

N00174.AR.000784
NSWC INDIAN HEAD
5090.3a

FINAL TECHNICAL MEMORANDUM FOR PRE DESIGN INVESTIGATION RESULTS SITE 21
WITH TRANSMITTAL NSWC INDIAN HEAD MD
2/15/2011
CH2MHILL



CH2M HILL
Fifth Third Centre, Suite 1100
One South Main Street
Dayton, OH 45402
Tel 937.228.4285
Fax 937.228.7572

February 15, 2011

Commander
NAVFAC Washington
Mr. Joe Rail
Washington Navy Yard, Bldg. 212
1314 Harwood St., SE
Washington Navy Yard, DC 20374-5018

Subject: Navy CLEAN III Program
Contract N62470-02-D-3052
Contract Task Order 0159
Final Technical Memorandum Pre-Design Investigation Report, Site 21 – Bronson Road
Landfill
Naval Support Facility Indian Head, Indian Head, Maryland

Dear Joe:

CH2M HILL is pleased to submit one PDF CD of the subject document. As discussed during the Tier I Partnering Team meeting on February 2, 2011, the draft document was accepted as final without any revisions and only PDF CDs will be provided for the final technical memorandum. Copies of the document have also been distributed as shown below.

If you have any questions regarding this deliverable, please call me at (513) 847-4487 or Margaret Kasim at (703) 376-5154.

Sincerely,

CH2M HILL

A handwritten signature in black ink that reads "Eric J. Kroger".

Eric Kroger
Project Manager

cc: Nick Carros/NSF-IH (2 CDs)
Dennis Orenshaw/EPA (1 CD)
Curtis DeTore/MDE (1 CD)
Scott Nesbit/TtNUS (1 CD)
CH2M HILL (2 hard copies)

Pre-Design Investigation Results for Site 21 (Bronson Road Landfill), Naval Support Facility Indian Head, Indian Head, MD

PREPARED FOR: Joe Rail/NAVFAC Washington
Nicholas Carros/NSF-IH
Dennis Orenshaw/EPA Region III
Curtis DeTore/MDE

PREPARED BY: Andy Bogdanski/CH2M HILL

COPIES: Eric Kroger/CH2M HILL
Margaret Kasim/CH2M HILL

DATE: February 15, 2011

Introduction

This technical memorandum describes the pre-design activities and results at Site 21 (Bronson Road Landfill) at the Naval Support Facility Indian Head (NSF-IH), Indian Head, Maryland (**Figure 1**). The objectives of the investigation were to: (1) determine the thickness of the existing soil cover, and (2) perform a land topographic survey in support of the development of the remedial design of a soil cover. The rationale for this investigation is presented in *Work Plan for Pre-Design Investigation, Site 21 (Bronson Road Landfill), Naval Support Facility Indian Head, Maryland, Indian Head, Maryland* (CH2M HILL, 2010).

Field Activities

Landfill Cover Thickness Investigation

On December 8, 2010, the investigation area was divided into 18 grids; each grid was approximately 100 feet by 100 feet in size (**Figure 2**). The direct-push technology (DPT) point within each grid was staked and surveyed with a global positioning system (GPS) unit. MissUtility of Maryland was also notified of the investigation. On December 8, 2010, utility clearance was conducted by Accumark of Ashland, Virginia, under the supervision of a CH2M HILL geologist. One water line was located along the base of the landfill adjacent to South Bronson Road; the line was marked and avoided during advancement of the DPT points.

From December 9 through 10, 2010, continuous soil core samples were collected from each of the 18 locations (IS21SB01 through IS21SB18) for lithologic description with a 2-inch-inner-diameter, 4-foot-long stainless steel Macro Core sampler. The soil borings were advanced to a maximum depth of 10 feet below ground surface or until solid waste was encountered, whichever was encountered first. The soil was described in the field according to the Unified Soil Classification System. Soil boring logs are provided in Appendix A.

Boreholes were abandoned by placing the soil cuttings into the borehole as agreed upon among the Navy, U.S. Environmental Protection Agency (EPA), and the Maryland Department of the Environment (MDE). Any remaining space in the borehole was filled using bentonite.

Before fieldwork began, it was discovered that potential asbestos-containing material (PACM) may have been placed in the landfill during its active use. To protect the health and safety of the workers during the cover investigation, Gormley Environmental Corp. of Indian Head, Maryland, was subcontracted to provide an asbestos-competent person, who inspected the soil cores for any PACM and provided air monitoring services. During the investigation no PACM was encountered.

Topographic Survey

The topographic survey was conducted from December 8 through December 14, 2010. AB Consultants, Inc., a Maryland-licensed surveyor, conducted the topographic survey to obtain current topographic elevations of the landfill. All survey results were provided to CH2M HILL for incorporation into the project geographic information system. **Figure 3** shows the current topographic contours based on the survey results. Appendix B provides the surveyor's report.

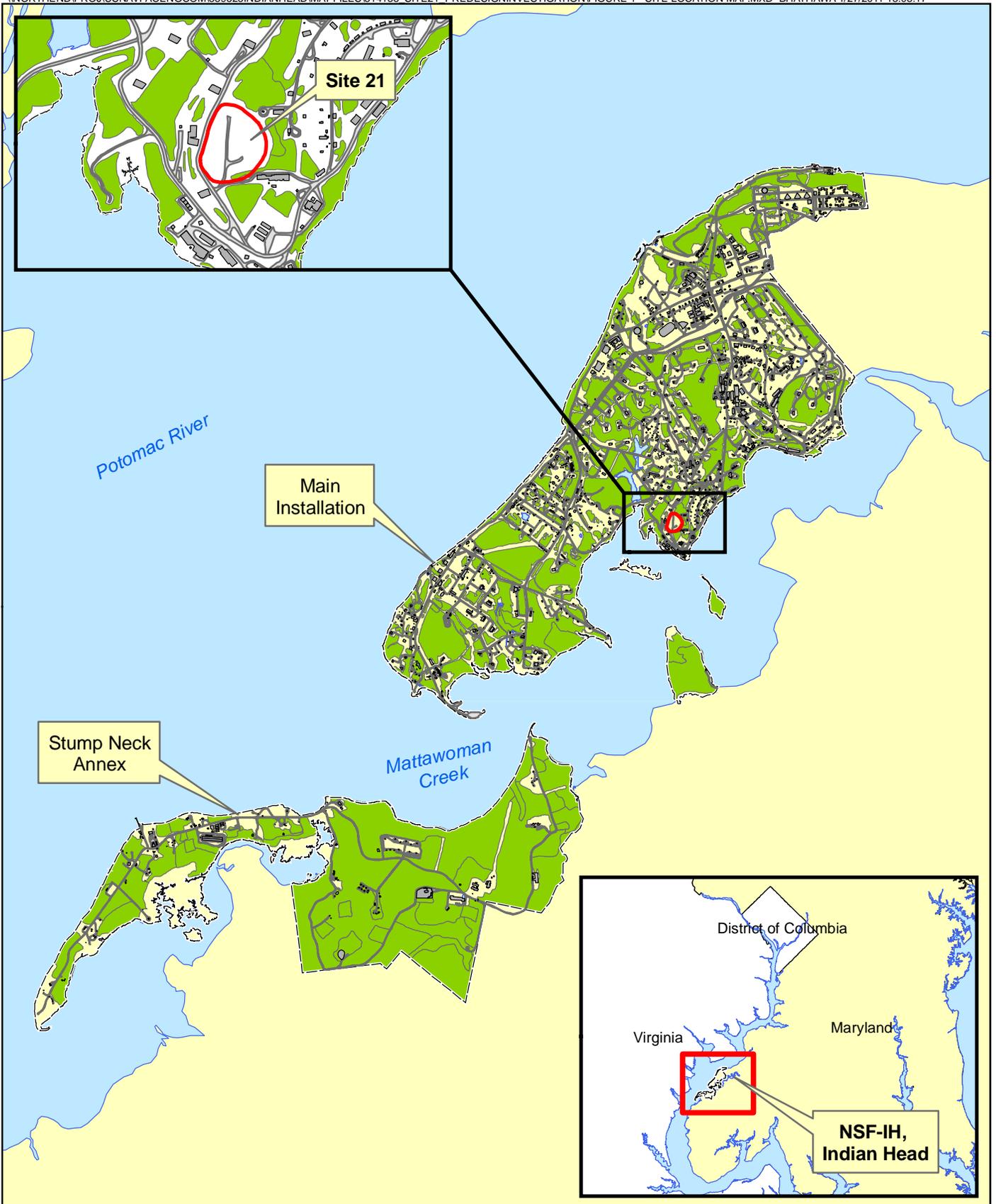
Results and Conclusion

Table 1 presents the thickness of the existing soil cover at each borehole. The thickness ranged from 0.5 foot to 10 feet. None of the soil borings were advanced through the fill material. Cover material encountered in soil borings consisted of dark brown to yellowish brown silty clay material. Fill material consisted of very dark gray silty clay interspersed with miscellaneous debris consisting of wood, metal, concrete, plastic, and glass. **Figure 4** shows the grids where the existing soil cover is less than, more than, and 2 feet in thickness.

Based on the existing soil cover thickness across the area proposed for a landfill soil cover, there appears to be adequate existing soil cover that could be moved around to meet MDE's minimum 2-foot soil cover across the site before construction of the actual landfill soil cover. These results will be used for design of the selected remedy.

Table 1
Depth of Existing Soil Cover
Pre-Design Investigation Results for Site 21 (Bronson Rd. Landfill)
NSF Indian Head, Indian Head, Maryland

Soil Boring Location	Depth of Existing Soil Cover (feet)
IS21SB01	2
IS21SB02	1.5
IS21SB03	1.5
IS21SB04	0.5
IS21SB05	2
IS21SB06	8.5
IS21SB07	5.5
IS21SB08	1
IS21SB09	5
IS21SB10	4
IS21SB11	1.5
IS21SB12	10
IS21SB13	1.5
IS21SB14	8
IS21SB15	1.5
IS21SB16	1
IS21SB17	4
IS21SB18	4.5



Legend

-  IR Site Boundary
-  Buildings
-  Roads and Paved Areas
-  Wooded Area
-  NSF-IH Base Boundary

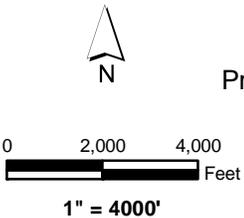
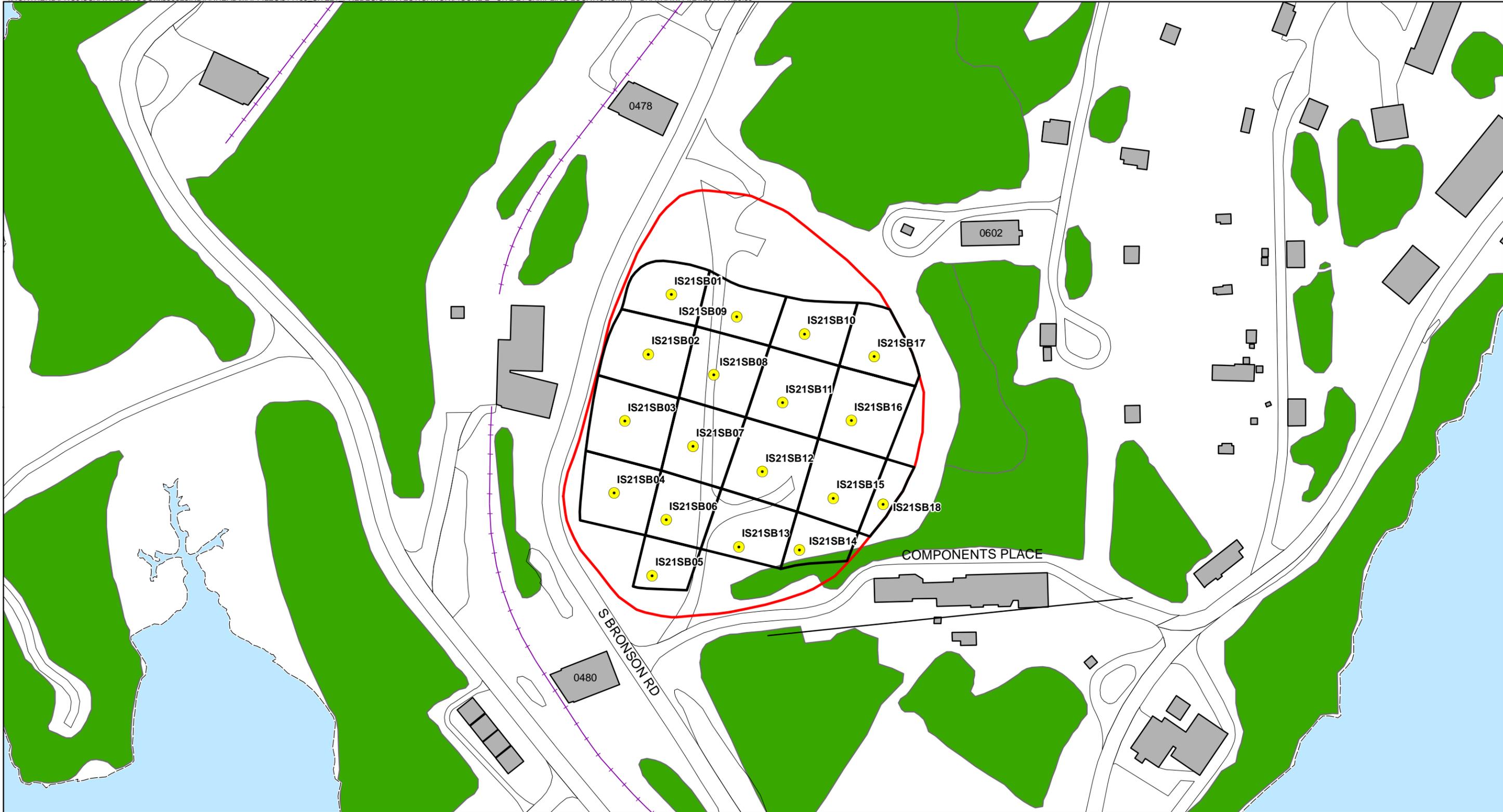


Figure 1
Site Location Map
Pre-Design Investigation Results for Site 21, Bronson Road Landfill
NSF-IH, Indian Head, Maryland



- Legend**
- Soil Boring Sample Location
 - Road
 - +— Railroad
 - Sampling Grid
 - Buildings
 - Installation Boundary
 - Wooded Area

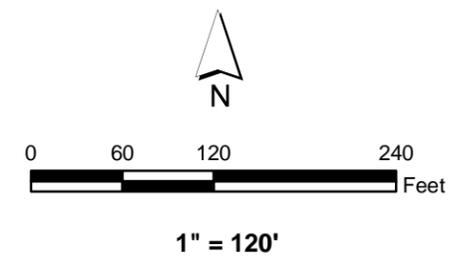


Figure 2
Site 21 Sampling Locations
Pre-Design Investigation Results for Site 21, Bronson Road Landfill
NSF-IH, Indian Head, Maryland



- Legend**
- Elevation Contour (5ft Interval)
 - Elevation Contour (1ft Interval)
 - Road
 - +— Railroad
 - Buildings
 - Installation Boundary
 - Wooded Area

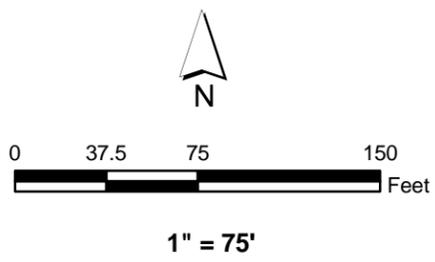


Figure 3
Site 21 New Topographic Contours
Pre-Design Investigation Results for Site 21, Bronson Road Landfill
NSF-IH, Indian Head, Maryland

Appendix A - Soil Borings



PROJECT NUMBER: 314138	BORING NUMBER: SB-01	SHEET 1 OF 1
SOIL BORING LOG		

PROJECT : Site 21 Pre-Design Investigation LOCATION : NSF Indian Head, Indian Head, MD (332047.3 N, 1260727.0 E)

ELEVATION : 37.8 ft msl DRILLING CONTRACTOR : Ground Zero Field Services

DRILLING METHOD AND EQUIPMENT : GeoProbe 6620 DT, DPT

WATER LEVELS : --- START : 12/10/2010 END : 12/10/2010 LOGGER : A. Bogdanski

DEPTH BELOW EXISTING GRADE (ft)			SOIL DESCRIPTION	SYMBOLIC LOG	PID (ppm)	COMMENTS
INTERVAL (ft)	RECOVERY (in)	SAMPLE ID	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY			
0.0			TOPSOIL dark brown SILTY GRAVEL (GM) 10YR 2/1, black, dry, (loose) SILTY CLAY (COVER) (CL) wood pieces from 2-2.25' - 10YR 4/6, dark yellowish brown, dry, (very stiff), low plasticity	0		No Recovery
37.0				0		
4.0			CLAYEY GRAVEL (GC) 10YR 5/4, yellowish brown, wet, (stiff), low plasticity CLAY (CL) 10YR 5/2, grayish brown, dry, (very stiff), low plasticity, trace silt inclusions	0		
5				0		
48.0				0		
8.0			Bottom of Boring at 8.0 ft below ground surface			



PROJECT NUMBER: 314138	BORING NUMBER: SB-02	SHEET 1 OF 1
SOIL BORING LOG		

PROJECT : Site 21 Pre-Design Investigation LOCATION : NSF Indian Head, Indian Head, MD (331972.2 N, 1260698.1 E)

ELEVATION : 38.4 ft msl DRILLING CONTRACTOR : Ground Zero Field Services

DRILLING METHOD AND EQUIPMENT : GeoProbe 6620 DT, DPT

WATER LEVELS : --- START : 12/10/2010 END : 12/10/2010 LOGGER : A. Bogdanski

DEPTH BELOW EXISTING GRADE (ft)			SOIL DESCRIPTION	SYMBOLIC LOG	PID (ppm)	COMMENTS
INTERVAL (ft)	RECOVERY (in)	SAMPLE ID				
0.0			TOPSOIL			No Recovery
			SILTY CLAY (COVER) (CL) 7.5YR 5/8, strong brown, moist, (very stiff), low plasticity			
			SILTY CLAY (FILL) (CL) 10YR 3/1, very dark gray, moist, (stiff), low plasticity, few pieces of wood and fabric			
4.0			CLAYEY GRAVEL (GC) 10YR 3/1, very dark gray, wet, (medium dense), low plasticity			
			SILTY CLAY (CL) 7.5YR 5/8, strong brown, dry, (stiff), low plasticity			
8.0			Bottom of Boring at 8.0 ft below ground surface			



PROJECT NUMBER: 314138	BORING NUMBER: SB-03	SHEET 1 OF 1
SOIL BORING LOG		

PROJECT : Site 21 Pre-Design Investigation LOCATION : NSF Indian Head, Indian Head, MD (331888.1 N, 1260668.4 E)

