

Soils and Geology Report

Southern Colorado Rail Park

Fountain, Colorado

March 2024

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1 Purpose and Scope

This Soils and Geology Report (Report) presents the results of HDR Engineering, Inc.'s (HDR's) geological research for the proposed rail spur outside the city of Fountain, Colorado. The work completed has been performed under HDR's Scope of Work agreement with Edw. C. Levy Co. (Client), of Detroit, Michigan, executed on May 10, 2023. The purpose of this report is to support the Client's pursuit of obtaining a Sketch Plan approval in El Paso County, Colorado. As such, HDR has prepared this Report in accordance with El Paso County Code 8.4.9, Geology and Soils Standards Reports.

The following Scope of Work (SOW) was executed by HDR as part of this report development:

- Perform a desktop review of existing information for the project area,
- Perform a site visit to evaluate the on site conditions,
- Prepare this report.

2 Project Description

The project is located south of the City of Fountain and west of Interstate I-25 in El Paso County, Colorado. To the west of the site lies Fort Carson, and to the east is the Colorado Springs Utilities (CSU) Nixon Power Plant (Nixon). The objective of the project is to provide rail access for the Fort Carson Military Reservation and adjacent areas via an existing rail spur that services Nixon. The existing spur is served by both the Burlington Northern Santa Fe (BNSF) and Union Pacific Railroad (UPRR) main tracks.

The current design includes approximately 4.35 miles of new track, and includes cuts and fills throughout the alignment. In general, the current alignment includes approximately 3.0 miles of cut with maximum slope angles of approximately 2(Horizontal):1(Vertical). Additionally, the alignment includes approximately 0.3 miles of fill section with maximum side slopes of 2H:1V.

3 Information Search and Findings

3.1 Physiographic Location

The project site is located east of the Southern Rocky Mountains Province, and on the western edge of the Colorado Piedmont Subprovince of the Great Plains Physiographic Province. The area is along the base of the foothills of the Front Range and consists of a broad hilly valley generally under El. 5500. The area stretches north and northeast from Denver along the South Platte River, and southward along the Arkansas River from Colorado Springs. Major landforms include valleys, lowlands, outwash plains, alluvial fans, and terraces. Little Fountain Creek traverses the property east to west along the southern portion of the project site. This feature is typically dry throughout the year.

3.2 Soils

A review of the local soils per the United States Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) web soil survey, the project area contains approximately 14 soil types, broken down generally into the following five (5) main soils types:

- Heldt Clay Loam, 0-3% slopes Found on alluvial fans and stream terraces, well drained, with low runoff,
- Razor-Midway Complex Found on hills, well drained, with medium runoff,
- Shamber-Razor Complex, 8-50% slopes Found on breaks, well drained, with medium runoff.
- Fort Loam, 1-5% slopes Found on interfluves and fans, well drained with low runoff,
- Mananzola Silt Clay Loam, 0-2% slopes Found on fan remnants, interfluves, terraces, and drainageways, well drained.

3.3 Geology

According to the Colorado Geologic Map Data from the United States Geological Survey, the project site is underlain by the Pierre Shale Middle Unit of Cretaceous Age, and the Modern Alluvium of Quaternary Age.

The Pierre Shale (Kpm) consists of dark-gray to olive-gray fossiliferous marine shale and was deposited during the transgression of the Middle to Late Cretaceous Western Interior Seaway. Thickness of the formation is approximately 5,000 feet, though neither upper nor basal contact of the formation occurs locally. The shale is characterized by an abundance of marine invertebrate fossils and expansive clays. Swelling soils and bedrock exposures are common hazards for development. The formation includes moderately inclined slopes, such as mesa bluffs and river banks, and is prone to slope instability.

The Alluvium Three formation consists of Modern Alluvium, Older Gravels, and Alluvium and includes dark-brownish gray to tan-gray, occasionally mottled, stratified, poorly to occasionally well sorted sand and clayey to silty sands. The unit can contain clean, medium-grained, well sorted sand layers and sporadic gravel lenses with clasts up to small cobbles. Gravels are generally from crystalline protoliths from conglomerates of the Dawson Formation.

Water Wells 3.4

Utilizing the Colorado Department of Water Resources (DWR's) DWR Well Permit Research tool, a total of four (4) constructed water wells were identified in the immediate vicinity of the proposed project area. The Well Construction and Test Reports are included in Appendix A. In general, the well logs consist of sandy clay overburden, with bedrock encountered between 19 and 38 feet below grade. A summary of the well logs is provided in the table below.

Table 1 – Summary of Well Information

Well Identification	Northing	Easting	Overburden Material	Depth to Bedrock (ft.)	Total Depth (ft.)
4974-F	4277323.05950	522681.16839	Unknown	Not Recorded	28
208846	4276836.81190	523033.63223	Clay, Rock and Gravel	38	60
267182 4276705.08 525136.18		Sandy Clay, Clayey Sand	22	30	
267183	4276755.49	525394.88	Clay and Sand	19	21

3.5 Site Hazards

According to the Colorado Earthquake and Fault Map Server mapping system, the Ute Pass Fault zone is located to the west of the project location. Additionally, two mapped earthquake epicenters are located west in the foothills, with a maximum magnitude of 3.5, and a depth of 5 km.

Per Colorado Geological Survey Collapsible Soil Susceptibility Map of Colorado, the project site is located within the Sedimentary Formations (Cretaceous and Tertiary) zone. The soils in this area are poorly indurated, bedrock formations with high percentages of clay and silt and are easily eroded. Collapsibility is a result of both the composition and softness of the soils. Often located in arid to semiarid climates, these collapsible soils are often associated with alluvial fans, alluvium, colluvium and eolian depositions.

In accordance with the Colorado Geological Survey Map ON-006-12, the project site is located immediately east of mapped potentially dangerous debris flow regions. Debris flows are characterized by moving mass of loose mud, sand, soil, rock, vegetation, or water that travels down a slope under the influence of gravity. Debris flows can reach speeds approaching 100 miles per hour, though most commonly are slow and move only a few feet per year. Often initiated by heavy rainfalls and flash floods on steep slopes, flows can result in significant slope instability if not protected.

Radon levels of the underlying geologic units have been reported by the Colorado Geologic survey in the Open File Report No. 91-4. Based on this report, the project site lies within the Tertiary Valley Fill region. A total of 378 samples were collected from this area. Below is a summary of the radon results in the area, and the percentages of various concentration ranges.

- Average Radon Level 3.97 pCi/l
 - \circ 0 < 4 pCi/l 68.52%
 - \circ 4 < 10 pCi/l 25.66%
 - \circ 10 < 20 pCi/l 4.50%
 - >20 pCi/l 1.32%

3.6 **Economic Considerations**

The sand deposits along the Fountain Creek corridor contain known quantities of coarsegrained quartz sands used for the petroleum industry throughout the country according to the Sand, Gravel, and Quarry Aggregate Resources, published in 1974 by the Colorado Geological Survey. Extent of the resource areas were not delineated in the publication; however, based on the field reconnaissance and known surface quarrying activities, the site is known to have value for construction materials.

Field Reconnaissance 4

A field reconnaissance was performed by HDR personnel on June 12, 2023 and February 23, 2024. The project location was reviewed for existing and potential constructability concerns, as well as potential issues and requirements for an upcoming drilling program. Below is a brief description of the onsite geology, hydrology, and existing features.

The eastern portion of the project site is located immediately north of the existing rail loop utilized by the power plant. Topography generally consisted of small mesas with steep, approximately 2H:1V sideslopes, and was generally vegetated with small scrub grass. Soils appeared to be a sandy loam with significant amounts of gravels and cobbles. No bedrock exposures were noted in this area. To the south, Little Fountain Creek was viewed. During the 2024 site visit, the channel was dry, with very steep slopes experiencing intermittent failures into the creek section.

After reviewing the eastern portion of the site, the extension of the corridor to the northwest was viewed. The area moved off of the existing bluff, and into a lower valley. The valley soils appeared to consist of a significant percentage of clays, with some standing water. No bedrock outcrops were noted in the valley, though portions of the area had been previously worked and therefore limited the availability of native soil and rock exposures. Atop a nearby bluff, in route to evaluate the valley, ponding water was present on the surface, suggesting the soils were less free draining than to the east. Prairie dog towns were identified in the northern portion of the project site. These areas will be further discussed in the environmental submissions.

Subsurface Explorations 5

Historic Subsurface Explorations 5.1

During the review of existing information for the project site, boring and test pit logs from the initial evaluation of materials for the mining operations were provided by the Owner for incorporation into this report. The previous boring program included a total of 51 test locations, and included 25 test pits performed by backhoe, and 26 geotechnical borings. The test pits were performed by Schmidt Construction, and the geotechnical borings were performed by Spectrum Exploration, Inc. All subsurface testing was performed in August of 2002. Below is a Boring Location Map, a table summarizing the results of the explorations, and the logs are included in Appendix C.

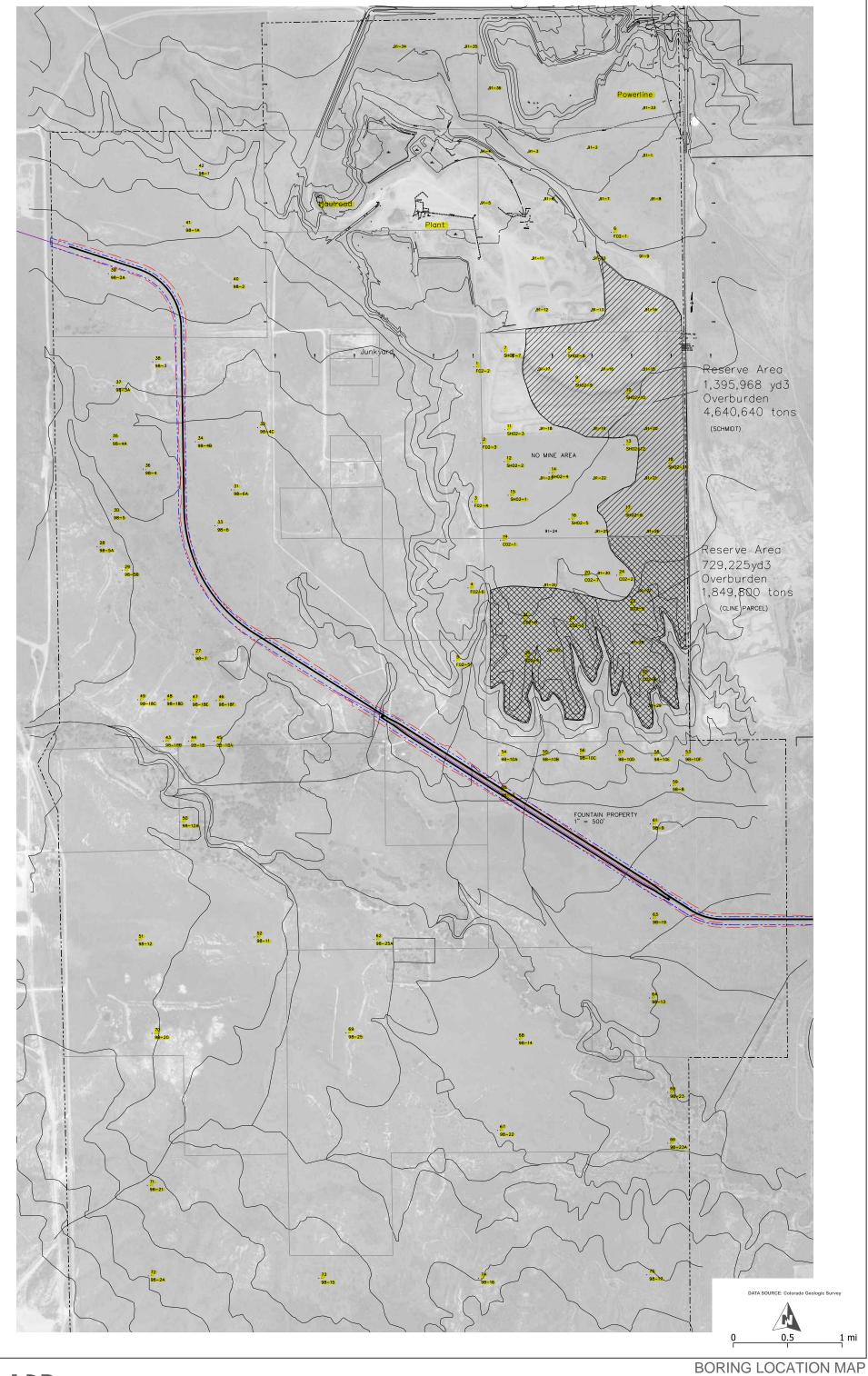


Table 2 – Summary of Test Pits

Test Pit	Elevation	Depth to Bedrock (ft.)	Total Depth (ft.)
98-1	5687	0.0	25.0
98-2	5627	4.0	14.0
98-3	5608	12.0	20.0
98-4	5585	N/E	25.0
98-5	5579	19.0	25.0
98-6	5572	N/E	20.0
98-7	5570	N/E	20.0
98-8	5535	N/E	25.0
98-9	5522	N/E	25.0
98-10	5539	N/E	29.0
98-11	5546	N/E	25.0
98-12	5565	N/E	25.0
98-13	5502	N/E	25.0
98-14	5510	N/E	25.0
98-15	5550	0.0	24.0
98-16	5540	0.0	24.0
98-17	5540	0.0	24.0
98-18	5560	N/E	20.0
98-19	5560	N/E	25.0
98-20	5560	N/E	25.0
98-21	5560	12.0	25.0
98-22	5560	N/E	25.0
98-23	5560	N/E	25.0
98-24	5560	0.0	25.0
98-25	5560	N/E	25.0

N/E - Not Encountered

Table 3 – Summary of Test Borings

Test Pit	Elevation	Depth to Bedrock	Total Depth
		(ft.)	(ft.)
C-02-1	5674	26.0	29.0
C-02-2	5672	N/E	24.0
C-02-3	5643	28.5	29.0
C-02-4	5645	N/E	29.0
C-02-5	5657	N/E	24.0
C-02-6	5638	N/E	24.0
C-02-7	5660	13.0	17.0
C-02-8	5658	N/E	34.0
F-02-1	5703	N/E	29.0
F-02-2	5690	8.0	19.0
F-02-3	5688	4.0	19.0
F-02-4	5682	4.0	14.0
F-02-5	5610	12.0	14.0
F-02-6	5650	N/E	14.0
SH-02-1	5685	21.0	29.0
SH-02-2	5687	N/E	34.0
SH-02-3	5692	N/E	29.0
SH-02-4	5684	32.0	34.0
SH-02-5	5677	16.0	19.0
SH-02-6	5670	27.0	29.0
SH-02-7	5695	N/E	39.0
SH-02-8	5695	N/E	54.0
SH-02-9	5692	N/E	49.0
SH-02-10	5683	N/E	49.0
SH-02-11	5670	N/E	39.0
SH-02-12	5678	N/E	44.0

N/E - Not Encountered

In general, the subsurface evaluation encountered sand and gravel overburden overlying shale bedrock. Intermittent clay was encountered sporadically throughout the site, indicative of likely weathered bedrock seams. No density testing was performed. Additionally, groundwater was not encountered throughout the project area. Some mottling was noted on the borings logs but were not pervasive.

Laboratory testing results from the previously performed borings were provided to HDR for review. Testing methodology was not provided; however, standard ASTM gradation analyses appear to be most likely based on the data provided. The results were previously utilized to determine reserves for the open pit sand and gravel mining, and in general confirm the anticipated materials at the site. Sand and gravel is predominant, while intermittent layers of clay were identified throughout.

5.2 Proposed Subsurface Exploration

In order to support the forthcoming final design and construction of the corridor, HDR recommends performing additional geotechnical borings to further evaluate the subsurface condition. Based on the existing alignment and cross sections, HDR recommends performing borings at approximately 1,000-foot intervals along the alignment, adjusting from the centerline to intercept proposed side slopes, as needed. Therefore, a total of approximately 23 borings are recommended. For cut locations, borings shall be performed to a minimum depth of 15 feet below final grade, and for fill borings, borings shall be performed to a minimum of 10 feet below existing grade. Borings shall include Standard Penetration Test (SPT) sampling at 2.5-foot intervals, and if auger refusal is encountered, NQ (minimum) size rock coring shall be performed to confirm bedrock presence. If needed, depending on soil conditions, modified California sampling shall be performed to collect adequate sample material. Groundwater elevations shall be collected at completion of the borings, and at 24-hours after completion, to better understand the local groundwater conditions. Shelby tube samples should be collected if soft, cohesive soils are encountered.

A laboratory testing program is recommended upon completion of the borings. It is anticipated that the testing program will consist of full soil classifications to verify field descriptions (ASTM D2487), direct shear tests (ASTM D3080) to determine in situ soil strengths, and unconfined compressive strength of rock, if encountered (ASTM D7012C). Swell testing (ASTM D4546) shall be performed to assist in developing shrink/swell characteristics. Final laboratory testing will be determined based on the conditions encountered during the subsurface exploration.

