Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-18)

	Survey period		Breakdown of period		Total workers	
	Period	Total days	Working days	No working days	Engineers	Workers
Preparation	14 Aug., '02 ~ 14 Aug., '02	0.031	0.031	—	0.125	0.3125
Drilling	14 Aug., '02 ~ 14 Aug., '02	0.188	Drilling : 0.188	—	0.75	1.875
			Accident: 0.000	—	0	0
Dismount	14 Aug., '02 ~ 14 Aug., '02	0.031	0.031	—	0.125	0.3125
Total	14 Aug., '02 ~ 14 Aug., '02	0.250	0.250	—	1	2.5

Drilling Length			
Programmed length	45.00 m	Overburden, sand & gravel, Quarternary	4.00 m
Prolongation	-28.00 m	Core length	13.00 m
Effective length	17.00 m	Core recovery	100.0 %

Working hours			
Drilling	2.0 hrs	66.7%	33.3%
Supplemental drilling work	1.0 hrs	33.3%	16.7%
Recovery from accident	-	-	-
Subtotal	3.0 hrs	100%	50.0%
Preparation/setting up	0.5 hrs	-	8.3%
Dismount/mobilization	0.5 hrs	-	8.3%
Transportation of water	2.0 hrs	-	33.3%
Others			
Total	6.0 hrs	-	100%

Core recovery by each 10 meters		
Length (m)	Each (%)	Cumula. (%)
0 - 1.0	None core	None core
1.0 - 10.0	100.0	100.0
10.0 - 17.0	100.0	100.0

Efficiency
Effective length / Working drilling days
= 17.00m/0.188 days = 96.0 m/d
Effective length / Total drilling shifts =
= 17.00m/0.375 shifts = 48.0 m/shift

Drilling length by diameter					
Bit diameter	92mmϕ				Total
Drilling length	17.00 m				17.00 m
Core length	13.00 m				13.00 m

Inserted casing pipes			
Inserted length by diameter		Inserted length / Drilling length	Casing recovery

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-19)

	Survey period		Breakdown of period		Total workers	
	Period	Total days	Working days	No working days	Engineers	Workers
Preparation	14 Aug., '02 ~ 14 Aug., '02	0.031	0.031	—	0.125	0.3125
Drilling	14 Aug., '02 ~ 14 Aug., '02	0.188	Drilling : 0.188	—	0.75	1.875
			Accident: 0.000	—	0	0
Dismount	14 Aug., '02 ~ 14 Aug., '02	0.031	0.031	—	0.125	0.3125
Total	14 Aug., '02 ~ 14 Aug., '02	0.250	0.250	—	1	2.5

Drilling Length			
Programmed length	45.00 m	Overburden, sand & gravel, Quarternary	1.00 m
Prolongation	-26.00 m	Core length	18.00 m
Effective length	19.00 m	Core recovery	100.0 %

Working hours			
Drilling	2.0 hrs	66.7%	33.3%
Supplemental drilling work	1.0 hrs	33.3%	16.7%
Recovery from accident	-	-	-
Subtotal	3.0 hrs	100%	50.0%
Preparation/setting up	0.5 hrs	-	8.3%
Dismount/mobilization	0.5 hrs	-	8.3%
Transportation of water	2.0 hrs	-	33.3%
Others			
Total	6.0 hrs	-	100%

Core recovery by each 10 meters		
Length (m)	Each (%)	Cumula. (%)
0 - 1.0	None core	None core
1.0 - 10.0	100.0	100.0
10.0 - 19.0	100.0	100.0

Efficiency
Effective length / Working drilling days
= 19.00m/0.188 days = 101.33 m/d
Effective length / Total drilling shifts =
= 19.00m/0.375 shifts = 50.67 m/shift

Drilling length by diameter					
Bit diameter	92mm ϕ				Total
Drilling length	19.00 m				19.00 m
Core length	18.00 m				18.00 m

Inserted casing pipes			
Inserted length by diameter		Inserted length / Drilling length	Casing recovery

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-20)

	Survey period		Breakdown of period		Total workers	
	Period	Total days	Working days	No working days	Engineers	Workers
Preparation	7 Aug., '02 ~ 7 Aug., '02	0.031	0.031	—	0.125	0.3125
Drilling	7 Aug., '02 ~ 7 Aug., '02	0.438	Drilling : 0.438	—	1.75	4.375
			Accident: 0.000	—	0	0
Dismount	7 Aug., '02 ~ 7 Aug., '02	0.031	0.031	—	0.125	0.3125
Total	7 Aug., '02 ~ 7 Aug., '02	0.500	0.500	—	2	5

Drilling Length			
Programmed length	· 45.00 m	Overburden, sand & gravel, Quarternary	8.00 m
Prolongation	-33.00 m	Core length	4.00 m
Effective length	12.00 m	Core recovery	100.0 %

Working hours			
Drilling	5.0 hrs	71.4%	50.0%
Supplemental drilling work	2.0 hrs	28.6%	20.0%
Recovery from accident	-	-	-
Subtotal	7.0 hrs	100%	70.0%
Preparation/setting up	0.5 hrs	-	5.0%
Dismount/mobilization	0.5 hrs	-	5.0%
Transportation of water	2.0 hrs	-	20.0%
Others			
Total	10.0 hrs	-	100%

Core recovery by each 10 meters		
Length (m)	Each (%)	Cumula. (%)
0 - 9.0	None core	None core
9.0 - 12.0	100.0	100.0

Efficiency
Effective length / Working drilling days
= 12.00m/0.4375 days = 27.43 m/d
Effective length / Total drilling shifts =
= 12.00m/0.875 shifts = 13.71 m/shift

Drilling length by diameter					
Bit diameter	92mm ϕ				Total
Drilling length	12.00 m				12.00 m
Core length	3.00 m				3.00 m

Inserted casing pipes			
Inserted length by diameter		Inserted length / Drilling length	Casing recovery

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-21)