ELEVATION : 39.5 ft msl DRILLING CONTRACTOR : Ground Zero Field Services

DRILLING METHOD AND EQUIPMENT : GeoProbe 6620 DT, DPT

WATER LEVELS : --- START : 12/10/2010 END : 12/10/2010 LOGGER : A. Bogdanski

DEPTH BELOW EXISTING GRADE (ft)			SOIL DESCRIPTION	SYMBOLIC LOG	PID (ppm)	COMMENTS
INTERVAL (ft)	RECOVERY (in)	SAMPLE ID	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY			DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION
0.0			TOPSOIL	[Symbolic Log Pattern]		
			SILTY CLAY (COVER) (CL) 7.5YR 5/8, strong brown, moist, (soft), low plasticity	[Symbolic Log Pattern]		
	28.0		SILTY SAND (FILL) (SM) 7.5YR 5/8, strong brown, dry, (loose), sub-angular gravel to 1/2"	[Symbolic Log Pattern]	0	No Recovery
4.0			SILTY SAND (FILL) (SM) 7.5YR 5/8, strong brown, wet, (loose), sub-angular gravel to 1/2"	[Symbolic Log Pattern]		
			SILTY CLAY (CL) 7.5YR 5/8, strong brown, dry, (stiff), low plasticity	[Symbolic Log Pattern]		
5	36.0			[Symbolic Log Pattern]	0	No recovery
8.0			Bottom of Boring at 8.0 ft below ground surface			



PROJECT NUMBER: 314138	BORING NUMBER: SB-04	SHEET 1 OF 1
SOIL BORING LOG		

PROJECT : Site 21 Pre-Design Investigation LOCATION : NSF Indian Head, Indian Head, MD (331797.9 N, 1260654.7 E)

ELEVATION : 40.5 ft msl DRILLING CONTRACTOR : Ground Zero Field Services

DRILLING METHOD AND EQUIPMENT : GeoProbe 6620 DT, DPT

WATER LEVELS : --- START : 12/10/2010 END : 12/10/2010 LOGGER : A. Bogdanski

DEPTH BELOW EXISTING GRADE (ft)			SOIL DESCRIPTION	SYMBOLIC LOG	PID (ppm)	COMMENTS
INTERVAL (ft)	RECOVERY (in)	SAMPLE ID	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY			DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION
0.0			TOPSOIL			
			SILTY CLAY (CL) 7.5YR 5/6, strong brown, moist, (stiff), low plasticity			
			SILTY GRAVEL (FILL) (GC) 10YR 5/3, brown, moist, (loose), medium to coarse grained, low plasticity, sub-angular gravel to 1/2", trace wood pieces, plastic and metal			
22.0					6.3	No Recovery
4.0			SILTY GRAVEL (FILL) (GC) 10YR 5/3, brown, moist, (loose), medium to coarse grained, sub-angular gravel to 1/2", trace wood pieces, plastic and metal			
5					6.3	No Recovery
28.0						
8.0			Bottom of Boring at 8.0 ft below ground surface			



PROJECT NUMBER: 314138	BORING NUMBER: SB-05	SHEET 1 OF 1
SOIL BORING LOG		

PROJECT : Site 21 Pre-Design Investigation LOCATION : NSF Indian Head, Indian Head, MD (331693.8 N, 1260702.9 E)

ELEVATION : 38.5 ft msl DRILLING CONTRACTOR : Ground Zero Field Services

DRILLING METHOD AND EQUIPMENT : GeoProbe 6620 DT, DPT

WATER LEVELS : --- START : 12/9/2010 END : 12/9/2010 LOGGER : A. Bogdanski

DEPTH BELOW EXISTING GRADE (ft)			SOIL DESCRIPTION	SYMBOLIC LOG	COMMENTS
INTERVAL (ft)	RECOVERY (in)	SAMPLE ID			
0.0			TOPSOIL SILTY CLAY (COVER) (CL) wood pieces 2.25-2.42' - 10YR 4/6, dark yellowish brown, moist, (stiff), low plasticity, little sub-angular gravel to 1/2"	0	No Recovery
33.0				0	
4.0			SILTY CLAY (CL) 10YR 4/6, dark yellowish brown, moist, (stiff), low plasticity, little sub-angular gravel to 1/2"	0	No Recovery
29.0				0	
8.0			CLAY (FILL) (CL) 10YR 5/2, grayish brown, dry, (stiff), low plasticity	0	
48.0			SILTY SAND (SM) 10YR 6/1, gray, wet, (dense), medium to coarse grained	0	
12.0			Bottom of Boring at 12.0 ft below ground surface		



PROJECT NUMBER: 314138	BORING NUMBER: SB-06	SHEET 1 OF 1
SOIL BORING LOG		

PROJECT : Site 21 Pre-Design Investigation LOCATION : NSF Indian Head, Indian Head, MD (331764.1 N, 1260720.8 E)

ELEVATION : 41.3 ft msl DRILLING CONTRACTOR : Ground Zero Field Services

DRILLING METHOD AND EQUIPMENT : GeoProbe 6620 DT, DPT

WATER LEVELS : --- START : 12/9/2010 END : 12/9/2010 LOGGER : A. Bogdanski

DEPTH BELOW EXISTING GRADE (ft)			SOIL DESCRIPTION	SYMBOLIC LOG	COMMENTS
INTERVAL (ft)	RECOVERY (in)	SAMPLE ID			
0.0			SILTY CLAY (COVER) (CL) little sub-angular gravel starting at 1.75' - 7.5YR 5/8, strong brown, moist, (stiff), low plasticity	0	No Recovery
32.0				0	
4.0			SILTY CLAY (COVER) (CL) brick fragments from 6.66-7.0' - 7.5YR 5/8, strong brown, moist, (stiff), low plasticity	0	No Recovery
48.0				0	
8.0			FILL pieces of wood, rubber and plastic	6.7	No Recovery
12.0			Bottom of Boring at 12.0 ft below ground surface		



PROJECT NUMBER: 314138	BORING NUMBER: SB-07	SHEET 1 OF 1
SOIL BORING LOG		

PROJECT : Site 21 Pre-Design Investigation LOCATION : NSF Indian Head, Indian Head, MD (331856.4 N, 1260754.6 E)

ELEVATION : 41.4 ft msl DRILLING CONTRACTOR : Ground Zero Field Services

DRILLING METHOD AND EQUIPMENT : GeoProbe 6620 DT, DPT

WATER LEVELS : --- START : 12/9/2010 END : 12/9/2010 LOGGER : A. Bogdanski

DEPTH BELOW EXISTING GRADE (ft)			SOIL DESCRIPTION	SYMBOLIC LOG	PID (ppm)	COMMENTS
INTERVAL (ft)	RECOVERY (in)	SAMPLE ID	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY			
0.0			CLAYEY GRAVEL (GC) rock fragments 1.33-1.5' - 10YR 3/3, dark brown, dry		0	No Recovery
34.0			CLAY (COVER) (CL) 10YR 3/1, very dark gray, moist, (stiff), low plasticity			
4.0			CLAY (COVER) (CL) 10YR 3/1, very dark gray, moist, (stiff), low plasticity		3.6	No Recovery
20.0			FILL pieces of wood, rubber and plastic			
8.0			Bottom of Boring at 8.0 ft below ground surface			



PROJECT NUMBER: 314138	BORING NUMBER: SB-08	SHEET 1 OF 1
SOIL BORING LOG		

PROJECT : Site 21 Pre-Design Investigation LOCATION : NSF Indian Head, Indian Head, MD (331946.7 N, 1260780.8 E)

ELEVATION : 42.5 ft msl DRILLING CONTRACTOR : Ground Zero Field Services

DRILLING METHOD AND EQUIPMENT : GeoProbe 6620 DT, DPT

WATER LEVELS : --- START : 12/9/2010 END : 12/9/2010 LOGGER : A. Bogdanski

DEPTH BELOW EXISTING GRADE (ft)			SOIL DESCRIPTION	SYMBOLIC LOG	PID (ppm)	COMMENTS
INTERVAL (ft)	RECOVERY (in)	SAMPLE ID	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY			DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION
0.0			CLAYEY GRAVEL (COVER) (GC) 10YR 5/6, yellowish brown, moist, (medium dense), sub-rounded gravel to 1/2"		0	No Recovery
40.0			SILTY CLAY (FILL) (CL) 10YR 3/1, very dark gray, moist, (very stiff), low plasticity, pieces of glass and wood			
4.0			SILTY CLAY (FILL) (CL) 10YR 3/1, very dark gray, moist, (very stiff), low plasticity, pieces of glass and wood		0	No Recovery
5						
8.0			Bottom of Boring at 8.0 ft below ground surface			



PROJECT NUMBER: 314138	BORING NUMBER: SB-09	SHEET 1 OF 1
SOIL BORING LOG		

PROJECT : Site 21 Pre-Design Investigation LOCATION : NSF Indian Head, Indian Head, MD (332019.8 N, 1260809.7 E)

ELEVATION : 44.5 ft msl DRILLING CONTRACTOR : Ground Zero Field Services

DRILLING METHOD AND EQUIPMENT : GeoProbe 6620 DT, DPT

WATER LEVELS : --- START : 12/9/2010 END : 12/9/2010 LOGGER : A. Bogdanski

DEPTH BELOW EXISTING GRADE (ft)			SOIL DESCRIPTION	SYMBOLIC LOG	COMMENTS
INTERVAL (ft)	RECOVERY (in)	SAMPLE ID			
0.0			SILTY CLAY (COVER) (CL) 7.5YR 5/8, strong brown, moist, (stiff), low plasticity, little sub-rounded gravel to 1"	0	No Recovery
39.0					
4.0			SILTY CLAY (COVER) (CL) 7.5YR 5/8, strong brown, moist, (stiff), low plasticity, little sub-rounded gravel to 1"	0	
5			CONCRETE		
48.0			SILTY SAND (SM) 7.5YR 5/8, strong brown, moist, (dense), fine to medium grained	0	
8.0			SILTY CLAY (CL) 7.5YR 5/8, strong brown, moist, (soft to stiff), low plasticity		
10			SILTY CLAY (CL) 10YR 5/3, brown, moist, (soft), low plasticity	0	
12.0			Bottom of Boring at 12.0 ft below ground surface		



PROJECT NUMBER: 314138	BORING NUMBER: SB-11	SHEET 1 OF 1
SOIL BORING LOG		

PROJECT : Site 21 Pre-Design Investigation LOCATION : NSF Indian Head, Indian Head, MD (331911.6 N, 1260867.6 E)

ELEVATION : 52.4 ft msl DRILLING CONTRACTOR : Ground Zero Field Services

DRILLING METHOD AND EQUIPMENT : GeoProbe 6620 DT, DPT

WATER LEVELS : --- START : 12/9/2010 END : 12/9/2010 LOGGER : A. Bogdanski

DEPTH BELOW EXISTING GRADE (ft)			SOIL DESCRIPTION	SYMBOLIC LOG	PID (ppm)	COMMENTS
INTERVAL (ft)	RECOVERY (in)	SAMPLE ID	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY			
0.0			SILTY SAND (SM) 10YR 6/6, brownish yellow, wet, (loose), medium to coarse grained			
			SILTY CLAY (COVER) (CL) 10YR 6/6, brownish yellow, moist, (soft to stiff), low plasticity			
37.0			SILTY CLAY (FILL) (CL) 10YR 3/1, very dark gray, moist, (stiff), low plasticity		0	No Recovery
4.0			SILTY CLAY (FILL) (CL) 10YR 3/1, very dark gray, moist, (stiff), low plasticity		0	
5						
48.0					0	
8.0			Bottom of Boring at 8.0 ft below ground surface			



PROJECT NUMBER: 314138	BORING NUMBER: SB-12	SHEET 1 OF 1
SOIL BORING LOG		

PROJECT : Site 21 Pre-Design Investigation LOCATION : NSF Indian Head, Indian Head, MD (331824.7 N, 1260842.1 E)

ELEVATION : 52.3 ft msl DRILLING CONTRACTOR : Ground Zero Field Services

DRILLING METHOD AND EQUIPMENT : GeoProbe 6620 DT, DPT

WATER LEVELS : --- START : 12/9/2010 END : 12/9/2010 LOGGER : A. Bogdanski

DEPTH BELOW EXISTING GRADE (ft)			SOIL DESCRIPTION	SYMBOLIC LOG	COMMENTS
INTERVAL (ft)	RECOVERY (in)	SAMPLE ID			
0.0			SILT (COVER) (ML) 10YR 4/4, dark yellowish brown, dry, (loose), some sand		No Recovery
28.0				0	
4.0			CLAY (COVER) (CL) 10YR 4/4, dark yellowish brown, dry, (very stiff), low plasticity, trace 1/4" rounded gravel		No recovery
26.0				0	
8.0			CLAY (COVER) (CL) 10YR 4/4, dark yellowish brown, dry, (very stiff), low plasticity		
48.0			CLAY (FILL) (CL) 10YR 5/1, gray, dry, (stiff), low plasticity	0	
12.0			Bottom of Boring at 12.0 ft below ground surface		



PROJECT NUMBER: 314138	BORING NUMBER: SB-13	SHEET 1 OF 1
SOIL BORING LOG		

PROJECT : Site 21 Pre-Design Investigation LOCATION : NSF Indian Head, Indian Head, MD (331730.3 N, 1260812.5 E)

ELEVATION : 45.5 ft msl DRILLING CONTRACTOR : Ground Zero Field Services

DRILLING METHOD AND EQUIPMENT : GeoProbe 6620 DT, DPT

WATER LEVELS : --- START : 12/9/2010 END : 12/9/2010 LOGGER : A. Bogdanski

DEPTH BELOW EXISTING GRADE (ft)			SOIL DESCRIPTION	SYMBOLIC LOG	PID (ppm)	COMMENTS
INTERVAL (ft)	RECOVERY (in)	SAMPLE ID				
0.0			TOPSOIL			
			CLAY (COVER) (CL) 10YR 4/3, brown, moist, (stiff), low plasticity			
			CLAY (FILL) (CL) 2.5Y 2/1, black, moist, (stiff), low plasticity			
	30.0				0	No Recovery
4.0			CLAY (FILL) (CL) 2.5Y 2/1, black, moist, (stiff), low plasticity			
			CLAY (FILL) (CL) 7.5YR 5/8, strong brown, moist, (stiff), low plasticity, little sub-angular gravel to 1/2"			
	27.0				0	No Recovery
8.0			CLAY (FILL) (CL) 7.5YR 5/8, strong brown, moist, (stiff), low plasticity, little sub-angular gravel to 1/2"			
			SILTY SAND (SM) 7.5YR 5/8, strong brown, moist, (dense), little sub-angular gravel to 1/2"			
	41.0				0	No Recovery
12.0			Bottom of Boring at 12.0 ft below ground surface			



PROJECT NUMBER: 314138	BORING NUMBER: SB-14	SHEET 1 OF 1
SOIL BORING LOG		

PROJECT : Site 21 Pre-Design Investigation LOCATION : NSF Indian Head, Indian Head, MD (331726.2 N, 1260889.0 E)

ELEVATION : 49.3 ft msl DRILLING CONTRACTOR : Ground Zero Field Services

DRILLING METHOD AND EQUIPMENT : GeoProbe 6620 DT, DPT

WATER LEVELS : --- START : 12/9/2010 END : 12/9/2010 LOGGER : A. Bogdanski

DEPTH BELOW EXISTING GRADE (ft)			SOIL DESCRIPTION	SYMBOLIC LOG	PID (ppm)	COMMENTS
INTERVAL (ft)	RECOVERY (in)	SAMPLE ID				
0.0			SILTY CLAY (COVER) (CL) 10YR 4/3, brown, dry, (stiff), low plasticity, little sub-angular gravel to 1/4"		0	
4.0	48.0		SILTY CLAY (COVER) (CL) 10YR 4/3, brown, dry, (stiff), low plasticity, little sub-angular gravel to 1/4"		0	
5	36.0				0	No Recovery
8.0			SILTY SAND (SM) 10YR 4/3, brown, moist, (medium dense), sub-angular gravel to 1/4"			No Recovery
10						
			Bottom of Boring at 12.0 ft below ground surface			



PROJECT NUMBER: 314138	BORING NUMBER: SB-15	SHEET 1 OF 1
SOIL BORING LOG		

PROJECT : Site 21 Pre-Design Investigation LOCATION : NSF Indian Head, Indian Head, MD (331791.7 N, 1260931.7 E)

ELEVATION : 53.7 ft msl DRILLING CONTRACTOR : Ground Zero Field Services

DRILLING METHOD AND EQUIPMENT : GeoProbe 6620 DT, DPT

WATER LEVELS : --- START : 12/9/2010 END : 12/9/2010 LOGGER : A. Bogdanski

DEPTH BELOW EXISTING GRADE (ft)			SOIL DESCRIPTION	SYMBOLIC LOG	PID (ppm)	COMMENTS
INTERVAL (ft)	RECOVERY (in)	SAMPLE ID	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY			DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION
0.0			TOPSOIL dark brown, moist, (loose)			
			SILTY CLAY (COVER) (CL) 10YR 5/6, yellowish brown, dry, (stiff), low plasticity, little sub-angular gravel to 1/4"			
			CONCRETE SILTY CLAY (FILL) (CL) 10YR 3/1, very dark gray, dry, (stiff), low plasticity			
25.0					0	No Recovery
4.0			SILTY CLAY WITH SAND (FILL) (CL) 10YR 3/1, very dark gray, wet, (soft), medium to coarse grained, low plasticity			
5						
48.0			SILTY CLAY (FILL) (CL) 10YR 3/1, very dark gray, moist to dry, (stiff), low plasticity		0	
8.0			Bottom of Boring at 8.0 ft below ground surface			



PROJECT NUMBER: 314138	BORING NUMBER: SB-16	SHEET 1 OF 1
SOIL BORING LOG		

PROJECT : Site 21 Pre-Design Investigation LOCATION : NSF Indian Head, Indian Head, MD (331888.8 N, 1260954.4 E)

ELEVATION : 58.9 ft msl DRILLING CONTRACTOR : Ground Zero Field Services

DRILLING METHOD AND EQUIPMENT : GeoProbe 6620 DT, DPT

WATER LEVELS : --- START : 12/9/2010 END : 12/9/2010 LOGGER : A. Bogdanski

DEPTH BELOW EXISTING GRADE (ft)			SOIL DESCRIPTION	SYMBOLIC LOG	PID (ppm)	COMMENTS
INTERVAL (ft)	RECOVERY (in)	SAMPLE ID				
0.0			SILT (COVER) (ML) 10YR 4/4, brown, dry, (dense), fine to medium grained			No Recovery
			CLAY (FILL) (CL) 10YR 3/1, very dark gray, moist, (soft), low plasticity			
22.0						
4.0			CLAY (FILL) (CL) 10YR 3/1, very dark gray, moist, (soft), low plasticity			0
			CLAY (FILL) (CL) 10YR 3/1, very dark gray, dry, (very stiff), low plasticity			
48.0						
8.0			Bottom of Boring at 8.0 ft below ground surface			



PROJECT NUMBER: 314138	BORING NUMBER: SB-17	SHEET 1 OF 1
SOIL BORING LOG		

PROJECT : Site 21 Pre-Design Investigation LOCATION : NSF Indian Head, Indian Head, MD (331969.5 N, 1260983.4 E)

ELEVATION : 72.9 ft msl DRILLING CONTRACTOR : Ground Zero Field Services

DRILLING METHOD AND EQUIPMENT : GeoProbe 6620 DT, DPT

WATER LEVELS : --- START : 12/9/2010 END : 12/9/2010 LOGGER : A. Bogdanski

DEPTH BELOW EXISTING GRADE (ft)			SOIL DESCRIPTION	SYMBOLIC LOG	PID (ppm)	COMMENTS
INTERVAL (ft)	RECOVERY (in)	SAMPLE ID	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY			DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION
0.0			SILTY CLAY (COVER) (CL) 10YR 4/4, dark yellowish brown, moist, (stiff), low plasticity		0	
4.0			SILTY CLAY (FILL) (CL) 10YR 3/1, very dark gray, moist, (soft), low plasticity, wood pieces		0	No Recovery
8.0			Bottom of Boring at 8.0 ft below ground surface			

Appendix B - Surveyor's Report



AB Consultants, Inc.
 1500 South Edgewood St
 Baltimore, Maryland 21227

Engineers

Planners

Surveyors

Contractors

Ph (443) 524-2891
 Fax: (443) 524-2897
 www.abconsultantsinc.com

January 13, 2011

To: CH2M HILL

On December 8, 2010 AB Consultants began the field surveys for the Site 21 – Bronson Road project on the Indian Head Base located in Indian Head, Maryland. The field survey crew was comprised of John Jones and John Jones Jr. The crew performed a topographic survey of the area defined by CH2M Hill. The survey method used was a standard data collection survey of the area using a Topcon total station with a TDS electronic data collector connected to the total station. The surveyed points were recorded in the data collector for post processing in the AB Consultants Baltimore Office. The survey was tied to control provided to AB Consultants by CH2M Hill. Point numbers IH1124 and IH1125 were utilized. These two points were recovered and found to be in good condition. The distance and elevation between these two points checked within 0.01' horizontally and 0.02' vertically. This was consider acceptable for a topographic survey. AB Consultants set six additional control points, Traverse 100, 101, 102, 105, 106 & 108. These points were all tied to the existing control found on the site IH1124 and IH1125.