6 Conclusions and Development Recommendations

The project area of concern was evaluated for potential concerns associated with further development of the property. Based on our evaluation, the proposed property is suitable for the anticipated development. However, a subsurface evaluation should be performed prior to further design to evaluate the potential geologic and engineering constraints. Through the use of typical engineering design and construction practices, these concerns can be mitigated. Upon completion of the subsurface evaluation, a follow up report summarizing the geologic conditions and engineering concerns should be prepared to support future design.

Debris flows were identified through the available published data, as represented on Figure 4. These areas are minimal and constrained to the northwest and northwest corners of the property. During future design and construction, these hazards should be accounted for, including the potential use of debris flow barriers, if needed.

The site currently includes permitted sand and gravel mines, as represented on Figure 4. These areas should not pose a danger to future development in the area, as the existing highwalls and quarry operations are set back from the proposed development. As design

progresses or expands, an update to the minimum setback distances in relation to these areas should be evaluated.

During the performed site visits, the primary hazard identified at the site consisted of steepened slopes associated with the bluffs in the area. Future development should consider slope stability in determining setbacks from areas of concern. Current designs for the area require a minimum of 2(Horizontal):1(Vertical) to account for slope stability. Further refinement after the proposed boring program and laboratory testing program should be performed, including refining the soil parameters based on direct shear data.

For the identified prairie dog towns, future design and construction shall be performed according to local and federal regulations.

Limitations 7

The recommendations submitted in this report were based on the information revealed by our data review, published information research, and a review of historical data and reports prepared by previous entities pertaining to the project location. This report has been prepared to aid in determining the recommended geotechnical evaluation for the site development. We based our recommendations on information on the site and proposed linework as provided. Substantial changes in configuration, locations, or grades should be brought to our attention so we can modify our recommendations as needed.

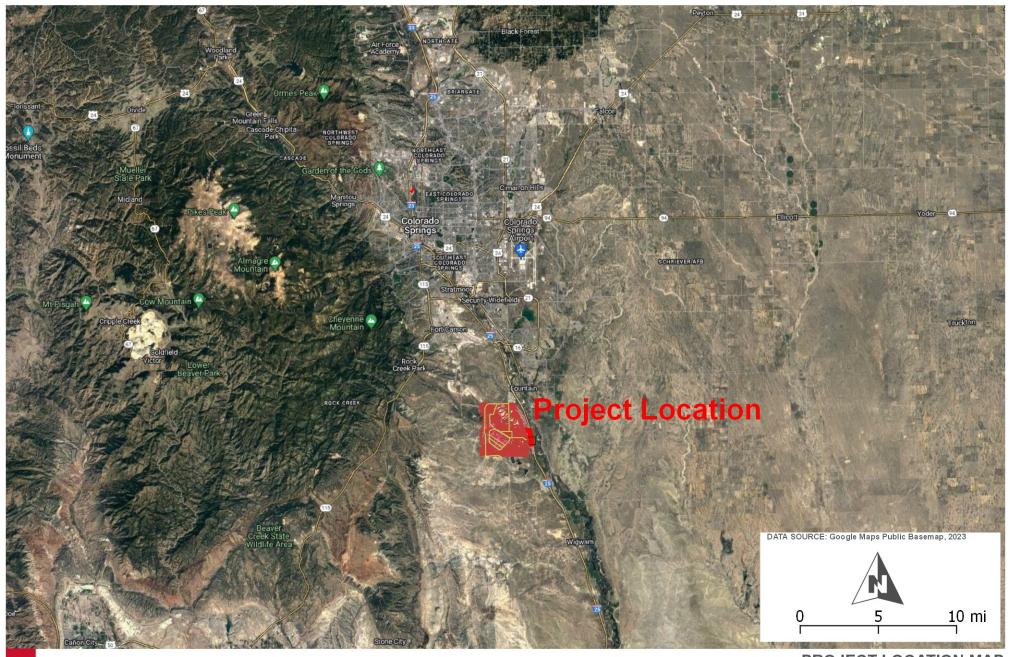
We have endeavored to complete the services identified herein in a manner consistent with that care and skill ordinarily exercised by members of the profession currently practicing in the same locality and under similar conditions as this project. No other representation, express or implied, is included or intended, and no warranty or guarantee is included or intended in this report, or other instrument of service.

8 References

- Natural Resource Conservation Service, June 4, 2023. "Web Soil Survey". United States Department of Agriculture, http://websoilsurvey.sc.egov.usds.gov
- United States Department of Agriculture Soil Conservation Service. June 4, 2023. "Soil Survey of El Paso County Area, Colorado".
- Colorado Department of Water Resources. July 20, 2023. "DWR Well Permit Research".
- Colorado Geological Survey (1991). "Results of the 1987-88 EPA Supported Radon Study in Colorado". Open File Report 91-4.
- Schwochow, S.D., Shroba, R.R., and Wicklein, P.C. (1974). "Atlas of Sand, Gravel, and Quarry Aggregate Resources, Colorado Front Range Counties". Colorado Geological Survey, Special Publication 5-B.
- Keller, J., TerBest, H, and Garrison, R. (2003). "Evaluation of Minerla and Mineral Fuel Potential of El Pason County State Mineral Lands Administered by the Colorado State Land Board". Colorado Geological Survey, Open File Report 03-07.

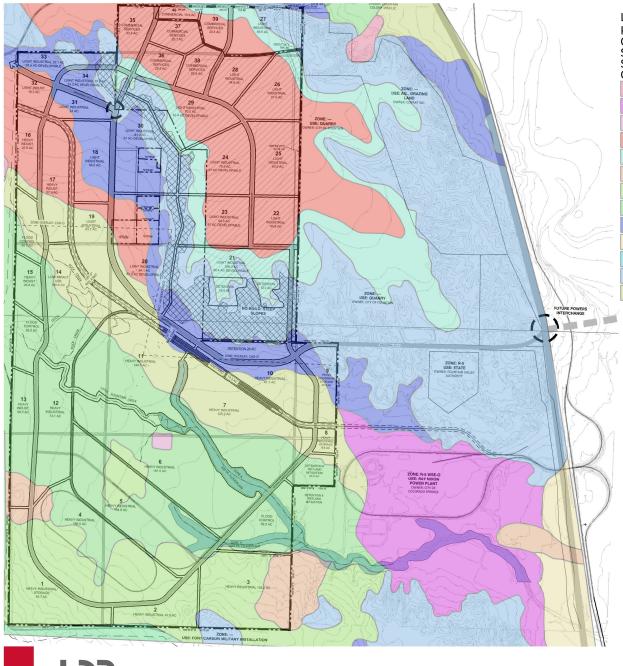
Appendix A

Figures



FJR

PROJECT LOCATION MAP SOUTHERN RAIL SPUR EL PASO COUNTY, COLORADO FIGURE 1



LEGEND Projects Colorado Southern Rail Park Soil Survey Clipped Soil Survey

101: Ustic Torriflvents, Loamy

107: Wilid Silt Loam, 0 to 3 percent slopes

111: Water

118: Fort Loam, 1 to 5 percent slopes, Cool

119: Fort Sandy Loam, 1 to 8 percent slopes, Cool

126: Midway Clay Loam, Dry, 1 to 15 percent slopes

127: Midway-Razor Clay Loams, Dry, 1 to 18 percent slopes

33: Heldt Clay Loam, 0 to 3 percent slopes

43: Kim Loam, 1 to 8 percent slopes

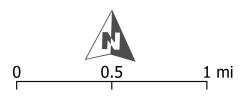
47: Limon Clay, 0 to 3 percent slopes

78: Sampson Loam, 0 to 3 percent slopes

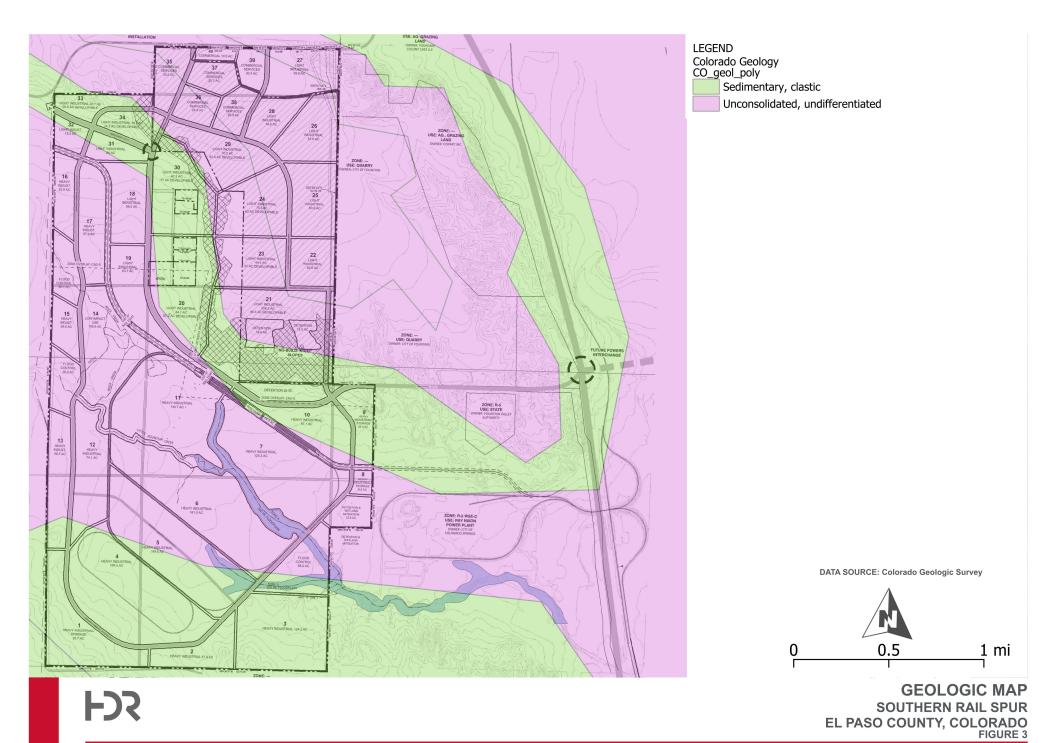
82: Schamber-Razor Complex, 8 to 50 percent slopes

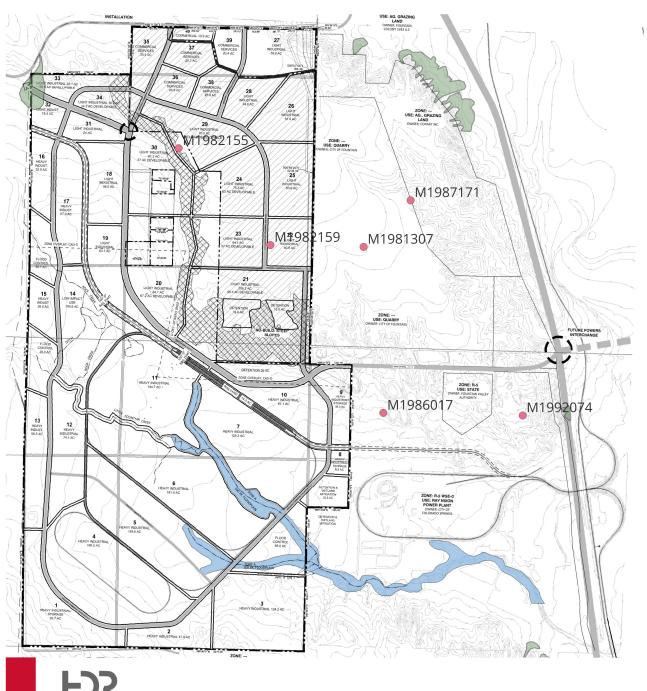
MzA: Manzanola Silty Clay Loam, Saline, 0 to 2 percent slopes

DATA SOURCE: Web Soil Survey, SSURGO, 2023



SOILS MAP SOUTHERN RAIL SPUR EL PASO COUNTY, COLORADO FIGURE 2





LEGEND Projects Colorado Southern Rail Park Permitted Mines

Permitted Mines

Debris Flow

OF_18_11_El_Paso_Polygons

DATA SOURCE: Colorado Geologic Survey



ECONOMIC CONSIDERATIONS SOUTHERN RAIL SPUR EL PASO COUNTY, COLORADO FIGURE 4

Appendix B

Well Construction and Test Reports

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			Address ይ	1294, Fou	ntain, Colorade	2

NOTE - SATISFACTORY COMPLETION REQUIRED FOR APPROVAL OF APPLICATION

STATE OF COLORADO **DIVISION OF WATER RESOURCES** OFFICE OF THE STATE ENGINEER **GROUND WATER SECTION**

REGEIVED

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COLORADO

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Original Blue and Duplicate Green Copy must be filed with the State Engineer within 30 days after well is completed. White copy is for the Owner and Yellow copy for SIGN BLUE COPY the Driller.

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WELL CONSTRUCTION AND TEST R 10/94 STATE OF COLORADO, OFFICE OF THE STATE E		For Office Use only RECEIVED								
1. WELL PERMIT NUMBERMH=32505 208	846	APR 2 7 1998								
2 OWNER NAME(S) Christian Ranches Mailing Address 136 Steven Dr. City, St. Zip Security, CO 80911		WATER RESOURCES STATE ENGINEER COLO								
Phone ()		208 846								
3. WELL LOCATION AS DRILLED: NW 1/4 SW 1/4, Sec DISTANCES FROM SEC. LINES:	: <u>24</u> Twp. <u>16</u>	S , Range 66 W 6th.								
1584 ft. from South Sec. line. and 550 (north or south) SUBDIVISION:	ft. from West (east or w	Sec. line. OR BLOCK FILING(UNIT)								
STREET ADDRESS AT WELL LOCATION:										
4. GROUND SURFACE ELEVATION ft. DRILLING METHOD Mud Rotary DITE Decided 2/10/98 TOTAL DEPTH 60 ft. DEPTH COMPLETED 60 ft.										
5. GEOLOGIC LOG:	6. HOLE DIAM.	(in.) From (ft) To (ft)								
Depth Description of Material (Type, Size, Color, Water Location)	8 3/4	10								
0-2 Clay 2-5 Rock & aravel	6_1/4	10 60								
5-11 Clay										
11-14 Rock & gravel 14-38 Clay & gravel	7. PLAIN CASIN OD (in) Kind									
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TESTING METHOD Bailed Static Level 13.5 ft. Date/Time measured 04/	09/98	, Production Rate								
	09/98	, Test length (hrs.)4								
13. I have read the statements made herein and know the contents thereof, an C.R.S., the making of false statements herein constitutes perjury in the sec	d that they are true to ond degree and is pu	my knowledge. [Pursuant to Section 24-4-104 (13)(a) nishable as a class 1 misdemeanor.]								
CONTRACTOR Can-America Drilling, Inc.	Phone (_	719) 541-2967 Lic. No. <u>1149</u> .								
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	NER INFORMATI WELL OWNER: 0		Utilities					DEC 2 0	2005
MAILING A	ADDRESS: P.O. B	ox 1103, Mail Cod	de 940					WATER RES	OURCES
	rado Springs				ZIP CODE:	80947		STATE ENG	INEER I.
	NE NUMBER: (71								
DISTANCE SUBDIVIS	CATION AS DRILL ES FROM SEC. LI ION:	NES:	ft. from [] N or ☐ S s	ection line a	nd , BL(ft. from	E or V	V section line.
must be m	GPS Location: GReters, Datum mus	st be NAD83 , Unit	t must be set	to true N,	Zone 12 o	r⊠ Zone 1	8 Easting:	525136.18	
	DDRESS AT WE			anch, Founta				: 42 76705.08	3
	SURFACE ELEVA						lollow stem au		
	MPLETED 11/14/0)5 T	OTAL DEPTI	1 30.50			MPLETED 30		eet
5. GEOLOGIC	-T		T	T			From		
Depth	Туре	Grain Size	Color	Water Loc	8-1/2		0	30	0.50
0	CL- alluvium	f-m	lt. brown	n/a	ļ 		-		
4	sc	<u>f</u>	It. brown	n/a					
5	Sandy CL	f-m	brown	n/a	7. PLAIN (
11	Sandy CL	f-c	brown	n/a	1		Wall Size (i		
16	CL-shale	n/a	olive-brwn	n/a	2	PVC	Sched 40	0	15.20
22 30	Shale EOB :	n/a	olive-brwn	26.20	 			_	
					7		ING: Screen	• •	
					8. FILTER	DACK.	a DAC	KER PLACEI	MENT.
					Material	Silica	Type	Bentonite c	
					Size	8-12		DOMOTICO O	
					Interval	13-30.20	Depth	2-13	
					10. GROU	TING REC	ORD		
	-				Material	Amount	Density	Interval	Placement
Remarks:					Conc		n/a	0-2	Hand —
11. DISINFE	CTION: Type n/a	heck how if Test D	ata is submit	ted on Form	Amt. Us	sed n/a /S 39 Sunn	lemental Well	Test	
		neek box ii rest b				о оо оарр	iomorna, iron	1001.	
	26.20 ft. evel ft.								
Remarks:	d the statements ma	ade herein and know	v the contents	thereof, and the	ey are true to	my knowled	ge. This docum	ent is signed a	nd certified in
accordance will	th Rule 17.4 of the V 108(1)(e), C.R.S., a	Nater Well Construc	tion Rules, 2 (CCR 402-2. [T]	he filing of a di	locument that	it contains false cense 1	statements is	a violation of
Company N				oo and/of 1690	Phor		<u> </u>	License Nu P.E.	ımber:
Mailing Add	ress: P.O. Box 11	03 Mail Code 940	0 Colorado 9	Springs CO 8	0947				
	St. P.O. BOX 11		Print N	lame and Title	vies. St	aft E	ngineer		Date 9 Dec 2005

