APPENDIX A

Boring Logs

TETRA TECH INC. - GEOPROBE LOG

Project Name:	George and Lynch Property		Project No.: T13735.60
Project Location:	Dover, DE		
Test Boring No.:	SB-01	Date(s) Drilled: 6/13/2006	Inspector: VP
Drilling Contractor:	Vironex, Inc.	Drilling Method: Geoprobe	Driller:
Surface Elevation (ft):		Groundwater Depth (ft):	Total Depth (ft): 16

Sample		Sample Depth (ft)		Recovery (ft)	PID readings		Strata Depth (ft)		Description of Materials	Moisture
Time	No.	From	To		Depth (ft)	PPM	From	To		
						1.2	0	1.5	Asphalt and Road Base	
							1.5	2.3	Orange-brown silt, some fine sand	M
					9	2.6	2.3	13	Orange-brown medium-fine to fine sand, some silt, probable fill	M
						0	13	15	Orange-brown medium to medium-fine sand, some silt	S
						0	15	16	Dark-brown medium sand, some coarse sand, trace gravel	W

Notes and comments

Moisture codes: D-dry, M-moist, W-wet, S-saturated

Samples Collected

Time	Designation	Time	Designation

Well Construction (ft)	
Total Depth	
Screen length	
Screen interval	
Cased interval	
Top of sand	
Top of bentonite	
Bottom of bentonite	
Completion	

F- flush mount
S- stickup Protected
U- stickup Unprotected

TETRA TECH INC. - GEOPROBE LOG

Project Name: George and Lynch Property			Project No.: T13735.60
Project Location: Dover, DE			
Test Boring No.: SB-02		Date(s) Drilled: 6/13/2006	Inspector: VP
Drilling Contractor: Vironex, Inc.		Drilling Method: Geoprobe	Driller:
Surface Elevation (ft):		Groundwater Depth (ft):	Total Depth (ft): 16

Sample		Sample Depth (ft)		Recovery (ft)	PID readings		Strata Depth (ft)		Description of Materials	Moisture
Time	No.	From	To		Depth (ft)	PPM	From	To		
						1	0	1.5	Asphalt and road base	
							1.5	3	Orange-brown silt, some fine sand	D
930		6	8		4-8	0.8	3	13	Orange-brown medium-fine to fine sand, some silt	M
							13	15	Orange-brown medium to medium-fine sand, some silt	S
							15	16	Dark-brown medium sand, some coarse sand, trace gravel	W

Notes and comments

Moisture codes: D-dry, M-moist, W-wet, S-saturated

Boring location is just northwest of the discovered tank

Samples Collected

Time	Designation	Time	Designation
930	SB-2		

Well Construction (ft)	
Total Depth	
Screen length	
Screen interval	
Cased interval	
Top of sand	
Top of bentonite	
Bottom of bentonite	
Completion	

F- flush mount
S- stickup Protected
U- stickup Unprotected

TETRA TECH INC. - GEOPROBE LOG

Project Name: George and Lynch Property			Project No.: T13735.60
Project Location: Dover, DE			
Test Boring No.: SB-03		Date(s) Drilled: 6/13/2006	Inspector: VP
Drilling Contractor: Vironex, Inc.		Drilling Method: Geoprobe	Driller:
Surface Elevation (ft):		Groundwater Depth (ft):	Total Depth (ft): 12

Sample		Sample Depth (ft)		Recovery (ft)	PID readings		Strata Depth (ft)		Description of Materials	Moisture
Time	No.	From	To		Depth (ft)	PPM	From	To		
							0	1.5	Asphalt and road base	
						1	1.5	2	Brown silt, some fine sand	D
							2	6	Orange-brown medium-fine to fine sand	M
						0	6	8	Orange silt, some fine sand, micaceous	D
							8	12	Orange brown medium-fine to fine sand, some silt; wet at 12 feet	M

Notes and comments

Moisture codes: D-dry, M-moist, W-wet, S-saturated

Well Construction (ft)