CONTROL COORDINATE LISTING

IH1124 Y=331344.6563 X=1260661.2500 ELEV=28.9200 TRAV
 IH1125 Y=331734.8438 X=1260404.8750 ELEV=31.6500 TRAV
 100 Y=331707.6976 X=1260935.5063 ELEV=47.7900 TRAV
 101 Y=331577.7575 X=1260709.8253 ELEV=35.4900 TRAV
 102 Y=331789.4665 X=1260561.7745 ELEV=44.5300 TRAV
 105 Y=332051.5785 X=1260981.1911 ELEV=74.7700 TRAV R&C
 106 Y=332050.8062 X=1260659.3502 ELEV=35.4800 TRAV R&C
 108 Y=332002.6825 X=1261080.5945 ELEV=77.9900 TRAV 60 PENNY

Very truly yours,
AB CONSULTANTS, INC.

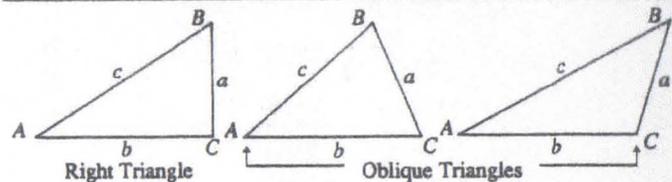
Charles A. Mueller, Prof.L.S.
 Vice President



G:\Product\Jobs\2010\2010345 Site 21 Bronson Rd Landfill\Survey\Surveyors Report.doc

SITE 21 BRONSON RD INDIAN HEAD, MD

TRIGONOMETRIC FORMULÆ



Solution of Right Triangles

For Angle A. $\sin = \frac{a}{c}$, $\cos = \frac{b}{c}$, $\tan = \frac{a}{b}$, $\cot = \frac{b}{a}$, $\sec = \frac{c}{a}$, $\text{cosec} = \frac{c}{a}$

Given	Required
a, b, c	A, B, c $\tan A = \frac{a}{b} = \cot B$, $c = \sqrt{a^2 + b^2} = a \sqrt{1 + \frac{b^2}{a^2}}$
a, c	A, B, b $\sin A = \frac{a}{c} = \cos B$, $b = \sqrt{(c+a)(c-a)} = c \sqrt{1 - \frac{a^2}{c^2}}$
A, a	B, b, c $B = 90^\circ - A$, $b = a \cot A$, $c = \frac{a}{\sin A}$
A, b	B, a, c $B = 90^\circ - A$, $a = b \tan A$, $c = \frac{b}{\cos A}$
A, c	B, a, b $B = 90^\circ - A$, $a = c \sin A$, $b = c \cos A$

Solution of Oblique Triangles

Given	Required
A, B, a	b, c, C $b = \frac{a \sin B}{\sin A}$, $C = 180^\circ - (A + B)$, $c = \frac{a \sin C}{\sin A}$
A, a, b	B, c, C $\sin B = \frac{b \sin A}{a}$, $C = 180^\circ - (A + B)$, $c = \frac{a \sin C}{\sin A}$
a, b, C	A, B, c $A + B = 180^\circ - C$, $\tan \frac{1}{2}(A - B) = \frac{(a-b) \tan \frac{1}{2}(A+B)}{a+b}$, $c = \frac{a \sin C}{\sin A}$
a, b, c	A, B, C $s = \frac{a+b+c}{2}$, $\sin \frac{1}{2}A = \sqrt{\frac{(s-b)(s-c)}{bc}}$, $\sin \frac{1}{2}B = \sqrt{\frac{(s-a)(s-c)}{ac}}$, $C = 180^\circ - (A + B)$
a, b, c	Area $s = \frac{a+b+c}{2}$, $\text{area} = \sqrt{s(s-a)(s-b)(s-c)}$
A, b, c	Area $\text{area} = \frac{bc \sin A}{2}$
A, B, C, a	Area $\text{area} = \frac{a^2 \sin B \sin C}{2 \sin A}$

FIELD CREW

JOHN JONES
JOHN JONES JR.

CONTROL USED

IH 1124 FOUND \rightarrow NAD 83 DATUM
IH 1125 FOUND

DATES

12-08-10
12-09-10
12-10-10
12-13-10
12-14-10

12/4/10 STERIL @ Bronson Rd
 STA + HI - ELEV Desc.
 IH1124 7.18 36.10 28.92 R/C

Δ101 10.03 45.52 0.61 35.49 R/C

Δ102 1.92 46.45 0.99 44.53 R/C

Δ106 10.90 46.38 10.97 35.48 R/C

Δ1 1.14 45.67 1.85 44.53 R/C

IH1125
 CHECK 14.00 31.67 R/C
 31.65 TRUE

(4)

28° windy

V. Jones
 J. SR

ON Δ102

ERRR
 0.02

IH1125
 TRUE-ELEV 31.65

TRIG ELEV
 Δ101 35.51
 Δ102 44.56
 Δ100 47.80

12-14-10 SITE 21 @ Bronson Rd.

STA	+	HI	-	ELEV	DESC
Δ106	10.21	45.69		35.48	R/K
π1	9.08	53.91	0.86	44.83	OPEN
π2	15.15	67.67	1.39	52.52	"
π3	11.30	78.06	0.91	66.76	"
Δ105	5.77	8.54	3.29	74.77	R/K
Δ108	2.70	80.69	2.55	77.99	OPEN
π4	1.31	72.72	9.28	71.41	
π5	1.61	59.69	14.49	58.23	
Δ100	1.08	48.89	12.05	47.79	R/K
Δ101			13.35	35.52	
CHECK				35.49	TREE

30° windy

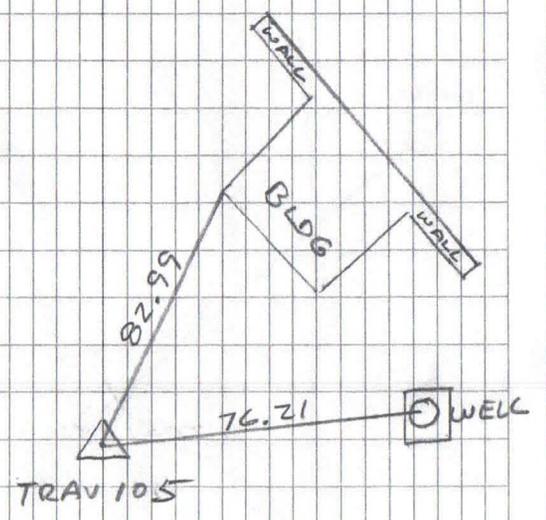
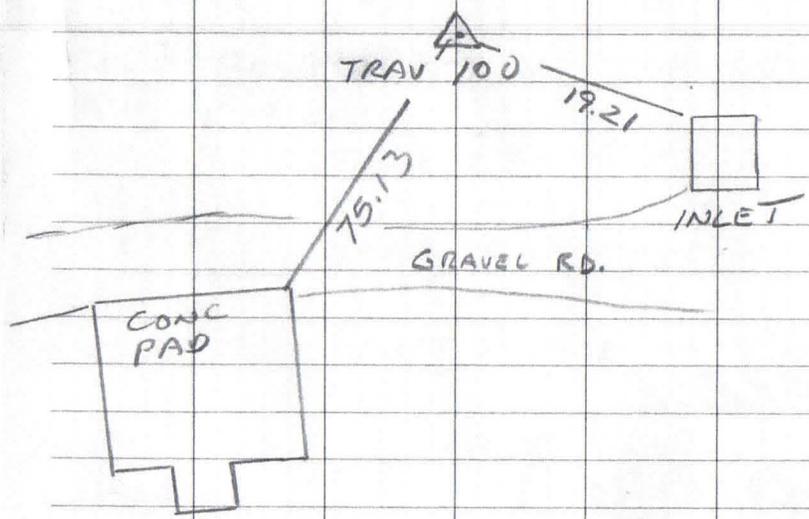
SEE pg 3-4

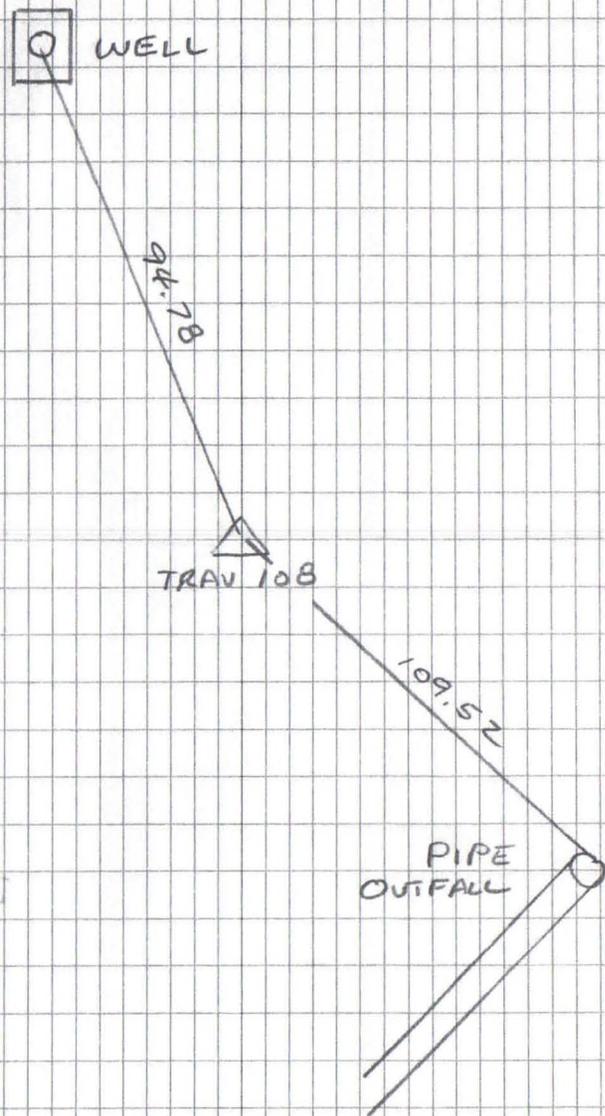
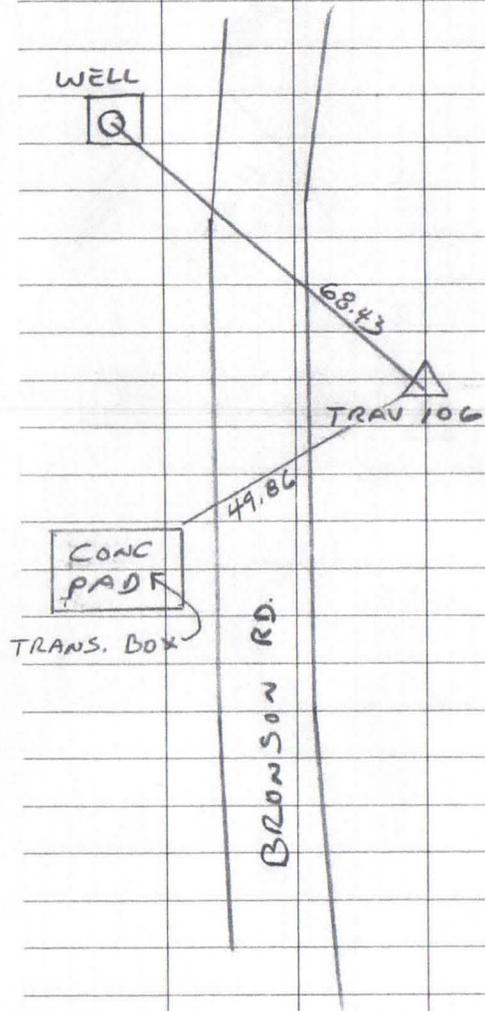
J. JONES
H. JR.

TRIG Δ108 FWH
ELEV 77.99

'ERROR'

(0.03)





IH1124	331344.6563	1260661.2500	TRAV INDIAN HEAD CONTROL
IH1125	331734.8438	1260404.8750	TRAV INDIAN HEAD CONTROL
101	331577.7575	1260709.8253	TRAV
102	331789.4665	1260561.7745	TRAV
100	331707.6976	1260935.5063	TRAV
100	331707.6975	1260935.5064	TRAV
105	332051.5785	1260981.1911	TRAV
106	332050.8062	1260659.3502	TRAV
107	331880.6715	1261103.9418	TRAV
108	332002.6825	1261080.5945	TRAV

STAR*NET-PRO Version 6.0.18
Copyright 1988-2000 Starplus Software, Inc.
Licensed for Use by AB Consultants
Run Date: Wed Dec 15 2010 06:14:28

Summary of Files Used and Option Settings

=====

Project Folder and Data Files

Project Name 2010345 SITE21 CTL1.DAT
Project Folder V:\JOBSB\...\SURVEY\FIELD\TRAVERSE
Data File List 2010345 SITE21 CTL1.dat

Project Option Settings

STAR*NET Run Mode : Adjust with Error Propagation
Type of Adjustment : 2D
Project Units : FeetUS; DMS
Coordinate System : Lambert NAD83; MD 1900
Default Project Elevation : 39.0000 FeetUS
Geoid Height : -33.0500 (Default, Meters)
Vertical Deflection : N=0.00 E=0.00 (Defaults, Seconds)
Longitude Sign Convention : Positive West
Input/Output Coordinate Order : North-East
Angle Data Station Order : At-From-To
Distance/Vertical Data Type : Slope/Zenith
Convergence Limit; Max Iterations : 0.0100; 10
Default Coefficient of Refraction : 0.0700
Create Coordinate File : Yes
Create Geodetic Position File : No
Create Ground Scale Coordinate File : No
Create Dump File : No

Instrument Standard Error Settings

Project Default Instrument
Distances (Constant) : 0.03000 FeetUS
Distances (PPM) : 0.00000
Angles : 4.00000 Seconds
Directions : 3.00000 Seconds

Azimuths & Bearings : 4.00000 Seconds
Centering Error Instrument : 0.00000 FeetUS
Centering Error Target : 0.00000 FeetUS

Summary of Unadjusted Input Observations

=====

Number of Entered Stations (FeetUS) = 4

Fixed Stations	N	E	Ref Elev	Description
IH1124	331344.6563	1260661.2500	n/a	TRAV INDIAN HEAD CONTROL
IH1125	331734.8438	1260404.8750	n/a	TRAV INDIAN HEAD CONTROL
101	331577.7575	1260709.8253	n/a	TRAV
100	331707.6976	1260935.5063	n/a	TRAV

Number of Measured Geodetic Angle Observations (DMS) = 4

At	From	To	Angle	StdErr	t-T
IH1124	IH1125	101	45-04-47.75	4.00	-0.01
101	IH1124	102	133-15-52.50	4.00	0.00
102	101	IH1125	105-46-19.75	4.00	0.01
IH1125	102	IH1124	75-53-22.25	4.00	-0.00

Number of Measured Distance Observations (FeetUS) = 3

From	To	Distance	StdErr	Comb Grid
IH1124	101	238.0723	0.0300	0.9999667
101	102	258.3021	0.0300	0.9999667
102	IH1125	166.1446	0.0300	0.9999666

Number of Measured Geodetic Sideshots (DMS, FeetUS) = 5

At	From	To	Angle	Distance
101	102	100	95-02-01.00	260.4244
102	101	105	272-57-45.00	494.6002
		106	235-26-22.50	278.9707
100	101	107	164-10-13.50	241.4423
102	101	108	282-37-29.00	560.9423

Adjustment Statistical Summary

=====

Convergence Iterations = 3

Number of Stations = 4

Number of Observations = 7

Number of Unknowns = 2

Number of Redundant Obs = 5

Observation	Count	Sum Squares	Error
	of StdRes	Factor	
Angles	4	7.77	1.65
Distances	3	4.63	1.47
Total	7	12.40	1.57

Adjustment Failed the Chi Square Test at 5% Level

Adjusted Station Information

=====

Adjusted Coordinates (FeetUS)

Station	N	E	Description
IH1124	331344.6563	1260661.2500	TRAV INDIAN HEAD CONTROL
IH1125	331734.8438	1260404.8750	TRAV INDIAN HEAD CONTROL
101	331577.7575	1260709.8253	TRAV
102	331789.4665	1260561.7745	TRAV
100	331707.6976	1260935.5063	TRAV

Adjusted Positions (FeetUS)

Station	Latitude	Longitude
IH1124	38-34-34.861758	77-10-50.683664
IH1125	38-34-38.713773	77-10-53.921849
101	38-34-37.166939	77-10-50.077784
102	38-34-39.256805	77-10-51.947423
100	38-34-38.455814	77-10-47.239088

Convergence Angles (DMS) and Grid Factors at Stations

(Grid Azimuth = Geodetic Azimuth - Convergence)
 (Elevation Factor Includes a -33.05 Meter Geoid Height Correction)

Station	Convergence	----- Factors -----		
	Angle	Scale	x Elevation	= Combined
IH1124	-0-06-48.39	0.99996343	1.00000332	0.99996675
IH1125	-0-06-50.42	0.99996333	1.00000332	0.99996665
101	-0-06-48.01	0.99996337	1.00000332	0.99996669
102	-0-06-49.18	0.99996332	1.00000332	0.99996664
100	-0-06-46.23	0.99996334	1.00000332	0.99996666
Project Averages:	-0-06-48.45	0.99996336	1.00000332	0.99996668