FORM N "/GWS-3 04/200	1 STATE OF 0 1313 Sherman	WELL CONST COLORADO, OFFI in St., Room 818, Dei (303) 866-3587 Maii i-3589	CE OF THE Sover, CO 8020	•	For Office Use Only RECZIVED				
1. WELL	PERMIT NUMBER				267183				
	OWNER INFORMAT				<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>		DE	C 2 0 200	5
	OF WELL OWNER:	, , ,					- w	ATER RESOURCE	
	G ADDRESS: P.O.						Š	TATE ENGINEER	ES R
	Colorado Springs		E: CO		ZIP CODE:	80947	_	0010,	
	HONE NUMBER: (7		444	·					
DISTAN	OCATION AS DRIL NCES FROM SEC. I VISION:	LINES:	ft. from [] N or [] S s	ection line a	and	ft. from	☐ E or ☐ V	V section line.
Option	al GPS Location: 0	SPS Unit must use	the following	settings: For	rmat must b	e UTM , Uni	its Continue	Well Design 525394.88	ation: GP-8
STREE	T ADDRESS AT W	ELL LOCATION: C	lear Spring R	anch, Founta	in, Colorado	o	Northing	j: 4276755.49)
4. GROUN	ND SURFACE ELEV	/ATION <u>5,480</u>	feet	·····	DRILLING	METHOD I	lollow stem au	ıger	
	COMPLETED 11/16				feet	DEPTH CC	MPLETED 20).79 fe	et
5. GEOLO	GIC LOG:	-			6. HOLE D	NAM (in.)	From	ı (ft)	To (ft)
Depth	Туре	Grain Size	Color	Water Loc.	8-1/2		0	2	1.50
<u>o</u>	CL	n/a	brown	n/a	<u> </u>		_		
6	CL-gravell	f-c	brown	n/a					
8	SW	f-c	brown	10.80	7 . PLAIN (
11.5	CL	n/a	brown	n/a	1		Wall Size (i		. ,
16.5	SP .	f-c	brown	n/a	2	PVC	Sched 40	0	10.79
<u>19</u> 2 1.5	CL-shale EOB	n/a	brown	n/a					
					i		ING: Screen		
					8. FILTER		- A DAC	KER PLACE	AENT:
		-		1	Material	Silica	Type	Bentonite cl	
					Size	8-12	'ype	<u>Dentonite Ci</u>	iips .
					Interval	-	Depth	2-9	
					10. GROU	TING REC			
Remarks:					∃	Amount	Density n/a	Interval 0-2	Placement Hand
	· · · · · · · · · · · · · · · · · · ·					-			
	IFECTION: Type n/ _TEST DATA: ☐ 0		ata is submit	ted on Form I	Amt. U: Number GW		lemental Well	Test.	
1	METHOD vel <u>10.80</u> ft.	Date/Time meas	ured: <u>11/21/0</u>	5	1	Production	n Rate	gpm.	
1	Levelft.								
accordance	read the statements me with Rule 17.4 of the 91-108(1)(e), C.R.S., a	Water Well Construc	ction Rules, 2 C	CR 402-2. [Th	ne filing of a d	locument tha	it contains false		
Compan					Phor			License Nu P.E.	mber:
Mailing A	Address: P.O. Box 1	103, Mail Code 94	0, Colorado S	prings, CO 8	0947				
Signatur	e: ,		Print N Rebe	ame and Title	iles, Sta	ff Eno	ineer		Date 9Dec 2005

WELL LOG

*		,	ow Drilled a vya	· -:	<u> </u>
FROM FEET	TO FEET	TYPE OF MATERIAL	REMARKS (such as Cementing, Packing, Shut off, etc.)	Indicate Water Bearing Formation	Indicate Perforated Casing Location
0	8	Joh Soil			
8	18	Mared Saint & Havel W/clay			
18	28	gravel			
					<u></u>
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		and the second s	A series of the		
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			, <u>- 4 (- 11) - 180 - 1</u>		
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		and the second s	4		
	<u>'</u>				
	[V		.1	

WELL DRILLER'S STATEMENT

This well was drilled under my supervision and the above information is true and correct to the best of my knowledge and belief.

Signed My Christian

3y_____

19 64

Appendix C

Historical Subsurface Information

Drilling Date Start 1 Finish Total [Гіте Time	Schmidt Construction Aug. 2002	Property Parcel Hole Location Logged By Drill Method	Christian Christian EC Backhoe		Hole # Sheet 1 Surface Ele Water Dep		Of 5687 None	1		
Comm	nents:										
Graph Depth	ical log Litho.	Description		From (feet)	To (feet)	Interval Thickness	Sample Interval	LBW	Lab <i>F</i>	Analysis %Gr.	Note
	Littio.	Shale		zero	25	25	interval	LDVV	1 101	7001.	14010
2											
6											
8											
10											
12											
14											
16											
18											
20											
22 24											
26		T.D. 25"									
28											
30											
32											
34											
36											
38											
40 42											
44											
46											
48											
50											

Drilling	ı Co	Schmidt Const	ruction	Property	Christian		Hole #	98-2				
Date		Aug. 2002	. GOLIOTI	Parcel	Christian		Sheet 1		Of	1		
Start T	ime	_		Hole Location			Surface El		5627			
Finish Total [14'		Logged By Drill Method	EC Backhoe		Water Dep	oth	None			
TOTAL	<i>р</i> ерит	14		Dilli Metriou	Dackine							
Comm	ents:											
Graph	ical log		Description			То	Interval	Sample		Lab A	Analysis	
Depth	Litho.	Overburden				(feet)	Thickness 4	Interval	LBW	FM	%Gr.	Note
2		Overburden			zero	4	4					
4		Shale			4	14	10					
6		Onaio			·							
8												
10												
12												
14		T.D. 14'										
16												
18												
20												
22 24												
24												
26												
28												
30												
32												
34												
36												
38												
40												
42												
44												
46												

Comments: Graphical log Description From To Interval Sample Lab Analysis	Drilling Co. Date Start Time Finish Time Total Depth		Property Parcel Hole Locatior Logged By Drill Method	EC	1	Hole # Sheet 1 Surface El Water Dep		Of 5608 None	1		
Operburden	Comments:	20	Dilli Metriou	Dackiloe	; 						
Operburden	Graphical lo	g Descriptio	on .	From	То	Interval	Sample		Lab	Analysis	
2	Depth Litho					Thickness		LBW		%Gr.	Note
10	4	Overburden		zero	7	7					
12 Shale		Gravel		7	12	5					
Shale 12 20 8 8 16 18 20											
18		Shale		12	20	8					
22 T.D. 20' 24 26 28											
24		T.D. 20'		1							
26		_									
28		_									
		1									
		1									
32		_									

		Christian	Hole # 98-4		
Aug. 2002	Parcel	Christian	Sheet 1	Of	1
_	Hole Location	1	Surface Elev.	5585	
	Logged By	EC	Water Depth	None	
25'	Drill Method	Backhoe	•		
		Hole Location Logged By	Hole Location Logged By EC	Hole Location Surface Elev. Logged By EC Water Depth	Hole Location Surface Elev. 5585 Logged By EC Water Depth None

Comm	ienis.									
Graph	ical log	Description	From	То	Interval	Sample		Lab /	Analysis	•
Depth	Litho.		(feet)	(feet)	Thickness	Interval	LBW	FM	%Gr.	Note
2	(Overburden	zero	17	17					
4										
6										
8										
10										
12 14										
16										
18	(Gravel and Rock	17	25	8					
20										
22										
24										
26		T.D. 25'	1							
28										
30										
32										
34										
36 38										
40										
42										
44										
46										
48										
50										

Drilling Co.	Schmidt Construction	Property	Christian	Hole # 98-5		
Date	Aug. 2002	Parcel	Christian	Sheet 1	Of	1
Start Time		Hole Locatio	n	Surface Elev.	5579	
Finish Time		Logged By	EC	Water Depth	None	
Total Depth	25'	Drill Method	Backhoe			

Comments:

	nents.									
Graph	nical log Litho.	Description	From	To	Interval Thickness	Sample	LDVA	Lab /	Analysis %Gr.	In .
Depth	Litho.			(feet)	Thickness	Interval	LBW	FM	%Gr.	Note
2 4 6	Overburden		zero	19	19					
8										
10										
12										
14 16										
18										
20	Rock		19	25	6					
22										
26	T.D. 25'									
28										
30										
32 34										
36										
38										
40 42										
44										
46										
48										
50]			

Drilling Co.	Schmidt Construction	Property	Christian		Hole #	98-6				
Date	Aug. 2002	Parcel	Christian		Sheet 1		Of	1		
Start Time Finish Time		Hole Location Logged By	EC		Surface Ele Water Dep		5572 None			
Total Depth	20'		Backhoe							
Comments:										
Graphical log	Description			То	Interval	Sample		Lab /	Analysis	
Depth Litho.					Thickness	Interval	LBW	FM	%Gr.	Note
2	Overburden		zero	6	6					
6										
8	Gravel		6	12	6					
10										
12	Dirt(sand)		12	20	8					
14			12	20						
16	-									
20										
22	T.D. 20'									
24										
26	-									
30										
32	-									
34										
36	-									
40	-									
42										
44	-									

Drilling Co.	Schmidt Construction	Property	Christian	Hole # 98-7			
Date	Aug. 2002	Parcel	Christian	Sheet 1	Of	1	
Start Time		Hole Locatio	n	Surface Elev.	5570		
Finish Time		Logged By	EC	Water Depth	None		
Total Depth	20'	Drill Method	Backhoe				

Comments:

_					T	T =				
Graph Depth	ical log	Description	From	To (feet)	Interval Thickness	Sample	I DIM	Lab <i>F</i>	Analysis	Note
Depth	LITIO.	Overburden	(feet) zero	(reet) 12	1 nickness	merval	LBW	ΓIVI	%Gr.	Note
2		Overbuiden	2010	12	12					
4										
6										
8										
10										
12										
		Gravel	12	14	2					
14		Dirt(sand)	14	20	6					
16		(561.6)								
18		-								
20		T.D. 20'	-							
22		11.0. 20								
0.4										
24		1								
26										
28		-								
30		-								
32]								
34		-								
36		-								
38]								
40		4								
40		<u> </u>								
42										
44		1								
46		1								
48]								
50		-								
30	<u> </u>		I	<u> </u>	1		<u> </u>			

Drilling Co. Date Start Time Finish Time Total Depth	Schmidt Construction Aug. 2002	Property Parcel Hole Location Logged By Drill Method	Christian Christian EC Backhoe		Hole # Sheet 1 Surface Ele Water Dep		Of 5535 None	1		
Comments: Graphical log	Description		From	То	Interval	Sample	Γ	l ab /	Analysis	
Depth Litho.	Description		(feet)	(feet)	Thickness		LBW	FM	%Gr.	Note
2	Dirt(sand)		zero	25	25					

T.D. 25'

Drilling Co.	Schmidt Construction	Property	Christian	Hole # 98-9			
Date	Aug. 2002	Parcel	Christian	Sheet 1	Of	1	
Start Time		Hole Location	n	Surface Elev.	5522		
Finish Time		Logged By	EC	Water Depth	None		
Total Depth	25'	Drill Method	Backhoe				

Comments:

_			1	1	1.	1 =	•			
Graph	ical log	Description	From	To	Interval	Sample	. =	Lab A	Analysis	
Depth	Litho.			(feet)	Thickness	Interval	LBW	FM	%Gr.	Note
		Dirt(sand)	zero	24	24					
2										
1 .										
4										
6										
8										
1 "										
10										
12										
14										
16										
18										
10										
20										
22										
24										
		Gravel	24	25	1					
26		T.D. 25'								
00										
28										
30										
30										
32										
02										
34										
36										
38										
40										
40										
42										
74										
44										
46										
1										
48										
50										

Drilling Co.	Schmidt Construction	Property	Christian	Hole # 98-10			
Date	Aug. 2002	Parcel	Christian	Sheet 1	Of	1	
Start Time		Hole Locatio	n	Surface Elev.	5539		
Finish Time		Logged By	EC	Water Depth	None		
Total Depth	29'	Drill Method	Backhoe				

Comments:

				1	1.	1 =	•			
Graph	ical log	Description	From	То	Interval	Sample	. =	Lab A	Analysis	
Depth	Litho.			(feet)	Thickness	Interval	LBW	FM	%Gr.	Note
		Dirt(sand)	zero	24	24					
2										
1 ,										
4										
6										
0										
8										
10										
12										
14										
4.0										
16										
18										
10										
20										
22										
24										
		Gravel	24	29	5					
26										
28										
20										
30		T.D. 29'	-							
32										
34										
36		1								
38		1								
36										
40		1								
		1								
42										
44										
		1								
46										
40		1								
48		1								
50		1								
50			l		J					

Drilling Co. Schmidt Construction Property Christian Hole # 98-11 Of 1		1		98-11						ing Co.
Start Time Finish Time Logged By Total Depth 25' Comments: Graphical log Depth Litho. Dirt(sand) 2 4 6 8 10 11 12 14 16 18 20 22 24 24 24 24 24 26 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20		I					Christian	Dorool	Aug 2002	
Finish Time Total Depth 25' Drill Method Backhoe Comments: Graphical log Description From (feet) To (feet) Thickness Interval LBW FM %Gr 2									Aug. 2002	
Total Depth 25' Drill Method Backhoe Comments: Graphical log Description From To (feet) Thickness Interval LBW FM %Gr 2										
Comments: Graphical log Description From To Interval Sample Lab Analys Thickness Interval LBW FM %Gr			none	otri	water Dep		EU Bookboo	Logged By	25'	
Company Comp							Dacknoe	Dilli Metriod	25	прерит
Depth Litho. (feet) (feet) Thickness Interval LBW FM %Gr										nments:
Depth Litho. (feet) (feet) Thickness Interval LBW FM %Gr		Lab Analysis	L	Sample	Interval	То	From		Description	ohical log
2 Dirt(sand) zero 25 25 4 6 8 10 12 14 16 18 20 22 24 1				Interval	Thickness				2 2001, p.101	th Litho.
2									Dirt(sand)	
6									,	
8 10 12 14 16 18 20 22 24										
10										
12										
14 16 18 20 22 24)
16										2
18										l .
20										5
22 24 24										3
22 24 24)
24										
							_		TD 25'	
									ט. ט. וו.	
30										
32										2
34										1
36										6
										3
38	1									,

Drilling Co.	Schmidt Construction	Property	Christian		Hole #	98-12				
Date	Aug. 2002	Parcel	Christian		Sheet 1		Of	1		
Start Time		Hole Location			Surface Ele		5565			
Finish Time Total Depth	25'	Logged By Drill Method	EC Backhoe		Water Dep	tn	None			
Total Deptil	23	Dilli Metriod	Dackiloe							
Comments:										
0 12 11	D		le	I -	11.71	0	Ī	1 -1 -	\ I ' .	
Graphical log Depth Litho.	Description		From (feet)	To (feet)	Interval Thickness	Sample	LBW	FM	Analysis %Gr.	Note
эсрин Енно.	Dirt(sand)		zero	25	25	interval	LDVV	1 171	7001.	14010
2										
4	1									
6										
0										
8										
10										
40										
12										
14										
14										

T.D. 25'

Date Aug. 2	1000		Christian	Hole # 98-13		
	2002	Parcel	Christian	Sheet 1	Of	1
Start Time		Hole Location		Surface Elev.	5502	
Finish Time		Logged By	EC	Water Depth	None	
Total Depth 25) ¹	Drill Method	Backhoe	·		

			1_	1	1.					
Graph Depth	ical log	Description	From	To	Interval	Sample	LDW	Lab A	Analysis	Note
Deptn	Litno.	Dirt(sand)	(feet) zero	(feet) 25	Thickness 25	ınterval	LBW	FM	%Gr.	Note
2		Dirt(Sariu)	2610	25	25					
4										
6										
8										
10										
12										
14										
16										
18										
20										
22										
24										
26		T.D. 25'								
28										
30										
32										
34										
36										
38										
40										
42										
44										
46										
48										
50]					

Drilling Co.	Schmidt Construction	Property	Christian			98-14				
Date	Aug. 2002	Parcel	Christian	l	Sheet 1		Of	1		
Start Time		Hole Location			Surface Ele		5510			
Finish Time		Logged By	EC		Water Dep	th	None			
Total Depth	25'	Drill Method	Backhoe	!						
Comments:										
Graphical log	Description		From	То	Interval	Sample		Lab /	Analysis	
Depth Litho.			(feet)	(feet)	Thickness		LBW	FM	%Gr.	Note
2	Dirt(sand)		zero	25	25					
20										