Total Depth	
Screen length	
Screen interval	
Cased interval	
Top of sand	
Top of bentonite	
Bottom of bentonite	
Completion	

F- flush mount
S- stickup Protected
U- stickup Unprotected

Samples Collected

Time	Designation	Time	Designation

TETRA TECH INC. - GEOPROBE LOG

Project Name:	George and Lynch Property		Project No.: T13735.60
Project Location:	Dover, DE		
Test Boring No.:	SB-04	Date(s) Drilled: 6/13/2006	Inspector: VP
Drilling Contractor:	Vironex, Inc.	Drilling Method: Geoprobe	Driller:
Surface Elevation (ft):		Groundwater Depth (ft):	Total Depth (ft): 12

Sample		Sample Depth (ft)		Recovery (ft)	PID readings		Strata Depth (ft)		Description of Materials	Moisture
Time	No.	From	To		Depth (ft)	PPM	From	To		
						0	0	2	Orange-brown medium-fine to fine sand, some silt	D
1100		2	4			22	2		Dark grey silt, some fine sand	M
		4	8	3"					Petroleum odor at 4 feet (black lens noted)	
		8	12	0					Soil is very soft	

Notes and comments

Moisture codes: D-dry, M-moist, W-wet, S-saturated

Samples Collected

Time	Designation	Time	Designation
1100	SB-4		

Well Construction (ft)	
Total Depth	
Screen length	
Screen interval	
Cased interval	
Top of sand	
Top of bentonite	
Bottom of bentonite	
Completion	

F- flush mount
S- stickup Protected
U- stickup Unprotected

TETRA TECH INC. - GEOPROBE LOG

Project Name: George and Lynch Property			Project No.: T13735.60
Project Location: Dover, DE			
Test Boring No.: SB-05		Date(s) Drilled: 6/13/2006	Inspector: VP
Drilling Contractor: Vironex, Inc.		Drilling Method: Geoprobe	Driller:
Surface Elevation (ft):		Groundwater Depth (ft):	Total Depth (ft): 16

Sample		Sample Depth (ft)		Recovery (ft)	PID readings		Strata Depth (ft)		Description of Materials	Moisture
Time	No.	From	To		Depth (ft)	PPM	From	To		
							0	1	Asphalt and road base	
						10	1	2	Orange-brown silt (slightly stained)	D
							2	16	Light orange-brown medium-fine to fine sand	D
					2-4	6				D
					4-8	1.3				M
					8-12	0.6				M/W
					13-16	1.3			Saturated at 15 feet	S

Notes and comments

Moisture codes: D-dry, M-moist, W-wet, S-saturated

Samples Collected

Time	Designation	Time	Designation

Well Construction (ft)	
Total Depth	
Screen length	
Screen interval	
Cased interval	
Top of sand	
Top of bentonite	
Bottom of bentonite	
Completion	

F- flush mount
S- stickup Protected
U- stickup Unprotected

TETRA TECH INC. - GEOPROBE LOG

Project Name: George and Lynch Property		Project No.: T13735.60
Project Location: Dover, DE		
Test Boring No.: SB-06	Date(s) Drilled: 6/13/2006	Inspector: VP
Drilling Contractor: Vironex, Inc.	Drilling Method: Geoprobe	Driller:
Surface Elevation (ft):	Groundwater Depth (ft):	Total Depth (ft):

Sample		Sample Depth (ft)		Recovery (ft)	PID readings		Strata Depth (ft)		Description of Materials	Moisture
Time	No.	From	To		Depth (ft)	PPM	From	To		
						8	0	1	Dark brown silt, possibly stained	M
						1.7	1	2	Light brown silt, little fine sand	D
						1.3	2	6	Orange silt, some fine sand	M
						0	6	12	Orange medium-fine sand, some silt (saturated from 10-12)	M

Notes and comments

Moisture codes: D-dry, M-moist, W-wet, S-saturated

Collected only water sample.