Adjusted Observations and Residuals

=====

Adjusted Measured Geodetic Angle Observations (DMS)

At	From	To	Angle	Residual	StdErr	StdRes
IH1124	IH1125	101	45-04-42.24	-0-00-05.51	4.00	1.4
101	IH1124	102	133-15-47.40	-0-00-05.10	4.00	1.3
102	101	IH1125	105-46-14.28	-0-00-05.47	4.00	1.4
IH1125	102	IH1124	75-53-16.07	-0-00-06.18	4.00	1.5

Adjusted Measured Distance Observations (FeetUS)

From	To	Distance	Residual	StdErr	StdRes
IH1124	101	238.1166	0.0443	0.0300	1.5
101	102	258.3489	0.0468	0.0300	1.6
102	IH1125	166.1413	-0.0033	0.0300	0.1

Adjusted Bearings (DMS) and Horizontal Distances (FeetUS)

=====

(Relative Confidence of Bearing is in Seconds)

NOTE - Adjustment Failed the Chi-Square Test

Angular and Distance Errors are Scaled by Total Error Factor

From	To	Grid Bearing	Grid Dist	95% RelConfidence		
		Grnd Dist	Brg Dist	PPM		
101	102	N34-57-56.11W	258.3403	12.40	0.0131	50.8756
		258.3489				
101	IH1124	S11-46-16.48W	238.1087	0.00	0.0000	0.0023
		238.1166				
102	IH1125	S70-48-18.18W	166.1358	12.46	0.0177	106.5390
		166.1413				
IH1124	IH1125	N33-18-25.74W	466.8773	0.00	0.0000	0.0012
		466.8929				

Traverse Closures of Unadjusted Observations

=====

(Beginning and Ending on Adjusted Stations)

(Unadjusted Bearings and Distances Shown Reduced to Grid)

TRAVERSE 1

Error Angular = 22.25 Sec, 4 Angles, 5.56 Sec/Angle

Error Linear = 0.0836 S, 0.0143 E

Horiz Precision = 0.0849 Error in 662.4969, 1:7808, 128.08 PPM

From	To	Unadj Bearing	Unadj Dist
IH1124	IH1125	N33-18-25.74W BS	
IH1124	101	N11-46-16.43E	238.0644
101	102	N34-57-56.62W	258.2935
102	IH1125	S70-48-17.57W	166.1391
IH1125	IH1124	S33-18-25.74E FS	

Sideshot Coordinates Computed After Adjustment

=====

Station	N	E	Description
100	331707.6975	1260935.5064	TRAV100
105	332051.5785	1260981.1911	TRAV
106	332050.8062	1260659.3502	TRAV
107	331880.6715	1261103.9418	TRAV
108	332002.6825	1261080.5945	TRAV

Error Propagation

=====

Station Coordinate Standard Deviations (FeetUS)

NOTE - Adjustment Failed the Chi-Square Test
Standard Deviations are Scaled by Total Error Factor

Station	N	E
IH1124	0.00000	0.00000
IH1125	0.00000	0.00000
101	0.00000	0.00000
102	0.00308	0.00772

Station Coordinate Error Ellipses (FeetUS)

NOTE - Adjustment Failed the Chi-Square Test
Error Ellipses are Scaled by Total Error Factor
Confidence Region = 95%

Station	Semi-Major Axis	Semi-Minor Axis	Azimuth of Major Axis
IH1124	0.00000	0.00000	0-00
IH1125	0.00000	0.00000	0-00
101	0.00000	0.00000	0-00
102	0.01893	0.00746	93-29

Relative Error Ellipses (FeetUS)

NOTE - Adjustment Failed the Chi-Square Test

Relative Error Ellipses are Scaled by Total Error Factor

Confidence Region = 95%

Stations From	To	Semi-Major Axis	Semi-Minor Axis	Azimuth of Major Axis
101	102	0.01893	0.00746	93-29
101	IH1124	0.00000	0.00000	0-00
102	IH1125	0.01893	0.00746	93-29
IH1124	IH1125	0.00000	0.00000	0-00

Elapsed Time = 00:00:00

29

47

01 00000000 Top of File
01 00000006 Summary of Files Used and Option Settings
02 00000009 Project Folder and Data Files
02 00000015 Project Option Settings
02 00000035 Instrument Standard Error Settings
03 00000037 Project Default Instrument
01 00000046 Summary of Unadjusted Input Observations
02 00000049 Entered Stations
03 00000051 Fixed Coordinates
02 00000057 Measured Geodetic Angle Observations
02 00000065 Measured Distance Observations
02 00000072 Measured Geodetic Sideshots
01 00000086 Adjustment Statistical Summary
01 00000106 Adjusted Station Information
02 00000109 Adjusted Coordinates
02 00000118 Adjusted Positions
02 00000127 Convergence Angles and Grid Factors at Stations
01 00000140 Adjusted Observations and Residuals
02 00000143 Adjusted Measured Geodetic Angle Observations
02 00000151 Adjusted Measured Distance Observations
01 00000158 Adjusted Bearings and Horizontal Distances
01 00000175 Traverse Closures of Unadjusted Observations
02 00000180 TRAVERSE 1
01 00000192 Sideshot Coordinates Computed After Adjustment
01 00000202 Error Propagation
02 00000205 Station Coordinate Standard Deviations

02 00000215 Station Coordinate Error Ellipses

02 00000227 Relative Error Ellipses

01 00000238 End of File

00002C8A

STARPLUS

00017E35

100,331707.6976,1260935.5063,47.7900,TRAV
101,331577.7575,1260709.8253,35.4900,TRAV
102,331789.4665,1260561.7745,44.5300,TRAV
105,332051.5785,1260981.1911,74.7700,TRAV R&C
106,332050.8062,1260659.3502,35.4800,TRAV R&C
108,332002.6825,1261080.5945,77.9900,TRAV 60 PENNY
IH1124,331344.6563,1260661.2500,28.9200,TRAV
IH1125,331734.8438,1260404.8750,31.6500,TRAV
IH1199,331872.0625,1261265.6250,75.0800,TRAV
1002,331606.0935,1260685.8932,36.1594,TD
1003,331611.3274,1260687.4743,36.1546,TD
1004,331614.4918,1260686.0207,36.7466,TD
1005,331628.9771,1260675.0141,36.8151,TD
1006,331606.8333,1260682.6878,35.6281,BD
1007,331612.3092,1260681.7903,35.9256,BD
1008,331627.1166,1260672.0035,36.4041,BD
1009,331635.5229,1260666.0758,36.8672,BD
1010,331652.7842,1260655.2258,37.7625,BD
1011,331672.7488,1260642.2112,38.8819,BD
1012,331690.8754,1260630.3023,40.2093,BD
1013,331711.8122,1260614.8688,42.1493,BD
1014,331689.1999,1260626.3158,41.2871,TD
1015,331670.0741,1260638.3874,40.1696,TD
1016,331650.3469,1260651.3874,38.9881,TD
1017,331632.9514,1260663.2369,37.8303,TD
1018,331609.2747,1260679.1334,36.4914,TD
1019,331733.0547,1260607.9022,42.6823,SGGR
1020,331754.3933,1260604.0126,43.2465,SGGR
1021,331775.5430,1260600.8430,43.6619,SGGR
1022,331797.8924,1260601.4481,43.1884,SGGR
1023,331828.2957,1260605.8457,42.1318,SGGR
1024,331827.8464,1260605.6567,42.5621,SGGR
1025,331849.9319,1260612.3400,41.4044,SGGR
1026,331871.3366,1260619.8481,40.7224,SGGR
1027,331892.5280,1260627.0936,40.1341,SGGR
1028,331912.2118,1260635.1097,39.3403,SGGR
1029,331932.6254,1260640.7571,38.7827,SGGR
1030,331951.4463,1260645.7001,38.1899,SGGR
1031,331971.8066,1260651.3954,37.6227,SGGR
1033,331950.9122,1260634.9562,37.8709,TD
1034,331967.8022,1260640.2461,37.0700,BD
1035,331966.8837,1260644.5787,37.6353,TD

1036,331969.9502,1260636.2256,37.7488,TD
1037,331990.5794,1260639.9085,36.7523,TD
1038,331989.3469,1260644.6007,35.9470,BD
1039,331987.4112,1260650.6233,36.8972,TD
1040,332004.5143,1260653.8035,36.1794,TD
1041,332006.4520,1260648.6137,35.5177,BD
1042,332008.5596,1260644.3890,36.2781,TD
1043,332023.0708,1260653.0216,35.2125,TD
1044,332020.0580,1260665.7396,36.5547,SGGR
1045,332039.3653,1260674.3724,36.5326,SGGR
1046,332058.7450,1260682.6321,36.4078,SGGR
1047,332079.9147,1260690.8261,35.9436,SGGR
1048,332094.4986,1260697.1951,35.9246,SGGR
1049,332116.8615,1260702.7126,35.5171,SGGR
1050,332135.8776,1260714.0246,35.2456,SGGR
1051,332150.7267,1260724.6973,34.9004,SGGR
1052,332152.7291,1260722.2691,34.8650,TD
1053,332161.6311,1260720.7736,35.0004,TD
1054,332176.5551,1260728.0552,34.8508,TD
1055,332187.0638,1260734.4335,34.9563,TD
1056,332187.9632,1260738.7655,35.0134,TD
1057,332182.6331,1260742.1987,35.2374,TD
1058,332171.0148,1260737.0143,35.0247,TD
1059,332159.3772,1260731.3543,34.9887,TD
1060,332151.0132,1260747.8013,35.7826,TD
1061,332149.9476,1260756.7967,36.1804,TD
1062,332151.3336,1260765.4515,37.4234,TD
1063,332142.4684,1260782.9476,37.3237,TD
1064,332133.9753,1260800.1086,37.6943,TD
1065,332132.1802,1260809.9973,37.8001,TD
1066,332135.4171,1260808.7519,37.0416,TOE
1067,332140.0437,1260802.7964,36.7878,TOE
1068,332150.0515,1260787.9824,36.4610,TOE
1069,332156.0075,1260767.5581,35.7664,TOE
1070,332162.6428,1260750.9379,35.4681,TOE
1071,332183.7138,1260738.8478,33.8575,BD
1072,332184.7730,1260736.9933,33.8471,BD
1073,332174.5538,1260731.4358,34.0293,BD
1074,332173.0413,1260734.2722,34.3013,BD
1075,332158.2681,1260727.0492,34.3652,BD
1076,332158.7594,1260723.8509,34.3197,BD
1077,332154.2745,1260725.8610,34.4352,BD
1078,332151.7523,1260732.1304,34.8544,BD

1079,332155.1582,1260733.5026,34.7089,BD
1080,332149.5745,1260747.5593,35.5374,BD
1081,332147.0610,1260746.3054,35.4367,BD
1082,332144.0602,1260755.3341,35.2471,BD
1083,332146.9243,1260756.8234,34.9013,BD
1084,332131.1719,1260753.2630,35.1178,EW
1085,332116.9342,1260749.4072,34.4561,EW
1086,332109.6305,1260760.1280,34.8207,EW
1087,332103.8760,1260773.4682,34.9883,EW
1088,332098.6844,1260790.6323,35.1291,EW
1089,332099.7497,1260794.4354,35.3215,EW
1090,332092.8415,1260800.4262,35.5737,BD
1091,332089.2848,1260805.1951,35.7994,BD
1092,332089.9630,1260806.1402,35.8025,BD
1093,332092.4869,1260804.9451,36.0180,BD
1094,332095.0898,1260801.6755,35.9593,BD
1095,332101.4125,1260801.1093,34.7717,EW
1096,332112.4163,1260806.9424,35.2418,EW
1097,332121.9565,1260808.1886,34.5771,BD
1098,332127.7705,1260801.9291,34.8843,EW
1099,332138.0084,1260783.2368,34.7228,EW
1100,332145.9593,1260764.2628,34.6068,EW
1101,332147.2189,1260759.7153,34.7188,EW
1104,332202.3161,1260752.8575,36.0365,SGGR
1105,332231.3863,1260804.1502,37.7238,WOOD
1106,332214.7566,1260808.9438,39.9430,WOOD
1107,332209.0384,1260819.1960,41.4659,WOOD
1108,332210.7092,1260829.8592,42.2256,WOOD
1111,332207.7506,1260856.9064,43.1841,WOOD
1112,332168.6684,1260855.4339,43.1851,WOOD
1236,331871.7062,1260636.3606,40.3382,SGGR
1237,331874.0351,1260659.2297,39.7630,SGGR
1238,331876.6516,1260680.5736,39.6364,SGGR
1239,331884.8450,1260704.0288,41.9169,SGGR
1240,331893.1205,1260729.2338,42.0876,SGGR
1241,331904.4051,1260752.4466,42.0691,SGGR
1242,331911.7085,1260750.5424,42.1904,SGGR
1243,331906.4780,1260720.8321,42.3163,SGGR
1244,331907.2506,1260699.4355,41.5004,SGGR
1245,331905.6160,1260681.1853,39.7344,SGGR
1246,331902.6632,1260658.6528,39.1607,SGGR
1247,331919.3348,1260652.2657,38.8119,SGGR
1248,331920.9412,1260675.2710,38.7843,SGGR

1249,331928.4935,1260695.5457,39.6937,SGGR
1250,331931.2935,1260718.9329,41.6088,SGGR
1251,331939.2792,1260741.9627,42.0035,SGGR
1252,331959.0320,1260752.5715,42.0654,SGGR
1253,331962.4750,1260732.4798,41.7274,SGGR
1254,331962.6371,1260716.9442,41.4540,SGGR
1255,331969.9870,1260700.8958,38.4536,SGGR
1256,331980.0134,1260677.6981,37.0740,SGGR
1257,331957.7313,1260670.5611,37.9414,SGGR
1258,331939.5234,1260663.5254,38.1488,SGGR
1259,331945.7263,1260689.6571,38.6779,SGGR
1260,331999.2097,1260680.1218,37.2205,SGGR
1261,331999.7852,1260701.6325,37.5711,SGGR
1262,331999.3835,1260718.7593,37.6672,SGGR
1263,331995.6245,1260736.7197,41.1444,SGGR
1264,331993.6095,1260757.0470,41.4268,SGGR
1265,332010.5599,1260761.9906,40.8444,SGGR
1266,332015.2908,1260739.9804,40.8509,SGGR
1267,332019.3041,1260733.8965,40.3640,EVG 10 PINE
1268,332016.7271,1260721.2871,38.5814,SGGR
1269,332021.7892,1260701.0666,37.0793,SGGR
1270,332025.5376,1260684.2878,36.9248,SGGR
1271,332044.8384,1260691.1406,36.7741,SGGR
1272,332043.3961,1260727.0983,37.6825,SGGR
1273,332038.2974,1260745.3101,40.3833,SGGR
1274,332037.2066,1260763.1248,40.9550,SGGR
1275,332056.1887,1260765.8083,39.5437,SGGR
1276,332062.7489,1260746.5411,39.3677,SGGR
1277,332064.7205,1260730.6966,37.2723,SGGR
1278,331994.1654,1260856.3867,50.2484,TB
1115,331662.8209,1260690.3793,37.5274,WOOD
1116,331649.9501,1260704.2040,37.6457,WOOD
1117,331635.5484,1260705.4997,37.5289,WOOD
1118,331620.3574,1260696.3316,37.1673,WOOD
1119,331623.4773,1260683.0368,36.7976,WOOD
1120,331638.5250,1260677.9080,37.0271,WOOD
1121,331652.8078,1260681.2862,37.2663,WOOD
1122,331650.6229,1260693.8358,37.4267,EVG 8 PINE
1123,331663.7238,1260677.9976,37.6694,SGGR GRASS
1124,331675.2322,1260697.0391,38.2213,SGGR
1125,331682.1361,1260717.8247,38.6047,SGGR
1126,331697.4949,1260735.6358,38.8723,SGGR
1127,331717.1318,1260735.6618,39.2923,SGGR

1128,331713.2193,1260715.8798,38.5467,SGGR
1129,331702.8701,1260703.6547,38.4597,SGGR
1130,331694.5565,1260689.9758,38.4724,SGGR
1131,331688.8587,1260673.8721,38.4502,SGGR
1132,331681.8106,1260660.5931,38.7808,SGGR
1133,331696.1142,1260648.9371,39.7164,WOOD
1134,331714.0022,1260646.3095,39.6310,WOOD
1135,331723.6346,1260657.0986,39.8535,WOOD
1136,331712.9290,1260670.1930,39.2804,WOOD
1137,331697.2429,1260664.0237,38.5598,WOOD
1138,331718.6463,1260688.5344,38.7546,SGGR
1139,331732.5865,1260708.7010,39.2552,SGGR
1140,331746.9983,1260731.4921,40.5799,SGGR
1141,331770.6665,1260742.5248,41.6504,SGGR
1142,331773.5350,1260748.5337,41.3544,EVG 8 PINE
1143,331767.2998,1260724.1642,41.6934,SGGR
1144,331762.1895,1260701.9833,41.0361,SGGR
1145,331755.1923,1260682.2683,40.5989,SGGR
1146,331747.6059,1260659.4022,40.3645,SGGR
1147,331732.5882,1260671.5808,39.8828,SGGR
1148,331739.5536,1260637.7509,40.3629,SGGR
1149,331757.8664,1260620.5744,42.1578,SGGR
1150,331767.1626,1260643.3755,40.1906,SGGR
1151,331773.8719,1260667.8942,40.3610,SGGR
1152,331770.8814,1260675.1224,40.8529,EVG 8 PINE
1153,331783.0919,1260692.3350,41.1301,SGGR
1154,331792.8621,1260714.3392,41.3678,SGGR
1155,331801.9097,1260736.8891,39.9740,SGGR
1156,331824.6894,1260750.4667,40.2096,SGGR
1157,331820.1089,1260726.1139,40.1084,SGGR
1158,331815.9624,1260706.3008,41.0915,SGGR
1159,331811.1082,1260684.7718,40.0988,SGGR
1160,331805.9493,1260662.4930,40.3129,SGGR
1161,331801.2054,1260642.6005,40.8818,SGGR
1162,331799.6432,1260619.7223,42.4783,SGGR
1163,331782.3560,1260632.4820,41.2343,SGGR
1164,331782.4471,1260661.0574,40.4229,SGGR
1165,331821.0514,1260622.4046,41.7493,SGGR
1166,331828.5348,1260645.9902,40.7016,SGGR
1167,331834.0897,1260668.6971,39.8407,SGGR
1168,331838.9428,1260693.1950,40.0926,SGGR
1169,331845.9730,1260716.7651,40.6627,SGGR
1170,331851.0332,1260738.1182,41.5985,SGGR

