Appendix 4

STEARNS DRILLING COMPANY	Sample		Blow	Depth			wanishaman wa
Mary Control of the C	Туре	REC	Count	Feet		SOIL DESCRIPTION	T W
6974 Hammond SE Dutton, Michigan 49316-9116 616/698-7770				1.0		Topsoil - dark brown fine sand w/organics Sand - brown fine, trace clay	
FAX 616/698-9886							
Job No. 06-11146-3	4" core	5'			_		-
LOG OF TEST BORING NO. R-1-06				4.0	L		
Sheet: 1 of 4				5_	_	Sand - brown medium to fine, some fine to medium gravels and occasional cobbles	
Project: Aggregate Industries	8						-
ELEVATION: 1078'							-
Location: Chelsea, MI							
					_		
Date Completed: 3/27/06					_		
Crew Chief: Gryska				10			
Drill Rig: Sonic 11				10_			
Boring Method: 4" & 6"							
Hole Plugged With: Natural soils					_		
					_		
GROUNDWATER:	e e						
Encountered @ none ft.	4" core	101					
After completion ft. After hrs. ft.	4	10'		15	-		-
Seepage: ft.					_	-	
Boring Caved at: 41.00 ft.							
MONITOR WELL DATA:							
Pipe/Type Length:					-		-
Above Ground:							
Cap:							-
Screen/Type:				20_	_		
Size: Slot					-		
Set @							
Backfilled							
Bentomte Seal:					-		1-1
Grout/Type Depth:					-		_
Protective Casing:							
Materials Cleaned: Development:				25_		-	
Development.							-
REMARKS:							
A WAR A V R. L. R. R. R. R. P.	core						
LEGEND:	#	15'					
Blow Count/Blows per 6" w/140# hammer x 30" drop					-		-
SS-2" Split Spoon Sampler				20			
LS-Brass Liner Sample ST-Shelby Tube Sample				30_		_	-
SNR-Sample not recovered							
LB-Large Bore					Ш		

STEARNS DRILLING COMPANY	Sample		Blow	Depth	20.53.66 ±	The state of the s	Т
6974 Hammond SE Dutton, Michigan 49316-9116 616/698-7770	Type	REC	Count	Feet		SOIL DESCRIPTION Sand - brown medium to fine, some fine to medium gravels and occasional cobbles	
FAX 616/698-9886 Job No. 06-11146-3							
LOG OF TEST BORING NO. R-1-06					_		_
Sheet: 2 of 4				35			
Project: Aggregate Industries				33_	-		_
Aggregate muustres							_
Location: Chelsea, MI							_
Data Completed 2/07/06					_		-
Date Completed: 3/27/06				40	_		_
Crew Chief: Gryska Drill Rig: Sonic 11				40_	_		
Boring Method: 4" & 6"					_		
Hole Plugged With: Natural soils					_		
GROUNDWATER:	core,				_		
Encountered @ none ft. After completion ft.	4"	10'			_		
After hrs. ft. Seepage: ft.				45_	_		_
Boring caved at: 41.00 ft.					_		_
MONITOR WELL DATA: Pipe/Type:					_		_
Length: Above Ground:							
Cap:							
Screen/Type: Size:				50_			
Slot Set @							
Backfilled	core				_		
Bentonite Seal: Grout/Type:	4" cc	10'					
Depth: Protective Casing					_		
Materials Cleaned: Development:				55_	_	_	
REMARKS:							
LEGEND: Blow Count/Blows per 6"							
w/140# hammer x 30" drop SS-2" Split Spoon Sampler					_		
LS-Brass Liner Sample ST-Shelby Tube Sample				60_			
SNR-Sample not recovered LB-Large Bore							

STEARNS DRILLING	G COMPANY	Sample Type	REC	Blow Count	Depth Feet	SIOMS	SOIL DESCRIPTION	T
6974 Hammond SE Dutton, Michigan 4931 616/698-7770 FAX 616/698-9886	6-9116		NIC				Sand - brown medium to fine, some fine to medium gravels and occasional cobbles	######################################
Job No.	06-11146-3	4" core	101					
LOG OF TEST BOR	ING NO. R-1-06	4	10'			_		
Sheet: 3 of 4					65_	_		_
Project:	Aggregate Industries							
Location:	Chelsea, MI					şan.		
Date Completed:	03/27/06					_		
Crew Chief: Drill Rig: Boring Method:	Gryska Sonic 11 4" & 6"				70_		-	GOXION GOXION
Hole Plugged With:	Natural soils							
GROUNDWATER: Encountered @ After completion After hrs. Seepage: Boring caved at:	none ft. ft. ft. ft. 41.00 ft.	4" core	10'		75_	Control of the contro		
MONITOR WELL D Pipe/Type Length: Above Ground:	ATA:	T ANA				60000		Community of the Commun
Cap								_
Screen/Type Size:					80_		Sand - light brown fine	
Slot Set (a)								_
Backfilled: Bentonite Seal:								
Grout/Type Depth:						_		-
Protective Casing Materials Cleaned:					85_	_	_	
Development:								
REMARKS:								_
LEGEND: Blow Count/Blows per 6"								_
w/140# hammer x 30" drop SS-2" Split Spoon Sampler	•							essen
LS-Brass Liner Sample ST-Shelby Tube Sample					90_		_	
SNR-Sample not recovered LB-Large Bore				an ar				