	Survey period		Breakdown of period		Total workers	
	Period	Total days	Working days	No working days	Engineers	Workers
Preparation	7 Aug., '02 ~ 7 Aug., '02	0.031	0.031	—	0.125	0.3125
Drilling	7 Aug., '02 ~ 7 Aug., '02	0.438	Drilling : 0.438	—	1.75	4.375
			Accident: 0.000	—	0	0
Dismount	7 Aug., '02 ~ 7 Aug., '02	0.031	0.031	—	0.125	0.3125
Total	7 Aug., '02 ~ 7 Aug., '02	0.500	0.500	—	2	5

Drilling Length			
Programmed length	45.00 m	Overburden, sand & gravel, Quarternary	5.00 m
Prolongation	-27.00 m	Core length	13.00 m
Effective length	18.00 m	Core recovery	100.0 %

Working hours			
Drilling	5.0 hrs	71.4%	50.0%
Supplemental drilling work	2.0 hrs	28.6%	20.0%
Recovery from accident	-	-	-
Subtotal	7.0 hrs	100%	70.0%
Preparation/setting up	0.5 hrs	-	5.0%
Dismount/mobilization	0.5 hrs	-	5.0%
Transportation of water	2.0 hrs	-	20.0%
Others			
Total	10.0 hrs	-	100%

Core recovery by each 10 meters		
Length (m)	Each (%)	Cumula. (%)
0 - 5.0	None core	None core
5.0 - 10.0	100.0	100.0
10.0-18.0	100.0	100.0

Efficiency
Effective length / Working drilling days
= 18.00m/0.4375 days = 41.143 m/d
Effective length / Total drilling shifts =
= 18.00m/0.875 shifts = 20.57 m/shift

Drilling length by diameter					
Bit diameter	92mm ϕ				Total
Drilling length	18.00 m				18.00 m
Core length	13.00 m				13.00 m

Inserted casing pipes			
Inserted length by diameter		Inserted length / Drilling length	Casing recovery

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-22)

	Survey period		Breakdown of period		Total workers	
	Period	Total days	Working days	No working days	Engineers	Workers
Preparation	6 Aug., '02 ~ 6 Aug., '02	0.03	0.03	—	0.125	0.3125
Drilling	6 Aug., '02 ~ 6 Aug., '02	0.25	Drilling : 0.25	—	1	2.5
			Accident: 0.00	—	0	0
Dismount	6 Aug., '02 ~ 6 Aug., '02	0.03	0.03	—	0.125	0.3125
Total	6 Aug., '02 ~ 6 Aug., '02	0.31	0.31	—	1.25	3.125

Drilling Length			
Programmed length	45.00 m	Overburden, sand & gravel, Quarternary	7.50 m
Prolongation	-37.00 m	Core length	3.00 m
Effective length	8.00 m	Core recovery	100.0 %

Working hours			
Drilling	3.0 hrs	75.0%	42.9%
Supplemental drilling work	1.0 hrs	25.0%	14.3%
Recovery from accident	-	-	-
Subtotal	4.0 hrs	100%	57.1%
Preparation/setting up	0.5 hrs	-	7.1%
Dismount/mobilization	0.5 hrs	-	7.1%
Transportation of water	2.0 hrs	-	28.6%
Others			
Total	7.0 hrs	-	100%

Core recovery by each 10 meters		
Length (m)	Each (%)	Cumula. (%)
0 - 5.0	None core	None core
5.0 - 8.0	100.0	100.0

Efficiency

Effective length / Working drilling days

= 8.00m/0.25 days = 32.00 m/d

Effective length / Total drilling shifts =

= 8.00m/0.50 shifts = 16.00 m/shift

Drilling length by diameter					
Bit diameter	4"TB	92mm ϕ			Total
Drilling length	0.00 m	8.00 m			8.00 m
Core length	0.00 m	3.00 m			3.00 m

Inserted casing pipes			
Inserted length by diameter		Inserted length / Drilling length	Casing recovery

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-23)

	Survey period		Breakdown of period		Total workers	
	Period	Total days	Working days	No working days	Engineers	Workers
Preparation	6 Aug., '02 ~ 6 Aug., '02	0.03	0.03	—	0.125	0.3125
Drilling	6 Aug., '02 ~ 6 Aug., '02	0.31	Drilling : 0.31	—	1.25	3.125
			Accident: 0.00	—	0	0
Dismount	6 Aug., '02 ~ 6 Aug., '02	0.03	0.03	—	0.125	0.3125
Total	6 Aug., '02 ~ 6 Aug., '02	0.38	0.38	—	1.5	3.75

Drilling Length			
Programmed length	45.00 m	Overburden, sand & gravel, Quarternary	5.00 m
Prolongation	-30.00 m	Core length	8.00 m
Effective length	15.00 m	Core recovery	100.0 %

Working hours			
Drilling	4.0 hrs	80.0%	50.0%
Supplemental drilling work	1.0 hrs	20.0%	12.5%
Recovery from accident	-	-	-
Subtotal	5.0 hrs	100%	62.5%
Preparation/setting up	0.5 hrs	-	6.3%
Dismount/mobilization	0.5 hrs	-	6.3%
Transportation of water	2.0 hrs	-	25.0%
Others			
Total	8.0 hrs	-	100%

Core recovery by each 10 meters		
Length (m)	Each (%)	Cumula. (%)
0 - 6.0	None core	None core
6.0 - 10.0	100.0	100.0
10.0 - 15.0	100.0	100.0

Efficiency
Effective length / Working drilling days
= 15.00m/0.3125 days = 38.40 m/d
Effective length / Total drilling shifts =
= 15.00m/0.625shifts = 19.20 m/shift

Drilling length by diameter					
Bit diameter	4"TB	92mmϕ			Total
Drilling length	0.00 m	15.00 m			15.00 m
Core length	0.00 m	8.00 m			8.00 m

Inserted casing pipes			
Inserted length by diameter		Inserted length / Drilling length	Casing recovery

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-24)