1171,331872.8946,1260745.7783,41.9595,SGGR
1172,331870.9078,1260723.1932,41.8411,SGGR
1173,331865.9874,1260699.9686,41.2103,SGGR
1174,331863.0984,1260674.6645,39.8932,SGGR
1175,331857.5245,1260648.1245,39.9824,SGGR
1176,331846.4794,1260625.3220,41.0425,SGGR
1177,331618.4116,1260695.2078,37.0927,SIGN
1178,331618.6326,1260692.5682,37.1539,SIGN
1179,331615.5299,1260722.8417,37.5705,UPDW
1180,331638.3724,1260730.0848,38.1693,UPDW
1181,331664.3104,1260738.5063,38.8177,UPDW
1182,331690.3741,1260745.2868,39.6051,UPDW
1183,331710.9877,1260750.1045,39.8791,UPDW
1184,331735.8095,1260753.4790,40.3858,UPDW
1185,331762.8633,1260757.9991,40.5257,UPDW
1186,331779.8471,1260762.7519,40.9006,UPDW
1187,331802.9515,1260764.7405,40.9398,UPDW
1188,331826.9184,1260766.3528,41.1832,UPDW
1189,331853.1717,1260767.4666,41.3315,UPDW
1190,331879.3034,1260767.5686,41.3910,UPDW
1191,331906.1947,1260767.0422,41.1655,UPDW
1192,331931.8649,1260768.9974,40.8469,UPDW
1193,331926.6934,1260761.3080,41.1772,TREE 10 SYCAMORE
1194,331949.9379,1260770.0546,40.8244,UPDW
1195,331949.7420,1260781.1086,41.1140,UPDW
1196,331930.0257,1260780.1957,41.2710,UPDW
1197,331907.9057,1260779.0573,41.4917,UPDW
1198,331879.2591,1260778.9697,41.4058,UPDW
1199,331854.4627,1260777.7594,41.3442,UPDW
1200,331828.0054,1260780.0544,41.2583,UPDW
1201,331803.7549,1260781.0747,41.2147,UPDW
1202,331792.5933,1260783.5369,41.1521,UPDW
1203,331777.9604,1260804.4633,42.4798,UPDW
1204,331764.2430,1260809.8333,42.0648,UPDW
1205,331759.2608,1260796.1878,41.5566,UPDW
1206,331742.7488,1260782.4533,41.1416,UPDW
1207,331722.2227,1260773.6934,40.9680,UPDW
1208,331698.5064,1260768.5707,40.6467,UPDW
1209,331677.7105,1260762.3272,39.8868,UPDW
1210,331657.7586,1260754.0712,39.3280,UPDW
1211,331637.0676,1260748.9600,38.8773,UPDW
1212,331595.5110,1260703.5626,36.6234,RDNAME
1213,331542.8601,1260719.9311,34.6734,EPR

1214,331557.5558,1260710.1923,35.0413,EPR
1215,331568.6087,1260703.8215,35.3182,EPR
1216,331576.3593,1260701.3019,35.6497,EPR
1217,331580.3060,1260706.1022,35.7346,EPR
1218,331587.3847,1260710.2668,36.2241,EPR
1219,331598.9916,1260723.6397,37.0055,EPR
1220,331605.9297,1260734.9159,37.4734,EPR
1221,331614.7909,1260723.2447,37.5974,EPR
1222,331608.6612,1260708.6515,37.0457,EPR
1223,331605.3327,1260694.4798,36.7262,EPR
1224,331605.1207,1260683.2232,36.6814,EPR
1225,331605.8428,1260679.8413,36.8659,EPR
1226,331608.4650,1260677.3334,36.9042,EPR
1227,331624.3538,1260665.5550,37.8063,EPR
1228,331643.6076,1260652.9892,38.8565,EPR
1280,332063.1466,1260683.4344,36.2499,SGGR GRASS
1281,332060.8002,1260706.1645,36.5957,SGGR
1282,332088.3132,1260698.6129,35.9688,SGGR
1283,332085.7256,1260718.2114,35.7698,SGGR
1284,332086.2256,1260731.7820,37.4578,SGGR
1285,332083.4674,1260748.4864,39.3117,SGGR
1286,332099.5246,1260753.3100,38.5230,SGGR
1287,332107.7385,1260734.7628,37.9635,SGGR
1288,332117.6179,1260719.3445,35.7363,SGGR
1289,332137.3464,1260724.7119,35.3655,SGGR
1290,332083.3421,1260806.5807,40.5659,TB
1291,332079.4403,1260819.0176,44.0387,TB
1292,332077.6675,1260835.1995,45.1259,TB
1293,332075.6346,1260843.7280,46.2899,TB
1294,332066.3155,1260849.8404,48.2500,TB
1295,332047.6917,1260852.3471,48.4409,TB
1296,332023.9759,1260853.9294,49.5993,TB
1297,332004.0936,1260854.4831,50.2940,TB
1298,331978.5639,1260856.4968,51.5834,TB
1299,331950.0803,1260859.0509,51.8360,TB
1300,331932.6704,1260861.3550,52.5869,TB
1301,331909.1212,1260860.3021,53.8975,TB
1302,331884.7927,1260857.3409,54.2533,TB
1303,331867.7165,1260863.6373,54.4527,TB
1304,331858.5658,1260868.8534,54.9974,TB
1305,331849.9559,1260876.4675,55.4023,TB
1306,331851.1351,1260896.7513,56.4150,TB
1307,331854.5500,1260909.6641,57.4673,TB

1308,331861.2766,1260893.7751,56.1753,TB
1309,331878.2448,1260881.1984,54.7229,TB
1310,331892.6407,1260897.0149,57.1862,TB
1311,331911.2958,1260907.7535,58.1952,TB
1312,331865.4977,1260874.5477,52.9702,BD
1313,331885.4151,1260872.1802,52.3751,BD
1314,331905.6881,1260869.8630,52.2500,BD
1315,331930.2025,1260866.6783,51.3488,BD
1316,331949.0372,1260863.4143,50.6701,BD
1317,331972.5746,1260860.7816,49.6557,BD
1318,331991.8502,1260858.6791,49.0799,BD
1319,332007.1474,1260858.0718,48.6230,BD
1320,332026.2353,1260857.3972,47.8341,BD
1321,332048.5359,1260856.4796,47.0263,BD
1322,332058.3759,1260854.0895,46.3253,BD
1323,332061.1624,1260856.5447,47.5995,TD
1324,332067.2814,1260852.8627,44.9641,BD
1325,332067.2721,1260855.6246,47.3132,TD
1326,332077.4564,1260852.0071,46.8012,TD
1327,332076.6561,1260850.0069,43.8647,BD
1328,332080.7621,1260836.9175,42.7144,BD
1329,332083.3153,1260837.6483,45.3113,TD
1330,332087.6908,1260823.1658,42.8447,TD
1331,332086.1357,1260821.5271,40.7460,BD
1332,332087.6568,1260812.1660,39.7154,TD
1333,331953.8982,1260783.8995,41.2516,UPDW
1334,331976.7509,1260786.8352,40.9283,UPDW
1335,331998.7390,1260790.0116,40.8912,UPDW
1336,332018.0698,1260791.8181,40.3514,UPDW
1337,332035.9795,1260792.9579,39.6926,UPDW
1338,332056.8474,1260796.2149,39.3222,UPDW
1339,332072.7754,1260798.6717,38.7640,UPDW
1340,332089.4566,1260788.9094,38.3854,UPDW
1341,332078.3642,1260775.9398,37.9630,UPDW
1342,332057.7807,1260775.6895,38.6731,UPDW
1343,332037.7961,1260775.8507,39.1824,UPDW
1344,332017.4208,1260774.7807,39.8036,UPDW
1345,331998.1777,1260773.2047,40.4067,UPDW
1346,331977.7726,1260771.5209,40.6757,UPDW
1347,331957.1568,1260769.9066,40.8511,UPDW
1348,331991.5947,1260807.3431,42.3945,TOE
1349,331993.2098,1260821.5689,43.4768,TOE
1350,331997.7699,1260833.6629,44.6400,TOE

1351,332003.4209,1260829.1435,43.5597,TOE
1352,332003.7767,1260813.0959,42.2363,TOE
1353,332007.6576,1260805.4559,42.2130,TOE
1354,332022.1374,1260798.2467,40.6702,TOE
1355,332038.0829,1260796.3636,39.8815,TOE
1356,332059.0074,1260813.3855,44.3096,TB
1357,332033.1967,1260809.2192,45.4364,TB
1358,332017.5577,1260813.6869,45.6499,TB
1359,332010.1605,1260824.1386,45.2154,TB
1360,332041.8439,1260828.3804,44.8686,SGGR
1361,332073.9540,1260822.1158,43.8595,TOE
1362,332062.8370,1260837.0225,44.8497,TOE
1363,332048.5809,1260838.8243,45.2540,TOE
1364,332028.6319,1260839.8196,45.7603,TOE
1365,332011.2516,1260839.7078,46.0503,TOE
1366,331986.7019,1260840.2488,47.6424,TOE
1367,331961.4356,1260835.9178,48.6285,TOE
1368,331939.0363,1260833.9682,49.4039,TOE
1369,331914.4322,1260833.9580,49.6505,TOE
1370,331891.9251,1260831.3834,48.7536,TOE
1371,331870.6433,1260832.1901,49.2500,TOE
1372,331850.0259,1260831.6165,48.6106,TOE
1373,331826.4168,1260828.3232,48.0180,TOE
1374,331806.4228,1260828.5371,48.5264,TOE
1375,331800.4891,1260816.7811,48.3873,TB
1376,331798.6302,1260803.9719,47.5039,TB
1377,331805.9038,1260803.7106,47.2337,TB
1378,331822.4056,1260801.3506,45.8456,WOOD
1379,331833.4135,1260808.1210,46.4153,WOOD
1380,331826.6629,1260821.4881,47.6031,WOOD
1381,331811.0619,1260822.2015,48.1210,WOOD
1382,331800.8481,1260808.4153,48.0869,WOOD
1383,331808.5315,1260834.5125,50.2814,TB
1384,331823.3446,1260842.2134,52.3864,TB
1385,331835.7444,1260845.7149,54.8954,TB
1386,331856.1238,1260844.6765,55.0301,TB
1387,331879.1569,1260846.8561,54.4006,TB
1388,331902.6449,1260846.5248,53.3582,TB
1389,331927.9594,1260847.0791,52.3638,TB
1390,331949.8877,1260845.3816,51.6620,TB
1391,331980.9356,1260846.3897,50.5306,TB
1392,332001.3274,1260848.1523,49.6666,TB
1393,332021.1955,1260848.5643,49.5985,TB

1394,332041.2417,1260846.6585,48.3210,TB
1395,332059.5282,1260844.6691,47.3796,WOOD
1396,332074.2494,1260824.9593,45.0901,WOOD
1397,332053.7554,1260817.9711,44.7667,WOOD
1398,332030.8828,1260816.9965,45.5722,WOOD
1399,332043.7442,1260831.3644,44.8475,SGGR
1400,331995.0466,1260817.6578,42.9699,SGGR
1401,331997.7006,1260802.2479,41.6403,SGGR
1402,331975.3397,1260799.5664,43.2341,SGGR
1403,331969.4444,1260821.4561,46.8082,SGGR
1404,331946.9697,1260821.3852,47.5866,SGGR
1405,331948.3546,1260802.2402,44.8813,SGGR
1406,331926.1230,1260800.9092,44.1095,SGGR
1407,331924.1240,1260822.6853,48.3858,SGGR
1408,331901.7992,1260821.6855,48.6880,SGGR
1409,331903.1618,1260802.4743,45.5185,SGGR
1410,331881.0119,1260801.6278,45.5338,WOOD
1411,331875.5276,1260821.5853,48.1224,WOOD
1412,331855.9004,1260810.1909,46.5954,WOOD
1413,331868.3692,1260794.0697,44.6272,WOOD
1414,331838.9127,1260816.7236,47.5040,SGGR
1415,331925.0163,1260851.1156,52.5191,SGGR
1416,332105.8676,1260824.7674,42.4788,SGGR
1417,332124.1739,1260830.2720,42.7775,SGGR
1418,332147.3202,1260836.5807,41.8650,SGGR
1419,332170.8124,1260837.5001,42.5713,SGGR
1420,332190.5264,1260839.0269,43.6973,SGGR
1421,332204.1525,1260841.9382,43.2644,SGGR
1422,332205.7090,1260819.4402,41.9288,SGGR
1423,332214.1626,1260802.1725,39.4211,SGGR
1424,332220.1922,1260787.1725,38.0581,SGGR
1425,332236.5280,1260793.3768,37.2799,SGGR
1426,332233.6368,1260779.6167,36.8176,UPDW
1427,332219.2191,1260770.5368,36.7605,UPDW
1428,332221.3070,1260753.0368,35.5837,UPDW
1429,332216.1010,1260738.5160,35.0219,UPDW
1430,332204.2276,1260755.5543,35.8655,SGGR
1431,332193.7817,1260771.6358,37.1102,SGGR
1432,332183.5561,1260791.1246,38.5479,WOOD
1433,332187.9474,1260810.5669,42.0045,WOOD
1434,332180.4293,1260819.0386,43.0835,WOOD
1435,332170.9821,1260809.7309,40.3498,WOOD
1436,332178.2593,1260798.9310,39.4512,WOOD

1437,332191.8427,1260810.8528,42.1672,METFEN 4 CHAIN LINK
1438,332197.1463,1260801.6948,40.5129,METFEN
1439,332150.6808,1260808.4119,39.7094,SGGR
1440,332159.7156,1260791.8683,38.0438,SGGR
1441,332166.4268,1260772.3235,36.4921,SGGR
1442,332174.4223,1260756.4513,36.2191,SGGR
1443,332196.2346,1260895.6159,53.5398,WOOD
1444,332179.4061,1260905.0383,56.4000,WOOD
1445,332163.3157,1260914.0265,60.2516,WOOD
1446,332148.5170,1260920.7335,63.1208,WOOD
1447,332136.1645,1260914.5019,64.2929,TREE 15 MAPLE
1448,332165.2404,1260926.0606,63.1606,TREE 20 LOCUST
1449,332209.2039,1260905.1677,51.8716,SGGR WOODS
1450,332220.3772,1260921.8670,51.8784,SGGR
1451,332225.6157,1260902.6740,46.9392,SGGR
1452,332213.9056,1260886.3743,46.9373,SGGR
1453,332187.2455,1260938.7392,62.0386,SGGR WOODS
1454,332195.9679,1260957.3327,63.5549,SGGR
1455,332181.2277,1260956.7970,65.2584,SGGR
1456,332170.2131,1260944.9351,64.5586,SGGR
1457,332164.8791,1260961.5515,67.0692,SGGR
1458,332175.5504,1260975.6690,67.9096,SGGR
1459,332156.5437,1260946.6218,65.9402,SGGR
1460,332180.5328,1260984.2578,68.4179,SGGR
1461,332199.0119,1260975.6292,65.8767,SGGR
1462,332144.6793,1260930.2287,65.7266,WOOD
1463,332132.8506,1260939.6395,67.2587,WOOD
1464,332125.5108,1260957.7004,70.5928,WOOD
1465,332120.8119,1260974.2248,72.9205,WOOD
1466,332085.5140,1261013.1043,76.3204,WOOD
1467,332082.1567,1261001.3425,76.0412,WOOD
1468,332063.2307,1261011.0517,76.2983,WOOD
1469,332042.3484,1261019.4023,76.2552,WOOD
1470,332022.8027,1261028.8054,76.8050,WOOD
1471,332004.6351,1261035.9667,77.0658,WOOD
1472,331985.1668,1261047.1097,77.2529,WOOD
1473,331967.3411,1261053.8433,77.1797,WOOD
1474,331944.2871,1261062.5375,77.3777,WOOD
1475,331922.9788,1261062.4870,76.9164,WOOD
1476,331900.8401,1261070.6133,76.8480,WOOD
1477,331905.2749,1261049.6330,75.5613,TB
1478,331917.8450,1261037.3330,74.4189,TB
1479,331932.0212,1261045.1716,76.5915,SGGR

1480,331925.7014,1261020.0183,73.9539,TB
1481,331928.5823,1260996.2838,71.4146,TB
1482,331929.9972,1260981.4763,70.4690,TB
1483,331933.8232,1260963.6719,69.2365,TB
1484,331936.2482,1260953.9469,67.6105,TB
1485,331923.5660,1260887.3250,59.0383,SGGR
1486,331935.3343,1260883.0134,55.9502,SGGR
1487,331966.3109,1260879.7320,56.0438,SGGR
1488,331956.9219,1260876.2870,56.0552,SGGR
1489,331985.7795,1260876.3044,54.0914,SGGR
1490,332006.3479,1260874.9713,53.7468,SGGR
1491,332023.6965,1260875.0191,53.5186,SGGR
1492,332044.1786,1260872.6047,51.8253,SGGR
1493,332060.0961,1260871.9428,52.0897,SGGR
1494,332081.2511,1260866.8333,50.2164,SGGR
1495,332105.4954,1260866.0863,50.3232,SGGR
1496,332127.8520,1260866.7706,49.8176,SGGR
1497,332114.2990,1260849.4143,46.1979,SGGR
1498,332135.6333,1260853.3640,46.3272,SGGR
1499,332156.5486,1260857.4814,44.7529,SGGR
1500,332178.8337,1260864.9446,45.2148,SGGR
1501,332171.8342,1260879.0357,50.0555,SGGR
1502,332151.1092,1260874.1173,49.6971,SGGR
1503,332164.4536,1260895.1976,54.9969,SGGR
1504,332146.7281,1260891.5257,55.1999,SGGR
1505,332128.2048,1260884.7473,55.0533,SGGR
1506,332109.9564,1260883.1999,54.9907,SGGR
1507,332089.9157,1260884.4965,55.5069,SGGR
1508,332069.9915,1260888.5868,56.9661,SGGR
1509,332048.3779,1260888.1217,56.8932,SGGR
1510,332024.5214,1260889.1344,58.0854,SGGR
1511,332005.8498,1260895.9460,61.0291,SGGR
1512,331986.4662,1260897.7895,61.7480,SGGR
1513,331966.8378,1260899.8462,61.9066,SGGR
1514,331945.7082,1260899.0507,62.5826,SGGR
1515,331941.4278,1260928.2240,65.8714,SGGR
1516,331969.9042,1260927.7979,66.7427,SGGR
1517,331989.6795,1260923.1251,67.1999,SGGR
1518,332007.7944,1260918.7083,66.5219,SGGR
1519,332023.4212,1260915.9822,65.6080,SGGR
1520,332041.7563,1260912.1666,64.3585,SGGR
1521,332058.4052,1260910.3954,63.1605,SGGR
1522,332077.2370,1260908.4677,62.4728,SGGR