STEARNS DRILLING COMPANY	Tanahara da manana	Taxasiman and	Y ^{alka} oniin	e jeszentkomorine	nage disconstitute		enegronea <u>co</u>
SIEARIS DRILLING COMPANI	Sample Type	REC	Blow Count	Depth Feet		SOIL DESCRIPTION	T W
6974 Hammond SE Dutton, Michigan 49316-9116 616/698-7770 FAX 616/698-9886	PMEA-STATE STATE S					Sand - light brown fine	
Job No. 06-11146-3							
LOG OF TEST BORING NO. R-1-06							_
Sheet: 4 of 4				95_			guns
Project: Aggregate Industr	ies						
Location: Chelsea, MI							
Date Completed: 3/27/06						E. O. B. @ 98.0'	
Crew Chief: Gryska				100	_		epizza .
Drill Rig: Sonic 11 Boring Method: 4" & 6"					_		
Hole Plugged With: Natural soils					_		
					_		
GROUNDWATER: Encountered @ none ft. After completion ft.					_		
After hrs. ft. Seepage: ft. Boring Caved at: 41.00 ft.				105			
MONITOR WELL DATA:							
Pipe/Type: Length: Above Ground:							A BANKS
Cap:							
Screen/Type: Size: Slot:				110			encedoração de la constanção de la const
Set @ Backfilled:					_		
Bentonite Seal:							
Grout/Type: Depth:					am		_
Protective Casing Materials Cleaned				115	_	_	_
Development:					-		_
REMARKS:					_		_
LEGEND:					_		
Blow Count/Blows per 6" w/140# hammer x 30" drop SS-2" Split Spoon Sampler					_		
LS-Brass Liner Sample ST-Shelby Tube Sample				120			
SNR-Sample not recovered LB-Large Bore					_		
	Approximate and approximate an			B. Assessment	i	terminante como interminante en estado en entre en enterminado en	

STEARNS DRILLIN	G COMPANY	Sample		Blow	Depth	V 300-00-00		T
6974 Hammond SE		Туре	REC	Count	Feet		Soil description Sand - brown fine clayey	w
Dutton, Michigan 493 616/698-7770	16-9116					-		
FAX 616/698-9886		9						
Job No.	06-11146-3	4" core	3'					
LOG OF TEST BORIN	IG NO. R-2-06							
Sheet: 1 of 4					5_			
Project:	Aggregate Industries					_		_
ELEVATION: 1080	G. 1					_		
Location:	Chelsea, MI				8.0			
Date Completed:	3/28/06					_	Gravel - fine to coarse, some sands	-
Crew Chief:	Gryska				10_			
Drill Rig: Boring Method:	Sonic 11 4" & 6"					_		_
Hole Plugged With:	Natural soils					-		
						_		_
GROUNDWATER: Encountered @	none ft.	core						
After completion After hrs.	ft.	4"	2'		15			
Seepage: Boring Caved at:	ft. 49.00 ft.				12_	_		-
						_		
MONITOR WELL D Pipe/Type:	AIA:							
Length: Above Ground:								_
Сар		•						
Screen/Type Size:					20_			-
Slot Set (a)								
Backfilled:								
Bentonite Seal: Grout/Type								
Depth: Protective Casing:		core				_		
Materials Cleaned: Development:		14	2'		25_			
- e recoperation								
REMARKS:						_		
LEGEND:						_		
Blow Count/Blows per 6" w/140# hammer x 30" drop	p .							
SS-2" Split Spoon Sampler LS-Brass Liner Sample				-	30_			
ST-Shelby Tube Sample SNR-Sample not recovered						_		
LB-Large Bore						L		

STEARNS DRILLING COMPANY	Sample	Water No. of the Control of the Cont	Blow	Depth			T
6974 Hammond SE	Туре	REC	Count	Feet		SOIL DESCRIPTION	w
Dutton, Michigan 49316-9116 616/698-7770 FAX 616/698-9886					_	Gravel - fine to coarse, some sands	_
Job No. 06-11146-3							
LOG OF TEST BORING NO. R-2-06	4" core				-		
Sheet: 2 of 4	4	3'		35_			_
Project: Aggregate Industries					_		
Location: Chelsea, MI				37.0			
Location. Cheisea, ivii					_	Sand - brown coarse to medium, some fine to medium gravels, occasional cobbles	_
Date Completed: 3/28/06					_		_
Crew Chief: Gryska Drill Rig: Sonic 11				40_	_	_	-
Boring Method: 4" & 6"					_		
Hole Plugged With: Natural soils							
GROUNDWATER:	4" core				_		
Encountered @ none ft. After completion ft. After hrs. ft,	4	8'		45	_		
Seepage: ft. Boring caved at: 49.00 ft.				45_		_	_
MONITOR WELL DATA:							
Pipe/Type: Length:					_		
Above Ground: Cap:			723510		_		
Screen/Type: Size:				50_		_	
Slot: Set @					_		
Backfilled	æ						_
Bentonite Seal: Grout/Type:	4" core	10'					
Depth: Protective Casing:							
Materials Cleaned: Development:				55_		_	
REMARKS:					_		
LEGEND:							
Blow Count/Blows per 6" w/140# hammer x 30" drop					-		
SS-2" Split Spoon Sampler LS-Brass Liner Sample	***************************************			60_	-		
ST-Shelby Tube Sample SNR-Sample not recovered					_		
LB-Large Bore							