Samples Collected

Time	Designation	Time	Designation
1230	SB-6		

Well Construction (ft)	
Total Depth	
Screen length	
Screen interval	
Cased interval	
Top of sand	
Top of bentonite	
Bottom of bentonite	
Completion	

F- flush mount
S- stickup Protected
U- stickup Unprotected

TETRA TECH INC. - GEOPROBE LOG

Project Name: George and Lynch Property		Project No.: T13735.60
Project Location: Dover, DE		
Test Boring No.: SB-07	Date(s) Drilled: 6/13/2006	Inspector: VP
Drilling Contractor: Vironex, Inc.	Drilling Method: Geoprobe	Driller:
Surface Elevation (ft):	Groundwater Depth (ft):	Total Depth (ft): 12

Sample		Sample Depth (ft)		Recovery (ft)	PID readings		Strata Depth (ft)		Description of Materials	Moisture
Time	No.	From	To		Depth (ft)	PPM	From	To		
						0	0	2	Concrete fragments, gravel, some medium to medium-fine sand	D
						0	2	6	Reddish-brown silt	D
						0	6	12	Orange-brown medium-fine sand, some fine sand and silt (Saturated at 12 feet)	M

Notes and comments

Moisture codes: D-dry, M-moist, W-wet, S-saturated

Samples Collected

Time	Designation	Time	Designation

Well Construction (ft)	
Total Depth	
Screen length	
Screen interval	
Cased interval	
Top of sand	
Top of bentonite	
Bottom of bentonite	
Completion	

F- flush mount
S- stickup Protected
U- stickup Unprotected

TETRA TECH INC. - GEOPROBE LOG

Project Name: George and Lynch Property		Project No.: T13735.60
Project Location: Dover, DE		
Test Boring No.: SB-08	Date(s) Drilled: 6/13/2006	Inspector: VP
Drilling Contractor: Vironex, Inc.	Drilling Method: Geoprobe	Driller:
Surface Elevation (ft):	Groundwater Depth (ft):	Total Depth (ft): 12

Sample		Sample Depth (ft)		Recovery (ft)	PID readings		Strata Depth (ft)		Description of Materials	Moisture
Time	No.	From	To		Depth (ft)	PPM	From	To		
						0	0	4	Brown silt, some clay and fine sand, trace gravel	M
1440		4	6			0	4	10	Grey silt and clay (marsh)	W
						0	10	11.6	Light grey medium-fine sand	S
						0	11.6	12	Clay (pinkish)	M

Notes and comments

Moisture codes: D-dry, M-moist, W-wet, S-saturated

Samples Collected

Time	Designation	Time	Designation
1440	SB-8		

Well Construction (ft)	
Total Depth	
Screen length	
Screen interval	
Cased interval	
Top of sand	
Top of bentonite	
Bottom of bentonite	
Completion	

F- flush mount
S- stickup Protected
U- stickup Unprotected

TETRA TECH INC. - GEOPROBE LOG

Project Name:	George and Lynch Property		Project No.: T13735.60
Project Location:	Dover, DE		
Test Boring No.:	SB-9	Date(s) Drilled: 6/13/2006	Inspector: VP
Drilling Contractor:	Vironex, Inc.	Drilling Method: Geoprobe	Driller:
Surface Elevation (ft):		Groundwater Depth (ft):	Total Depth (ft): 8

Sample		Sample Depth (ft)		Recovery (ft)	PID readings		Strata Depth (ft)		Description of Materials	Moisture
Time	No.	From	To		Depth (ft)	PPM	From	To		
						0.7	0	2	Dark brown silt, miscellaneous fill	D
						0.4	2	4	Brown, orange-brown medium-fine sand, some rock fragments	D
1540		4	6			0.4	4	7.6	Dark brown silt	M
						0.4	7.6	8	Grey medium-fine sand, some silt	W

Notes and comments

Moisture codes: D-dry, M-moist, W-wet, S-saturated

Samples Collected

Time	Designation	Time	Designation
1540	SB-9		

Well Construction (ft)	
Total Depth	
Screen length	
Screen interval	
Cased interval	
Top of sand	
Top of bentonite	
Bottom of bentonite	
Completion	