1523,332096.7632,1260905.9930,61.3703,SGGR
1524,332119.4763,1260904.9096,60.8544,SGGR
1525,332136.4130,1260907.9325,61.9082,SGGR
1526,332122.4176,1260923.3457,64.7334,SGGR
1527,332102.8783,1260929.0759,66.5820,SGGR
1528,332082.4994,1260931.8244,67.3944,SGGR
1529,332062.8847,1260927.4138,67.0956,SGGR
1530,332045.7948,1260930.7411,68.6145,SGGR
1531,332025.5451,1260935.3465,69.8853,SGGR
1532,332006.4808,1260947.7426,70.9092,SGGR
1533,331986.6833,1260956.9616,71.3062,SGGR
1534,331968.7028,1260957.5808,70.2704,SGGR
1535,331953.8534,1260973.1338,71.0936,SGGR
1536,331950.8197,1260990.2179,72.9528,SGGR
1537,331968.3856,1260985.8963,73.1848,SGGR
1538,331987.8755,1260980.5033,73.5402,SGGR
1539,332007.7564,1260974.1962,73.7944,SGGR
1540,332027.5204,1260966.9196,73.2798,SGGR
1541,332046.5339,1260958.2159,72.3137,SGGR
1542,332061.8393,1260955.2761,71.6897,SGGR
1543,332080.7509,1260953.4747,70.8815,SGGR
1544,332101.7917,1260949.6665,69.6776,SGGR
1545,332120.8024,1260945.4093,68.4311,SGGR
1546,332108.0287,1260962.4929,71.7123,SGGR
1547,332098.9388,1260981.1498,74.0448,SGGR
1548,332087.9257,1260968.5066,72.6865,SGGR
1549,332068.1639,1260974.8190,73.8059,SGGR
1550,332047.9310,1260980.1983,74.6010,SGGR
1551,332029.0682,1260992.7831,75.2727,SGGR
1552,332006.5798,1261002.2121,75.8917,SGGR
1553,331989.1530,1261005.1163,75.6223,SGGR
1554,331973.1978,1261010.9646,75.3771,SGGR
1555,331957.2180,1261012.1378,75.0677,SGGR
1556,331946.3564,1261026.0418,75.5810,SGGR
1557,331926.6133,1261049.8088,76.7798,SGGR
1558,331948.9655,1261043.6746,76.7915,SGGR
1559,331971.5042,1261034.8408,76.7608,SGGR
1560,331991.9391,1261024.6087,76.4618,SGGR
1561,332019.6081,1261015.0251,76.4495,SGGR
1562,332039.6102,1261006.4287,76.3257,SGGR
1563,332058.0831,1260997.9902,75.7246,SGGR
1564,332080.4799,1260990.3572,75.4376,SGGR
1566,332216.2992,1260737.8331,35.0505,EPR

1567,332220.9092,1260729.6434,35.0464,CLPR
1568,332202.3653,1260719.6921,35.0252,CLPR
1569,332197.3401,1260727.3538,35.0158,EPR
1570,332180.0988,1260717.8211,34.9052,EPR
1571,332184.2406,1260710.0722,35.0127,CLPR
1572,332167.9246,1260701.2708,35.1169,CLPR
1573,332163.4998,1260709.3305,35.0627,EPR
1574,332145.5151,1260699.7602,35.0430,EPR
1575,332149.7617,1260691.5735,35.1715,CLPR
1576,332133.4346,1260682.5921,35.2247,CLPR
1577,332127.9422,1260690.6093,34.9623,EPR
1578,332110.4282,1260681.4452,35.0518,EPR
1579,332114.8456,1260672.6948,35.3730,CLPR
1580,332098.2167,1260664.6396,35.5347,CLPR
1581,332094.1016,1260673.6633,35.3829,EPR
1582,332076.0617,1260665.5842,35.6133,EPR
1583,332079.8054,1260656.4636,35.7233,CLPR
1584,332063.5043,1260649.7848,35.9643,CLPR
1585,332059.7838,1260658.7818,35.7510,EPR
1586,332043.0500,1260652.7240,35.6151,EPR
1587,332046.1490,1260643.5561,36.2214,CLPR
1588,332025.2509,1260636.7155,36.6995,CLPR
1589,332022.1993,1260645.7025,36.1096,EPR
1590,332000.9111,1260639.7484,36.7162,EPR
1591,332003.5247,1260630.3261,37.3350,CLPR
1592,331981.3829,1260624.4000,37.9987,CLPR
1593,331978.7084,1260633.6205,37.4348,EPR
1594,331957.6050,1260629.0661,38.2143,EPR
1595,331960.0804,1260619.4791,38.6328,CLPR
1596,331937.9900,1260614.8264,39.3340,CLPR
1597,331935.9108,1260624.4415,38.9232,EPR
1598,331915.4251,1260619.4003,39.7040,EPR
1599,331917.6083,1260609.7332,40.1366,CLPR
1600,331895.1443,1260602.8474,41.1116,CLPR
1601,331891.7803,1260612.3726,40.6629,EPR
1602,331873.7290,1260606.0632,41.3865,EPR
1603,331877.0436,1260596.6373,41.9112,CLPR
1604,331857.0275,1260589.5704,42.6672,CLPR
1605,331853.4584,1260598.6011,42.1929,EPR
1606,331829.9077,1260590.6509,42.9558,EPR
1607,331832.5825,1260581.5258,43.5217,CLPR
1608,331809.1325,1260576.5945,44.0956,CLPR
1609,331807.7796,1260585.8214,43.4253,EPR

1610,331785.6366,1260584.4864,43.8078,EPR
1611,331785.1591,1260575.8123,44.4049,CLPR
1612,331763.0066,1260578.6290,44.4709,CLPR
1613,331765.1034,1260587.5861,43.8213,EPR
1614,331743.6897,1260593.1451,43.6019,EPR
1615,331740.8475,1260584.8541,44.2584,CLPR
1616,331720.7828,1260593.3545,43.8024,CLPR
1617,331725.5705,1260601.2927,43.2303,EPR
1618,331709.3636,1260610.5930,42.5792,EPR
1619,331704.0265,1260602.3654,43.2399,CLPR
1620,331684.5406,1260614.4499,42.2492,CLPR
1621,331689.9273,1260622.8855,41.5765,EPR
1622,331671.6749,1260634.8359,40.4764,EPR
1623,331665.6742,1260626.8004,41.1999,CLPR
1624,331648.4334,1260638.0919,40.0606,CLPR
1625,331655.1091,1260645.4258,39.5024,EPR
1626,331643.1218,1260630.0190,39.8521,EPR
1627,331660.3435,1260618.3753,40.9260,EPR
1628,331679.1768,1260605.6976,42.3326,EPR
1629,331698.5789,1260593.5540,43.3575,EPR
1630,331715.8380,1260583.6581,44.0272,EPR
1631,331736.5661,1260573.5781,44.4493,EPR
1632,331759.6437,1260567.1568,44.8043,EPR
1633,331782.9951,1260564.2980,44.6765,EPR
1634,331809.3710,1260565.0076,44.3050,EPR
1635,331834.3242,1260570.8765,43.7518,EPR
1636,331860.1067,1260579.4785,42.8691,EPR
1637,331880.2948,1260586.9340,42.0186,EPR
1638,331897.7612,1260593.1082,41.1834,EPR
1639,331918.2505,1260599.7407,40.4336,EPR
1640,331939.0994,1260604.7898,39.6661,EPR
1641,331960.3751,1260609.0293,38.9332,EPR
1642,331982.8822,1260613.9180,38.1671,EPR
1643,332004.8201,1260619.3150,37.5242,EPR
1644,332027.5182,1260625.9157,36.8918,EPR
1645,332050.2509,1260633.3272,36.3728,EPR
1646,332067.5998,1260639.7266,35.9990,EPR
1647,332084.3851,1260646.6129,35.6845,EPR
1648,332103.0221,1260655.3669,35.4479,EPR
1649,332119.7326,1260663.5187,35.2946,EPR
1650,332139.0765,1260673.5057,35.0752,EPR
1651,332155.0483,1260682.0910,34.8888,EPR
1652,332172.9471,1260691.7545,34.8227,EPR

1653,332189.7964,1260701.0760,34.7331,EPR
1654,332206.8901,1260710.1908,34.5887,EPR
1655,332224.9454,1260719.9146,34.6245,EPR
1656,332233.4955,1260701.9262,33.1136,SGGR GRASS
1658,331628.9708,1260639.0870,38.8235,EPR
1659,331635.0127,1260647.1576,39.1738,CLPR
1660,331617.5141,1260658.7924,37.9953,CLPR
1661,331612.2349,1260651.1513,37.6970,EPR
1662,331595.1732,1260662.3351,36.7967,EPR
1663,331599.4691,1260670.9530,36.9815,CLPR
1664,331583.4746,1260681.3414,36.3493,CLPR
1665,331585.2544,1260678.6064,36.4145,RDNAME
1666,331580.3372,1260671.9003,36.2287,EPR
1667,331564.7787,1260675.6145,35.5178,EPR
1668,331557.7525,1260660.6015,34.6561,PDW
1669,331542.6059,1260689.4980,34.8965,PJ
1670,331527.4654,1260699.3058,34.4932,PJ
1671,331568.8207,1260691.1153,35.9451,CLPR
1672,331551.7474,1260702.3067,35.4933,CLPR
1673,331537.1678,1260711.9081,35.0871,CLPR
1674,331521.6815,1260690.8471,34.1658,SGPV GRAVEL
1675,331514.9230,1260675.6151,33.9557,SGPV
1676,331532.4751,1260665.2518,34.3345,SGPV
1677,331547.8140,1260656.7065,34.5038,SGPV
1678,331554.6012,1260670.1871,34.9069,SGPV
1679,331541.6746,1260679.0587,34.7231,SGPV
1680,331597.4950,1260644.8999,34.1668,BLDG 1 STORY ALUMINUM
1681,331557.7227,1260660.3749,34.6334,BLDG
1682,331562.7112,1260658.7756,33.8210,PORCH
1683,331565.1487,1260664.3562,33.7902,PORCH
1684,331569.6395,1260662.5185,33.6785,PORCH
1685,331567.4817,1260656.9307,33.6445,PORCH
1686,331574.8447,1260653.9408,33.7578,PORCH
1687,331578.5756,1260663.2250,33.9958,PORCH
1688,331580.4086,1260667.7424,35.3348,PORCH
1689,331584.7499,1260665.8273,35.4160,PORCH
1690,331583.0835,1260661.1722,34.1264,PORCH
1691,331579.7296,1260652.1240,33.4710,PORCH
1692,331593.0828,1260646.8814,34.0212,PORCH
1693,331595.0434,1260652.1665,34.3188,PORCH
1694,331597.3115,1260658.0451,35.9622,PORCH
1695,331601.5963,1260656.3005,36.8442,PORCH
1696,331599.5977,1260650.3738,34.5358,PORCH

1697,331597.5706,1260645.1115,33.8708,PORCH
1698,331601.5248,1260631.9265,33.9136,TOE
1699,331607.3255,1260631.3699,35.4363,TB
1700,331611.3261,1260642.1176,37.1199,TB
1701,331605.4056,1260642.0673,34.5803,TOE
1702,331605.3850,1260647.3093,34.9763,TOE
1703,331600.9966,1260650.9174,34.8056,TOE
1704,331611.7406,1260647.5324,37.5297,TB
1705,331603.6744,1260655.1774,37.0948,TB
1706,331597.3072,1260651.1346,36.7981,MISCPT
1707,331596.0295,1260655.6503,34.8570,TOE
1708,331597.1096,1260659.8059,36.7154,TB
1709,331584.1624,1260661.4091,34.3038,TOE
1710,331585.9506,1260666.6185,36.2671,TB
1711,331580.0857,1260669.8307,36.1327,TB
1712,331578.4637,1260664.8400,34.0903,TOE
1713,331579.6066,1260659.0940,36.4194,MISCPT
1714,331569.6374,1260670.0776,34.1954,TOE
1715,331570.5204,1260673.8163,35.6818,TB
1716,331563.4111,1260670.2934,34.9412,TB
1717,331563.9001,1260665.9333,33.9562,TOE
1718,331563.6321,1260741.8624,35.0929,POST
1719,331576.3174,1260732.2635,35.6444,BOLL
1720,331579.2412,1260733.6387,35.6260,BOLL
1721,331580.7510,1260730.6744,35.7753,BOLL
1722,331578.0087,1260729.1031,35.6332,BOLL
1723,331580.4967,1260732.2878,35.7037,CONC
1724,331577.6761,1260733.3001,35.5367,CONC
1725,331576.6148,1260730.4937,35.5293,CONC
1726,331579.4424,1260729.4524,35.6460,CONC
1727,331578.4863,1260731.1681,36.1249,WELL
1728,331584.7804,1260714.1704,35.8117,SIGN
1735,332237.5523,1260693.2048,33.0740,SGGR GRASS
1736,332226.2435,1260707.9413,33.7734,POST
1737,332230.4533,1260709.2902,34.9502,PINV
1738,332226.4995,1260707.1686,34.9983,PINV
1739,332215.3415,1260701.5662,35.1907,PINV
1740,332214.8411,1260702.2976,33.5264,POST
1741,332223.5244,1260685.6164,33.0951,SGGR
1742,332212.7402,1260680.7582,33.0984,SGGR
1743,332205.2604,1260697.5399,33.7151,POST
1744,332205.5411,1260696.9810,35.5550,PINV
1745,332195.0285,1260691.6937,35.8556,PINV

1746,332194.7427,1260692.3898,33.7273,POST
1747,332182.7886,1260686.4492,33.8798,POST
1748,332183.0778,1260685.8890,36.2494,PINV
1749,332190.2279,1260671.0042,33.2737,SGGR
1750,332172.9947,1260681.5528,33.8276,POST
1751,332173.4042,1260680.8017,36.5118,PINV
1752,332160.6704,1260674.6708,36.7669,PINV
1753,332160.3174,1260675.2998,34.0923,POST
1754,332158.7300,1260673.6839,36.8182,PINV
1755,332162.5195,1260665.7260,36.9476,PINV
1756,332167.9852,1260658.4886,33.4151,SGGR
1757,332159.7573,1260665.0905,34.1572,POST
1758,332157.1591,1260662.9172,37.0790,PINV
1759,332153.1931,1260670.8651,37.0731,PINV
1760,332151.5884,1260671.0331,34.1938,POST
1761,332139.8902,1260665.3094,34.3536,POST
1762,332140.1902,1260664.7173,37.3539,PINV
1763,332147.1171,1260652.0303,33.4297,SGGR
1764,332131.8886,1260660.4955,37.6476,PINV
1765,332131.5066,1260661.0729,36.4611,POST
1766,332121.3314,1260656.0635,36.8266,POST
1767,332121.7922,1260655.5286,39.9436,PINV
1768,332127.6374,1260643.1042,33.4139,SGGR
1769,332118.6204,1260648.2946,34.3315,CONC
1770,332119.7263,1260645.2260,34.0514,CONC
1771,332116.6279,1260644.3134,34.0558,CONC
1772,332115.6758,1260647.4166,34.4130,CONC
1773,332117.2275,1260648.3484,34.5431,BOLL
1774,332119.5367,1260647.2567,34.1722,BOLL
1775,332118.2669,1260644.1457,33.9934,BOLL
1776,332115.5314,1260645.8223,34.3644,BOLL
1777,332117.9971,1260646.3844,34.6004,WELL
1778,332112.1736,1260651.5298,35.0842,POST
1779,332112.4532,1260650.9480,38.1041,PINV
1780,332101.2430,1260645.6133,38.4331,PINV
1781,332100.9633,1260646.1900,35.2293,POST
1782,332107.7362,1260633.3411,33.3787,SGGR
1783,332089.3972,1260640.6365,35.3349,POST
1784,332089.7453,1260639.9192,38.7633,PINV
1785,332079.0468,1260634.5776,39.0519,PINV
1786,332078.9087,1260635.3315,35.7648,POST
1787,332085.4565,1260621.9438,33.4021,SGGR
1788,332067.7805,1260629.8436,35.4483,POST

1789,332067.0099,1260628.6123,39.3874,PINV
1790,332057.6227,1260624.0334,39.6423,PINV
1791,332057.3753,1260624.6472,35.5124,POST
1792,332064.4719,1260610.5807,33.3556,SGGR
1793,332052.6655,1260621.5270,39.7750,PINV
1794,332046.6957,1260620.2390,39.9287,PINV
1795,332046.4251,1260620.9680,35.8107,POST
1796,332047.7148,1260605.2776,33.4017,TB
1797,332042.4514,1260618.7305,35.4099,TB
1798,332029.3223,1260616.9402,36.0628,TB
1799,332022.2789,1260614.9435,36.1609,TB
1800,332021.4314,1260599.5997,34.0841,TB
1801,332041.4214,1260595.9084,32.8565,CONC
1802,332040.9492,1260610.4791,33.1229,CONC
1803,332031.9390,1260610.0909,33.2556,CONC
1804,332035.0612,1260603.0145,33.5138,TRANS
1805,332033.9527,1260618.0301,40.2376,PINV
1806,332033.8251,1260618.6752,36.2805,POST
1807,332028.2832,1260616.9870,40.2808,PINV
1808,332028.4915,1260601.6284,40.2948,PINV
1809,332029.1886,1260601.8178,33.3770,POST
1810,332029.0574,1260609.2169,33.5763,POST
1811,332029.1847,1260614.2394,35.6169,POST
1812,332022.3401,1260615.7668,40.5053,PINV
1813,332022.1433,1260616.4863,36.7325,POST
1814,332018.6862,1260600.9206,34.3734,SGGR
1815,332010.4850,1260614.4271,37.0313,POST
1816,332010.6205,1260613.6929,40.7736,PINV
1817,331999.4239,1260611.6588,41.0279,PINV
1818,331999.2791,1260612.5097,37.4940,POST
1819,331999.6346,1260597.1001,34.8763,SGGR
1820,331990.2235,1260610.9182,37.7119,POST
1821,331990.3517,1260610.1981,41.2577,POST
1822,331978.3285,1260607.8470,41.5250,PINV
1823,331978.1939,1260608.7075,38.1845,POST
1824,331977.2918,1260594.6668,36.1806,SGGR
1825,331969.8334,1260606.8900,38.7104,POST
1826,331970.0613,1260606.3890,41.7649,PINV
1827,331958.4801,1260604.3769,42.0382,PINV
1828,331958.5186,1260604.9179,39.2223,POST
1829,331967.7333,1260588.2547,36.1432,UKP
1830,331946.9196,1260602.0173,42.3649,PINV
1831,331946.6945,1260602.6362,39.6409,POST

1832,331938.6519,1260603.2743,39.5480,TB
1833,331944.4428,1260599.7849,39.2355,TB
1834,331948.0891,1260595.1929,39.2007,TB
1835,331954.3792,1260595.1005,38.4461,TB
1836,331936.9494,1260572.2298,30.6880,BLDG
1837,331934.4898,1260582.0296,30.8962,BLDG METAL CAT WALK
1838,331945.5641,1260584.5444,32.7800,PGL
1839,331956.8694,1260587.6207,36.3760,PGL
1840,331956.0266,1260590.9823,36.5578,PGL
1841,331946.3875,1260588.8391,35.4031,PGL
1842,331940.0720,1260587.2848,31.7282,PGL
1843,331924.1964,1260583.4863,31.3360,PGL
1844,331906.7682,1260579.2644,31.9904,PGL
1845,331897.4767,1260577.1162,32.3362,PGL
1846,331898.3890,1260573.6394,32.6018,PGL
1847,331892.6963,1260572.2494,32.5744,BLDG
1848,331889.0842,1260570.7974,32.5696,TOE
1849,331891.5069,1260577.1802,33.5034,TOE
1850,331909.1219,1260583.6922,32.4327,TOE
1851,331926.9110,1260588.7474,31.9676,TOE
1852,331937.0981,1260589.5269,31.7161,TOE
1853,331937.8129,1260587.0715,31.2616,TOE
1854,331938.7682,1260593.4627,33.4212,MISCPT
1855,331935.4849,1260600.1684,42.5626,PINV
1856,331933.1993,1260599.6143,42.6687,PINV
1857,331934.4269,1260600.6871,38.7520,POST
1858,331936.7157,1260593.6264,41.9242,PINV
1859,331936.8661,1260592.8835,33.9708,PINV
1860,331938.0028,1260587.1320,33.9264,PINV
1861,331914.3327,1260597.1586,40.1703,TB
1862,331898.3832,1260591.4434,40.9242,TB
1863,331880.4774,1260585.2230,41.7088,TB
1864,331875.0968,1260582.0165,42.3969,TB
1865,331874.8438,1260577.0062,42.5310,TB
1866,331877.3422,1260566.2656,40.8366,TB
1867,331873.7421,1260576.6842,42.7032,UKP
1868,331922.6813,1260598.7042,39.2992,POST
1869,331911.6766,1260595.6856,40.1206,POST
1870,331899.6048,1260591.0719,40.8363,POST
1871,331889.0174,1260586.7993,40.9126,POST
1872,331877.5366,1260582.2848,42.2083,POST
1873,331866.4930,1260578.0206,42.8550,POST
1874,331855.6644,1260573.6874,43.0191,POST