179	STEARNS DRILLING COMPANY	Sample		Blow	Depth			
Datton, Michigan 49316-9116 (16698-7985) Job No. 06-11146-3 Job No. 06-11146-3 Job No. 06-11146-3 Job No. 06-11146-3 Exercise Aggregate Industries Location: Chelsea, MI Date Completed; 03/28/06 Crew Chief: Gryska Drill Rig. Sonic 11 Doring Method: 4" & 6" Hole Plugged With: Natural soils Effocultiered @ none ft. After completion ft. After completion ft. After hrs. ft. Seepage: ft. Boring graved at: 49,00 ft. MONHOR WELL DATA: Fiped Type:		10	REC	8				8
Glofogs-9770						_		-
Job No.	616/698-7770							
Sheet: 3 of 4 Project: Aggregate Industries Location: Chelsea, MI Date Completed: 03/28/06 Crew Chief: Gryske Drill Rig. Sonic 11 Boring Method: 4" & 6" Hole Plugged With: Natural soils GROUNDWATER: ERCOUNDWATER: Hrs. ft. ft. Seepage: ft. Boring caved at: 49,00 ft. MONITOR WALL DATES Cought: ASSE County Cou	FAX 616/698-9886	ų.				-		-
Discrete	Job No. 06-11146-3	100						
Shect: 3 of 4 Project: Aggregate Industries Location: Chelsea, Mi Date Completed: 03/28/06 Crew Chief: Gryska Drift Rig: Sonic II Boring Method: 4* & 6* Hole Plugged With: Natural soils GROUNDWATER:	LOG OF TEST BORING NO B-2-06	4	6'			_		
Project: Aggregate Industries Location: Chelsea, MI Date Completed: 03/28/06 Crew Chief: Gryska Drill Rig: Sonic 11 Boring Method: 4* & 6" Hole Plugged With: Natural soils GROUNDWATER: Encountered @ none ft. After on pretion ft. After hrs. ft. Seepage: ft. Boring caved at: 49.00 ft. MONITOR WELL BAKA; Prey Type: Location: Crew Chief: Str @								
Date Completed: 03/28/06	Sheet: 3 of 4				65_		_	_ -
Date Completed: 0.3/28/06 Crew Chief: Gryska Drill Rig: Sonic 11 Boring Method: 4* & 6* Hole Plugged With: Natural soils GROUNDWATER: Encountered @ none ft. After completion ft. After completion ft. After spring caved at: 49.00 ft. Boring caved at: 49.00 ft. HONITOR WELL DATA: Fipel Type	Project: Aggregate Industries					_		_
Date Completed: 0.3/28/06 Crew Chief: Gryska Drill Rig: Sonic 11 Boring Method: 4* & 6* Hole Plugged With: Natural soils GROUNDWATER: Encountered @ none ft. After completion ft. After completion ft. After spring caved at: 49.00 ft. Boring caved at: 49.00 ft. HONITOR WELL DATA: Fipel Type						_		_
Crew Chief:	Location: Chelsea, MI							
Crew Chief:								
Drill Rig: Sonic 11	Date Completed: 03/28/06					_		_
Drill Rig: Sonic 11	Crew Chief: Gryska				70	_		
Hole Plugged With: Natural soils GROUNDWATER: Encountered @ none fl. After completion fl. After plus fl. After	Drill Rig: Sonic 11				/"_	_	_	-
GROUNDWATER: Encountered @ none fl. After completion fl. After hrs. fl. Seepage: fl. Boring caved at: 49.00 fl. MONITOR WELL DATA: Pipe/Type Length: Above Ground: Cap Screen/Type: Size: Slot: Set @ Backfilled. Bentontie Seal: Groun/Type: Depth: Protective Casting. Materials Cleined. Development REMARKS: LEGEND: Blow Count/Blows per 6" Wild@ harmar x 30" drop SS-2" Split Spoon Sampler LS-Brass Liner Sample T-Skelty Tube Sample - Sand - light brown fine - Sand - light brown fine - Sand - light brown fine - Sand - light brown fine - Sand - light brown fine - Sand - light brown fine	Boring Method: 4" & 6"							
Encountered @ none ft. After completion ft. After hrs. ft. Seepage: ft. Boring caved at: 49.00 ft. MONITOR WELL DATA;	Hole Plugged With: Natural soils							
Encountered @ none ft. After completion ft. After hrs. ft. Seepage: ft. Boring caved at: 49.00 ft. MONITOR WELL DATA;		ore				-		_
After completion ft. After hrs. ft. Seepage: ft. Boring caved at: 49.00 ft. **MONITOR WELL DATA:** Pipe/Type Length: Above Ground: Cap Screen/Type Size Slot Set (a) Backfilled: Bentonite Seal: Grout/Type: Depth: Protective Casing: Materials Cleaned: Development: **REMARKS:** REMARKS: LEGEND: Blow Count/Blows per 6" w/140# harmer x 30" drop Ss2-2" Spit Spoon Sampler LS-Brask Liner Sample ST-Shelby Tube Sample ST-Shelby Tube Sample ST-Shelby Tube Sample		1	8'					
After hrs. ft. Seepage: ft. Boring caved at: 49,00 ft. MONITOR WELL DATA: Pipe/Type Length: Above Ground: Cap Screen/Type Size: Slot Set @ Backfilled: Bentonite Seal: Gront/Type Depth: Protective Casing. Materials Cleaned: Development: REMARKS: LEGENS: Blow Count/Blows per 6" Wil-46th harmner x 30" drop Ss-2" split Spoon Sampler Ls-Brass Liner Sample LS-Brass Liner Sample LS-Brass Liner Sample Sand - light brown fine Sand - light brown fine - Sand - light brown fine								
Boring caved at:	After hrs. ft.				75_			_
MONITOR WELL DATA: Pipe/Type Length: Above Ground: Cap Screen/Type; Size: Slot Set (2) Bentonite Seal: Grout/Type: Depth: Protective Casing: Materials Cleaned Development: REMARKS: LEGEND: Blow Count/Blows per 6" w/140# hammer x 30" drop SS-2" Split Spoon Sample SS-2" Split Spoon Sample SS-2" Split Spoon Sample ST-Shelby Tube Sample ST-Shelby Tube Sample								
Pipe/Type:								
Length: Above Ground:								
Screen/Type	Length:					_		_
Screen/Type						-		_
Size: Slot: State								
Slot Set (a) Backfilled:					80_	_	_	-1
Bentonite Seal:	Slot:							
Bentonite Seal: Grout/Type:								
Crout/Type								
Depth:		0						
Materials Cleaned	Depth:	con						-
Development: REMARKS: LEGEND: Blow Count/Blows per 6" w/140# hammer x 30" drop SS-2" Split Spoon Sampler LS-Brass Liner Sample ST-Shelby Tube Sample SS-2" Sample ST-Shelby Tube Sample		4	10'		0£			_
LEGEND: Blow Count/Blows per 6" w/140# hammer x 30" drop SS-2" Split Spoon Sampler LS-Brass Liner Sample ST-Shelby Tube Sample 88.0 Clay - gray sandy w/ gravels Sand - light brown fine Sand - light brown fine	Development:				92_		-	-
LEGEND: Blow Count/Blows per 6" w/140# hammer x 30" drop SS-2" Split Spoon Sampler LS-Brass Liner Sample ST-Shelby Tube Sample 88.0 Clay - gray sandy w/ gravels Sand - light brown fine Sand - light brown fine								
Blow Count/Blows per 6" w/140# hammer x 30" drop SS-2" Split Spoon Sampler LS-Brass Liner Sample ST-Shelby Tube Sample SS-2" Split Spoon Sample US-Brass Liner Sample ST-Shelby Tube Sample	REMARKS:							-
Blow Count/Blows per 6" w/140# hammer x 30" drop SS-2" Split Spoon Sampler LS-Brass Liner Sample ST-Shelby Tube Sample SS-2" Split Spoon Sample LS-Brass Liner Sample ST-Shelby Tube Sample	I ECEND.				86 V	-		
SS-2" Split Spoon Sampler LS-Brass Liner Sample ST-Shelby Tube Sample SS-2" Split Spoon Sample Sand - light brown fine Sand - light brown fine	Blow Count/Blows per 6"			OTHER DESIGNATION OF THE PERSON OF THE PERSO			Clay - gray sandy w/ gravels	
LS-Brass Liner Sample ST-Shelby Tube Sample 90					89.0		Sand - light brown fine	
ST-Shelby Tube Sample SNR-Sample not recovered	LS-Brass Liner Sample)re			90_			
	ST-Shelby Tube Sample SNR-Sample not recovered	t	4'					
	LB-Large Bore							