	Survey period		Breakdown of period		Total workers	
	Period	Total days	Working days	No working days	Engineers	Workers
Preparation	6 Aug., '02 ~ 6 Aug., '02	0.03	0.03	—	0.125	0.3125
Drilling	6 Aug., '02 ~ 6 Aug., '02	0.19	Drilling : 0.19	—	0.75	1.875
			Accident: 0.00	—	0	0
Dismount	6 Aug., '02 ~ 6 Aug., '02	0.03	0.03	—	0.125	0.3125
Total	6 Aug., '02 ~ 6 Aug., '02	0.25	0.25	—	1	2.5

Drilling Length			
Programmed length	45.00 m	Overburden, sand & gravel, Quarternary	10.00 m
Prolongation	-33.00 m	Core length	2.00 m
Effective length	12.00 m	Core recovery	100.0 %

Working hours			
Drilling	3.0 hrs	75.0%	42.9%
Supplemental drilling work	1.0 hrs	25.0%	14.3%
Recovery from accident	-	-	-
Subtotal	4.0 hrs	100%	57.1%
Preparation/setting up	0.5 hrs	-	7.1%
Dismount/mobilization	0.5 hrs	-	7.1%
Transportation of water	2.0 hrs	-	28.6%
Others			
Total	7.0 hrs	-	100%

Core recovery by each 10 meters		
Length (m)	Each (%)	Cumula. (%)
0 - 4.0	None core	None core
4.0 - 10.0	100.0	100.0
10.0 - 12.0	100.0	100.0

Efficiency
Effective length / Working drilling days
= 12.00m/0.3125 days = 38.40 m/d
Effective length / Total drilling shifts =
= 12.00m/0.625shifts = 19.20 m/shift

Drilling length by diameter					
Bit diameter	4"TB	92mm ϕ			Total
Drilling length	0.00 m	12.00 m			12.00 m
Core length	0.00 m	8.00 m			8.00 m

Inserted casing pipes			
Inserted length by diameter		Inserted length / Drilling length	Casing recovery

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-25)

	Survey period		Breakdown of period		Total workers	
	Period	Total days	Working days	No working days	Engineers	Workers
Preparation	13 Aug., '02 ~ 13 Aug., '02	0.031	0.03	—	0.125	0.3125
Drilling	13 Aug., '02 ~ 13 Aug., '02	0.438	Drilling : 0.44	—	1.75	4.375
			Accident: 0.00	—	0	0
Dismount	13 Aug., '02 ~ 13 Aug., '02	0.031	0.03	—	0.125	0.3125
Total	13 Aug., '02 ~ 13 Aug., '02	0.500	0.50	—	2	5

Drilling Length			
Programmed length	-	Overburden, sand & gravel, Quarternary	2.00 m
Prolongation	-	Core length	27.00 m
Effective length	29.00 m	Core recovery	100.0 %

Working hours			
Drilling	5.0 hrs	71.4%	41.7%
Supplemental drilling work	2.0 hrs	28.6%	16.7%
Recovery from accident	-	-	-
Subtotal	7.0 hrs	100%	58.3%
Preparation/setting up	0.5 hrs	-	4.2%
Dismount/mobilization	0.5 hrs	-	4.2%
Transportation of water	4.0 hrs	-	33.3%
Others			
Total	12.0 hrs	-	100%

Core recovery by each 10 meters		
Length (m)	Each (%)	Cumula. (%)
0 - 10.0	None core	None core
10.0 - 20.0	100.0	100.0
20.0 - 29.0	100.0	100.0

Efficiency
Effective length / Working drilling days
= 29.00m/0.4375 days = 66.28m/d
Effective length / Total drilling shifts =
= 29.00m/0.875 shifts = 33.14 m/shift

Drilling length by diameter					
Bit diameter	4"TB	92mmϕ			Total
Drilling length	0.00 m	29.00 m			29.00 m
Core length	0.00 m	27.00 m			27.00 m

Inserted casing pipes			
Inserted length by diameter		Inserted length / Drilling length	Casing recovery

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-26)

	Survey period		Breakdown of period		Total workers	
	Period	Total days	Working days	No working days	Engineers	Workers
Preparation	13 Aug., '02 ~ 13 Aug., '02	0.031	0.03	—	0.125	0.3125
Drilling	13 Aug., '02 ~ 13 Aug., '02	0.438	Drilling : 0.44	—	1.75	4.375
			Accident: 0.00	—	0	0
Dismount	13 Aug., '02 ~ 13 Aug., '02	0.031	0.03	—	0.125	0.3125
Total	13 Aug., '02 ~ 13 Aug., '02	0.500	0.50	—	2	5

Drilling Length			
Programmed length	–	Overburden, sand & gravel, Quarternary	4.00 m
Prolongation	–	Core length	23.00 m
Effective length	27.00 m	Core recovery	100.0 %

Working hours			
Drilling	5.0 hrs	71.4%	50.0%
Supplemental drilling work	2.0 hrs	28.6%	20.0%
Recovery from accident	–	–	–
Subtotal	7.0 hrs	100%	70.0%
Preparation/setting up	0.5 hrs	–	5.0%
Dismount/mobilization	0.5 hrs	–	5.0%
Transportation of water	2.0 hrs	–	20.0%
Others			
Total	10.0 hrs	–	100%

Core recovery by each 10 meters		
Length (m)	Each (%)	Cumula. (%)
0 – 10.0	None core	None core
10.0 – 20.0	100.0	100.0
20.0 – 27.0	100.0	100.0

Efficiency
Effective length / Working drilling days
= 27.00m/0.4375 days = 61.71m/d
Effective length / Total drilling shifts =
= 27.00m/0.875 shifts = 30.86 m/shift

Drilling length by diameter					
Bit diameter	4″TB	92mm ϕ			Total
Drilling length	0.00 m	27.00 m			27.00 m
Core length	0.00 m	23.00 m			23.00 m

Inserted casing pipes			
Inserted length by diameter		Inserted length / Drilling length	Casing recovery

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-27)