1875,331844.2277,1260569.8054,43.2296,POST
1876,331833.9994,1260565.6089,43.1581,POST
1877,331824.7255,1260562.1321,43.5462,POST
1878,331813.3660,1260557.9831,43.7275,POST
1879,331802.3616,1260553.4801,43.7924,POST
1880,331791.2842,1260549.2159,43.3663,POST
1881,331779.8541,1260544.8625,43.2439,POST
1882,331772.5658,1260534.0374,41.8832,POST
1883,331768.5594,1260546.3558,43.2707,POST
1884,331758.2863,1260552.4665,43.5306,POST
1885,331748.1859,1260558.6144,43.9790,POST
1886,331748.0300,1260557.7662,45.7878,PINV
1887,331763.7091,1260548.2305,45.6590,PINV
1888,331770.4486,1260544.2761,45.6060,PINV
1889,331769.2374,1260535.5606,45.5664,PINV
1890,331774.8807,1260534.3246,45.4739,PINV
1891,331776.8559,1260542.7542,45.5101,PINV
1892,331794.6985,1260549.6699,45.1851,PINV
1893,331815.1763,1260557.5761,44.9427,PINV
1894,331835.3590,1260565.3165,44.6835,PINV
1895,331857.5557,1260573.9807,44.3773,PINV
1896,331877.1502,1260581.3067,44.0361,PINV
1897,331895.2374,1260588.3228,43.6047,PINV
1898,331909.6844,1260593.9281,43.2755,PINV
1899,331917.0856,1260596.7572,43.0477,PINV
1900,331928.0586,1260598.7791,42.6954,PINV
1902,331737.6366,1260564.0978,45.7048,PINV
1903,331743.0521,1260566.3517,44.7507,WV
1904,331743.4092,1260563.5382,43.9375,FH
1905,331724.2258,1260572.0906,45.6106,PINV
1906,331703.7139,1260584.2520,44.8073,PINV
1907,331681.7006,1260597.2690,43.5641,PINV
1908,331662.4670,1260609.4870,42.6167,PINV
1909,331642.7943,1260621.4360,41.5688,PINV
1910,331625.0777,1260632.0069,40.6723,PINV
1911,331611.0978,1260640.6063,39.8005,PINV
1912,331623.4567,1260635.8215,38.0767,SIGN
1913,331614.5351,1260639.2423,37.6835,POST
1914,331624.8794,1260632.9888,38.3507,POST
1915,331634.9403,1260626.9171,38.9208,POST
1916,331645.2987,1260620.6349,39.7256,POST
1917,331655.7234,1260614.4031,40.3992,POST
1918,331666.0184,1260608.2717,41.2700,POST

1919,331676.3302,1260602.0387,42.2191,POST
1920,331686.6957,1260595.8100,42.7464,POST
1921,331696.5910,1260589.7134,43.2812,POST
1922,331706.7476,1260583.7618,43.7337,POST
1923,331717.3135,1260577.2712,44.0473,POST
1924,331727.5604,1260571.1248,44.0707,POST
1925,331737.4174,1260565.0529,44.0037,POST
1926,331712.9548,1260569.7463,43.3539,WV
1927,331791.3396,1260535.0160,41.5512,SGGR
1928,331858.0272,1260544.2948,38.3395,SGGR
1929,331872.8535,1260546.5881,37.5058,SGGR
1930,331867.8793,1260561.4850,40.7480,SGGR
1931,331847.3156,1260556.9155,41.4493,SGGR
1932,331857.5009,1260521.8910,35.9453,WOOD
1933,331830.4019,1260522.2042,38.0769,WOOD
1934,331804.0646,1260523.5505,39.8912,WOOD
1935,331784.7770,1260525.0392,40.8178,WOOD
1936,331761.0930,1260525.1673,41.0096,WOOD
1937,331739.6864,1260527.9329,40.7998,WOOD
1938,331730.4671,1260538.0006,42.4049,WOOD
1939,331721.1954,1260544.0808,41.7961,WOOD
1940,331700.3883,1260541.3786,40.0209,WOOD
1941,331691.0502,1260551.3170,39.6721,WOOD
1942,331680.9771,1260545.0789,38.9261,WOOD
1943,331696.3023,1260564.3409,41.6274,SGGR
1944,331698.6743,1260572.8753,42.1315,WOOD
1945,331702.5468,1260577.0103,42.4339,WOOD
1946,331687.7787,1260583.3599,41.4310,WOOD
1947,331667.2214,1260580.8795,39.6544,WOOD
1948,331665.4658,1260572.2656,38.2015,WOOD
1949,331678.5149,1260572.9955,39.5318,WOOD
1950,331691.4050,1260570.7753,41.3603,WOOD
1951,331697.4742,1260572.3974,42.1272,WOOD
1952,331723.5568,1260557.9888,42.6626,SGGR
1953,331741.8424,1260548.3400,42.6177,SGGR
1954,331764.2657,1260541.4801,42.5937,SGGR
1955,331777.9130,1260553.7457,43.6888,SGGR
1956,331773.5631,1260549.2259,43.4937,CONC
1957,331774.6311,1260552.0488,43.7909,CONC
1958,331771.6974,1260553.0427,43.8682,CONC
1959,331770.7611,1260550.2136,43.4833,CONC
1960,331772.4942,1260550.8521,44.0120,WELL
1961,331771.9751,1260548.7704,43.4116,BOLL

1962,331770.4478,1260551.8578,43.7061,BOLL
1963,331773.3326,1260552.9045,43.9762,BOLL
1964,331774.6340,1260550.4085,43.7117,BOLL
1965,331808.5756,1260543.0079,41.9311,SGGR
1966,331834.2394,1260548.9759,41.2123,SGGR
1967,331996.9670,1260702.2238,37.6140,POST
1969,331578.1860,1260706.1308,35.4683,TD
1970,331565.0746,1260707.4364,35.0544,TD
1971,331552.6038,1260717.8965,34.5627,TD
1972,331542.7002,1260725.5470,34.0500,TD
1973,331571.8283,1260711.8936,34.9211,TD
1974,331560.9403,1260727.0942,34.6778,TD
1975,331551.1699,1260736.0944,34.0668,TD
1976,331548.8624,1260734.4380,33.3481,BD
1977,331545.7919,1260731.8932,33.2604,BD
1978,331556.2115,1260720.1753,33.5580,BD
1979,331559.1855,1260723.2382,33.6122,BD
1980,331568.8627,1260711.5159,34.0548,BD
1981,331567.3845,1260708.5538,34.2493,BD
1982,331572.1558,1260706.2815,34.4353,BD
1983,331574.7038,1260703.6695,34.7664,BD
1984,331569.7892,1260761.5543,34.7579,WOOD
1985,331580.2537,1260754.1451,35.5301,WOOD
1986,331593.2553,1260751.1800,36.3111,WOOD
1987,331599.8438,1260759.9621,36.7785,WOOD
1988,331592.9079,1260776.4232,36.9978,WOOD
1989,331590.7480,1260796.3245,36.5489,WOOD
1990,331596.2589,1260820.1256,36.4640,WOOD
1991,331598.8488,1260841.9863,36.1895,WOOD
1992,331598.1653,1260870.4985,36.0920,WOOD
1993,331599.4764,1260893.0219,35.9541,WOOD
1994,331613.8569,1260925.8677,37.3421,CONC
1995,331611.5289,1260923.6592,37.1122,HBX
1996,331612.0961,1260912.7926,37.4103,CONC
1997,331608.0937,1260913.5038,37.4156,CONC
1998,331607.0204,1260905.3802,37.3477,CONC
1999,331610.9651,1260904.7232,37.3516,CONC
2000,331610.1325,1260898.0052,37.2924,CONC
2001,331618.1612,1260889.5613,37.5678,SGGR GRASS
2002,331616.6400,1260867.0891,38.0460,SGGR
2003,331620.6165,1260848.4420,38.1641,SGGR
2004,331619.7985,1260824.2569,38.2474,SGGR
2005,331614.1338,1260803.0108,37.8261,SGGR

2006,331614.9153,1260782.2473,37.9922,SGGR
2007,331610.6519,1260763.0790,37.5135,SGGR
2008,331600.7824,1260744.2195,36.6670,SGGR
2009,331567.8111,1260784.5996,34.9848,SGGR WOODS
2010,331578.4939,1260801.0510,35.0535,SGGR WOODS
2011,331581.2320,1260824.5821,35.1520,SGGR
2012,331577.0446,1260847.6579,35.1471,SGGR
2013,331569.5049,1260868.0882,34.7309,SGGR
2014,331588.0822,1260858.5624,35.6173,SGGR
2015,331560.2692,1260841.4298,34.5552,SGGR
2016,331562.4139,1260822.5726,34.6485,SGGR
2017,331549.1240,1260793.4701,34.2125,SGGR
2018,331607.6146,1260623.3658,35.2837,SGGR GRASS
2019,331629.3163,1260614.6469,36.9213,EP
2020,331631.0411,1260622.5146,37.7843,GUY
2021,331646.8936,1260604.4954,38.1560,SGGR
2022,331669.0631,1260591.4098,39.9794,SGGR
2023,331615.0174,1260723.6624,37.6083,EPR
2024,331625.6821,1260747.1750,38.4582,EPR
2025,331635.8859,1260772.0592,39.2676,EPR
2026,331642.4958,1260797.6127,39.6800,EPR
2027,331645.6448,1260819.2262,39.8562,EPR
2028,331647.5095,1260842.4347,39.7725,EPR
2029,331635.3418,1260843.1303,39.3206,EPR
2030,331633.5028,1260819.6141,39.3677,EPR
2031,331630.6598,1260800.1384,39.1834,EPR
2032,331624.8101,1260775.7967,38.7371,EPR
2033,331614.7787,1260751.7741,38.0483,EPR
2034,331606.1979,1260735.4931,37.4889,EPR
2035,331645.8803,1260796.7722,39.4514,CONC
2036,331640.1142,1260775.3024,39.4816,CONC
2037,331637.7362,1260773.6669,39.3595,MH
2038,331635.5244,1260758.4207,39.2562,CONC
2039,331645.1055,1260755.8143,39.4331,CONC
2040,331648.6688,1260768.2990,39.4004,CONC
2041,331663.7358,1260764.6762,39.4696,CONC
2042,331665.9689,1260765.0964,39.5170,BOLL
2043,331662.3771,1260762.7574,39.5045,BOLL
2044,331652.5206,1260760.8831,39.6092,LP
2045,331647.5255,1260756.3283,39.4780,BOLL
2046,331643.7979,1260754.2267,39.3056,BOLL
2047,331649.6026,1260755.5819,39.4464,HBX
2048,331642.0926,1260754.1385,39.3950,SIGNL

2049,331637.4909,1260755.4559,39.4261,SIGNL
2050,331648.7555,1260794.3841,39.5123,BLDG C-208 C-207
2051,331642.8237,1260771.6056,39.5757,BLDG
2052,331662.4180,1260766.5832,39.5896,BLDG
2058,331633.6107,1260923.0014,38.0454,CONC
2059,331630.0188,1260895.1780,38.2505,CONC
2060,331626.8507,1260897.2020,38.2267,BLDG
2061,331627.9015,1260905.9489,38.2074,BLDG
2062,331629.4096,1260913.5240,38.2551,BLDG METAL CONTAINER
2063,331630.4931,1260922.3227,38.1893,BLDG
2064,331637.6967,1260925.7611,37.5024,LP
2065,331630.2335,1260858.4215,38.7769,LP
2066,331619.0276,1260846.1728,38.0655,CONC
2067,331617.2429,1260847.3364,38.0307,CONC
2068,331617.6709,1260845.2630,38.0296,CONC
2069,331618.9097,1260846.0662,38.1081,CONC
2070,331617.8403,1260846.1410,38.1876,WELL
2071,331618.9116,1260845.0660,38.2210,BOLL
2072,331619.3553,1260846.7719,38.2768,BOLL
2073,331616.4990,1260847.1906,37.9438,BOLL
2074,331616.5562,1260844.9105,37.8977,BOLL
2075,331628.7792,1260837.2963,38.8270,SGGR
2076,331590.6060,1260902.3630,35.4996,WOOD
2077,331593.2233,1260922.2472,35.1853,WOOD
2078,331612.2748,1260938.7627,35.9191,WOOD
2079,331618.9390,1260952.8303,36.1144,WOOD
2080,331620.2755,1260964.1362,36.2754,WOOD
2081,331606.4446,1260977.3456,35.7912,WOOD
2082,331603.8732,1260967.0089,35.4103,TD
2083,331602.9393,1260963.4413,34.2302,BD
2084,331602.6227,1260961.0281,35.4010,TD
2085,331613.5592,1260956.1969,36.0455,TD
2086,331615.3117,1260958.4252,34.6058,BD
2087,331616.6394,1260961.9464,36.0890,TD
2088,331631.8983,1260957.2451,35.8329,TD
2089,331643.1379,1260954.9052,35.9741,RIPRAP
2090,331642.8587,1260948.0850,36.1013,RIPRAP
2091,331630.9726,1260950.8758,36.0759,RIPRAP
2092,331631.1441,1260954.5113,35.2866,RIPRAP
2093,331578.8276,1260940.4821,34.3805,SGGR WOODS
2094,331569.3869,1260922.2928,34.3335,SGGR
2095,331568.8016,1260903.8126,34.3650,SGGR
2096,331570.2623,1260886.0260,34.7415,SGGR

2097,331635.6120,1260845.0437,39.3604,EPR
2098,331637.4659,1260865.9450,39.1163,EPR
2099,331638.6602,1260878.7609,38.7558,EPR
2100,331640.1838,1260893.7624,38.2492,EPR
2101,331642.2230,1260909.0348,37.8442,EPR
2102,331643.7302,1260921.5430,37.3087,EPR
2103,331645.1341,1260940.6009,36.4342,EPR
2104,331645.3747,1260960.7410,35.9992,EPR
2105,331643.8608,1260980.6733,36.1511,EPR
2106,331650.9082,1260980.3336,36.2647,EPR
2107,331650.6845,1260976.0430,36.1743,SDWK
2108,331654.9778,1260975.7129,36.2793,SDWK
2109,331655.1692,1260979.9785,36.2719,SDWK
2110,331656.1694,1260979.9521,36.2600,BLDG AIR VENT
2111,331656.0714,1260971.4347,36.2373,PGL
2112,331660.5464,1260971.3026,36.2624,PGL
2113,331660.5077,1260969.0225,36.2685,CONC
2114,331690.6739,1260968.5801,36.2648,CONC
2115,331690.6947,1260979.4701,36.2948,CONC
2116,331696.4923,1260979.4852,36.2958,BLDG
2117,331697.0059,1260998.5101,36.2994,BLDG
2118,331697.3609,1261020.8448,36.3166,BLDG
2119,331697.6098,1261036.5983,36.2954,BLDG
2120,331697.8268,1261056.7123,36.2847,BLDG
2121,331698.1975,1261077.1478,36.3018,BLDG
2122,331698.3984,1261091.1786,36.5006,BLDG
2123,331704.1389,1261091.1646,36.2902,CONC
2124,331704.3560,1261099.2474,36.4463,CONC
2125,331698.5482,1261099.4286,36.4836,CONC
2126,331698.6367,1261105.1750,36.5443,BLDG
2127,331708.8129,1261105.1425,36.2542,CONC
2128,331709.3847,1261120.5814,36.1752,CONC
2129,331698.9010,1261120.7815,36.6774,CONC
2130,331703.8170,1261115.3983,36.8420,MISCPT
2131,331699.5340,1261157.5271,36.5398,BLDG
2132,331702.5565,1261157.5553,36.4932,BLDG
2133,331709.9210,1261176.8513,36.1608,METFEN 3 HAND RAIL
2134,331709.8277,1261154.4995,36.1855,METFEN
2135,331709.6741,1261138.5114,36.0947,METFEN
2136,331709.5185,1261122.4313,36.1357,METFEN
2137,331711.8267,1261138.4954,36.4759,LP
2138,331713.6882,1261156.8082,36.3060,TOE
2139,331713.0163,1261140.3964,36.5708,TOE

2140,331711.5261,1261124.9802,36.2826,TOE
2141,331711.1163,1261103.7322,36.3001,TOE
2142,331710.0690,1261098.0978,36.2507,TOE
2143,331710.0396,1261097.5355,36.2326,WALL
2144,331714.0913,1261097.2919,36.4629,WALL
2145,331714.0856,1261093.1398,36.4083,WALL
2146,331709.9670,1261093.1486,36.2829,WALL
2147,331709.9647,1261092.6130,36.4341,WALL
2148,331714.8456,1261092.5288,38.9921,WALL
2149,331714.6622,1261097.8906,39.0039,WALL
2150,331708.5541,1261097.8556,36.2268,EPR
2151,331708.3088,1261086.4406,36.0234,EPR
2152,331712.6383,1261086.0018,36.6502,UKP
2153,331708.5484,1261068.8300,35.7966,EPR
2154,331708.4882,1261047.1868,35.5511,EPR
2155,331710.5033,1261042.4090,35.5525,TOE
2156,331711.1265,1261023.1760,35.6330,TOE
2157,331708.2636,1261023.2712,35.6306,EPR
2158,331708.3402,1261002.8441,35.6898,EPR
2159,331711.2337,1261002.1074,35.6006,TOE
2160,331711.1302,1260988.0923,35.7111,UKP
2161,331712.5523,1260986.6410,35.7363,TOE
2162,331707.9574,1260986.5390,35.8571,EPR
2163,331706.0412,1260967.6501,35.8979,EPR
2164,331711.7454,1260976.5589,36.0737,BOLL
2165,331695.8699,1260976.6379,36.3326,BOLL
2166,331690.3316,1260966.6966,36.3688,BOLL
2167,331680.5887,1260967.0224,36.4885,BOLL
2168,331670.1022,1260966.7741,36.3976,BOLL
2169,331660.3114,1260967.0208,36.3408,BOLL
2170,331700.7279,1260953.5852,35.9834,EPR
2171,331695.0202,1260951.8555,36.0493,EPR
2172,331687.2514,1260951.8900,36.3463,EPR
2173,331674.3910,1260945.1123,36.6608,EPR
2174,331662.5708,1260929.5508,36.9782,EPR
2175,331655.9365,1260911.8805,37.7343,EPR
2176,331652.0875,1260890.2735,38.5841,EPR
2177,331649.5795,1260870.4312,39.2377,EPR
2178,331648.3400,1260849.4243,39.6729,EPR
2179,331695.3198,1260958.7187,36.0792,INLET
2180,331696.8510,1260958.6049,36.0104,INLET
2181,331699.1019,1260958.4953,36.0078,INLET
2182,331700.2468,1260958.3519,36.0815,INLET