STEARNS DRILLIN	G COMPANY	Sample		Blow	Depth	AMPANIANA 		T
6974 Hammond SE		Туре	REC	Count	Feet		SOIL DESCRIPTION Sand - light brown fine	w
Dutton, Michigan 4931 616/698-7770 FAX 616/698-9886	16-9116						. 8	
Job No.	06-11146-3				93.0	_		_
LOG OF TEST BOR	ING NO. R-2-06						E. O. B. @ 93.0'	
Sheet: 4 of 4					95_		_	_
Project:	Aggregate Industries					_		
Location:	Chelsea, MI							COURS CALLEDONS IN
Date Completed:	3/28/06					_		
Crew Chief: Drill Rig:	Gryska Sonic 11				100		_	-
Boring Method:	4" & 6"				·			
Hole Plugged With:	Natural soils							_
GROUNDWATER:	_							
Encountered @ After completion	none ft.				40 %			
After hrs. Seepage: Boring Caved at:	ft. ft. 49.00 ft.				105	_		-
MONITOR WELL D								_
Pipe/Type: Length	en Aens							_
Above Ground: Cap:						_		
Screen/Type:					110			
Size; Slot:							_	-
Set @ Backfilled:						_		
Bentonite Seal.						_		
Grout/Type: Depth:						_		
Protective Casing Materials Cleaned Development					115			
Эсчеюриен.								
REMARKS:								_
LEGEND: Blow Count/Blows per 6"								
w/140# hammer x 30" drop SS-2" Split Spoon Sampler)							
LS-Brass Liner Sample ST-Shelby Tube Sample					120			.
SNR-Sample not recovered LB-Large Bore								

STEARNS DRILLING	G COMPANY	Sample Type	REC	Blow Count	Depth Feet		SOIL DESCRIPTION	T W
6974 Hammond SE Dutton, Michigan 4931 616/698-7770 FAX 616/698-9886	6-9116	- v E		- 7 - 2000	1.0		Topsoil - dark brown fine sand w/ organics Sand - brown fine, trace clay; moist	
Job No.	06-11146-3	core						
LOG OF TEST BORIN	G NO. R-3-06	4"	6'					_
Sheet: 1 of 4					5_	_	_	_
Project:	Aggregate Industries					_		
ELEVATION: 1090' Location:	Chelsea, MI				7.0	AMERICAN AND AND AND AND AND AND AND AND AND A	Sand - light brown fine, trace fine to medium gravels	0000
Date Completed:	3/28/06							_
Crew Chief: Drill Rig: Boring Method:	Gryska Sonic 11 4" & 6"				10_			40000
Hole Plugged With:	Natural soils	e)						_
GROUNDWATER: Encountered @ After completion After hrs. Seepage: Boring Caved at: MONITOR WELL D. Pipe/Type	none ft. ft. ft. ft. 75.00 ft. ATA:	4" core	9'		15_			
Length: Above Ground: Cap Screen/Type: Size; Slot: Set (a): Backfilled: Bentonite Scal: Grout/Type: Depth: Protective Casing Materials Cleaned: Development:		4" core	10'		20_			
REMARKS:								_
LEGEND: Blow Count/Blows per 6"								
w/140# hammer x 30" drop SS-2" Split Spoon Sampler					20			
LS-Brass Liner Sample ST-Shelby Tube Sample SNR-Sample not recovered					30_		_	-
LB-Large Bore					and the superposition of the second			