T.D. 25'

Drilling Co.	Schmidt Construction	Property	Christian	Hole # 98-15		
Date	Aug. 2002	Parcel	Christian	Sheet 1	Of	1
Start Time	_	Hole Locatio	n	Surface Elev.	5550	
Finish Time		Logged By	EC	Water Depth	None	
Total Depth	24'	Drill Method	Backhoe	•		

Comm										
Graph	ical log Litho.	Description	From	To (feet)	Interval Thickness	Sample		Lab A	Analysis	
Depth	Litho.		(feet)	(feet)	Thickness	Interval	LBW	FM	%Gr.	Note
2	Shale		zero	24	24					
4										
6										
8										
10										
12 14										
16										
18										
20										
22										
24	T.D. 24'									
26 28										
30										
32										
34										
36										
38										
40										
42										
44 46										
48										
50										

Drilling Co.	Schmidt Construction	Property	Christian	Hole # 98-16		
Date	Aug. 2002	Parcel	Christian	Sheet 1	Of	1
Start Time		Hole Location	on	Surface Elev.	5540	
Finish Time		Logged By	EC	Water Depth	None	
Total Depth	24'	Drill Method	Backhoe			
Comments:						

Granh	ical log	Description	From	То	Interval	Sample		l ah /	Analysis	
Denth	Litho.	Description	(feet)	(feet)	Thickness	Interval	LBW	FM	%Gr.	Note
Борин	Liti10.	Shale	zero	24	24	ii itoi vai	LDVV	1 101	7001.	11010
2		5.16.15	20.0							
4										
6										
6										
8										
10										
12										
14										
16										
18										
20										
22										
24										
26		T.D. 24'								
28										
30										
32										
34										
36										
38										
40										
42										
44										
46										
48										
50					j					

Orilling Co.	Schmidt Construction	Property	Christian	Hole # 98-17		
Date	Aug. 2002	Parcel	Christian	Sheet 1	Of	1
Start Time		Hole Location	1	Surface Elev.	5540	
Finish Time		Logged By	EC	Water Depth	None	
Total Depth	24'	Drill Method	Backhoe			

Comm	nents:									
Graph	ical log Litho.	Description	From	То	Interval	Sample		Lab /	Analysis	
Depth	Litho.	Chala	(feet)	(feet)	Thickness	Interval	LBW	FM	%Gr.	Note
2		Shale	zero	24	24					
4										
6										
8										
10										
12										
14										
16										
18										
20										
22										
24		T.D. 24'								
26										
28										
30										
32										
34										
36										
38										
40										
42										
44										
46										
46										
48										
50										
	1		I .	1	_		1			

Drilling Co.	Schmidt Construction	Property	Christian	Hole # 98-18			
Date	Aug. 2002	Parcel	Christian	Sheet 1	Of	1	
Start Time		Hole Locatio	n	Surface Elev.	5560		
Finish Time		Logged By	EC	Water Depth	None		
Total Depth	20'	Drill Method	Backhoe				

			I	I						
Graphi	cal log	Description	From	To	Interval	Sample	I DVV	Lab /	Analysis	Nicto
Depth					Thickness	ınterval	LBW	FM	%Gr.	Note
2		Dirt	zero	3	3					ı
-										İ
4		Gravel	3	20	17					İ
										ı
6										ì
8										ı
°										ı
10										ı
										i
12										ı
14										i
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16										į
40										į
18										į
20										ı
		T.D. 20'								
22										ı
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26										ı
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28										į
30										i
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32										ı
24										i
34										i
36										i
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38										į
40										į
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42										i
4.										i
44										i
46										i
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48										İ
50										i
50										

Drilling Co.	Schmidt Construction	Property	Christian		Hole #	98-19	٥.			
Date Start Time	Aug. 2002	Parcel Hole Location	Christian		Sheet 1 Surface Ele	OV	Of 5560	1		
Finish Time		Logged By	EC		Water Dep		None			
Total Depth	25'	Drill Method	Backhoe		Trato. Bop		110110			
Comments:										
Graphical log	Description		From	То	Interval	Sample		Lab A	Analysis	
Depth Litho.			(feet)	(feet)	Thickness		LBW	FM	%Gr.	Note
	Dirt		zero	24	24					
2										
4										
6										
8										
10										
40										
12										

_							ĺ
4							
6							
8							
10							
12							
14							
14							
16							
18							
20							
22							
24							
	Gravely Dirt	24	25	1			
26	T.D. 25'						
28							
30							
32							
34							
36							
38							
40							
42							
44							
46							
48							
50							

Drilling Date Start 1 Finish Total I	Time Time Depth	Schmidt Construction Aug. 2002	Property Parcel Hole Location Logged By Drill Method	Christian Christian EC Backhoe		Hole # Sheet 1 Surface Ele Water Dep		Of 5560 None	1		
Graph	ical log	Description		From	To	Interval	Sample	LBW	Lab <i>i</i> FM	Analysis	Note
Depth	Litho.	Dirt		(feet) zero	(feet) 25	Thickness 25	intervai	LDVV	FIVI	%Gr.	Note
2											
4											
6 8											
10											
12											
14											
16											
18 20											
22											
24											
26		T.D. 25'		1							
28											
30 32											
34											
36											
38											
40											
42 44											

Company	Comm			Logged By Drill Method	EC Backhoe		Surface Ele Water Dep		5560 None			
Depth Litho (feet) (feet) Thickness Interval LBW FM %Gr. Note	Graph	cal log	Description		From	То	Interval	Sample		Lab A	Analysis	
2	Depth	Litho.			(feet)	(feet)	Thickness	Interval	LBW	FM	%Ğr.	Note
4	2		Dirt		zero	12	12					
6 8 10 10 12 12 25 13 13 14 16 18 20 22 24 26 T.D. 25 28 30 30 32 32 34 34 34 34 34 34 34 34 34 34 34 34 34	2											
8	4											
10	6											
10	0											
12 Shale 14 16 18 20 22 24 24 26 T.D. 25' 28 30 30 32 34 34	0											
Shale 12	10											
14	12											
16 18 20 22 24 26	1/1		Shale		12	25	13					
18												
20	16											
22	18											
22	20											
24												
26T.D. 25' 28 30 32 34	22											
28	24											
28	26		T.D. 25'									
30												
32 <u> </u>	28											
34	30											
34	32											
36	34											
	36											
38	38											
40	40											
	42											
44	44											
46	46											
	48											

Drilling Date Start 1 Finish Total [ime Time	Schmidt Construction Aug. 2002 25'	Property Parcel Hole Location Logged By Drill Method	Christian Christian EC Backhoe		Hole # Sheet 1 Surface El Water Dep		Of 5560 None	1		
Comm	ents:										
Graph	ical log	Description		From	То	Interval	Sample		Lab /	Analysis	
Depth	Litho.			(feet)	(feet)	Thickness	Interval	LBW	FM	%Gr.	Note
2		Dirt		zero	25	25					
4											
6											
8											
10											
12											
14											
16											
18 20											
22											
24											
26		T.D. 25'									
28											
30											
32											
34											
36											
38											
40											
42											

D#III: O :	Colombiat Compton of	Duont-	Obaletta		Hala #	00.00				
Drilling Co. Date	Schmidt Construction	Property Parcel	Christian Christian		Hole # Sheet 1	98-23	Of	1		
Start Time	Aug. 2002	Hole Location			Surface El	0.7	5560	1		
Finish Time			EC				None			
Total Depth	25'	Logged By Drill Method	Backhoe		Water Dep	vu I	INOHE			
Total Deptil	20	Dilli Metriod	Dackine							
Comments:										
Graphical log	Description		From	То	Interval	Sample		Lab A	Analysis	
Depth Litho.	1		(feet)	(feet)	Thickness	Interval	LBW	FM	%Gr.	Note
	Dirt		zero	25	25					
2										
4										
6										
8										
10										
12										
14										
16										
18										
20										
22										
24										
26	T.D. 25'									
28										
30]									
32										
34	1									
36										
38										
40	-									
]									

Drilling Co.	Schmidt Construction	Property	Christian		Hole #	98-24				
Date	Aug. 2002	Parcel	Christian	l	Sheet 1		Of	1		
Start Time		Hole Location			Surface El		5560			
Finish Time Total Depth	25'	Logged By Drill Method	EC Backhoe	:	Water Dep	otn	None			
Comments:										
Graphical log	Description		From	То	Interval	Sample			Analysis	
Depth Litho.			(feet)	(feet)	Thickness	Interval	LBW	FM	%Gr.	Note
2 4 6 8	Shale		zero	25	25					
12										

T.D. 25'

Drilling Date Start T Finish Total I	Time Time Depth	Schmidt Construction Aug. 2002 25'	Property Parcel Hole Location Logged By Drill Method	Christian Christian EC Backhoe		Hole # Sheet 1 Surface El Water Dep		Of 5560 None	1		
Comm	ienis.										
Graph	ical log	Description		From (feet)	To (fact)	Interval Thickness	Sample	LBW	Lab /	Analysis %Gr.	Note
Depth	Litho.	Dirt		zero	(feet) 25	25	miervai	LDVV	FIVI	%GI.	Note
2											
4											
6											
8											
10											
12											
14											
16											
18											
20											
22											
24											
26		T.D. 25'									
28											
30											
32											
34											
36											
38											
40											
42											
I	Ī					1	1	1			ı

Drilling Co. Spectrum Exploration Inc. Property Fountain Hole # C-02-1 Date 8/19/2002 Parcel Cline Sheet 1 Of 1 Start Time 2:00 PM Hole Location Surface Elev. 5674 Finish Time 3:15 PM Logged By EC Water Depth None Total Depth 29 Drill Method Cont. Sampler

Granh	ical log	Description	From	То	Interval	Sample		Lah A	Analysis	
Depth	Litho.	. Doosilption	(feet)	(feet)	Thickness	Interval	LBW	FM	%Gr.	Note
2		Silt, dark brown, sandy, loess	zero	1.5	1.5					
4		Silt, sandy, tan, mottled w/gray clay 4-9 OVB	1.5	10	8.5					
6 8										
10		SAND, reddish-pink, very gravelly	10	19.5	9.5					
12		JOAND, reddisir-plink, very gravelly	10	19.5	9.5					
14						14 to 19.5	4.5	2.98	35.2	S&G
16 18										
20		CLAY, dark yellow brown, silty	19.5	26	6.5					
22		, , , , , , , , , , , , , , , , , , , ,								
24										
26		SHALE, weathered, olive green, claystone	26	29	3					
28		0. 7. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.								
30										
32										
34 36										
38										
40										
42										
44										
46										
48										
50										

Drilling Co. Spectrum Exploration Inc. Property Fountain Hole # C-02-2 Date Aug. 19, 2002 Parcel Cline Sheet 1 Of 1 Start Time 3:30 AM Hole Location Surface Elev. 5672 4:30 AM Finish Time Logged By EC Water Depth None Total Depth 24 Drill Method Cont. Sampler

			•				•			
Graph	ical log	Description	From	То	Interval	Sample		Lab /	Analysis	
Depth	Litho.		(feet)	(feet)	Thickness	Interval	LBW	FM	%Gr.	Note
2		Silt, light yellow brown, clayey, loess	zero	9	9					
4 6										
8										
10		Silt, dark brown	9	11	2	9 to 11	15.5	1.91	25.6	S&G
12		Sand and Gravel, reddish pink, med- coarse sand, gravel 20%	11	17	6	11 to 17	4.9	3.01	38.6	S&G
14		coarse sand, graver 20%								
16										
18		Clay, silty, greenish brown, possibly weathered bedrock	17	24	7					
20										
22										
24										
26		Total Depth 24								
28										
30										
32										
34										
36										
38										
40										
42										
44										
46										
48										
50										

Drilling Co. Spectrum Exploration Inc. Property Fountain Hole # C-02-3 Date Aug. 19, 2002 Parcel Cline Sheet 1 Of 1 Start Time 5:00 PM Hole Location Surface Elev. 5643 6:00 PM Finish Time Logged By EC Water Depth None Total Depth 29 Drill Method Cont. Sampler

		<u> </u>	I=	I	I					
Graph	ical log	Description	From	To	Interval	Sample	1 5	Lab /	Analysis	
Depth	Litho.		(feet)	(feet)	Thickness	Interval	LBW	FM	%Gr.	Note
2		Silt, clayey, yellow brown, loess	zero	7	7					
4 6										
8		Clay, red/brown, hard, compact	7	9	2					
10		Sand, reddish orange, very gravelly, sand	9	19	10	9 to 19	4.8	2.78	49.7	S&G
12		is med-coarse, some 3-4" rocks present								
14										
16										
18										
20		As above, less gravel, cleaner, esp. 19-22	19	28.5	9.5	19 to 28.5	4.3	2.95	44.8	S&G
22										
24 26										
28										
30		Weathered Shale	28.5	29	0.5					
32		Total Depth 29								
34										
36										
38										
40										
42										
44										
46 48										
50										

Drilling Co. Spectrum Exploration Inc. Property Fountain Hole # C-02-4 Date Aug. 20, 2002 Parcel Cline Sheet 1 1 Of 1 Start Time 7:30 AM Hole Location 5645 Surface Elev. 8:30 AM Finish Time Logged By EC Water Depth None Total Depth 29 Drill Method Cont. Sampler

0	a a l Uri	Daniel Co.	[Fas. 17]	IT.	Ilmaam - I	0		1 -1 -	\ l '	
Graphi	cal log	Description	From	To	Interval	Sample	LDW	Lab A	Analysis	Note
Depth		T	(feet)	(feet)	Thickness	ınterval	LBW	FM	%Gr.	Note
2		Topsoil, loess, clayey silt	zero	1.5	1.5					
_		Sand & gravel, red-pink, med-coarse sd.	1.5	14	12.5	1.5 to 14	3.1	3.13	49.4	S&G
4		cana a grand, rea pinii, mea ecane can					0	00		00.0
6										
8										
0										
10										
12										
14										
'-		Clay, greenish brwn, weathered bedrock	14	29	15					
16		,								
18										
20										
22										
1										
24										
26										
28										
00										
30										
32										
34										
36										
30										
38										
40										
42										
442										
44										
46										
48										
1										
50										

Drilling Co.	Spectrum Exploration Inc.	Property	Fountain	Hole # C-02-5		
Date	Aug. 21, 2002	Parcel	Cline	Sheet 1	Of	1
Start Time		Hole Location	า	Surface Elev.	5657	
Finish Time		Logged By	EC	Water Depth	None	
Total Depth	24	Drill Method	Cont. Sampler			
		·				·

Granh	ical log	Description	From	То	Interval	Sample	ı	l ah /	Analysis	
Depth	Lithn	Description	(feet)	(feet)	Thickness	Interval	LBW	FM	%Gr.	Note
2		Silt, yellow/brown, loess	zero	4	4	morvar	LOW	1 111	7001.	11010
4		Clay, dark greenish brown	4	8	4					
6 8										
10		Sand & Gravel, dirty, rusty brown sand is fine to medium	8	11	3	8 to 11	6.1	2.61	31.5	S&G
12 14		Sand and gravel, cleaner than above, rusty-red, sand is medium	11	19	8	11 to 19	5.4	2.69	25.7	S&G
16										
18		Count fine metals	40	00		40 += 00	20.4	0.00	0.4	OI.
20		Sand, fine, rusty-red Clay, greenish brown	19 20	20 24	4	19 to 20	32.4	0.86	0.1	CL
24										
26 28		Total Depth 24'								
30										
32 34										
36										
38										
40 42										
44										
46 48										
50										

Drilling Co.	Spectrum Exploration Inc.	Property	Fountain	Hole # C-02-6		
Date	Aug. 21, 2002	Parcel	Cline	Sheet 1	Of	1
Start Time		Hole Location		Surface Elev.	5638	
Finish Time		Logged By	EC	Water Depth	None	
Total Depth	24	Drill Method	Cont. Sampler			

Comm										
Graph	ical log	Description	From	To	Interval	Sample	I DVV	Lab A	Analysis	Nista
Depth	Litho.	Topsoil, very rocky, brown	(feet)	(feet) 1.5	Thickness 1.5	interval	LBW	FM	%Gr.	Note
2			zero							
4		Sand & Gravel, dirty, reddish pink, very rocky, sand is fine	1.5	9	7.5	1.5 to 9	91.5	2.99	36.3	CL
		rooky, sand is fine								
6										
8										
10		Sand & Gravel, rusty brown, medium sand not very rocky, cleaner than above	9	20	11	9 to 20	3.6	3.02	31.4	S&G
12		The very rooky, dicarior than above								
14										
16										
18										
20										
22		Clay, greenish brown	20	24	4					
24										
26		Total Depth 24'								
28										
30										
32										
34										
36										
38										
40										
42										
44										
46										
48										
50										