	Survey period		Breakdown of period		Total workers	
	Period	Total days	Working days	No working days	Engineers	Workers
Preparation	22 Aug., '02 ~ 22 Aug., '02	0.031	0.03	—	0.125	0.3125
Drilling	22 Aug., '02 ~ 22 Aug., '02	0.438	Drilling : 0.44	—	1.75	4.375
			Accident: 0.00	—	0	0
Dismount	22 Aug., '02 ~ 22 Aug., '02	0.031	0.03	—	0.125	0.3125
Total	22 Aug., '02 ~ 22 Aug., '02	0.500	0.50	—	2	5

Drilling Length			
Programmed length	-	Overburden, sand & gravel, Quarternary	5.00 m
Prolongation	-	Core length	1.00 m
Effective length	6.00 m	Core recovery	100.0 %

Working hours			
Drilling	5.0 hrs	71.4%	50.0%
Supplemental drilling work	2.0 hrs	28.6%	20.0%
Recovery from accident	-	-	-
Subtotal	7.0 hrs	100%	70.0%
Preparation/setting up	0.5 hrs	-	5.0%
Dismount/mobilization	0.5 hrs	-	5.0%
Transportation of water	2.0 hrs	-	20.0%
Others			
Total	10.0 hrs	-	100%

Core recovery by each 10 meters		
Length (m)	Each (%)	Cumula. (%)
0 - 5.0	None core	None core
5.0 - 6.0	100.0	100.0

Efficiency
Effective length / Working drilling days
= 6.00m/0.4375 days = 13.71m/d
Effective length / Total drilling shifts =
= 6.00m/0.875 shifts = 6.86 m/shift

Drilling length by diameter					
Bit diameter	4"TB	92mm ϕ			Total
Drilling length	0.00 m	6.00 m			6.00 m
Core length	0.00 m	5.00 m			5.00 m

Inserted casing pipes			
Inserted length by diameter		Inserted length / Drilling length	Casing recovery

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-28)

	Survey period		Breakdown of period		Total workers	
	Period	Total days	Working days	No working days	Engineers	Workers
Preparation	16 Aug., '02 ~ 16 Aug., '02	0.031	0.03	—	0.125	0.3125
Drilling	16 Aug., '02 ~ 16 Aug., '02	0.438	Drilling : 0.44	—	1.75	4.375
			Accident: 0.00	—	0	0
Dismount	16 Aug., '02 ~ 16 Aug., '02	0.031	0.03	—	0.125	0.3125
Total	16 Aug., '02 ~ 16 Aug., '02	0.500	0.50	—	2	5

Drilling Length			
Programmed length	-	Overburden, sand & gravel, Quarternary	10.00 m
Prolongation	-	Core length	5.00 m
Effective length	15.00 m	Core recovery	100.0 %

Working hours			
Drilling	5.0 hrs	71.4%	50.0%
Supplemental drilling work	2.0 hrs	28.6%	20.0%
Recovery from accident	-	-	-
Subtotal	7.0 hrs	100%	70.0%
Preparation/setting up	0.5 hrs	-	5.0%
Dismount/mobilization	0.5 hrs	-	5.0%
Transportation of water	2.0 hrs	-	20.0%
Others			
Total	10.0 hrs	-	100%

Core recovery by each 10 meters		
Length (m)	Each (%)	Cumula. (%)
0 - 10.0	None core	None core
10.0 - 15.0	100.0	100.0

Efficiency
Effective length / Working drilling days
= 15.00m/0.4375 days = 34.29m/d
Effective length / Total drilling shifts =
= 15.00m/0.875 shifts = 17.14 m/shift

Drilling length by diameter					
Bit diameter	4"TB	92mm ϕ			Total
Drilling length	0.00 m	15.00 m			15.00 m
Core length	0.00 m	5.00 m			5.00 m

Inserted casing pipes			
Inserted length by diameter		Inserted length / Drilling length	Casing recovery

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-29)

	Survey period		Breakdown of period		Total workers	
	Period	Total days	Working days	No working days	Engineers	Workers
Preparation	17 Aug., '02 ~ 17 Aug., '02	0.031	0.03	—	0.125	0.3125
Drilling	17 Aug., '02 ~ 17 Aug., '02	0.438	Drilling : 0.44	—	1.75	4.375
			Accident: 0.00	—	0	0
Dismount	17 Aug., '02 ~ 17 Aug., '02	0.031	0.03	—	0.125	0.3125
Total	17 Aug., '02 ~ 17 Aug., '02	0.500	0.50	—	2	5

Drilling Length			
Programmed length	-	Overburden, sand & gravel, Quarternary	10.00 m
Prolongation	-	Core length	11.00 m
Effective length	20.00 m	Core recovery	100.0 %

Working hours			
Drilling	5.0 hrs	71.4%	50.0%
Supplemental drilling work	2.0 hrs	28.6%	20.0%
Recovery from accident	-	-	-
Subtotal	7.0 hrs	100%	70.0%
Preparation/setting up	0.5 hrs	-	5.0%
Dismount/mobilization	0.5 hrs	-	5.0%
Transportation of water	2.0 hrs	-	20.0%
Others			
Total	10.0 hrs	-	100%

Core recovery by each 10 meters		
Length (m)	Each (%)	Cumula. (%)
0 - 9.0	None core	None core
9.0 - 10.0	100.0	100.0
10.0 - 20.0	100.0	100.0

Efficiency
Effective length / Working drilling days
= 20.00m/0.4375 days = 45.71m/d
Effective length / Total drilling shifts =
= 20.00m/0.875 shifts = 22.86 m/shift

Drilling length by diameter					
Bit diameter	4"TB	92mm ϕ			Total
Drilling length	0.00 m	20.00 m			20.00 m
Core length	0.00 m	11.00 m			11.00 m

Inserted casing pipes			
Inserted length by diameter		Inserted length / Drilling length	Casing recovery

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-30)