STEARNS DRILLING	G COMPANY	Sample Type	REC	Blow Count	Depth Feet		SOIL DESCRIPTION	T W
6974 Hammond SE Dutton, Michigan 4931 616/698-7770 FAX 616/698-9886	6-9116						Sand - light brown fine, trace fine to medium gravels	60000000000000000000000000000000000000
Job No.	06-11146-3							
LOG OF TEST BORI	ING NO. R-3-06	4" core	1.61			_		-770
Sheet: 2 of 4		44-	16'		35_		_	and a second
Project:	Aggregate Industries					_		_
Location:	Chelsea, MI				37.0		Sand - brown medium, some coarse sand and fine to medium gravels, occasional cobbles	***************************************
Date Completed:	3/28/06					_		
Crew Chief:	Gryska				40_			
Drill Rig: Boring Method:	Sonic 11 4" & 6"							
Hole Plugged With:	Natural soils					_		
		e E				-		
GROUNDWATER: Encountered @	none ft.	4" core	10'			_		
After completion After hrs.	ft. ft.				45			0000
Seepage: Boring caved at:	ft. 75.00 ft.					_		Activity Activities and Activities a
MONITOR WELL D	ATA:					_		
Pipe/Type: Length:						_		
Above Ground: Cap:						_		VERN
Screen/Type:					50	_		Aprila
Size; Slot:						-	_	
Set @ Backfilled:						_		
Bentonite Seal:		4" core				_		
Grout/Type: Depth:		#	10'					
Protective Casing: Materials Cleaned:					55			
Development:						_	_	
REMARKS:						_		_
LEGEND:						-		
Blow Count/Blows per 6" w/140# hammer x 30" drop			***************************************	***************************************				
SS-2" Split Spoon Sampler LS-Brass Liner Sample					60	-		_
ST-Shelby Tube Sample SNR-Sample not recovered								
LB-Large Bore					ANIMAN NA			

STRANG BRILLING COURTANY Some Court Strang Co	CTT A DAIC TADIT I TALE CORREDATIV	yearthannan		·	Partin management	encontraria		
6974 Hannoud SE Dutton, Michigan 49316-9116 616698-9886 Job No. 06-11146-3	STEARNS DRILLING COMPANY	-	NA.	Blow Count	Depth Feet		SOIL DESCRIPTION	
Sheet: 3 of 4 Project: Aggregate Industries Location: Chelsea, MI Date Completed: 03/28/06 Crew Chief: Gryska Drill Rig: Sonic 11 Boring Method: 4* & 6* Hole Plugged With: Natural soils GROUNDWATER: Encountered @ none ft. After completion ft. After hrs. ft. Scepage: 75.00 ft. WONTPOR WELL DATA: Fipo-T5 ye. Legill Abos: Tokunal: Sonic State Soni	Dutton, Michigan 49316-9116 616/698-7770						Sand - brown medium, some coarse sand and	
Sheet: 3 of 4 Project: Aggregate Industries Location: Chelsea, MI Date Completed: 03/28/06 Crew Chief: Gryska Drill Rig: Sonic 11 Boring Method: 4* & 6* Hole Plugged With: Natural soils GROUNDWATER: Encountered @ none ft. After completion ft. After hrs. ft. Scepage: 75.00 ft. WONTPOR WELL DATA: Fipo-T5 ye. Legill Abos: Tokunal: Sonic State Soni	Job No. 06-11146-3	" core	101			enne		
Project: Aggregate Industries Location: Chelsea, MI Date Completed: 03/28/06 Crew Chief: Gryska Drill Rig: Sonic 11 Boring Method: 4" & 6" Hole Plugged With: Natural soils GROUNDWATER: Encountered @ none ft. After hrs. ft. Seepage: ft. Boring caved at: 75.00 ft. MONTOR WELL DATA Projections Crew Chief: Sonic Gryska Drill Rig: Sonic ft. After hrs. ft. Seepage: ft. Boring caved at: 75.00 ft. MONTOR WELL DATA Projections Cap Scientifyte: Solic Scientifyte	LOG OF TEST BORING NO. R-3-06	4	10.			_		_
Date Completed: 03/28/06	Sheet: 3 of 4				65_	-	_	
Date Completed: 03/28/06	Project: Aggregate Indust	ries						_
True Crew Chief: Gryska Drill Rig: Sonic 11 Boring Method: 4" & 6"	Location: Chelsea, MI							_
Drill Rig: Sonic 1 Boring Method: 4" & 6"	Date Completed: 03/28/06							enany
Hole Plugged With: Natural soils GROUNDWATER: Encountered @ none ft. After ompletion ft. After hrs. ft. Scepage: ft. Boring caved at: 75.00 ft. MONITOR WELL DATA: Piped Type Leagth: Above Ground Cup Streen/Type Streen/T	Drill Rig: Sonic 11				70_	_	_	
GROUNDWATER: Encountered @ none ft. After completion ft. After hrs. ft. Seepage: ft. Boring caved at: 75.00 ft. MONITOR WELL DATA: PipoType Length: Above Ground: Cap ScrowType: Size: Slot: Set @ Backfilled Bentonite Seaf: GrouType: Depth: Protective Casing Materials Cleaned Development: REMARKS: LEGEND: Blow Count/Blows per 6* w/140 hammer x 30" drop Sx2* Sylis Room Sampler LS-Brass Liner Sample ST-Shelby Tube Sample	-							
GROUNDWATER: Encountered @ none ft. After completion ft. After hrs. ft. Seepage: ft. Boring caved at: 75.00 ft. MONITOR WELL DATA: Pipe Type. Length: Above Ground: Cap Screen/Type. Size: Stot. Set @ Backfilled Bentonte Seal: Grout/Type: Depth: Protective Casing: Materials Cleaned Development: REMARKS: LEGEND: Blow Count/Blows per 6" w/140 hammar x 30" drop Sx2-x 9kit Spons Samples LS-Brass Liner Sample ST-Shelby Tube Sample	Hole Plugged With: Natural soils	Sore						_
After hrs. ft. Seepage: ft. Boring caved at: 75.00 ft. MONITOR WELL DATA: Pipc/Type: Length: Above Ground: Cap: Screen/Type: Size: Slot: Set @ Backfilled: Bentonite Scal: Grout/Type: Depth: Protective Casing Materials Cleined Development: REMARKS: LEGEND: Blow Count/Blows per 6" w/140 hammer x 30" drop SS.2" split Spoon Sample I.S-Brass Liner Sample ST-Shelby Tube Sample	Encountered @ none ft.	**	10'					**************************************
Boring caved at: 75.00 ft.	After hrs. ft.				75_	_	_	
Pipe/Type Length						_		_
Above Ground: Cap Screen/Type: Size Slot: Set @ Backfilled: Bentonite Seal: Grout/Type: Depth: Protective Casing Materials Cleaned: Development: REMARKS: LEGEND: Blow Count/Blows per 6" w1-40# hammer x 30" drop SS-2" Split Spoon Sampler 1.S-Brass Liner Sample STS-Shelby Tube Sample SNR-Sample not recovered	Pipe/Type:							
Screen/Type: Size: Size: Siot: Set @ Backfilled:	Above Ground:	PARTICULAR PROPERTY AND ADDRESS OF THE PARTY A						-
Slot Set (a) Backfilled:	Screen/Type:				80_			
Bentonite Seal: Grout/Type Depth: Protective Casing: Materials Cleaned: Development: REMARKS: LEGEND: Blow Count/Blows per 6" w/140# hammer x 30" drop SS-2" Split Spoon Sampler LS-Brass Liner Sample ST-Shelby Tube Sample SNR-Sample not recovered	Slot					_		Com Statement of the Company of the
Depth:						_		
Protective Casing Materials Cleaned Development: REMARKS: LEGEND: Blow Count/Blows per 6" w/140# hammer x 30" drop SS-2" Split Spoon Sampler LS-Brass Liner Sample ST-Shelby Tube Sample SNR-Sample not recovered	Grout/Type:	ore						
Development: REMARKS: - LEGEND: Blow Count/Blows per 6" w/140# hammer x 30" drop SS-2" Split Spoon Sampler LS-Brass Liner Sample ST-Shelby Tube Sample SNR-Sample not recovered - SNR-Sample not recovered	Protective Casing:	14	8'		25			_
LEGEND: Blow Count/Blows per 6" w/140# hammer x 30" drop SS-2" Split Spoon Sampler LS-Brass Liner Sample ST-Shelby Tube Sample SNR-Sample not recovered					00_		_	-
Blow Count/Blows per 6" w/140# hammer x 30" drop SS-2" Split Spoon Sampler LS-Brass Liner Sample ST-Shelby Tube Sample SNR-Sample not recovered	REMARKS:							
w/140# hammer x 30" drop SS-2" Split Spoon Sampler LS-Brass Liner Sample ST-Shelby Tube Sample SNR-Sample not recovered						_		
ST-Shelby Tube Sample SNR-Sample not recovered	w/140# hammer x 30" drop SS-2" Split Spoon Sampler						·	
	ST-Shelby Tube Sample				90_	_	was a second of the second of	
			6					