1

Caphical log Description From To Interval Sample Lab Analysis Lab Malysis Lab Maly	Comm	iento.									
Silt, yellow brown, loess	Graph	ical log	Description			Interval	Sample	15	Lab /	Analysis	N
Clay, dark yellow brown 7 12 5	Depth	Litho.	Cilt valley brown loos				Interval	LBW	FM	%Gr.	Note
Clay, dark yellow brown 7 12 5	2		Slit, yellow brown, loess	zero	/	,					
8 Clay, dark yellow brown 7 12 5											
Sand & Gravel, dirty 12 13 1 12 to 13 5.8 2.86 54.7 Shale, weatherd, greenish brown 13 17 4 Total Depth 17' Total Depth 17' 20 22 24 26 28 30 32 34 36 38 40 42 44						_					
Sand & Gravel, dirty 12 13 1 12 to 13 5.8 2.86 54.7 Shale, weatherd, greenish brown 13 17 4			Clay, dark yellow brown	7	12	5					
Sand & Gravel, dirty Shale, weatherd, greenish brown 13 17 4 Total Depth 17' 20 22 24 24 26 30 30 32 34 36 38 40 40 42 44 44											
14 Shale, weatherd, greenish brown 13 17 4 16 Total Depth 17' 20 22 24 26 28 30 32 34 36 38 40 40 42 44 44			Sand & Gravel, dirty		13		12 to 13	5.8	2.86	54.7	G
Total Depth 17' 20			Shale, weatherd, greenish brown	13	17	4					
Total Depth 17' 20											
20	18		Total Deoth 17'								
24 26 28 30 32 34 36 38 40 42 44	20										
26 28 30 32 34 36 38 40 42 44	22										
28 30 32 34 36 38 40 42 44	24										
30	26										
32											
34 36 38 40 42 44											
36 38 40 42 44											
38 40 42 44											
40 42 44											
42											
44											
48											
50											

Drilling Co.	Spectrum Exploration Inc.	Property	Fountain	Hole #	C-02-8		
Date	Aug. 21, 2002	Parcel	Cline	Sheet 1		Of	1
Start Time		Hole Location	า	Surface Ele	ev.	5658	
Finish Time		Logged By	EC	Water Dep	th	None	
Total Depth	34	Drill Method	Cont. Sampler				

							1			
Graph	ical log	Description	From	To	Interval	Sample			Analysis	
Depth	Litho.		(feet)	(feet)	Thickness	Interval	LBW	FM	%Gr.	Note
2		Silt, light yellow brown, loess	zero	7	7					
4 6										
1 "										
8		Clay, dark brown, sandy Clay, as above	7 8	8	1					
10		Sand & Gravel, rusty brown/dirty fine to medium sand	9	19	10	9 to 19	6.3	2.86	37.8	S&G
12		ine to medium sand								
14										
16										
18										
20		Sand & gravel, rusty brown cleaner than above, coarse sand	19	30	11	19 to 30	5.3	2.93	33.7	S&G
22		clearier triair above, coarse sario								
24										
26										
28										
30		Clay graphich brown	20	24	4					
32		Clay, greenish brown	30	34	4					
34										
36		Total Depth 34'								
38										
40										
42										
44										
46										
48										
50										

Drilling Date Start T Finish Total D	ime Time Depth	Spectrum Exploration Inc. Aug. 22, 2002	Property Parcel Hole Location Logged By Drill Method	Fountain Fountain EC Cont. Sai		Hole # Sheet 1 Surface Ele Water Dep		Of 5703 None	1		
Graphi	ical log	Description		From	То	Interval	Sample		Lab A	Analysis	
Depth	Litho.			(feet)	(feet)	Thickness		LBW	FM	%Gr.	Note
2		Silt, light yellow brown		zero	6.5	6.5					
4											
6		Clay, rusty red, silty		6.5	8.5	2					
8		Sand and gravel, very dirty. (Calicha rock	8.5	14	5.5	8.5 to 14	6.8	2.92	28.1	S&G
10		is rotten, lots of fines	Saliche, Tock	0.5	14	5.5	6.5 10 14	0.0	2.92	20.1	SaG
12											1
14											
16		Clay, dark greenish brown		14	29	15					1
18											1
20											1
22											1
24											1
26											1
28											1
30											
32		Total depth 29'									1
34											1
36											1
38											
40											
42											
44											
46											
10											

Orilling Co. Date Start Time Finish Time Total Depth	Spectrum Exploration Inc. Aug. 22, 2002	Property Parcel Hole Location Logged By Drill Method	Fountair Fountair W. of SH EC Cont. Sa	n H parcel	Hole # Sheet 1 Surface El Water Dep		Of 5690 None	1		
omments:										
Graphical log	Description		From	То	Interval	Sample		Lab	Analysis	
epth Litho.			(feet)	(feet)	Thickness		LBW	FM	%Gr.	Note
	Silt, light yellow brown		zero	1	1					
2	Clay, greenish brown		1	8	7					
	1									
4										
6										
Ĭ.										
8										
0	Claystone-shale, weathered	hadraak	8	19	11		+		-	
40	Claystorie-strate, weathered	Dedrock	0	19	''					
10										
4.0										
12										
14										
16										
18										
20										
	Total Depth: 19'									
22	1									
	†									
24	+									
24	4									
26	4									
26	4									
	_									
28	1									
30										
	_									
32										
34	7									
	7									
	⊣		1		1	I		1	ı	1

Drilling Co.	Spectrum Exploration Inc.	Property	Fountain	Hole # F-02-3		
Date	Aug. 23, 2002	Parcel	Fountain	Sheet 1	Of	1
Start Time		Hole Location	W. of SH parcel	Surface Elev.	5688	
Finish Time		Logged By	EC	Water Depth	None	
Total Depth	19	Drill Method	Cont. Sampler			

Granh	ical log	Description	From	То	Interval	Sample		l ah A	Analysis	
Denth	Litho.	Description	(feet)	(feet)	Thickness	Interval	LBW	FM	%Gr.	Note
- 00011		Silt, yellow brown	zero	1	1				, 501.	0.0
2		Sand and gravel, rusty, fine-medium sand	1	4	3	1 to 4	7.8	2.68	14.4	2NS
		, ,,								
4										
6		Clay, weathered bedrock, greenish brown	4	19	15					
8										
10										
12										
14										
16										
18										
20										
		Total Depth 19'								
22										
24										
26										
28										
30										
32										
34										
36										
38										
40										
42										
44										
46										
48										
50										

Date Start Time Finish Time Total Depth Comments:		Aug. 23, 2002	Parcel Hole Location Logged By Drill Method	Fountain EC Cont. Sampler		Sheet 1 Surface Elev. Water Depth		Of 5682 None	1		
		Description		l Crom	То	lotom (ol	Comple	Ī	l ob /	\ nalvoia	
Depth				From (feet)	To (feet)	Interval Thickness	Sample Interval	LBW	FM	Analysis %Gr.	Note
2		Silt, greenish/yellow		zero	4	4					
4		Shale, weathered, greenish		4	14	10					
6 8											
10											
12											
14											
16		Total Depth 14'									
18											
20											
22 24											
26											
28											
30											
32											
34											
36											
38											
40											
42 44											
44											
48											
50											

Fountain

Hole #

F-02-4

Property

Drilling Co.

Spectrum Exploration Inc.

Drilling Co.	Spectrum Exploration Inc.	Property	Fountain	Hole # F-02-5		
Date	Aug. 23, 2002	Parcel	Fountain	Sheet 1	Of	1
Start Time		Hole Location	n	Surface Elev.	5610	
Finish Time		Logged By	EC	Water Depth	None	
Total Depth	14	Drill Method	Cont. Sampler			

			T=		Tr	Io :	ı			
Graph	cal log	Description	From	To (foot)	Interval	Sample	LBW		Analysis	Note
Depth	LITIO.	Silt, light yellow brown	(feet) zero	(feet)	Thickness 1	mervar	LDVV	FM	%Gr.	Note
2		Sand and gravel, fine, dirty	1	2	1					
		Clay, greenish yellow, silty	2	12	10					
4										
6										
8										
10										
12		Chala graeniah weethered hadrook	12	14	2					
14		Shale, greenish, weathered bedrock	12	14	_					
16		Total depth: 14'								
40										
18										
20										
22										
24										
24										
26										
28										
30										
32										
24										
34										
36										
38										
40										
42										
4.4										
44										
46										
48										
50										
50				I	I		<u> </u>	<u> </u>	L	<u> </u>

Drilling Co.	Spectrum Exploration Inc.	Property	Fountain	Hole # F-02-6		
Date	Aug. 23, 2002	Parcel	Fountain	Sheet 1	Of	1
Start Time		Hole Location	n	Surface Elev.	5650	
Finish Time		Logged By	EC	Water Depth	None	
Total Depth	14	Drill Method	Cont. Sampler			

			T		1.	_	•			
Graph	cal log	Description	From	To	Interval	Sample	1.5147	Lab /	Analysis	In
Depth	Litho.	<u> </u>	(feet)	(feet)	Thickness	ınterval	LBW	FM	%Gr.	Note
		Topsoil, rusty red, very sandy	zero	1	1					
2		Clay, greenish/yellow, thin bans of fine sand (4") throughout, primarily clay	1	4	3					
4		Sand (4) throughout, primarily day								
		Clay, green, mottled, weathered bedrock	4	14	10					
6										
8										
40										
10										
12										
'-										
14										
16		Total depth 14'								
18										
'0										
20										
22										
24										
24										
26										
28										
20										
30										
32										
34										
0.0										
36										
38										
40										
42										
44										
1 -7-7										
46										
48										
50										
3 0										

Drilling Co. Spectrum Exploration Inc. Property Fountain Hole # SH-02-1 Date Aug. 20, 2002 Parcel Schmidt-Holland Sheet 1 Of 1 Start Time 9:00 AM 5685 Hole Location Surface Elev. Finish Time 9:45 AM Logged By EC Water Depth None Total Depth 29 Drill Method Cont. Sampler

Comm										
Graph	ical log	Description	From	То	Interval	Sample		Lab A	Analysis	
Depth	Litho.	Cit will and brown land	(feet)	(feet)	Thickness	Interval	LBW	FM	%Gr.	Note
2		Silt, yellow brown, loess	zero	3.5	3.5					
6		Clay, greenish brown, compact	3.5	7	3.5					
8		Sand & gravel, red/pink, med/coarse sd gravel to 4"	7	19.5	12.5	7 to 19.5	5.8	2.8	40.3	S&G
10 12										
14										
16										
18 20										
		Clay, greenish	19.5	21	1.5					
22 24 26 28 30		Shale, weathered, greenish brown	21	29	8					
32										
34										
36 38										
40										
42										
44 46										
48										
50										

Drilling Co. Spectrum Exploration Inc. Property Fountain Hole # SH-02-2 Date Aug. 20, 2002 Parcel Schmidt/Holland Sheet 1 Of 1 Start Time 10:15 AM Hole Location Surface Elev. 5687 Finish Time 11:00 AM Logged By EC Water Depth None Total Depth 34 Drill Method Cont. Sampler

Granh	ical log	Description	From	То	Interval	Sample		l ah /	Analysis	
	Litho.	Description	(feet)	(feet)	Thickness	Interval	LBW	FM	%Gr.	Note
Борит		Clay, dark brown, silty, mottled	zero	13	13	to.vai		. 191	,0 0 1.	1,010
2		Clay, dark brown, sitty, mottled	2610	13	'3					
-										
1										
4										
6										
6										
8										
40										
10										
4.0										
12										
					<u> </u>					
14		S&G, dirty, med/coarse sand	13	14	1	13 to 14	8.4	2.62	41.3	S&G
		Sand & gravel, cleaner than above	14	24	10	14 to 24	3.7	2.92	40	S&G
16		orange-brown, med/coarse sand								
18										
20										
22										
24										
		Sand, clean, medium	24	26	2	24 to 26	7.4	2.22	7.1	MSD
26		,								
		Clay, reddish/brown	26	28	2					
28		,			_					
		Clay, greenish brown, weath. Bedrock	28	34	6					
30		o.a,, g. ooo. o. o, n oa 2 oa. oo								
32										
02										
34										
34										
26										
36										
20										
38										
40										
40										
42										
44										
46										
48										
50			<u> </u>	<u> </u>						
-	-		•	-	=	-		-		

Drilling Co. Spectrum Exploration Inc. Property Fountain Hole # SH-02-3 Date Aug. 20, 2002 Parcel Schmidt/Holland Sheet 1 Of 1 Start Time 11:30 AM Hole Location Surface Elev. 5692 12:30 PM Finish Time Logged By EC Water Depth None Total Depth 29 Drill Method Cont. Sampler

Granh	ical loc	Description	Erom	lτο	Interval	Sample		l ob /	\nah _' oic	
Denth	ical log Litho.	Description	From (feet)	To (feet)	Thickness	Sample Interval	LBW	FM	Analysis %Gr.	Note
Берит	LILI IO.	Clay, silty, dark brown	zero	12	12	iiileivai	LDVV	I IVI	/0G1.	NOLE
2		olay, olity, daily blowii	2010	12	'2					
_										
4										
6										
8										
10										
10										
12										
		Sand & Gravel, dirty, cobbles, med/cse sd	12	14	2	12 to 14	5.2	2.68	47.5	S&G
14										
4.0		Sand & gravel, cleaner than above	14	24	10	14 to 24	5.2	2.8	35.4	S&G
16										
18										
'										
20										
22										
24		Olare dank ana aniah waath asa diba daa di	0.4	00	_					
26		Clay, dark greenish, weathered bedrock	24	29	5					
20										
28										
30										
32										
34										
34										
36										
38										
40										
42										
42										
44										
46										
48										
50										
50										

Drilling Co.	Spectrum Exploration Inc.	Property	Fountain	Hole #	SH-02-4		
Date	Aug. 20, 2002	Parcel	Schmidt/Holland	Sheet 1		Of	1
Start Time		Hole Location	1	Surface E	lev.	5684	
Finish Time		Logged By	EC	Water De	pth	None	
Total Depth	34	Drill Method	Cont. Sampler				
Comments:							

Co	m	m	١e	n	ts

Graph	ical log	Description	From	To	Interval	Sample	15		Analysis	
Depth	Litho.		(feet)	(feet)		Interval	LBW	FM	%Gr.	Note
2		Silt, yellow brown, loess	zero	6	6					
6										
8		Clay, hard, compact, greenish brwn	6	8	2					
10		Clay, compacted, reddish brown	8	13.5	5.5					
12										
14		Sand, reddish/orange, dirty, sand is fine	13.5	19	5.5	13.5 to 19	3.4	3.03	38.8	S&G
16		, , , , , , , , , , , , , , , , , , ,								
18										
20		Sand, coarse, clean	19	26	7	19 to 26	2.9	3.06	32.1	S&G
22										
24 26										
28		Sand, fine red/orange	26	28.5	2.5	26 to 28.5	31	0.83	1.5	CL
30		Clay, green, sandy	28.5	32	3.5					
32		olay, groom, canay	20.0	02	0.0					
34		Shale, green, weathered	32	34	2					
36		Total Depth: 34								
38										
40										
42										
44										
46										
48										
50			l							

Drilling Co.	Spectrum Exploration Inc.	Property	Fountain	Hole #	SH-02-5		
Date	Aug. 20, 2002	Parcel	Schmidt/Holland	Sheet 1		Of	1
Start Time		Hole Location	1	Surface El	ev.	5677	
Finish Time		Logged By	EC	Water Dep	oth	None	
Total Depth	19	Drill Method	Cont. Sampler	•			
,			•				
Comments:							

\sim				
Co	m	m	ρr	TC.