F- flush mount
S- stickup Protected
U- stickup Unprotected

TETRA TECH INC. - GEOPROBE LOG

Project Name: George and Lynch Property		Project No.: T13735.60
Project Location: Dover, DE		
Test Boring No.: SB-10	Date(s) Drilled: 6/13/2006	Inspector: VP
Drilling Contractor: Vironex, Inc.	Drilling Method: Geoprobe	Driller:
Surface Elevation (ft):	Groundwater Depth (ft):	Total Depth (ft): 8

Sample		Sample Depth (ft)		Recovery (ft)	PID readings		Strata Depth (ft)		Description of Materials	Moisture
Time	No.	From	To		Depth (ft)	PPM	From	To		
							0	1	Miscellaneous fill	D
						0	1	3	Orange silt	D
1600		3	7			0	3	6	Dark brown silt, some fine sand	D
							6	8	Orange-brown silt, wet at 8 feet	M

Notes and comments

Moisture codes: D-dry, M-moist, W-wet, S-saturated

MS/MSD (Soil Only)

Samples Collected

Time	Designation	Time	Designation
1600	SB-10		

Well Construction (ft)	
Total Depth	
Screen length	
Screen interval	
Cased interval	
Top of sand	
Top of bentonite	
Bottom of bentonite	
Completion	

F- flush mount
S- stickup Protected
U- stickup Unprotected

TETRA TECH INC. - GEOPROBE LOG

Project Name:	George and Lynch Property		Project No.: T13735.60
Project Location:	Dover, DE		
Test Boring No.:	SB-11	Date(s) Drilled: 6/13/2006	Inspector: VP
Drilling Contractor:	Vironex, Inc.	Drilling Method: Geoprobe	Driller:
Surface Elevation (ft):		Groundwater Depth (ft):	Total Depth (ft): 8

Sample		Sample Depth (ft)		Recovery (ft)	PID readings		Strata Depth (ft)		Description of Materials	Moisture
Time	No.	From	To		Depth (ft)	PPM	From	To		
						0	0	1.5	Miscellaneous debris, dark brown silt, rock fragments	D
						0	1.5	8	Orange medium-fine sand, wet at 8 feet	M

Notes and comments

Moisture codes: D-dry, M-moist, W-wet, S-saturated

Samples Collected

Time	Designation	Time	Designation

Well Construction (ft)	
Total Depth	
Screen length	
Screen interval	
Cased interval	
Top of sand	
Top of bentonite	
Bottom of bentonite	
Completion	

F- flush mount
S- stickup Protected
U- stickup Unprotected

TETRA TECH INC. - GEOPROBE LOG

Project Name: George and Lynch Property		Project No.: T13735.60
Project Location: Dover, DE		
Test Boring No.: SB-12	Date(s) Drilled: 6/13/2006	Inspector: VP
Drilling Contractor: Vironex, Inc.	Drilling Method: Geoprobe	Driller:
Surface Elevation (ft):	Groundwater Depth (ft):	Total Depth (ft):

Sample		Sample Depth (ft)		Recovery (ft)	PID readings		Strata Depth (ft)		Description of Materials	Moisture
Time	No.	From	To		Depth (ft)	PPM	From	To		
							0	1	Miscellaneous debris	D
						1.3	1	3	Orange silt, some medium-fine sand	M
1625		5	6		6	1.9	3	6	Dark brown silt	M
						0.4	6	8	Grey/light grey medium-fine to fine sand, some silt	W

Notes and comments

Moisture codes: D-dry, M-moist, W-wet, S-saturated

Soil sample only

Samples Collected

Time	Designation	Time	Designation
1625	SB-12		

Well Construction (ft)	
Total Depth	
Screen length	
Screen interval	
Cased interval	
Top of sand	
Top of bentonite	
Bottom of bentonite	
Completion	

F- flush mount
S- stickup Protected
U- stickup Unprotected