STEARNS DRILLING COMPANY	Sample		Blow	Danet	Warrania (
a de la companya de	Туре	REC	Count	Depth Feet		SOIL DESCRIPTION	T W
6974 Hammond SE Dutton, Michigan 49316-9116 616/698-7770 FAX 616/698-9886						Sand - brown medium, some coarse sand and fine to medium gravels, occasional cobbles	
Job No. 06-11146-3							
LOG OF TEST BORING NO. R-3-06					_		_
Sheet: 4 of 4				95_	_	_	_
Project: Aggregate Industries				96.5			
Location: Chelsea, MI				70.0		E. O. B. @ 96.5'	
Date Completed: 3/28/06					_		
Crew Chief: Gryska Drill Rig: Sonic 11				100	_	—	_
Boring Method: 4" & 6"							
Hole Plugged With: Natural soils							_
GROUNDWATER: Encountered @ none ft.					_		
After completion ft. After hrs. ft.				105	_		0907400000
Seepage: ft. Boring Caved at: 75.00 ft.						_	
MONITOR WELL DATA: Pipe/Type:					_		
Length: Above Ground:							
Cap:							
Screen/Type: Size: Slot:				110			
Set @ Backfilled:					_		
Bentonite Seal:					_		-
Grout/Type: Depth:							
Protective Casing: Materials Cleaned Development:				115	_	_	_
осторист.					_		_
REMARKS:							
LEGEND: Blow Count/Blows per 6"					_		**************************************
w/140# hammer x 30" drop SS-2" Split Spoon Sampler				100	4410		
LS-Brass Liner Sample ST-Shelby Tube Sample				120		_	
SNR-Sample not recovered LB-Large Bore							

STEARNS DRILLING COMPANY		Sample	DEC	Blow	Depth			T
6974 Hammond SE		Туре	REC	Count	Feet		SOIL DESCRIPTION Topsoil - brown silty sand w/ organics	W
Dutton, Michigan 4931 616/698-7770	16-9116				1.0			
FAX 616/698-9886						_	Sand - brown fine silty	-
T. S. N.T.	06 11146 3	ore						
Job No.	06-11146-3	4" core	6'					
LOG OF TEST BORIN	G NO. R-4-06							
Sheet: 1 of 4					5	_		_
							Sand - brown medium to fine, some fine to medium	
Project:	Aggregate Industries						gravels, occasional cobbles	
ELEVATION: 1078'						-		
Location:	Chelsea, MI					_		
Date Completed:	3/29/06							
Crew Chief:	Gryska				10			
Drill Rig:	Sonic 11				A. V		_	
Boring Method:	4" & 6"							
Hole Plugged With:	Natural soils					_		-
		core				_		
GROUNDWATER:	-	4°C	10'					
Encountered @	95.00± ft.							
After completion After hrs.	ft. ft.				15	-		-
Seepage:	ft.						_	
Boring Caved at:	ft.							-
MONITOR WELL D	ATA:							_
Pipe/Type Length:								-
Above Ground:								
Cap				***************************************				
Screen/Type:					20	-		-
Size:						_		
Slot Set (a)								
Backfilled:								
Bentonite Seal:		core				_		
Grout/Type:			10'					
Depth: Protective Casing:								
Materials Cleaned:					25_	-		-
Development:						_		
REMARKS:								
LEGEND:						-		-
Blow Count/Blows per 6"								
w/140# hammer x 30" drop SS-2" Split Spoon Sampler	ס							
LS-Brass Liner Sample					30_		_	
ST-Shelby Tube Sample SNR-Sample not recovered								-
LB-Large Bore								