Cronb	iool loc	Description	IErom	Iτο	Intonial	Comple		l ob /	\nah _' aic	
Denth	ical log Litho.	Description	From (feet)	To (feet)	Interval Thickness	Sample	LBW	FM	Analysis %Gr.	Note
2	Litilo.	Silt, yellow-brown, loess	zero	5	5	interval	LDVV	1 IVI	/ ₀ G1.	Note
4 6		Clay, brownish green, sandy	5	7	2					
10		Clay, reddish brown, sandy	7	10	3					
12		Sand & gravel, fine/medium sand	10	16	6	10 to 16	4.2	2.81	40.3	S&G
14 16										
18		Greenish weathered shale	16	19	3					
20 22		Total Depth 19								
24										
26										
30										
32										
34 36										
38										
40										
42 44										
46										
48 50										

Drilling Co.	Spectrum Exploration Inc.	Property	Fountain	Hole #	SH-02-6			
Date	Aug. 21, 2002	Parcel	Schmidt-Holland	Sheet 1		Of	1	
Start Time		Hole Location	n	Surface E	lev.	5670		
Finish Time		Logged By	EC	Water De	pth	None		
Total Depth	29	Drill Method	Cont. Sampler					

Commi	orito.									
Graphi	ical log Litho.	Description	From	То	Interval	Sample	Lab Analysis			
Depth	Litho.		(feet)	(feet)	Thickness	Interval	LBW	FM	%Gr.	Note
		Silt, dark brown	zero	1	1					
2		Silt, yellow brown, loess	1	4	3					
4										
		Silt, brown, soft	4	9	5					
6										
8										
10		Clay, reddish/orange, sandy	9	12	3	9 to 12	20.6	1.96	31	CL
10		Clay, reduisinorange, sandy		12		3 10 12	20.0	1.50	31	OL
12										
		Sand & gravel, reddish pink, clean	12	26	14	12 to 26	3.4	2.85	31.3	S&G
14										
16										
18										
00										
20										
22										
22										
24										
26										
		Clay, greenish	26	27	1					
28		Shale, weathered, mottled	27	29	2					
30										
		Total Depth: 29'								
32										
2.4										
34										
36										
30										
38										
40										
42										
1										
44										
4.0										
46										
48										
40										
50										
00			I	l	I	l				

Drilling Co.	Spectrum Exploration Inc.	Property	Fountain	Hole # SH-02-7		
Date	Aug. 21, 2002	Parcel	Cline	Sheet 1	Of	1
Start Time		Hole Location	n	Surface Elev.	5695	
Finish Time		Logged By	EC	Water Depth	None	
Total Depth	39	Drill Method	Cont. Sampler			

Granh	ical log	Description	From	То	Interval	Sample		l ah A	Analysis	
Depth	Litho.	Becomplien	(feet)	(feet)	Thickness	Interval	LBW	FM	%Gr.	Note
2		Silt, light yellow brown, loess	zero	6	6				70011	
6		Clay, medium yellow brown silty clay	6	11.5	5.5					
8 10		Clay, medium yellow brown slity clay		11.5	5.5					
12		Sand & gravel, rusty red, dirty rocky 11.5-15'	11.5	21	9.5	11.5 to 21	3.4	2.79	19.6	2NS
14 16										
18 20										
22 24		Silt, rusty brown, sandy	21	29	8	21 to 29	37.8	0.72	0	CL
26 28										
30 32 34		Sand, rusty brown, fine, silty	29	35	6	29 to 35	24.5	0.91	2.1	CL
36 38		Sand and gravel, coarse	35	39	4	35 to 39	3.5	3.23	39.6	S&G
40		Total depth 39'								
44 46										
48 50										

Drilling Co.	Spectrum Exploration Inc.	Property	Fountain	Hole #	SH-02-8		
Date	Aug. 22, 2002	Parcel	Schmidt/Holland	Sheet 1		Of	1
Start Time		Hole Location	1	Surface E	lev.	5695	
Finish Time		Logged By	EC	Water De	pth	None	
Total Depth	54	Drill Method	Cont. Sampler				

Granh	ical log	Description From To Interval Sample Lab Ana					\nalveie			
Depth	I itho	Description	(feet)	(feet)	Thickness		LBW	FM	%Gr.	Note
2	Littio.	Silt, yellow brown, loess	zero	12	12	interval	LDVV	1 101	7001.	14010
4										
6										
8										
10										
14		Sand & Gravel, reddish brown, sand is coarse	12	25	13	12 to 25	9.2	2.66	18.9	2NS
16										
18										
20										
24										
26		Clay, silty	25	26	1	25 to 26	29	1.34	14	CL
28		Sand and gravel, sand is coarse small gravel	26	41	15	26 to 41	4.8	3.11	21.8	S&G
30										
32										
34						34 to 41	5.3	2.87	27.1	S&G
36										
38 40										
42		Sand, fine/medium	41	45	4	41 to 45	4.6	2.82	23.7	S&G
44										
46		Sand & gravel, clayey, rocky sand is coarse, clay is greenish	45	53	8	45 to 53	9.8	2.85	24.1	S&G
48										
50		Clay, greenish brown	53	54	1					

Drilling Co.	Spectrum Exploration Inc.	Property	Fountain	Hole #	SH-02-9		
Date	Aug. 22, 2002	Parcel	Schmidt/Holland	Sheet 1		Of	1
Start Time		Hole Location		Surface El	ev.	5692	
Finish Time		Logged By	EC	Water Dep	oth	None	
Total Depth	49	Drill Method	Cont. Sampler				

Granh	ical log	Description	From	То	Interval	Sample		l ah 4	Analysis	
Depth		Description	(feet)	(feet)	Thickness		LBW	FM	%Gr.	Note
2		Silt, yellow brown, loess moderately compacted	zero	7	7				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
6				10						
10		Silt, dark yellow brown, clayey	7	10	3					
		Clay, dark rusty red, gravelley	10	10.5	0.5					
12 14		Sand and gravel, pinkish to rusty red med to coarse sand	10.5	19	8.5	10.5 to 19	4.6	2.91	29.6	S&G
16										
18										
20		Sand, medium to coarse, rusty red, clean	19	28	9	19 to 28	4.3	3.05	24.5	S&G
24										
26 28										
		Sand, fine to medium, rusty brown	28	29	1	28 to 29	7.2	2.79	16.6	2NS
30		Sand & gravel, clean, rusty brown	29	32	3	29 to 32	2.5	3.42	32.8	S&G
		Silt, sandy	32	33	1	32 to 33	15.9	1.43	10.4	ST
34		Sand & gravel	33	39	6	33 to 39	5.4	2.67	40.4	S&G
38								0.10	10.0	200
40 42		Sand & gravel, rusty, very coarse	39	44	5	39 to 44	3.6	3.46	43.2	S&G
44		Clay, greenish brown	44	47	3					
48		Sand & gravel, very dirty, clayey, rocky	47	49	2	47 to 49	5.7	2.96	51.7	G
50		Total Depth 49'								

Drilling Co.	Spectrum Exploration Inc.	Property	Fountain	Hole #	SH-02-10		
Date	Aug. 22, 2002	Parcel	Schmidt/Holland	Sheet 1		Of	1
Start Time		Hole Location		Surface El	ev.	5683	
Finish Time		Logged By	EC	Water Dep	oth	None	
Total Depth	49	Drill Method	Cont. Sampler				

Granh	ical log	Description	From	То	Interval	Sample		l ah A	Analysis	
Depth		Description	(feet)	(feet)	Thickness		LBW	FM	%Gr.	Note
2		Silt, light yellow brown	zero	7	7				70 0	
6				40						
10		Silt, dark yellow brown, clayey	7	10	3					
12		Silt, rusty brown, clayey	10	13	3	10 to 13	29.3	1.3	12.7	CL
14 16		Sand and gravel, dirty, fine sand	13	22	9	13 to 22	6.6	2.6	30.1	S&G
18										
20										
22		Sand, fine to medium, rusty, no gravel	22	24	2	22 to 24	9.6	1.99	11.8	FSD
26		Sand and gravel, coarse sand, gravelley, rusty red	24	34	10	24 to 34	3.9	3.19	27.9	S&G
28										
30										
34		Sand and gravel as above	34	38	4	34 to 38	5.6	2.75	40.8	S&G
36		James and graver de above				0.1000	0.0	2.70	.3.3	
38 40		Sand, very rocky, fine sand band 39-40	38	44	6	38 to 44	7.2	2.5	36.5	S&G
42										
44		As above, very hard drilling	44	49	5	44 to 49	11.2	2.43	26.8	S&G
48										
50		Total depth: 49'								

Drilling Co.	Spectrum Exploration Inc.	Property	Fountain	Hole # SH-02-11		
Date	Aug. 23, 2002	Parcel	Fountain	Sheet 1	Of	1
Start Time		Hole Location	n	Surface Elev.	5670	
Finish Time		Logged By	EC	Water Depth	None	
Total Depth	39	Drill Method	Cont. Sampler			

Granh	ical log	Description	From	То	Interval	Sample		l ah /	Analysis	
Depth	I itho	Description	(feet)	(feet)	Thickness		LBW	FM	%Gr.	Note
	LIUIO.	Silt, yellow-brown	zero	8	8	interval	LDVV	1 101	70 0 1.	NOLE
2										
4										
6										
8										
10		Clay, reddish brown, silty	8	11	3					
10										
12		Silt with very fine sand	11	12	1	11 to 12	18.9	1.91	32.7	S&G
14		Sand & gravel, rusty red, sand is medium to coarse, dirty, rocky	12	14	2	12 to 14	6.6	2.73	40.3	S&G
		Sand & gravel, rusty red, sand is medium	14	24	10	14 to 24	4.1	2.78	27.8	S&G
16		to coarse, cleaner than above, not as rocky								
18		looky								
20										
20										
22										
24										
		As above, coarseer, clay band 28-28.2	24	34	10	24 to 34	5.4	3.11	29	S&G
26		and 34-34.2								
28										
30										
32										
34										
36		Clay, mottled green/red	34.2	39	4.8					
30										
38										
40										
		Total depth : 39'								
42										
44										
46										
48										
50										
			•		•					

Drilling Co.	Spectrum Exploration Inc.	Property	Fountain	Hole #	SH-02-12		
Date	Aug. 23, 2002	Parcel	S/H	Sheet 1		Of	1
Start Time		Hole Location)	Surface E	lev.	5678	
Finish Time		Logged By	EC	Water Dep	oth	None	
Total Depth	44	Drill Method	Cont. Sampler				

Granh	ical log	Description	From	То	Interval	Sample		l ah 4	Analysis	
Depth		Description	(feet)	(feet)	Thickness		LBW	FM	%Gr.	Note
Верит	Littio.	Silt, yellow brown	zero	5	5	interval	LDVV	1 101	7001.	14010
2		ont, yellow brown	2610	3						
-										
4										
-										
6		Clay, silty, dark greenish/yellow	5	9	4					
		enay, enty, dark greeners yenew			'					
8										
10		Silt, dark rusty brown	9	12	3	9 to 12	33.9	1.55	19.9	CL
		,								
12										
		Sand, fine, silty, rusty red	12	13	1	12 to 13	12.2	2.22	24.2	S&G
14		Sand & gravel, dirty, very gravelley, pinkish	13	14	1	13 to 14	4.7	2.77	36.5	S&G
		Sand & gravel, coarse sand, cleaner than	14	23	9	14 to 23	5.2	2.81	27.7	S&G
16		above, very gravelley 14-16'								
18										
20										
22										
l					<u> </u>					
24		Silt, sandy, reddish brown w/very fine	23	28	5	23 to 28	60.8	0.28	0	CL
		sand band 23-23.2;								
26										
00										
28		Fine and alltic west colored	20	20	2	20.45.20	200.4	0.05		CI
20		Fine sand, silty, rust colored	28	30		28 to 30	26.4	0.95	0	CL
30		Cilt rugty brown goody	30	31	1	30 to 31	37.3	0.68	0	CL
32		Silt, rusty brown, sandy Claystone, weathered bedrock, greenish	31	38	7	30 10 31	37.3	0.00	0	CL
32		mottled with yellow clay	31	30	'					
34		Thothed with yellow clay								
34										
36										
38										
		Sand & gravel, coarse	38	43	5	38 to 43	4.4	2.7	37.4	S&G
40		· · · · · · · · · · · · · · · · · · ·								
42										
44		Clay, greenish	43	44	1					
46		Total depth 44'								
48										
50										
50										

		Aggrega	te Analysis		
Borehole No.	C-02-1				
Project	Fountain				
From:	10.0				
То:	14.0				
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
1.0"	368.0	18.3		18.3	81.7
0.75"	145.3	7.2		25.5	74.5
0.5"	150.9	7.5		33.1	66.9
0.375"	106.0	5.3		38.3	61.7
No.4	245.4	12.2		50.5	49.5
No.8	201.9	10.0	20.3	20.3	79.7
No.16	179.0	8.9	18.0	38.3	61.7
No.30	163.7	8.1	16.5	54.8	45.2
No.50	168.5	8.4	17.0	71.8	28.2
No.100	131.5	6.5	13.2	85.0	15.0
No.200	59.8	3.0	6.0	91.0	9.0
Pan	89.4	4.4	9.0	100.0	0.0
% sand retained		49.5			
Dry Wt.	2009.4	Moist. Wet	1668.7	1652.2	16.5
Wash Wt.	1920.5	%Mositure	0.99		
L.B.W.%	4.4				
FM	2.70				
Gravel%	50.5				
Del.					
Lithologic unit	G				

	Aggrega	te Analysis		
C-02-1				
Fountain				
14.0				
19.5				
Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
133.0	6.7		6.7	93.3
46.0	2.3		9.0	91.0
140.0	7.0		16.0	84.0
112.1	5.6		21.7	78.3
268.5	13.5		35.2	64.8
308.6	15.5	23.9	23.9	76.1
272.1	13.7	21.1	45.0	55.0
231.1	11.6	17.9	62.9	37.1
189.7	9.5	14.7	77.6	22.4
141.4	7.1	11.0	88.6	11.4
58.3	2.9	4.5	93.1	6.9
88.9	4.5	6.9	100.0	0.0
	64.8			
1989.7	Moist. Wet	1935.2	1912.1	23.1
1900.7	%Mositure	1.19		
4.5				
2.98				
35.2				
S&G				
	Fountain 14.0 19.5 Weight 133.0 46.0 140.0 112.1 268.5 308.6 272.1 231.1 189.7 141.4 58.3 88.9 1989.7 1900.7 4.5 2.98 35.2	C-02-1 Fountain 14.0 19.5 Weight % Retained 133.0 6.7 46.0 2.3 140.0 7.0 112.1 5.6 268.5 13.5 308.6 15.5 272.1 13.7 231.1 11.6 189.7 9.5 141.4 7.1 58.3 2.9 88.9 4.5 64.8 1989.7 Moist. Wet 1900.7 Mositure	Fountain 14.0 19.5 Weight	C-02-1 Fountain 14.0 19.5 Weight

		Aggrega	te Analysis		
Borehole No.	C-02-2		-		
Project	Fountain				
From:	9.0				
То:	11.0				
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
1.0"	60.1	8.9		8.9	91.1
0.75"	0.0	0.0		8.9	91.1
0.5"	25.4	3.7		12.6	87.4
0.375"	15.2	2.2		14.9	85.1
No.4	72.6	10.7		25.6	74.4
No.8	74.1	10.9	14.7	14.7	85.3
No.16	56.9	8.4	11.3	26.0	74.0
No.30	48.7	7.2	9.6	35.6	64.4
No.50	63.5	9.4	12.6	48.2	51.8
No.100	93.7	13.8	18.6	66.8	33.2
No.200	62.6	9.2	12.4	79.2	20.8
Pan	105.2	15.5	20.8	100.0	0.0
% sand retained		74.4			
Dry Wt.	678.0	Moist. Wet	652.2	636.2	16.0
Wash Wt.	572.9	%Mositure	2.45		
L.B.W.%	15.5				
FM	1.91				
Gravel%	25.6				
Del.					
Lithologic unit	S&G				
	S&G				

		Aggrega	te Analysis		
Borehole No.	C-02-4		-		
Project	Fountain				
From:	1.5				
То:	14.0				
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
1.0"	64.9	5.0		5.0	95.0
0.75"	150.5	11.6		16.6	83.4
0.5"	144.5	11.1		27.7	72.3
0.375"	84.4	6.5		34.2	65.8
No.4	198.9	15.3		49.4	50.6
No.8	176.0	13.5	26.8	26.8	73.2
No.16	143.2	11.0	21.8	48.5	51.5
No.30	122.4	9.4	18.6	67.2	32.8
No.50	89.9	6.9	13.7	80.8	19.2
No.100	60.0	4.6	9.1	89.9	10.1
No.200	25.0	1.9	3.8	93.8	6.3
Pan	41.1	3.2	6.3	100.0	0.0
% sand retained		50.6			
Dry Wt.	1300.8	Moist. Wet	1027.5	1015.1	12.4
Wash Wt.	1260.1	%Mositure	1.21		
L.B.W.%	3.1				
FM	3.13				
Gravel%	49.4				
Del.					
Lithologic unit	S&G				

Aggregate Analysis						
Borehole No.	C-02-5					
Project	Fountain					
From:	11.0					
То:	19.0					
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing	
1.0"	70.5	3.4		3.4	96.6	
0.75"	69.8	3.4		6.8	93.2	
0.5"	73.0	3.5		10.3	89.7	
0.375"	85.2	4.1		14.4	85.6	
No.4	234.1	11.3		25.7	74.3	
No.8	272.2	13.1	17.7	17.7	82.3	
No.16	278.6	13.5	18.1	35.8	64.2	
No.30	284.9	13.8	18.5	54.3	45.7	
No.50	304.7	14.7	19.8	74.1	25.9	
No.100	206.3	10.0	13.4	87.5	12.5	
No.200	80.3	3.9	5.2	92.7	7.3	
Pan	111.6	5.4	7.3	100.0	0.0	
% sand retained		74.3				
Dry Wt.	2071.2	Moist. Wet	1985.7	1957.2	28.5	
Wash Wt.	1959.5	%Mositure	1.44			
L.B.W.%	5.4					
FM	2.69					
Gravel%	25.7					
Del.						
Lithologic unit	S&G					
,						

