrels	Roof
							Rainwater Harvesting: Cistern	Roof
4A Not Interested in MSD Program	**Projects in this phase:**	**1**						
ASIDACO Green Roof	ASIDACO		$0.00	$0.00	$0.00	$0.00		Roof

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Project Status / Project Name	Project Applicant	Facility Type	Part 1 Requested Funds	Part 1 Approved Funds	Part 2 Requested Funds	Part 2 Approved Funds	General Type	Runoff Source
4B Referred to Cinci Green Roof Program	**Projects in this phase:**	**11**						
700 Broadway Green Roof	KZF	Office/Retail Small	$0.00	$0.00	$0.00	$0.00	Green Roof: Extensive (shallow)	Roof
Cincinnati Permit Building Green Roof	City of Cincinnati Building and Pe	Institution Govt Municipal	$0.00	$0.00	$0.00	$0.00	Green Roof: Extensive (shallow)	Roof
Craig Green Roof	Craig/PB World		$0.00	$0.00	$0.00	$0.00	Green Roof: Extensive (shallow)	Roof
Cunningham Green Roof & Rainwater Detentio	Cunningham, Kenneth		$0.00	$0.00	$0.00	$0.00	Green Roof: Extensive (shallow)	Roof
De Groot Green Roof & Rain Gardens	DeGroot, Joan	Resident Single Family	$0.00	$0.00	$0.00	$0.00	Green Roof: Extensive (shallow) Rain Garden: Natural	Roof
Gadkins Green Roof	Gadkins	Resident Single Family	$0.00	$0.00	$0.00	$0.00	Green Roof: Extensive (shallow)	Roof
Geeding Residence Green Roof	Dan Geeding	Resident Single Family	$0.00	$0.00	$0.00	$0.00	Green Roof: Extensive (shallow)	Roof
Spark Green Roof	Joanna Spark	Resident Single Family	$0.00	$0.00	$0.00	$0.00	Green Roof: Extensive (shallow)	Roof
Warm Green Roof	Warm/Warm Construction		$0.00	$0.00	$0.00	$0.00	Green Roof: Extensive (shallow)	Roof
Woodys Express Car Wash	Larry Woodcock	Commercial Small	$0.00	$0.00	$0.00	$0.00	Other	Roof
Xavier Green Roof	Coleman, Adam	Institution Educational	$0.00	$0.00	$0.00	$0.00	Green Roof: Extensive (shallow)	Roof
4C External Program MSD as Partner	**Projects in this phase:**	**2**						
I-75 Mitchell Interchange	MSD, ODOT and Cincinnati Park	Roads Arterial	$0.00	$0.00	$0.00	$0.00	Biofiltration Basin	Surface
Owls Nest Rain Garden	Cincinnati Park Board	Institution Hospital/Churc	$0.00	$0.00	$0.00	$0.00	Rain Garden: Natural	Surface

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Project Status / Project Name	Project Applicant	Setting Type	Part 1 Requested Funds	Part 1 Approved Funds	Part 2 Requested Funds	Part 2 Approved Funds	Control Type	Runoff Source
4D Project Not Eligible	**Projects in this phase:**	**2**						
Argo Retention Lake	Argo, David		$0.00	$0.00	$0.00	$0.00	Other	
Childrens Home Green Controls	Children's Home of Cincinnati	Institution Other	$0.00	$0.00	$0.00	$0.00	Rain Garden: Natural	Surface
							Rainwater Harvesting: Barrels	Roof

Green Demonstration Program Summaries

Number of Projects in Concept Phase

Project Status	# Projects
1D Part 1 Under First Review	3
1E Part 1 Information Needed	6
1F Part 1 Under Revision	4
1I Part 1 Approved	3
1L Part 1 Funding Agreement	1
2A Part 2 Application Sent	9
Projects in Concept Phase	**26**

Number of Projects in Design or Construction Phase

Project Status	# Projects
2C Part 2 Technical Review	1
2D Part 2 Cost Review	1
2E Part 2 Information Needed	1
2I Part 2 Funding Agreement	1
2J Part 2 Implementation	1
Projects in Design/Construction Phase	**5**

Concept Phase Funding Requested as of	**05/21/2009 10:37:45 AM**	**$1,414,128.00**	**Construction Phase Funding Requested as of**	**05/21/2009 10:37:45 AM**	**$2,449,255.00**
Concept Phase Funding Approved as of	**05/21/2009 10:37:45 AM**	**$236,400.00**	**Construction Phase Funding Approved as of**	**05/21/2009 10:37:45 AM**	**$332,783.00**