STEARNS DRILLING	G COMPANY	Sample Type	REC	Blow Count	Depth Feet			Т
6974 Hammond SE Dutton, Michigan 4931 616/698-7770 FAX 616/698-9886	16-9116	Туре	REC	Count	reet		Soil Description Sand - brown medium to fine, some fine to medium gravels, occasional cobbles	W
Job No.	06-11146-3							_
LOG OF TEST BOR	ING NO. R-4-06					_		_
Sheet: 2 of 4					35_	_	_	
Project:	Aggregate Industries					_		
Location:	Chelsea, MI							egyyje.
Date Completed:	3/29/06					_		
Crew Chief: Drill Rig: Boring Method:	Gryska Sonic 11 4" & 6"				40_	enaments home	_	
Hole Plugged With:	Natural soils							01333
GROUNDWATER: Encountered @ After completion After hrs.	95.00± ft. ft. ft.				45	Solida CONTO		# 470000 # 47000000000000000000000000000000000000
Seepage: Boring caved at:	ft. ft.						_	
MONITOR WELL D Pipe/Type: Length: Above Ground: Cap: Screen/Type: Size: Slot:	ATA:				50_			
Set @ Backfilled: Bentonite Seal: Grout/Type:								622020 622020 642020 642020 642020
Depth: Protective Casing: Materials Cleaned: Development:				ć.	55_			
REMARKS:						_		
LEGEND: Blow Count/Blows per 6" w/140# hammer x 30" drop SS-2" Split Spoon Sampler LS-Brass Liner Sample ST-Shelby Tube Sample	•				60_			
SNR-Sample not recovered LB-Large Bore								

STEARNS DRILLING	G COMPANY	Sample		Blow	Depth			Т
6974 Hammond SE Dutton, Michigan 4931	16-9116	Туре	REC	Count	Feet		Soll Description Sand - brown medium to fine, some fine to medium gravels, occasional cobbles	
616/698-7770 FAX 616/698-9886							gravers, occasional coopies	
Job No.	06-11146-3	4" core	10'					
LOG OF TEST BOR	ING NO. R-4-06	,						
Sheet: 3 of 4					65_		_	-
Project:	Aggregate Industries							
Location:	Chelsea, MI					***************************************		
Date Completed:	03/29/06					_		_
Crew Chief: Drill Rig:	Gryska Sonic 11				70_			-
Boring Method:	4" & 6"							_
Hole Plugged With:	Natural soils	e e				_		
GROUNDWATER:		4" core	10'					
Encountered @	95.00± ft.	4	10			_		
After completion After hrs.	ft. ft.				75_	_		-
Seepage: Boring caved at:	ft. ft.					_		
MONITOR WELL D						_		
Pipe/Type:	2 A A 4 B 4					_		_
Length: Above Ground:						_		
Сар						_		_
Screen/Type Size:					80_			
Slot Set (a)						-		
Backfilled:								
Bentonite Seal:						_		_
Grout/Type Depth		core				_		_
Protective Casing Materials Cleaned		4	12'		85	-		
Development:							_	
REMARKS:						_		
LEGEND:								
Blow Count/Blows per 6"						_		
w/140# hammer x 30" drop SS-2" Split Spoon Sampler)					_		
LS-Brass Liner Sample ST-Shelby Tube Sample					90_	-		
SNR-Sample not recovered								
LB-Large Bore								

STEARNS DRILLIN	G COMPANY	Sample		Blow	Depth			TT
6974 Hammond SE		Туре	REC	Count	Feet		SOIL DESCRIPTION	w
Dutton, Michigan 49316-9116 616/698-7770 FAX 616/698-9886					91.0	_	Clay - gray sandy; moist	_
						_	Sand - brown fine clayey	
	06 11146 2					-		_
Job No.	06-11146-3							
LOG OF TEST BOR	ING NO. R-4-06							
Sheet: 4 of 4					95_	_		_
Project:	Aggregate Industries					-	Sand - brown fine clayey; wet	-
						_		_
Location:	Chelsea, MI							
Date Completed:	3/29/06				99.0			
Crew Chief:	Gryska				100	_	E. O. B. @ 99.0'	_
Drill Rig: Boring Method:	Sonic 11 4" & 6"							_
-								
Hole Plugged With:	Natural soils							
GROUNDWATER:								
Encountered @	95.00± ft.							_
After completion After hrs.	ft. ft.				105			
Seepage: Boring Caved at:	ft. ft.					_	_	
								-
MONITOR WELL D Pipe/Type:	ATA:							-
Length: Above Ground:								
Cap.						_		_
Screen/Type:					110			-
Size: Slot:					****		_	
Set @								-
Backfilled:						-		
Bentonite Seal:								
Grout/Type: Depth:						-		-
Protective Casing: Materials Cleaned:					412	-		
Development:					115		_	-
REMARKS:								
LEGEND:								-
Blow Count/Blows per 6" w/140# hammer x 30" drop)					-		
SS-2" Split Spoon Sampler					100	_		
LS-Brass Liner Sample ST-Shelby Tube Sample					120		- -	
SNR-Sample not recovered LB-Large Bore								
- 		Marata de la companya						