		Aggrega	te Analysis		
Borehole No.	C-02-5				
Project	Fountain				
From:	19.0				
То:	20.0				
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
1.0"	0.0	0.0		0.0	100.0
0.75"	0.0	0.0		0.0	100.0
0.5"	0.0	0.0		0.0	100.0
0.375"	0.0	0.0		0.0	100.0
No.4	0.2	0.1		0.1	99.9
No.8	0.9	0.4	0.4	0.4	99.6
No.16	4.7	1.9	1.9	2.2	97.8
No.30	15.7	6.3	6.3	8.6	91.4
No.50	42.7	17.1	17.1	25.7	74.3
No.100	58.0	23.3	23.3	49.0	51.0
No.200	46.1	18.5	18.5	67.5	32.5
Pan	81.0	32.5	32.5	100.0	0.0
% sand retained		99.9			
Dry Wt.	249.3	Moist. Wet	222.9	210.9	12.0
Wash Wt.	168.5	%Mositure	5.38		
L.B.W.%	32.4				
FM	0.86				
Gravel%	0.1				
Del.					
Lithologic unit	CL				

Aggregate Analysis						
Borehole No.	C-02-6		-			
Project	Fountain					
From:	1.5					
То:	9.0					
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing	
1.0"	99.6	5.0		5.0	95.0	
0.75"	122.4	6.2		11.2	88.8	
0.5"	152.4	7.7		18.8	81.2	
0.375"	119.4	6.0		24.9	75.1	
No.4	228.1	11.5		36.3	63.7	
No.8	290.7	14.6	23.0	23.0	77.0	
No.16	300.8	15.1	23.8	46.8	53.2	
No.30	229.2	11.5	18.1	64.9	35.1	
No.50	158.2	8.0	12.5	77.4	22.6	
No.100	121.5	6.1	9.6	87.0	13.0	
No.200	57.4	2.9	4.5	91.5	8.5	
Pan	107.3	5.4	8.5	100.0	0.0	
% sand retained		63.7				
Dry Wt.	1987.0	Moist. Wet	1645.0	1627.9	17.1	
Wash Wt.	168.5	%Mositure	1.04			
L.B.W.%	91.5					
FM	2.99					
Gravel%	36.3					
Del.						
Lithologic unit	CL					

		Aggrega	te Analysis		
Borehole No.	C-02-6				
Project	Fountain				
From:	9.0				
То:	20.0				
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
1.0"	133.1	5.1		5.1	94.9
0.75"	94.0	3.6		8.7	91.3
0.5"	103.5	4.0		12.7	87.3
0.375"	111.1	4.3		17.0	83.0
No.4	374.2	14.4		31.4	68.6
No.8	392.8	15.1	22.0	22.0	78.0
No.16	381.4	14.7	21.4	43.4	56.6
No.30	358.7	13.8	20.1	63.6	36.4
No.50	314.7	12.1	17.7	81.2	18.8
No.100	178.1	6.9	10.0	91.2	8.8
No.200	61.6	2.4	3.5	94.7	5.3
Pan	94.7	3.6	5.3	100.0	0.0
% sand retained		68.6			
Dry Wt.	2597.9	Moist. Wet	2354.5	2322.6	31.9
Wash Wt.	2504.4	%Mositure	1.35		
L.B.W.%	3.6				
FM	3.02				
Gravel%	31.4				
Del.					
Lithologic unit	S&G				

		Aggrega	te Analysis		
Borehole No.	C-02-7				
Project	Fountain				
From:	12.0				
То:	13.0				
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
1.0"	119.1	16.4		16.4	83.6
0.75"	48.8	6.7		23.2	76.8
0.5"	66.8	9.2		32.4	67.6
0.375"	55.6	7.7		40.1	59.9
No.4	105.8	14.6		54.7	45.3
No.8	77.1	10.6	23.5	23.5	76.5
No.16	66.8	9.2	20.3	43.8	56.2
No.30	57.0	7.9	17.4	61.2	38.8
No.50	43.3	6.0	13.2	74.4	25.6
No.100	27.8	3.8	8.5	82.8	17.2
No.200	14.8	2.0	4.5	87.3	12.7
Pan	41.6	5.7	12.7	100.0	0.0
% sand retained		45.3			
Dry Wt.	724.5	Moist. Wet	727.4	724.5	2.9
Wash Wt.	682.8	%Mositure	0.40		
L.B.W.%	5.8				
FM	2.86				
Gravel%	54.7				
Del.					
Lithologic unit	G				

		Aggrega	te Analysis		
Borehole No.	C-02-8				
Project	Fountain				
From:	9.0				
То:	19.0				
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
1.0"	65.3	2.9		2.9	97.1
0.75"	156.4	6.9		9.7	90.3
0.5"	150.4	6.6		16.3	83.7
0.375"	154.0	6.8		23.1	76.9
No.4	334.1	14.7		37.8	62.2
No.8	321.5	14.1	22.7	22.7	77.3
No.16	292.8	12.9	20.7	43.3	56.7
No.30	241.9	10.6	17.1	60.4	39.6
No.50	195.6	8.6	13.8	74.2	25.8
No.100	153.9	6.8	10.9	85.0	15.0
No.200	68.5	3.0	4.8	89.9	10.1
Pan	143.6	6.3	10.1	100.0	0.0
% sand retained		62.2			
Dry Wt.	2278.0	Moist. Wet	1820.4	1809.7	10.7
Wash Wt.	2134.5	%Mositure	0.59		
L.B.W.%	6.3				
FM	2.86				
Gravel%	37.8				
Del.					
Lithologic unit	S&G				

		Aggrega	te Analysis		
Borehole No.	C-02-8				
Project	Fountain				
From:	19.0				
То:	30.0				
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
1.0"	127.7	7.2		7.2	92.8
0.75"	89.5	5.1		12.3	87.7
0.5"	129.9	7.4		19.7	80.3
0.375"	55.1	3.1		22.8	77.2
No.4	191.7	10.9		33.7	66.3
No.8	258.6	14.7	22.1	22.1	77.9
No.16	247.9	14.1	21.2	43.3	56.7
No.30	220.9	12.5	18.9	62.3	37.7
No.50	183.3	10.4	15.7	77.9	22.1
No.100	114.0	6.5	9.8	87.7	12.3
No.200	49.8	2.8	4.3	92.0	8.0
Pan	94.0	5.3	8.0	100.0	0.0
% sand retained		66.3			
Dry Wt.	1762.4	Moist. Wet	1599.1	1576.1	23.0
Wash Wt.	1668.9	%Mositure	1.44		
L.B.W.%	5.3				
FM	2.93				
Gravel%	33.7				
Del.					
Lithologic unit	S&G				

		Aggrega	te Analysis		
Borehole No.	CPBH-1				
Project	Fountain				
From:	4.0				
То:	19.0				
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
1.0"	0.0	0.0		0.0	100.0
0.75"	86.1	6.1		6.1	93.9
0.5"	62.7	4.5		10.6	89.4
0.375"	53.4	3.8		14.4	85.6
No.4	184.9	13.1		27.5	72.5
No.8	252.2	17.9	24.7	24.7	75.3
No.16	294.5	20.9	28.9	53.6	46.4
No.30	234.0	16.6	22.9	76.5	23.5
No.50	119.1	8.5	11.7	88.2	11.8
No.100	40.9	2.9	4.0	92.2	7.8
No.200	13.0	0.9	1.3	93.5	6.5
Pan	66.4	4.7	6.5	100.0	0.0
% sand retained		72.5			
Dry Wt.	1407.2	Moist. Wet	1230.2	1203.8	26.4
Wash Wt.	1341.5	%Mositure	2.15		
L.B.W.%	4.7				
FM	3.35				
Gravel%	27.5				
Del.					
Lithologic unit	S&G				

		Aggregat	te Analysis		
Borehole No.	F-02-1		-		
Project	Fountain				
From:					
To:					
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
1.0"	0.0	0.0		0.0	100.0
0.75"	39.8	3.7		3.7	96.3
0.5"	79.8	7.5		11.2	88.8
0.375"	49.9	4.7		15.9	84.1
No.4	129.7	12.2		28.1	71.9
No.8	170.9	16.0	22.3	22.3	77.7
No.16	167.6	15.7	21.9	44.2	55.8
No.30	142.3	13.4	18.6	62.8	37.2
No.50	109.6	10.3	14.3	77.1	22.9
No.100	68.4	6.4	8.9	86.0	14.0
No.200	34.6	3.2	4.5	90.5	9.5
Pan	72.8	6.8	9.5	100.0	0.0
% sand retained		71.9			
Dry Wt.	1065.4	Moist. Wet	1077.9	1060.6	17.3
Wash Wt.	993.0	%Mositure	1.60		
L.B.W.%	6.8				
FM	2.92				
Gravel%	28.1				
Del.					
Lithologic unit	S&G				

		Aggrega	te Analysis		
Borehole No.	F-02-2				
Project	Fountain				
From:	1.0				
То:	4.0				
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
1.0"	0.0	0.0		0.0	100.0
0.75"	0.0	0.0		0.0	100.0
0.5"	11.3	0.8		8.0	99.2
0.375"	37.2	2.7		3.6	96.4
No.4	147.7	10.9		14.4	85.6
No.8	205.0	15.1	17.6	17.6	82.4
No.16	218.0	16.0	18.7	36.4	63.6
No.30	224.7	16.5	19.3	55.7	44.3
No.50	201.9	14.8	17.4	73.0	27.0
No.100	139.9	10.3	12.0	85.1	14.9
No.200	67.6	5.0	5.8	90.9	9.1
Pan	106.3	7.8	9.1	100.0	0.0
% sand retained		85.6			
Dry Wt.	1359.6	Moist. Wet	1374.6	1359.6	15.0
Wash Wt.	1253.8	%Mositure	1.09		
L.B.W.%	7.8				
FM	2.68				
Gravel%	14.4				
Del.					
Lithologic unit	2NS				

		Aggrega	te Analysis		
Borehole No. Project From: To:	bh-08 sundance	33 - 3			
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
1.0"	12.0	12.0		12.0	88.0
0.75"	3.0	3.0		15.0	85.0
0.5"	4.0	4.0		19.0	81.0
0.375"	3.0	3.0		22.0	78.0
No.4	8.0	8.0		30.0	70.0
No.8	15.0	15.0	22.5	22.5	77.5
No.16	22.0	22.0	33.0	55.6	44.4
No.30	15.0	15.0	22.5	78.1	21.9
No.50	8.0	8.0	12.0	90.1	9.9
No.100	5.0	5.0	7.5	97.6	2.4
No.200	1.6	1.6	2.4	100.0	0.0
Pan	0.0	0.0	0.0	100.0	0.0
% sand retained	5.0	66.6			
Dry Wt.	100.0	Moist. Wet	1027.5	1015.1	12.4
Wash Wt.	100.0	%Mositure	1.21		
L.B.W.%	0.0				
FM	3.44				
Gravel%	30.0				
Del.					
Lithologic unit	S&G				

		Aggrega	te Analysis		
Borehole No.	SH-02-1				
Project	Fountain				
From:	7.0				
То:	19.0				
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
1.0"	155.6	6.8		6.8	93.2
0.75"	136.8	6.0		12.8	87.2
0.5"	187.5	8.2		21.0	79.0
0.375"	139.2	6.1		27.1	72.9
No.4	303.0	13.3		40.3	59.7
No.8	302.8	13.2	22.2	22.2	77.8
No.16	261.0	11.4	19.1	41.3	58.7
No.30	231.2	10.1	17.0	58.3	41.7
No.50	205.7	9.0	15.1	73.4	26.6
No.100	154.9	6.8	11.4	84.8	15.2
No.200	74.9	3.3	5.5	90.2	9.8
Pan	133.0	5.8	9.8	100.0	0.0
% sand retained		59.7			
Dry Wt.	2285.6	Moist. Wet	266.3	253.2	13.1
Wash Wt.	2153.0	%Mositure	0.9		
L.B.W.%	5.8				
FM	2.80				
Gravel%	40.3				
Del.					
Lithologic unit	S&G				

		Aggregat	te Analysis		
Borehole No.	SH-02-2		-		
Project	Fountain	Fountain			
From:	13.0				
То:	14.0				
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
1.0"	103.3	10.7		10.7	89.3
0.75"	45.5	4.7		15.4	84.6
0.5"	72.5	7.5		23.0	77.0
0.375"	46.8	4.9		27.8	72.2
No.4	130.0	13.5		41.3	58.7
No.8	123.7	12.8	21.9	21.9	78.1
No.16	97.4	10.1	17.2	39.1	60.9
No.30	81.4	8.4	14.4	53.5	46.5
No.50	81.4	8.4	14.4	67.9	32.1
No.100	67.9	7.0	12.0	79.9	20.1
No.200	33.6	3.5	5.9	85.8	14.2
Pan	80.4	8.3	14.2	100.0	0.0
% sand retained		58.7			
Dry Wt.	963.9	Moist. Wet	266.3	253.2	13.1
Wash Wt.	882.9	%Mositure	5.2		
L.B.W.%	8.4				
FM	2.62				
Gravel%	41.3				
Del.					
Lithologic unit	S&G				

		Aggregat	te Analysis		
Borehole No.	SH-02-2		-		
Project	Fountain	Fountain			
From:	14.0				
То:	24.0				
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
1.0"	402.0	17.4		17.4	82.6
0.75"	52.7	2.3		19.7	80.3
0.5"	102.5	4.4		24.1	75.9
0.375"	88.8	3.8		28.0	72.0
No.4	277.7	12.0		40.0	60.0
No.8	299.1	13.0	21.6	21.6	78.4
No.16	283.8	12.3	20.5	42.1	57.9
No.30	262.0	11.4	18.9	61.0	39.0
No.50	229.0	9.9	16.5	77.6	22.4
No.100	162.9	7.1	11.8	89.3	10.7
No.200	62.8	2.7	4.5	93.9	6.1
Pan	84.9	3.7	6.1	100.0	0.0
% sand retained		60.0			
Dry Wt.	2308.3	Moist. Wet	266.3	253.2	13.1
Wash Wt.	2223.8	%Mositure	5.2		
L.B.W.%	3.7				
FM	2.92				
Gravel%	40.0				
Del.					
Lithologic unit	S&G				

		Aggrega	te Analysis		
Borehole No.	SH-02-2				
Project	Fountain	Fountain			
From:	24.0				
То:	26.0				
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
1.0"	0.0	0.0		0.0	100.0
0.75"	0.0	0.0		0.0	100.0
0.5"	0.0	0.0		0.0	100.0
0.375"	8.9	0.9		0.9	99.1
No.4	57.9	6.1		7.1	92.9
No.8	108.4	11.5	12.3	12.3	87.7
No.16	123.7	13.1	14.1	26.4	73.6
No.30	144.0	15.2	16.4	42.8	57.2
No.50	158.6	16.8	18.1	60.9	39.1
No.100	162.5	17.2	18.5	79.4	20.6
No.200	111.1	11.8	12.6	92.0	8.0
Pan	70.1	7.4	8.0	100.0	0.0
% sand retained		92.9			
Dry Wt.	945.2	Moist. Wet	266.3	253.2	13.1
Wash Wt.	875.6	%Mositure	5.2		
L.B.W.%	7.4				
FM	2.22				
Gravel%	7.1				
Del.					
Lithologic unit	msd				

		Aggrega	te Analysis		
Borehole No.	SH-02-3				
Project	Fountain	Fountain			
From:	12.0				
То:	14.0				
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
1.0"	275.0	27.8		27.8	72.2
0.75"	35.7	3.6		31.4	68.6
0.5"	40.4	4.1		35.5	64.5
0.375"	28.0	2.8		38.3	61.7
No.4	90.8	9.2		47.5	52.5
No.8	102.1	10.3	19.7	19.7	80.3
No.16	99.6	10.1	19.2	38.9	61.1
No.30	87.7	8.9	16.9	55.8	44.2
No.50	75.7	7.7	14.6	70.3	29.7
No.100	67.6	6.8	13.0	83.4	16.6
No.200	35.1	3.5	6.8	90.1	9.9
Pan	51.3	5.2	9.9	100.0	0.0
% sand retained		52.5			
Dry Wt.	989.0	Moist. Wet	266.3	253.2	13.1
Wash Wt.	937.8	%Mositure	5.2		
L.B.W.%	5.2				
FM	2.68				
Gravel%	47.5				
Del.					
Lithologic unit	S&G				
Litilologic driit					

		Aggrega	te Analysis		
Borehole No.	SH-02-3				
Project	Fountain	Fountain			
From:	14.0				
То:	24.0				
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
1.0"	386.1	14.6		14.6	85.4
0.75"	100.4	3.8		18.4	81.6
0.5"	113.3	4.3		22.7	77.3
0.375"	84.9	3.2		25.9	74.1
No.4	253.0	9.6		35.4	64.6
No.8	324.8	12.3	19.0	19.0	81.0
No.16	348.6	13.2	20.4	39.4	60.6
No.30	324.0	12.2	19.0	58.4	41.6
No.50	294.5	11.1	17.2	75.6	24.4
No.100	199.9	7.6	11.7	87.3	12.7
No.200	78.6	3.0	4.6	91.9	8.1
Pan	138.1	5.2	8.1	100.0	0.0
% sand retained		64.6			
Dry Wt.	2646.2	Moist. Wet	266.3	253.2	13.1
Wash Wt.	2509.0	%Mositure	5.2		
L.B.W.%	5.2				
FM	2.80				
Gravel%	35.4				
Del.					
Lithologic unit	S&G				