2183,331699.8869,1260953.0556,36.0445,INLET
2184,331694.9313,1260953.3684,36.0702,INLET
2185,331698.2331,1260976.6539,36.1113,PGL
2186,331700.3734,1260976.4838,36.1158,PGL
2187,331702.0342,1260998.6292,36.1560,PGL
2188,331699.8399,1260998.7745,36.1540,PGL
2189,331701.5438,1261020.8241,35.9924,PGL
2190,331703.7361,1261020.6431,36.0534,PGL
2191,331705.3612,1261042.7286,35.9603,PGL
2192,331703.1077,1261042.7941,35.9312,PGL
2193,331705.0129,1261066.5947,35.8745,PGL
2194,331707.1060,1261066.4644,35.8578,PGL
2195,331708.7074,1261101.1714,36.3047,POST
2196,331733.2635,1261156.6233,49.8790,TB
2197,331743.8400,1261153.0639,52.9559,WOOD
2198,331745.3750,1261130.4842,53.2432,WOOD
2199,331734.2959,1261130.9737,50.9937,TB
2200,331732.6261,1261110.4795,50.4348,TB
2201,331748.8312,1261108.7176,54.0833,WOOD
2202,331746.5728,1261094.3823,54.8323,WOOD
2203,331732.4698,1261094.2210,51.3046,TB
2204,331731.0319,1261070.4915,50.5392,TB
2205,331740.5792,1261059.6143,53.3326,WOOD
2206,331735.6895,1261033.2236,53.1649,TB
2207,331733.9334,1260998.8033,50.2975,WOOD
2208,331728.6191,1260973.4359,49.1926,WOOD
2209,331721.5882,1260956.8791,49.2069,WOOD
2210,331713.1688,1260941.5520,48.6497,TB
2211,331719.5228,1260929.9472,48.2449,WOOD
2212,331697.2386,1260936.9421,45.7524,TB
2213,331680.7926,1260935.7410,42.2673,TB
2214,331669.8174,1260921.1571,41.0939,TB
2215,331662.2152,1260903.8619,38.3173,TB
2216,331673.1301,1260900.0507,40.3641,SGGR GRASS
2217,331689.2321,1260914.5910,43.9277,SGGR
2218,331704.8144,1260909.4203,47.7020,WOOD
2219,331698.2925,1260885.0167,47.3433,WOOD
2220,331680.7712,1260858.3724,43.3244,WOOD
2221,331664.3134,1260836.3640,40.8619,WOOD
2222,331663.0010,1260811.7883,41.8047,WOOD
2223,331682.3765,1260804.0644,45.1247,WOOD
2224,331698.3668,1260804.8306,47.1398,WOOD
2225,331706.8265,1260823.6378,48.1257,WOOD

2226,331719.8465,1260858.5762,49.3232,WOOD
2227,331721.6642,1260880.7285,49.0722,WOOD
2228,331723.8831,1260904.4472,49.1462,WOOD
2229,331727.8871,1260929.2504,48.1659,WOOD
2230,331741.6700,1260955.2767,52.0714,WOOD
2231,331752.5851,1260972.2691,54.4257,WOOD
2232,331767.3901,1260993.5197,56.5994,WOOD
2233,331779.0116,1261013.9594,57.9680,WOOD
2234,331794.6446,1261031.7594,61.1860,WOOD
2235,331806.0787,1261050.3332,65.7689,WOOD
2236,331819.0849,1261066.4731,70.2444,WOOD
2237,331842.2153,1261074.6802,74.0369,WOOD
2238,331864.6819,1261075.2443,76.0403,WOOD
2239,331888.7730,1261073.3002,76.5992,WOOD
2240,331868.6486,1261105.5235,76.8518,SGGR WOODS
2241,331880.5710,1261089.4641,76.8455,SGGR
2242,331913.5251,1261101.3460,77.2880,SGGR WOODS
2243,331923.5290,1261084.0277,77.2823,SGGR
2244,331899.7259,1261052.6248,75.2049,TB
2245,331877.9844,1261053.1192,73.0442,TB
2246,331855.8042,1261058.0994,72.6757,TB
2247,331866.3553,1261088.8523,76.5530,SGGR WOODS
2248,331880.7718,1261102.7861,76.5595,SGGR
2250,331819.3000,1261101.9240,76.3540,PINV 7 CMP
2251,331818.6237,1261101.2593,72.3209,POST
2252,331792.1328,1261101.4361,65.2478,POST
2253,331792.7311,1261101.9167,69.3698,PINV
2254,331776.7416,1261101.8049,65.0036,PINV
2255,331777.2007,1261101.1776,61.6566,POST
2256,331758.9027,1261101.0336,56.7805,POST
2257,331759.0695,1261101.4529,60.2372,PINV
2258,331732.4294,1261100.7211,50.6303,POST
2259,331729.3631,1261101.2004,52.1701,PINV
2260,331713.9679,1261100.7495,51.7987,PINV
2261,331699.3082,1261100.6741,51.5877,PINV
2262,331794.7782,1261078.7832,66.5800,SGGR WOODS
2263,331818.5940,1261050.2369,67.3415,SGGR GRASS
2264,331808.9151,1261026.6801,61.4439,SGGR
2265,331799.0743,1261007.1210,59.1310,SGGR
2266,331787.3562,1260984.3843,57.1267,SGGR
2267,331773.6799,1260967.1551,55.7708,SGGR
2268,331798.1618,1260957.1700,55.8920,SGGR
2269,331787.6063,1260918.6878,52.4345,SGGR

2270,331767.2410,1260921.3231,53.7064,SGGR
2271,331722.5349,1261093.2345,44.3248,SGGR GRASS
2272,331723.0168,1261044.9501,44.5073,SGGR
2273,331721.7835,1261009.9941,44.1726,SGGR
2274,331721.6546,1260986.2661,43.3875,SGGR
2275,331780.8654,1260812.3298,42.8841,EUPR
2276,331791.4912,1260833.2891,44.8418,EUPR
2277,331805.2040,1260857.8851,46.3824,EUPR
2278,331817.1724,1260875.3360,47.4883,EUPR
2279,331827.2654,1260895.5437,48.3083,EUPR
2280,331837.4759,1260918.1463,49.9536,EUPR
2281,331843.7574,1260943.6786,52.9251,EUPR
2282,331844.6774,1260972.1893,56.0550,EUPR
2283,331842.9088,1260987.3339,57.2680,EUPR
2284,331831.6138,1261002.9857,59.6428,EUPR
2285,331814.6546,1260998.5384,58.8958,EUPR
2286,331805.3599,1260983.1542,57.3724,EUPR
2287,331805.0655,1260968.3374,56.3259,EUPR
2288,331816.9523,1260950.6643,54.4258,EUPR
2289,331824.7343,1260930.7047,50.9706,EUPR
2290,331815.1969,1260909.2247,49.1584,EUPR
2291,331806.2645,1260891.2195,48.3569,EUPR
2292,331795.5472,1260872.3347,47.3719,EUPR
2293,331784.9106,1260850.0155,46.1408,EUPR
2294,331778.0214,1260831.5660,44.3591,EUPR
2295,331786.9715,1260796.3396,41.9699,TOE
2296,331791.8782,1260818.4310,43.6386,TOE
2297,331799.7324,1260841.8471,45.5552,TOE
2298,331810.4176,1260864.0409,47.0322,TOE
2299,331829.6977,1260872.9179,48.0718,TOE
2300,331836.9056,1260896.0621,49.2619,TOE
2301,331839.7080,1260919.7765,50.0128,TOE
2302,331847.6861,1260939.5086,52.5850,TOE
2303,331854.5362,1260963.3158,55.9427,TOE
2304,331853.5642,1260988.7066,57.9785,TOE
2305,331854.9392,1261004.0850,60.7201,TOE
2306,331861.4795,1261007.7649,61.7576,TOE
2307,331861.1591,1260989.6686,61.6988,TB
2308,331861.5505,1260971.7791,60.0389,TB
2309,331860.6102,1260950.7325,59.0512,TB
2310,331857.4771,1260930.2308,58.3066,TB
2311,331913.5726,1260915.1818,59.0216,TOE
2312,331917.0599,1260938.2695,60.2393,TOE

2313,331911.9058,1260961.5892,60.0047,TOE
2314,331908.1393,1260984.6422,60.5314,TOE
2315,331904.9504,1261006.4663,61.6686,TOE
2316,331898.0146,1261025.8254,62.8809,TOE
2317,331878.9865,1261029.6853,62.8759,TOE
2318,331858.9567,1261029.1917,63.2897,TOE
2319,331842.6687,1261027.7381,62.7969,TOE
2320,331830.3452,1261046.9752,67.9853,SGGR GRASS
2321,331850.8971,1261053.4706,71.6400,SGGR
2322,331874.8986,1261058.1221,74.0887,SGGR
2323,331893.4261,1261003.1111,60.9709,SGGR
2324,331890.8338,1260982.8477,60.0164,SGGR
2325,331889.8654,1260960.7824,59.1129,SGGR
2326,331884.3534,1260936.5795,58.0962,SGGR
2327,331879.5140,1260906.0480,58.5653,SGGR
2328,331845.1050,1260853.4948,54.8976,SGGR
2329,331826.3650,1260854.9637,53.9188,SGGR
2330,331826.7818,1260882.2383,48.2089,BOLL
2331,331829.1210,1260880.7058,47.9401,BOLL
2332,331828.1450,1260879.2272,47.8128,BOLL
2333,331825.4907,1260880.6198,47.8752,BOLL
2334,331827.4872,1260880.8871,48.0160,WELL
2335,331795.5970,1260892.7489,49.0247,SGGR
2336,331777.0414,1260896.0284,50.8738,SGGR
2337,331752.1197,1260900.3302,51.5015,SGGR
2338,331748.0470,1260881.6471,50.6738,SGGR
2339,331760.4439,1260868.6448,48.8018,SGGR
2340,331754.2480,1260845.1198,47.0898,SGGR
2341,331736.2615,1260846.7768,48.0207,SGGR
2342,331725.0656,1260824.1607,45.9658,SGGR
2343,331740.9929,1260816.4463,45.6367,SGGR
2344,331724.5802,1260798.5130,44.5709,SGGR
2345,331707.7801,1260788.0685,44.2748,SGGR
2346,331685.1092,1260779.4904,41.0536,TOE
2347,331673.8600,1260794.0968,39.6347,TOE
2348,331658.1218,1260800.5857,39.4929,TOE
2349,331833.1011,1260856.4754,54.7879,SGGR
2350,331824.4567,1260976.3856,56.4879,SGGR GRAVEL
2351,331879.0431,1261004.3074,61.2730,SGGR GRASS
2355,331976.6016,1260638.2819,37.3442,FH
2356,331967.6169,1260643.7265,37.7823,SGGR GRASS
2357,331970.6208,1260634.8562,37.9708,SGGR
2358,331968.6519,1260639.2643,37.3627,SGGR

2359,331951.6158,1260633.7669,38.0973,SGGR
2360,331952.4483,1260644.9861,38.4297,SGGR
2361,331933.2550,1260639.4999,39.0882,SGGR
2362,331991.2496,1260638.5902,37.0226,SGGR
2363,331989.6572,1260643.9997,36.1604,SGGR
2364,331987.8031,1260648.9708,36.9801,SGGR
2365,332185.7123,1260737.4079,33.3943,PINVB 15 CMP
2366,332250.8592,1260769.6290,33.3536,PINVB 15 CMP
2367,332210.2509,1260827.3737,42.7585,METFEN
2368,332206.1299,1260838.7439,42.9220,METFEN
2370,331606.4448,1260681.6379,35.1285,PINVA 12 CMP
2371,331576.1048,1260702.1410,34.2313,PINVA
2373,332084.3914,1261032.7395,76.5828,WOOD
2374,332083.1781,1261055.0448,76.6875,WOOD
2375,332082.9369,1261074.3540,76.6691,WOOD
2376,332077.2368,1261091.4191,76.7475,WOOD
2377,332092.6824,1261047.6732,76.6099,CONC
2378,332089.3862,1261047.5624,76.7025,CONC
2379,332089.5215,1261044.5327,76.7629,CONC
2380,332091.2096,1261043.6538,76.6684,BOLL
2381,332088.8883,1261045.9483,76.9464,BOLL
2382,332091.1215,1261048.5680,76.7559,BOLL
2383,332093.2435,1261046.3895,76.7148,BOLL
2384,332091.0651,1261046.3704,77.0947,WELL
2385,332149.8842,1261086.4625,74.5316,UPDW
2386,332148.6671,1261073.8090,74.5270,UPDW
2387,332142.2332,1261064.6765,74.5800,UPDW
2388,332134.2466,1261059.7674,75.0708,UPDW
2389,332123.3060,1261057.7491,75.6341,UPDW
2390,332107.3939,1261051.0764,76.2352,UPDW
2391,332097.9616,1261039.8748,76.4392,UPDW
2392,332092.8500,1261020.8278,76.4713,UPDW
2393,332097.8926,1261002.1319,75.6298,UPDW
2394,332115.5861,1260990.0216,74.1491,UPDW
2395,332135.5786,1260992.8076,73.5763,UPDW
2396,332151.6264,1261006.7234,73.4732,UPDW
2397,332157.3070,1261021.9836,73.4692,UPDW
2398,332159.2697,1261040.6861,73.9821,UPDW
2399,332158.8571,1261059.4095,74.5759,UPDW
2400,332159.5439,1261089.2255,74.3623,UPDW
2401,332129.8816,1261050.9919,75.2311,UPDW
2402,332121.7387,1261047.3902,75.8430,UPDW
2403,332108.5941,1261034.2608,76.4315,UPDW

2404,332108.9009,1261014.6786,75.8369,UPDW
2405,332123.4533,1261004.0260,74.6321,UPDW
2406,332140.1446,1261009.2273,73.8887,UPDW
2407,332145.7908,1261021.3398,73.8058,UPDW
2408,332146.8048,1261039.6214,74.4846,UPDW
2409,332148.0466,1261054.9968,74.7608,UPDW
2410,332139.8502,1261052.4173,74.9601,UPDW
2411,332132.0212,1261034.4410,73.7660,BLDG
2412,332128.2352,1261042.1883,75.0230,WALL
2413,332127.4378,1261041.7379,76.5354,WALL
2414,332130.8059,1261033.9809,80.9617,WALL
2415,332121.0535,1261029.0615,81.3542,BLDG
2416,332126.4996,1261016.8829,80.7447,BLDG
2417,332136.6616,1261021.4142,80.6511,BLDG
2418,332140.3324,1261013.3886,75.0467,WALL
2419,332141.1466,1261013.9161,74.1438,WALL
2420,332137.5275,1261021.9562,73.6545,WALL
2421,332135.0227,1261015.0412,78.7056,SGGR GRASS
2422,332123.1121,1261013.0972,78.6621,SGGR
2423,332116.2008,1261021.7172,80.0887,SGGR
2424,332119.5322,1261033.9673,79.2555,SGGR
2425,332125.3149,1261046.0474,75.4503,TOE
2426,332129.8551,1261042.4783,74.5607,TOE
2427,332139.3336,1261034.8400,73.9711,SGGR
2428,332131.7948,1261068.0285,75.3011,BOLL
2429,332137.6007,1261068.1028,74.9425,BOLL
2430,332141.8514,1261069.6940,74.7545,BOLL
2431,332134.5516,1261086.6857,74.3916,CONC
2432,332134.4282,1261071.6205,75.0329,CONC
2433,332141.0346,1261071.5074,74.7865,CONC
2434,332137.6147,1261075.0364,76.1202,MISCPT
2435,332114.0897,1261086.9303,74.5174,CONC
2436,332113.7429,1261072.0119,75.7598,CONC
2437,332120.5554,1261071.7571,75.3547,CONC
2438,332116.8496,1261076.0468,76.2003,MISCPT
2439,332105.2002,1261085.9669,74.3197,SGGR GRASS
2440,332103.9868,1261064.5986,75.8687,SGGR
2441,332174.3118,1261076.3841,73.0829,WOOD
2442,332180.5394,1261068.5590,73.0807,SGGR
2443,332168.1459,1261055.4773,73.2841,WOOD
2444,332173.5625,1261047.0704,73.2886,SGGR WOODS
2445,332181.2072,1261027.5127,71.9930,WOOD
2446,332190.6338,1261031.0287,71.9932,SGGR

2447,332172.3086,1260999.0985,70.4349,WOOD
2448,332148.9173,1260989.8079,72.3068,WOOD
2449,332059.9144,1261038.5673,80.7006,SGGR WOODS
2450,332061.3511,1261048.4535,80.6995,SGGR WOODS
2452,332053.7426,1261042.5166,77.4264,SGGR
2453,332055.1370,1261063.9412,79.7515,SGGR
2454,332049.4197,1261084.5369,79.5409,SGGR
2455,332044.8846,1261101.0852,79.5940,SGGR WOODS
2456,332027.8252,1261109.6649,79.8626,SGGR
2457,332022.6275,1261089.6631,80.0148,SGGR
2458,332016.6707,1261067.7660,79.9611,SGGR
2459,331990.9332,1261083.0189,80.3936,SGGR
2460,331997.2368,1261103.8371,80.3250,SGGR
2461,331994.7449,1261122.1317,80.2684,SGGR
2462,331968.0267,1261127.4748,80.2762,SGGR
2463,331967.5776,1261101.8837,77.8204,SGGR
2464,331961.9650,1261086.5793,77.8763,SGGR
2465,331933.8602,1261097.6324,77.9249,SGGR
2466,331937.3081,1261112.6703,78.1529,SGGR
2467,331952.2842,1261139.4617,78.2189,SGGR
2468,331917.6233,1261122.7058,77.7239,SGGR
2469,331924.3313,1261136.0773,77.7477,SGGR
2470,331911.0844,1261109.1378,77.7450,SGGR
2471,331925.5108,1261158.3054,81.3810,PINV
2472,331888.3739,1261137.3869,80.4437,PINV
2473,331853.4353,1261118.5186,78.9314,PINV
2474,331824.9816,1261102.1003,76.6430,PINV
2475,331886.3045,1261109.1773,76.3724,SGGR
2476,331888.6754,1261118.8929,76.3696,SGGR
2477,331885.1267,1261104.3186,76.3688,SGGR
2478,331931.8068,1261129.0239,77.9751,SGGR
2479,331922.5195,1261111.3111,77.9725,SGGR