STEARNS DRILLING COMPANY	Sample	REC	Blow	Depth	221122256		T
6974 Hammond SE	Туре	REC	Count	Feet		SOIL DESCRIPTION Topsoil - dark brown silty fine sand w/ organics	W
Dutton, Michigan 49316-9116						1	_
616/698-7770 FAX 616/698-9886				1.5	<u> </u>	Sand - dark brown fine; trace clay; trace gravel	-
FAX 010/098-9880	ည					Sand - dark brown fille; trace clay; trace graver	
Job No. 06-11146-3	4" core						
LOG OF TEST BORING NO. R-5-06	4	9'			-		-
Sheet: 1 of 3				5	_		
						Sand - brown fine to medium, trace coarse sand; fine	
Project: Aggregate Industries						gravels, occasional medium to coarse gravel	
ELEVATION: 1065'							
Location: Chelsea, MI					_		
					-		
Date Completed: 3/29/06							
_				1.			_
Crew Chief: Gryska Drill Rig: Sonic 11				10_		-	- -
Boring Method: 4" & 6"					_	·	-
YY 1 751 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					_		
Hole Plugged With: Natural soils	4)				<u> </u>		_
	4" core				-		-
GROUNDWATER:	#	10'			_		
Encountered @ none ft. After completion ft.							
After hrs. ft.				15	-		
Seepage: ft.				_	_	-	
Boring Caved at: 60.00 ft.							
MONITOR WELL DATA:					-		-
Pipe/Type					_		
Length: Above Ground:							
Cap							-
	(10010000000000000000000000000000000000				-		
Screen/Type Size:				20_	_	-	
Slot					-		-
Set @							
Backfilled	6)						_
Bentonite Seal:	4" core				-		-
Grout/Type	4	10'					
Depth: Protective Casing					-		
Materials Cleaned				25	-		-
Development:						_	
REMARKS:					_		
. No.					_		
LEGEND: Blow Count/Blows per 6"					-		
w/140# hammer x 30" drop							
SS-2" Split Spoon Sampler	-			20			60000
LS-Brass Liner Sample ST-Shelby Tube Sample				30_		-	_
SNR-Sample not recovered							
LB-Large Bore		L			L_		

STEARNS DRILLIN	G COMPANY	Sample	52.6	Blow	Depth			T
6974 Hammond SE Dutton, Michigan 493 616/698-7770	16-9116	Туре	REC	Count	Feet	_	Sand - brown fine to medium, trace coarse sand; fine gravels, occasional medium to coarse gravel	W
FAX 616/698-9886 Job No.	06-11146-3							B.O.D.
LOG OF TEST BOR	ING NO. R-5-06	4" core				_		
Sheet: 2 of 3	***************************************	***	10'		35	_		
Project:	Aggregate Industries							
Location:	Chelsea, MI						-	discourses
Date Completed:	3/29/06					_	•	
Crew Chief: Drill Rig: Boring Method:	Gryska Sonic 11 4" & 6"				40_		_	
Hole Plugged With:	Natural soils							
GROUNDWATER: Encountered @ After completion After hrs. Seepage: Boring caved at:	none ft. ft. ft. ft. 60.00 ft.	4" core	10'		45_		-	
	MONITOR WELL DATA: hipe/Type: Length: Above Ground:					GOOD CONTRACTOR CONTRA		***************************************
Screen/Type Size: Slot:		The state of the s			50_		_	AND GRADOLING
Set @ Backfilled: Bentonite Seal:		core						
Grout/Type: Depth: Protective Casing:		**	10'		m w			
Materials Cleaned: Development:					55_		_	
REMARKS:								
LEGEND: Blow Count/Blows per 6" w/140# hammer x 30" drop	p					_		
SS-2" Split Spoon Sampler LS-Brass Liner Sample ST-Shelby Tube Sample SNR-Sample not recovered					60_	_	_	
LB-Large Bore					and job and a second			

STEARNS DRILLING	G COMPANY	Sample	and Alice Country and Advances	Blew	Depth	yenissane.		Т
6974 Hammond SE Dutton, Michigan 4931 616/698-7770 FAX 616/698-9886	16-9116	Туре	REC	Count	Feet		Soil DESCRIPTION Sand - brown fine to medium, trace coarse sand; fine gravels, occasional medium to coarse gravel	W
Job No.	06-11146-3	4" core						CONTRACTOR OF THE PARTY OF THE
LOG OF TEST BOR	ING NO. R-5-06	₹	10'					
Sheet: 3 of 3					65_	_		_
Project:	Aggregate Industries							
Location:	Chelsea, MI					********		
Date Completed:	03/29/06		econium material della co					
Crew Chief: Drill Rig:	Gryska Sonic 11				70_	_	_	_
Boring Method:	4" & 6"							
Hole Plugged With:	Natural soils	re						
GROUNDWATER:		4" core	10'		73.5			-
Encountered @ After completion	none ft.				***************************************		Clay - gray sandy; moist	_
After hrs. Seepage:	ft. ft.				75_	_		
Boring caved at:	60.00 ft.							
MONITOR WELL D Pipe/Type	ATA:							
Length: Above Ground:					78.0		Sand - brown fine; dry	
Cap:						_		
Screen/Type Size:					80_			_
Slot. Set (ā)						_		-
Backfilled						_		
Bentonite Seal: Grout/Type:		0				_		_
Depth: Protective Casing:		4" core	2'			_		
Materials Cleaned:		4	2		85_		_	
Development:								
REMARKS:								
LEGEND:								
Blow Count/Blows per 6" w/140# hammer x 30" drop	,				89.0			
SS-2" Split Spoon Sampler LS-Brass Liner Sample					90	_	E. O. B. @ 89.0'	
ST-Shelby Tube Sample SNR-Sample not recovered								
LB-Large Bore								