Notes: This is a research and development program exploring the use of green storm water controls to manage storm water in the Greater Cincinnati MSD combined sewer areas. These research projects will be monitored to determine the relative effectiveness of a wide variety of green controls in reducing the volume of storm water runoff reaching the combined sewer system. Various design variables, runoff sources, and settings are being explored through partnerships with a wide variety of public and private entities to determine which controls perform most cost effectively and could be targeted in a larger green infrastructure program. The program is set up in two phases: Part 1 Concept and Part 2 Construction. Not all proposed projects are asked to participate in this program. Only approved Part 1 project applicants are invited to submit Part 2 applications for construction. There are multiple stages in each phase and each project only occupies one stage at a time in this report. Part 1 and Part 2 projects have the numbers "1" and "2" respectively in their status designation. The green storm water controls presented in this report are preliminary until a Part 2 Construction Application has been approved and the funding allocated. Some of the Part 1 requested funding includes approximate construction costs if those costs are presented in the Part 1Concept Application. Questions regarding these projects should

Regional BMP's

Regional BMPs relate to green infrastructure projects affecting larger sewer sheds with anticipated stromwater capture benefits of greater than 10 million gallons.

Regional BMP's

2009	T.O No.	Project Name	Phase	Planning Cost	Design ost	Construction Cost	Tatal Cost
1	078090007	Kings Run - Stream Removal	P + D	$49,900	$50,000		$99,900
2	028090006	St Leo - Stream Removal	P	$80,000			$80,000
3	118090004	CSO #410 - Stream Removal	P + D	$77,109	$77,000		$154,109
4	108090003	CSO #416 - Stream Removal (Gilday Park Bioretention Basin)	P + D	$80,559	$80,000		$160,559
5		4609 Crawford - Stream Removal	P	$80,000			$80,000
6		4815 Winton Road	P	$80,000			$80,000
7		2888 Marxhall Ave	P	$80,000			$80,000
8		3071 Massechusetts Ave	P	$80,000			$80,000
9		Blair Basin	P	$80,000			$80,000
10		MH42202005	P	$80,000			$80,000
11		MH45608036	P	$80,000			$80,000
12		MH47611006	P	$80,000			$80,000
13		MH42203004	P	$80,000			$80,000
14		MH42109031	P	$80,000			$80,000
15		MH40802001	P	$80,000			$80,000
			total	$877,668	$157,000	$0	$1,374,568

2010

1	078090007	Kings Run - Stream Removal	C			$3,300,000	$3,300,000
2		St Leo - Stream Removal	D		$80,000		$80,000
3		4609 Crawford - Stream Removal	D		$80,000		$80,000
4		4815 Winton Road	D		$80,000		$80,000
5		2888 Marxhall Ave	D		$80,000		$80,000
6		3071 Massechusetts Ave	D		$80,000		$80,000
7		Blair Basin	D		$80,000		$80,000
8		2856 Fischer Place (park)	P+D	$80,000	$80,000		$160,000
9		3301 Beekman St	P+D	$80,000	$80,000		$160,000

10		4932 Kirby Road	P+D	$80,000	$80,000		$160,000
11		4481 Colerain Ave (from Airy Park)	P+D	$80,000	$80,000		$160,000
12		MH42202005	D		$80,000		$80,000
13		MH45608036	D		$80,000		$80,000
14		MH47611006	D		$80,000		$80,000
15		MH42203004	D		$80,000		$80,000
16		MH42109031	D		$80,000		$80,000
17		MH40802001	D		$80,000		$80,000
18		MH42315049	P+D	$80,000	$80,000		$160,000
19		MH47615013	P+D	$80,000	$80,000		$160,000
20		MH42805028	P+D	$80,000	$80,000		$160,000
21		MH45402004	P+D	$80,000	$80,000		$160,000
			total	$640,000	$1,600,000	$3,300,000	$5,540,000

Long Term Projects

	Description		2009		2010
Land use/Community coordination	Regional Planning Commission	$	150,000.00	$	175,000.00
Breen BMP's Inform/Influence	Ohio State University	$	250,000.00	$	275,000.00
Research Support	University of Cincinnati	$	200,000.00	$	500,000.00
Water quantity/quality monitoring	USGIS/Federal EPA Joint Research	$	200,000.00	$	300,000.00
Lick Run/Muddy Creek Sewershed Planning	Strand/AECOM/Human Nature	$	700,000.00	$	750,000.00
Lick Run- Design				$	700,000.00
Muddy West - Design				$	300,000.00
	Sub Total	$	1,500,000.00	$	3,000,000.00