	Survey period		Breakdown of period		Total workers	
	Period	Total days	Working days	No working days	Engineers	Workers
Preparation	18 Aug., '02 ~ 18 Aug., '02	0.031	0.03	—	0.125	0.3125
Drilling	18 Aug., '02 ~ 18 Aug., '02	0.438	Drilling : 0.44	—	1.75	4.375
			Accident: 0.00	—	0	0
Dismount	18 Aug., '02 ~ 18 Aug., '02	0.031	0.03	—	0.125	0.3125
Total	18 Aug., '02 ~ 18 Aug., '02	0.500	0.50	—	2	5

Drilling Length			
Programmed length	-	Overburden, sand & gravel, Quarternary	9.00 m
Prolongation	-	Core length	19.00 m
Effective length	19.00 m	Core recovery	100.0 %

Working hours			
Drilling	5.0 hrs	71.4%	50.0%
Supplemental drilling work	2.0 hrs	28.6%	20.0%
Recovery from accident	-	-	-
Subtotal	7.0 hrs	100%	70.0%
Preparation/setting up	0.5 hrs	-	5.0%
Dismount/mobilization	0.5 hrs	-	5.0%
Transportation of water	2.0 hrs	-	20.0%
Others			
Total	10.0 hrs	-	100%

Core recovery by each 10 meters		
Length (m)	Each (%)	Cumula. (%)
0 - 9.0	None core	None core
9.0 - 10.0	100.0	100.0
10.0 - 19.0	100.0	100.0

Efficiency
Effective length / Working drilling days
= 19.00m/0.4375 days = 22.86m/d
Effective length / Total drilling shifts =
= 19.00m/0.875 shifts = 11.43 m/shift

Drilling length by diameter					
Bit diameter	4"TB	92mm ϕ			Total
Drilling length	0.00 m	19.00 m			19.00 m
Core length	0.00 m	10.00 m			10.00 m

Inserted casing pipes			
Inserted length by diameter		Inserted length / Drilling length	Casing recovery

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-31)

	Survey period		Breakdown of period		Total workers	
	Period	Total days	Working days	No working days	Engineers	Workers
Preparation	18 Aug., '02 ~ 18 Aug., '02	0.125	0.13	—	0.5	1.25
Drilling	18 Aug., '02 ~ 19 Aug., '02	0.750	Drilling : 0.75	—	3	7.5
			Accident: 0.00	—	0	0
Dismount	19 Aug., '02 ~ 19 Aug., '02	0.125	0.13	—	0.5	1.25
Total	18 Aug., '02 ~ 19 Aug., '02	1.000	1.00	—	4	10

Drilling Length			
Programmed length	-	Overburden, sand & gravel, Quarternary	9.50 m
Prolongation	-	Core length	9.50 m
Effective length	19.00 m	Core recovery	100.0 %

Working hours			
Drilling	8.0 hrs	66.7%	36.4%
Supplemental drilling work	4.0 hrs	33.3%	18.2%
Recovery from accident	-	-	-
Subtotal	12.0 hrs	100%	54.5%
Preparation/setting up	2.0 hrs	-	9.1%
Dismount/mobilization	2.0 hrs	-	9.1%
Transportation of water	6.0 hrs	-	27.3%
Others			
Total	22.0 hrs	-	100%

Core recovery by each 10 meters		
Length (m)	Each (%)	Cumula. (%)
0 - 9.5	None core	None core
9.5 - 10.0	100.0	100.0
10.0 - 19.0	100.0	100.0

Efficiency
Effective length / Working drilling days
= 19.00m/0.75 days = 25.33m/d
Effective length / Total drilling shifts =
= 19.00m/1.50 shifts = 12.67 m/shift

Drilling length by diameter					
Bit diameter	4"TB	92mmϕ			Total
Drilling length	0.00 m	19.00 m			19.00 m
Core length	0.00 m	9.50 m			9.50 m

Inserted casing pipes			
Inserted length by diameter		Inserted length / Drilling length	Casing recovery

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-32)

	Survey period		Breakdown of period		Total workers	
	Period	Total days	Working days	No working days	Engineers	Workers
Preparation	19 Aug., '02 ~ 19 Aug., '02	0.125	0.13	—	0.5	1.25
Drilling	19 Aug., '02 ~ 20 Aug., '02	0.750	Drilling : 0.75	—	3	7.5
			Accident: 0.00	—	0	0
Dismount	20 Aug., '02 ~ 20 Aug., '02	0.125	0.13	—	0.5	1.25
Total	19 Aug., '02 ~ 20 Aug., '02	1.000	1.00	—	4	10

Drilling Length			
Programmed length	-	Overburden, sand & gravel, Quarternary	8.00 m
Prolongation	-	Core length	7.00 m
Effective length	15.00 m	Core recovery	100.0 %

Working hours			
Drilling	8.0 hrs	66.7%	40.0%
Supplemental drilling work	4.0 hrs	33.3%	20.0%
Recovery from accident	-	-	-
Subtotal	12.0 hrs	100%	60.0%
Preparation/setting up	2.0 hrs	-	10.0%
Dismount/mobilization	2.0 hrs	-	10.0%
Transportation of water	4.0 hrs	-	20.0%
Others			
Total	20.0 hrs	-	100%

Core recovery by each 10 meters		
Length (m)	Each (%)	Cumula. (%)
0 - 8.0	None core	None core
8.0 - 10.0	100.0	100.0
10.0 - 15.0	100.0	100.0

Efficiency
Effective length / Working drilling days
= 15.00m/0.75 days = 20.00m/d
Effective length / Total drilling shifts =
= 15.00m/1.50 shifts = 10.00 m/shift

Drilling length by diameter					
Bit diameter	4"TB	92mm ϕ			Total
Drilling length	0.00 m	15.00 m			15.00 m
Core length	0.00 m	7.00 m			7.00 m

Inserted casing pipes			
Inserted length by diameter		Inserted length / Drilling length	Casing recovery

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-33)

	Survey period		Breakdown of period		Total workers	
	Period	Total days	Working days	No working days	Engineers	Workers
Preparation	21 Aug., '02 ~ 21 Aug., '02	0.031	0.03	—	0.125	0.3125
Drilling	21 Aug., '02 ~ 21 Aug., '02	0.438	Drilling : 0.44	—	1.75	4.375
			Accident: 0.00	—	0	0
Dismount	21 Aug., '02 ~ 21 Aug., '02	0.031	0.03	—	0.125	0.3125
Total	21 Aug., '02 ~ 21 Aug., '02	0.500	0.50	—	2	5

Drilling Length			
Programmed length	-	Overburden, sand & gravel, Quarternary	8.40 m
Prolongation	-	Core length	13.60 m
Effective length	22.00 m	Core recovery	100.0 %

Working hours			
Drilling	5.0 hrs	71.4%	41.7%
Supplemental drilling work	2.0 hrs	28.6%	16.7%
Recovery from accident	-	-	-
Subtotal	7.0 hrs	100%	58.3%
Preparation/setting up	0.5 hrs	-	4.2%
Dismount/mobilization	0.5 hrs	-	4.2%
Transportation of water	4.0 hrs	-	33.3%
Others			
Total	12.0 hrs	-	100%

Core recovery by each 10 meters		
Length (m)	Each (%)	Cumula. (%)
0 - 8.4	None core	None core
8.4 - 10.0	100.0	100.0
10.0 -20.0	100.0	100.0
20.0 -22.0	100.0	100.0

Efficiency
Effective length / Working drilling days
= 22.00m/0.4375 days = 50.29m/d
Effective length / Total drilling shifts =
= 22.00m/0.875 shifts = 25.14 m/shift

Drilling length by diameter					
Bit diameter	4"TB	92mmϕ			Total
Drilling length	0.00 m	22.00 m			22.00 m
Core length	0.00 m	13.60 m			13.60 m

Inserted casing pipes			
Inserted length by diameter		Inserted length / Drilling length	Casing recovery

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-34)

	Survey period		Breakdown of period		Total workers	
	Period	Total days	Working days	No working days	Engineers	Workers
Preparation	15 Aug., '02 ~ 15 Aug., '02	0.031	0.03	—	0.125	0.3125
Drilling	15 Aug., '02 ~ 15 Aug., '02	0.438	Drilling : 0.44	—	1.75	4.375
			Accident: 0.00	—	0	0
Dismount	15 Aug., '02 ~ 15 Aug., '02	0.031	0.03	—	0.125	0.3125
Total	15 Aug., '02 ~ 15 Aug., '02	0.500	0.50	—	2	5

Drilling Length			
Programmed length	–	Overburden, sand & gravel, Quarternary	10.00 m
Prolongation	–	Core length	24.00 m
Effective length	34.00 m	Core recovery	100.0 %

Working hours			
Drilling	5.0 hrs	71.4%	35.7%
Supplemental drilling work	2.0 hrs	28.6%	14.3%
Recovery from accident	–	–	–
Subtotal	7.0 hrs	100%	50.0%
Preparation/setting up	0.5 hrs	–	3.6%
Dismount/mobilization	0.5 hrs	–	3.6%
Transportation of water	6.0 hrs	–	42.9%
Others			
Total	14.0 hrs	–	100%

Core recovery by each 10 meters		
Length (m)	Each (%)	Cumula. (%)
0 – 10.0	None core	None core
10.0 – 20.0	100.0	100.0
20.0 – 30.0	100.0	100.0
30.0 – 34.0	100.0	100.0

Efficiency

Effective length / Working drilling days

= 34.00m/0.4375 days = 77.71m/d

Effective length / Total drilling shifts =

= 34.00m/0.875 shifts = 38.86 m/shift

Drilling length by diameter					
Bit diameter	4″TB	92mm ϕ			Total
Drilling length	0.00 m	34.00 m			34.00 m
Core length	0.00 m	24.00 m			24.00 m

Inserted casing pipes			
Inserted length by diameter		Inserted length / Drilling length	Casing recovery

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-35)

	Survey period		Breakdown of period		Total workers	
	Period	Total days	Working days	No working days	Engineers	Workers
Preparation	20 Aug., '02 ~ 20 Aug., '02	0.031	0.03	—	0.125	0.3125
Drilling	20 Aug., '02 ~ 20 Aug., '02	0.438	Drilling : 0.44	—	1.75	4.375
			Accident: 0.00	—	0	0
Dismount	20 Aug., '02 ~ 20 Aug., '02	0.031	0.03	—	0.125	0.3125
Total	20 Aug., '02 ~ 20 Aug., '02	0.500	0.50	—	2	5

Drilling Length			
Programmed length	-	Overburden, sand & gravel, Quarternary	9.00 m
Prolongation	-	Core length	7.00 m
Effective length	16.00 m	Core recovery	100.0 %

Working hours			
Drilling	5.0 hrs	71.4%	41.7%
Supplemental drilling work	2.0 hrs	28.6%	16.7%
Recovery from accident	-	-	-
Subtotal	7.0 hrs	100%	58.3%
Preparation/setting up	0.5 hrs	-	4.2%
Dismount/mobilization	0.5 hrs	-	4.2%
Transportation of water	4.0 hrs	-	33.3%
Others			
Total	12.0 hrs	-	100%

Core recovery by each 10 meters		
Length (m)	Each (%)	Cumula. (%)
0 - 9.0	None core	None core
9.0 - 10.0	100.0	100.0
10.0 - 16.0	100.0	100.0

Efficiency
Effective length / Working drilling days
= 16.00m/0.4375 days = 36.57m/d
Effective length / Total drilling shifts =
= 16.00m/0.875 shifts = 18.29 m/shift

Drilling length by diameter					
Bit diameter	4"TB	92mm ϕ			Total
Drilling length	0.00 m	16.00 m			16.00 m
Core length	0.00 m	7.00 m			7.00 m

Inserted casing pipes			
Inserted length by diameter		Inserted length / Drilling length	Casing recovery

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-36)

	Survey period		Breakdown of period		Total workers	
	Period	Total days	Working days	No working days	Engineers	Workers
Preparation	22 Aug., '02 ~ 22 Aug., '02	0.031	0.03	—	0.125	0.3125
Drilling	22 Aug., '02 ~ 22 Aug., '02	0.438	Drilling : 0.44	—	1.75	4.375
			Accident: 0.00	—	0	0
Dismount	22 Aug., '02 ~ 22 Aug., '02	0.031	0.03	—	0.125	0.3125
Total	22 Aug., '02 ~ 22 Aug., '02	0.500	0.50	—	2	5

Drilling Length			
Programmed length	-	Overburden, sand & gravel, Quarternary	4.00 m
Prolongation	-	Core length	16.00 m
Effective length	20.00 m	Core recovery	100.0 %

Working hours			
Drilling	5.0 hrs	71.4%	50.0%
Supplemental drilling work	2.0 hrs	28.6%	20.0%
Recovery from accident	-	-	-
Subtotal	7.0 hrs	100%	70.0%
Preparation/setting up	0.5 hrs	-	5.0%
Dismount/mobilization	0.5 hrs	-	5.0%
Transportation of water	2.0 hrs	-	20.0%
Others			
Total	10.0 hrs	-	100%

Core recovery by each 10 meters		
Length (m)	Each (%)	Cumula. (%)
0 - 4.0	None core	None core
4.0 - 10.0	100.0	100.0
10.0 -20.0	100.0	100.0

Efficiency
Effective length / Working drilling days
= 20.00m/0.4375 days = 45.71m/d
Effective length / Total drilling shifts =
= 20.00m/0.875 shifts = 22.86 m/shift

Drilling length by diameter					
Bit diameter	4"TB	92mmϕ			Total
Drilling length	0.00 m	20.00 m			20.00 m
Core length	0.00 m	18.00 m			18.00 m

Inserted casing pipes			
Inserted length by diameter		Inserted length / Drilling length	Casing recovery

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-37)

	Survey period		Breakdown of period		Total workers	
	Period	Total days	Working days	No working days	Engineers	Workers
Preparation	21 Aug., '02 ~ 21 Aug., '02	0.031	0.03	—	0.125	0.3125
Drilling	21 Aug., '02 ~ 21 Aug., '02	0.438	Drilling : 0.44	—	1.75	4.375
			Accident: 0.00	—	0	0
Dismount	21 Aug., '02 ~ 21 Aug., '02	0.031	0.03	—	0.125	0.3125
Total	21 Aug., '02 ~ 21 Aug., '02	0.500	0.50	—	2	5

Drilling Length			
Programmed length	-	Overburden, sand & gravel, Quarternary	2.00 m
Prolongation	-	Core length	19.00 m
Effective length	21.00 m	Core recovery	100.0 %

Working hours			
Drilling	5.0 hrs	71.4%	41.7%
Supplemental drilling work	2.0 hrs	28.6%	16.7%
Recovery from accident	-	-	-
Subtotal	7.0 hrs	100%	58.3%
Preparation/setting up	0.5 hrs	-	4.2%
Dismount/mobilization	0.5 hrs	-	4.2%
Transportation of water	4.0 hrs	-	33.3%
Others			
Total	12.0 hrs	-	100%

Core recovery by each 10 meters		
Length (m)	Each (%)	Cumula. (%)
0 - 8.4	None core	None core
8.4 - 10.0	100.0	100.0
10.0 -20.0	100.0	100.0
20.0 -21.0	100.0	100.0

Efficiency
Effective length / Working drilling days
= 21.00m/0.4375 days = 48.00m/d
Effective length / Total drilling shifts =
= 21.00m/0.875 shifts = 24.00 m/shift

Drilling length by diameter					
Bit diameter	4"TB	92mmϕ			Total
Drilling length	0.00 m	21.00 m			21.00 m
Core length	0.00 m	19.00 m			19.00 m

Inserted casing pipes			
Inserted length by diameter		Inserted length / Drilling length	Casing recovery

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-38)

	Survey period		Breakdown of period		Total workers	
	Period	Total days	Working days	No working days	Engineers	Workers
Preparation	26 Aug., '02 ~ 26 Aug., '02	0.03	0.03	—	0.125	0.3125
Drilling	26 Aug., '02 ~ 26 Aug., '02	0.69	Drilling : 0.69	—	2.75	6.875
			Accident: 0.00	—	0	0
Dismount	26 Aug., '02 ~ 26Aug., '02	0.03	0.03	—	0.125	0.3125
Total	26 Aug., '02 ~ 26 Aug., '02	0.75	0.75	—	3	7.5

Drilling Length			
Programmed length	-	Overburden, sand & gravel, Quarternary	11.00 m
Prolongation	-	Core length	10.00 m
Effective length	21.00 m	Core recovery	100.0 %

Working hours			
Drilling	6.0 hrs	54.5%	33.3%
Supplemental drilling work	5.0 hrs	45.5%	27.8%
Recovery from accident	-	-	-
Subtotal	11.0 hrs	100%	61.1%
Preparation/setting up	0.5 hrs	-	2.8%
Dismount/mobilization	0.5 hrs	-	2.8%
Transportation of water	6.0 hrs	-	33.3%
Others			
Total	18.0 hrs	-	100%

Core recovery by each 10 meters		
Length (m)	Each (%)	Cumula. (%)
0 - 11.0	None core	None core
11.0 - 20.0	100.0	100.0
20.0 - 21.0	100.0	100.0

Efficiency

Effective length / Working drilling days

= 21.00m/0.6875 days = 30.55 m/d

Effective length / Total drilling shifts =

= 21.00m/1.375 shifts = 15.27 m/shift

Drilling length by diameter					
Bit diameter	4"TB	92mmϕ			Total
Drilling length	11.00 m	10.00 m			21.00 m
Core length	0.00 m	10.00 m			10.00 m

Inserted casing pipes			
Inserted length by diameter		Inserted length / Drilling length	Casing recovery
133mmϕ	11.00 m	52.38%	100%

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-39)

	Survey period		Breakdown of period		Total workers	
	Period	Total days	Working days	No working days	Engineers	Workers
Preparation	24 Aug., '02 ~ 24 Aug., '02	0.13	0.13	—	0.5	1.25
Drilling	24 Aug., '02 ~ 25 Aug., '02	1.09	Drilling : 1.09	—	4.375	10.938
			Accident: 0.00	—	0	0
Dismount	25 Aug., '02 ~ 25Aug., '02	0.03	0.03	—	0.125	0.3125
Total	24 Aug., '02 ~ 25 Aug., '02	1.25	1.25	—	5	12.5

Drilling Length			
Programmed length	-	Overburden, sand & gravel, Quarternary	12.00 m
Prolongation	-	Core length	3.00 m
Effective length	15.00 m	Core recovery	100.0 %

Working hours			
Drilling	12.0 hrs	68.6%	42.9%
Supplemental drilling work	5.5 hrs	31.4%	19.6%
Recovery from accident	-	-	-
Subtotal	17.5 hrs	100%	62.5%
Preparation/setting up	2.0 hrs	-	7.1%
Dismount/mobilization	0.5 hrs	-	1.8%
Transportation of water	8.0 hrs	-	28.6%
Others			
Total	28.0 hrs	-	100%

Core recovery by each 10 meters		
Length (m)	Each (%)	Cumula. (%)
0 - 12.0	None core	None core
12.0 - 15.0	100.0	100.0

Efficiency
Effective length / Working drilling days
= 15.00m/1.09 days = 13.71 m/d
Effective length / Total drilling shifts =
= 15.00m/2.19 shifts = 6.86 m/shift

Drilling length by diameter					
Bit diameter	4"TB	92mm ϕ			Total
Drilling length	12.00 m	3.00 m			15.00 m
Core length	0.00 m	3.00 m			3.00 m

Inserted casing pipes			
Inserted length by diameter		Inserted length / Drilling length	Casing recovery
133mm ϕ	12.00 m	80.00%	100%

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-40)

	Survey period		Breakdown of period		Total workers	
	Period	Total days	Working days	No working days	Engineers	Workers
Preparation	25 Aug., '02 ~ 25 Aug., '02	0.03	0.03	—	0.125	0.3125
Drilling	25 Aug., '02 ~ 25 Aug., '02	0.69	Drilling : 0.69	—	2.75	6.875
			Accident: 0.00	—	0	0
Dismount	25 Aug., '02 ~ 25Aug., '02	0.03	0.03	—	0.125	0.3125
Total	25 Aug., '02 ~ 25 Aug., '02	0.75	0.75	—	3.0	7.5

Drilling Length			
Programmed length	-	Overburden, sand & gravel, Quarternary	11.00 m
Prolongation	-	Core length	3.50 m
Effective length	14.50 m	Core recovery	100.0 %

Working hours			
Drilling	12.0 hrs	68.6%	42.9%
Supplemental drilling work	5.5 hrs	31.4%	19.6%
Recovery from accident	-	-	-
Subtotal	17.5 hrs	100%	62.5%
Preparation/setting up	2.0 hrs	-	7.1%
Dismount/mobilization	0.5 hrs	-	1.8%
Transportation of water	8.0 hrs	-	28.6%
Others			
Total	28.0 hrs	-	100%

Core recovery by each 10 meters		
Length (m)	Each (%)	Cumula. (%)
0 - 11.0	None core	None core
11.0 - 14.5	100.0	100.0

Efficiency
Effective length / Working drilling days
= 14.50m/0.69 days = 21.09 m/d
Effective length / Total drilling shifts =
= 14.50m/1.375 shifts =10.55 m/shift

Drilling length by diameter					
Bit diameter	4"TB	92mmϕ			Total
Drilling length	11.00 m	3.50 m			14.50 m
Core length	0.00 m	3.50 m			3.50 m

Inserted casing pipes			
Inserted length by diameter		Inserted length / Drilling length	Casing recovery
133mmϕ	11.00 m	75.86%	100%

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-41)

	Survey period		Breakdown of period		Total workers	
	Period	Total days	Working days	No working days	Engineers	Workers
Preparation	26 Aug., '02 ~ 26 Aug., '02	0.03	0.03	—	0.125	0.3125
Drilling	26 Aug., '02 ~ 27 Aug., '02	0.69	Drilling : 0.69	—	2.75	6.875
			Accident: 0.00	—	0	0
Dismount	27 Aug., '02 ~ 27Aug., '02	0.03	0.03	—	0.125	0.3125
Total	26 Aug., '02 ~ 27 Aug., '02	0.75	0.75	—	3	7.5

Drilling Length			
Programmed length	-	Overburden, sand & gravel, Quarternary	12.00 m
Prolongation	-	Core length	9.00 m
Effective length	18.00 m	Core recovery	100.0 %

Working hours			
Drilling	6.0 hrs	54.5%	33.3%
Supplemental drilling work	5.0 hrs	45.5%	27.8%
Recovery from accident	-	-	-
Subtotal	11.0 hrs	100%	61.1%
Preparation/setting up	0.5 hrs	-	2.8%
Dismount/mobilization	0.5 hrs	-	2.8%
Transportation of water	6.0 hrs	-	33.3%
Others			
Total	18.0 hrs	-	100%

Core recovery by each 10 meters		
Length (m)	Each (%)	Cumula. (%)
0 - 9.0	None core	None core
9.0 - 10.0	100.0	100.0
10.0 - 18.0	100.0	100.0

Efficiency
Effective length / Working drilling days
= 18.00m/0.6875 days = 28.18 m/d
Effective length / Total drilling shifts =
= 18.00m/1.375 shifts = 13.09 m/shift

Drilling length by diameter					
Bit diameter	4"TB	92mm ϕ			Total
Drilling length	9.00 m	9.00 m			18.00 m
Core length	0.00 m	9.00 m			9.00 m

Inserted casing pipes			
Inserted length by diameter		Inserted length / Drilling length	Casing recovery
133mm ϕ	10.00 m	55.56%	100%