		Aggrega	te Analysis		
Borehole No.	SH-02-4		-		
Project	Fountain	Fountain			
From:	13.5				
То:	19.0				
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
1.0"	106.3	9.0		9.0	91.0
0.75"	21.3	1.8		10.8	89.2
0.5"	88.2	7.5		18.3	81.7
0.375"	66.4	5.6		24.0	76.0
No.4	175.0	14.9		38.8	61.2
No.8	171.8	14.6	23.8	23.8	76.2
No.16	155.3	13.2	21.6	45.4	54.6
No.30	132.0	11.2	18.3	63.7	36.3
No.50	114.3	9.7	15.9	79.6	20.4
No.100	76.7	6.5	10.6	90.2	9.8
No.200	29.5	2.5	4.1	94.3	5.7
Pan	40.8	3.5	5.7	100.0	0.0
% sand retained		61.2			
Dry Wt.	1177.6	Moist. Wet	266.3	253.2	13.1
Wash Wt.	1137.0	%Mositure	5.2		
L.B.W.%	3.4				
FM	3.03				
Gravel%	38.8				
Del.					
Lithologic unit	S&G				

		Aggrega	te Analysis		
Borehole No.	SH-02-4				
Project	Fountain	Fountain			
From:	19.0				
То:	26.0				
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
1.0"	0.0	0.0		0.0	100.0
0.75"	36.5	3.2		3.2	96.8
0.5"	80.8	7.1		10.3	89.7
0.375"	64.1	5.6		16.0	84.0
No.4	182.4	16.1		32.1	67.9
No.8	181.5	16.0	23.5	23.5	76.5
No.16	167.2	14.7	21.7	45.2	54.8
No.30	151.1	13.3	19.6	64.8	35.2
No.50	119.0	10.5	15.4	80.3	19.7
No.100	88.9	7.8	11.5	91.8	8.2
No.200	31.0	2.7	4.0	95.8	4.2
Pan	32.2	2.8	4.2	100.0	0.0
% sand retained		67.9			
Dry Wt.	1134.7	Moist. Wet	266.3	253.2	13.1
Wash Wt.	1101.9	%Mositure	5.2		
L.B.W.%	2.9				
FM	3.06				
Gravel%	32.1				
Del.					
Lithologic unit	S&G				

Borehole No. SH-02-4 Project Fountain Fountain From: 26.0 To: 28.5 Sieve Size Weight % Retained %sand retained Acc. Retained Acc. Passing 1.0" 0.0 0.0 0.0 100.0 0.75" 0.0 0.0 0.0 100.0 0.5" 0.0 0.0 0.0 100.0 0.375" 0.0 0.0 0.0 100.0 0.4 9.9 1.5 1.5 98.5 No.8 15.5 2.3 2.3 2.3 97.7 No.16 25.8 3.8 3.9 6.2 93.8 No.30 38.5 5.7 5.8 12.0 88.0 No.50 63.2 9.4 9.5 21.5 78.5 No.100 129.2 19.2 19.5 41.0 59.0 No.200 183.1 27.2 27.6 68.5 31.5 Pan 208.9 31.0			Aggrega	te Analysis		
From: 26.0 To: 28.5 Sieve Size Weight % Retained %sand retained Acc. Retained Acc. Passing 1.0" 0.0 0.0 0.0 100.0 0.75" 0.0 0.0 0.0 100.0 0.375" 0.0 0.0 0.0 100.0 No.4 9.9 1.5 1.5 98.5 No.8 15.5 2.3 2.3 2.3 97.7 No.16 25.8 3.8 3.9 6.2 93.8 No.30 38.5 5.7 5.8 12.0 88.0 No.50 63.2 9.4 9.5 21.5 78.5 No.100 129.2 19.2 19.5 41.0 59.0 No.200 183.1 27.2 27.6 68.5 31.5 Pan 208.9 31.0 31.5 100.0 0.0 % sand retained 98.5 Dry Wt. 674.1 Moist. Wet	Borehole No.	SH-02-4				
To: 28.5 Sieve Size Weight % Retained %sand retained Acc. Retained Acc. Passing 1.0" 0.0 0.0 0.0 0.0 0.0 100.0 0.75" 0.0 0.0 0.0 0.0 100.0 0.375" 0.0 0.0 0.0 0.0 100.0 No.4 9.9 1.5 1.5 98.5 No.8 15.5 2.3 2.3 2.3 2.3 97.7 No.16 25.8 3.8 3.9 6.2 93.8 No.30 38.5 5.7 5.8 12.0 88.0 No.50 63.2 9.4 9.5 21.5 78.5 No.100 129.2 19.2 19.5 41.0 59.0 No.200 183.1 27.2 27.6 68.5 31.5 Pan 208.9 31.0 31.5 100.0 0.0 % sand retained 98.5 Dry Wt. 674.1 Moist. Wet 266.3 253.2 13.1 L.B.W.% 31.0 FM 0.83 Gravel% 1.5	Project	Fountain	Fountain			
Sieve Size Weight % Retained %sand retained Acc. Retained Acc. Passing 1.0" 0.0 0.0 0.0 100.0 0.75" 0.0 0.0 0.0 100.0 0.375" 0.0 0.0 0.0 100.0 No.4 9.9 1.5 1.5 98.5 No.8 15.5 2.3 2.3 2.3 97.7 No.16 25.8 3.8 3.9 6.2 93.8 No.30 38.5 5.7 5.8 12.0 88.0 No.50 63.2 9.4 9.5 21.5 78.5 No.100 129.2 19.2 19.5 41.0 59.0 No.200 183.1 27.2 27.6 68.5 31.5 Pan 208.9 31.0 31.5 100.0 0.0 % sand retained 98.5 Dry Wt. 674.1 Moist. Wet 266.3 253.2 13.1 L.B.W.% 31.	From:	26.0				
1.0"	То:	28.5				
0.75" 0.0 0.0 100.0 0.5" 0.0 0.0 100.0 0.375" 0.0 0.0 100.0 No.4 9.9 1.5 1.5 98.5 No.8 15.5 2.3 2.3 2.3 97.7 No.16 25.8 3.8 3.9 6.2 93.8 No.30 38.5 5.7 5.8 12.0 88.0 No.50 63.2 9.4 9.5 21.5 78.5 No.100 129.2 19.2 19.5 41.0 59.0 No.200 183.1 27.2 27.6 68.5 31.5 Pan 208.9 31.0 31.5 100.0 0.0 % sand retained 98.5 Dry Wt. 674.1 Moist. Wet 266.3 253.2 13.1 L.B.W.% 31.0 FM 0.83 Gravel% 1.5	Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
0.5" 0.0 0.0 0.0 100.0 0.375" 0.0 0.0 0.0 100.0 No.4 9.9 1.5 1.5 98.5 No.8 15.5 2.3 2.3 2.3 97.7 No.16 25.8 3.8 3.9 6.2 93.8 No.30 38.5 5.7 5.8 12.0 88.0 No.50 63.2 9.4 9.5 21.5 78.5 No.100 129.2 19.2 19.5 41.0 59.0 No.200 183.1 27.2 27.6 68.5 31.5 Pan 208.9 31.0 31.5 100.0 0.0 % sand retained 98.5 Dry Wt. 674.1 Moist. Wet 266.3 253.2 13.1 L.B.W.% 31.0 FM 0.83 Gravel% 1.5 Del.	1.0"	0.0	0.0		0.0	100.0
0.375" 0.0 0.0 100.0 No.4 9.9 1.5 1.5 98.5 No.8 15.5 2.3 2.3 2.3 97.7 No.16 25.8 3.8 3.9 6.2 93.8 No.30 38.5 5.7 5.8 12.0 88.0 No.50 63.2 9.4 9.5 21.5 78.5 No.100 129.2 19.2 19.5 41.0 59.0 No.200 183.1 27.2 27.6 68.5 31.5 Pan 208.9 31.0 31.5 100.0 0.0 % sand retained 98.5 The same state of the same state of	0.75"	0.0	0.0		0.0	100.0
No.4 9.9 1.5 1.5 98.5 No.8 15.5 2.3 2.3 2.3 97.7 No.16 25.8 3.8 3.9 6.2 93.8 No.30 38.5 5.7 5.8 12.0 88.0 No.50 63.2 9.4 9.5 21.5 78.5 No.100 129.2 19.2 19.5 41.0 59.0 No.200 183.1 27.2 27.6 68.5 31.5 Pan 208.9 31.0 31.5 100.0 0.0 % sand retained 98.5 Dry Wt. 674.1 Moist. Wet 266.3 253.2 13.1 L.B.W.% 31.0 FM 0.83 Gravel% 1.5 Del.	0.5"	0.0	0.0		0.0	100.0
No.8 15.5 2.3 2.3 2.3 97.7 No.16 25.8 3.8 3.9 6.2 93.8 No.30 38.5 5.7 5.8 12.0 88.0 No.50 63.2 9.4 9.5 21.5 78.5 No.100 129.2 19.2 19.5 41.0 59.0 No.200 183.1 27.2 27.6 68.5 31.5 Pan 208.9 31.0 31.5 100.0 0.0 % sand retained 98.5 Dry Wt. 674.1 Moist. Wet 266.3 253.2 13.1 L.B.W.% 31.0 FM 0.83 Gravel% 1.5 Del.	0.375"	0.0	0.0		0.0	100.0
No.16 25.8 3.8 3.9 6.2 93.8 No.30 38.5 5.7 5.8 12.0 88.0 No.50 63.2 9.4 9.5 21.5 78.5 No.100 129.2 19.2 19.5 41.0 59.0 No.200 183.1 27.2 27.6 68.5 31.5 Pan 208.9 31.0 31.5 100.0 0.0 % sand retained 98.5 Dry Wt. 674.1 Moist. Wet 266.3 253.2 13.1 L.B.W.% 31.0 FM 0.83 Gravel% 1.5 Del.	No.4	9.9	1.5		1.5	98.5
No.30 38.5 5.7 5.8 12.0 88.0 No.50 63.2 9.4 9.5 21.5 78.5 No.100 129.2 19.2 19.5 41.0 59.0 No.200 183.1 27.2 27.6 68.5 31.5 Pan 208.9 31.0 31.5 100.0 0.0 % sand retained 98.5 Dry Wt. ### Moist. Wet ### 266.3 ### 266.3 ### 266.3 ### 266.3 ### 253.2 ### 13.1 L.B.W.% ### 31.0 ### D.83 ### Gravel% ### 1.5 ### Del.	No.8	15.5	2.3	2.3	2.3	97.7
No.50 63.2 9.4 9.5 21.5 78.5 No.100 129.2 19.2 19.5 41.0 59.0 No.200 183.1 27.2 27.6 68.5 31.5 Pan 208.9 31.0 31.5 100.0 0.0 % sand retained 98.5 Dry Wt. 674.1 Moist. Wet 266.3 253.2 13.1 Wash Wt. 465.3 %Mositure 8.0 L.B.W.% 31.0 5 5 FM 0.83 6 3 1 1 1 1 1 1 1 1 1 <td>No.16</td> <td>25.8</td> <td>3.8</td> <td>3.9</td> <td>6.2</td> <td>93.8</td>	No.16	25.8	3.8	3.9	6.2	93.8
No.100 129.2 19.2 19.5 41.0 59.0 No.200 183.1 27.2 27.6 68.5 31.5 Pan 208.9 31.0 31.5 100.0 0.0 % sand retained 98.5 Dry Wt. 674.1 Moist. Wet 266.3 253.2 13.1 Wash Wt. 465.3 %Mositure 8.0 L.B.W.% 31.0 FM 0.83 Gravel% 1.5	No.30	38.5	5.7	5.8	12.0	88.0
No.200 183.1 27.2 27.6 68.5 31.5 Pan 208.9 31.0 31.5 100.0 0.0 % sand retained 98.5 Dry Wt. 674.1 Moist. Wet 266.3 253.2 13.1 Wash Wt. 465.3 %Mositure 8.0 L.B.W.% 31.0 FM 0.83 Gravel% 1.5	No.50	63.2	9.4	9.5	21.5	78.5
Pan 208.9 31.0 31.5 100.0 0.0 % sand retained 98.5 Dry Wt. 674.1 Moist. Wet 266.3 253.2 13.1 Wash Wt. 465.3 %Mositure 8.0 L.B.W.% 31.0 FM 0.83 Gravel% 1.5	No.100	129.2	19.2	19.5	41.0	59.0
% sand retained 98.5 Dry Wt. 674.1 Moist. Wet 266.3 253.2 13.1 Wash Wt. 465.3 %Mositure 8.0 L.B.W.% 31.0 FM 0.83 Gravel% 1.5 Del.	No.200	183.1	27.2	27.6	68.5	31.5
Dry Wt. 674.1 Moist. Wet 266.3 253.2 13.1 Wash Wt. 465.3 %Mositure 8.0 L.B.W.% 31.0 FM 0.83 Gravel% 1.5 Del.	Pan	208.9	31.0	31.5	100.0	0.0
Wash Wt. 465.3 %Mositure 8.0 L.B.W.% 31.0 FM 0.83 Gravel% 1.5 Del.	% sand retained		98.5			
L.B.W.% 31.0 FM 0.83 Gravel% 1.5 Del.	Dry Wt.	674.1	Moist. Wet	266.3	253.2	13.1
FM 0.83 Gravel% 1.5 Del.	Wash Wt.	465.3	%Mositure	8.0		
Gravel% 1.5 Del.	L.B.W.%	31.0				
Del.	FM	0.83				
	Gravel%	1.5				
Lithologic unit Clay	Del.					
	Lithologic unit	Clay				

		Aggrega	te Analysis		
Borehole No.	SH-02-5		-		
Project	Fountain	Fountain			
From:	10.0				
То:	16.0				
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
1.0"	107.5	7.9		7.9	92.1
0.75"	0.0	0.0		7.9	92.1
0.5"	178.8	13.2		21.1	78.9
0.375"	77.9	5.7		26.8	73.2
No.4	182.8	13.5		40.3	59.7
No.8	157.8	11.6	19.5	19.5	80.5
No.16	166.5	12.3	20.6	40.1	59.9
No.30	149.4	11.0	18.5	58.5	41.5
No.50	134.1	9.9	16.6	75.1	24.9
No.100	101.2	7.5	12.5	87.6	12.4
No.200	44.0	3.2	5.4	93.0	7.0
Pan	56.6	4.2	7.0	100.0	0.0
% sand retained		59.7			
Dry Wt.	1356.6	Moist. Wet	266.3	253.2	13.1
Wash Wt.	1300.3	%Mositure	0.5		
L.B.W.%	4.2				
FM	2.81				
Gravel%	40.3				
Del.					
Lithologic unit	S&G				

SH-02-6				
Fountain				
9.0				
12.0				
Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
39.0	8.5		8.5	91.5
19.0	4.1		12.6	87.4
29.0	6.3		18.9	81.1
11.0	2.4		21.3	78.7
45.0	9.8		31.0	69.0
53.0	11.5	16.8	16.8	83.2
39.0	8.5	12.4	29.2	70.8
33.0	7.2	10.5	39.7	60.3
33.0	7.2	10.5	50.2	49.8
32.0	6.9	10.2	60.3	39.7
30.0	6.5	9.5	69.9	30.1
94.9	20.6	30.1	100.0	0.0
	68.3			
460.8	Moist. Wet	425.1	415.4	9.7
365.8	%Mositure	2.28		
20.6				
1.96				
31.0				
S&G				
	9.0 12.0 Weight 39.0 19.0 29.0 11.0 45.0 53.0 39.0 33.0 32.0 30.0 94.9 460.8 365.8 20.6 1.96 31.0	9.0 12.0 Weight % Retained 39.0 8.5 19.0 4.1 29.0 6.3 11.0 2.4 45.0 9.8 53.0 11.5 39.0 8.5 33.0 7.2 33.0 7.2 32.0 6.9 30.0 6.5 94.9 20.6 68.3 460.8 Moist. Wet %Mositure 20.6 1.96 31.0	9.0 12.0 Weight	9.0 12.0 Weight

		Aggrega	te Analysis		
Borehole No.	SH-02-6				
Project	Fountain				
From:	12.0				
То:	26.0				
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
1.0"	144.8	6.9		6.9	93.1
0.75"	49.1	2.4		9.3	90.7
0.5"	131.6	6.3		15.6	84.4
0.375"	90.7	4.3		19.9	80.1
No.4	237.9	11.4		31.3	68.7
No.8	272.3	13.0	19.0	19.0	81.0
No.16	285.7	13.7	19.9	38.9	61.1
No.30	285.9	13.7	20.0	58.9	41.1
No.50	263.3	12.6	18.4	77.3	22.7
No.100	188.9	9.1	13.2	90.5	9.5
No.200	65.9	3.2	4.6	95.1	4.9
Pan	70.8	3.4	4.9	100.0	0.0
% sand retained		68.7			
Dry Wt.	2086.9	Moist. Wet	1815.2	1805.2	10.0
Wash Wt.	2015.6	%Mositure	0.55		
L.B.W.%	3.4				
FM	2.85				
Gravel%	31.3				
Del.					
Lithologic unit	S&G				
Gravel% Del.	31.3				

		Aggrega	te Analysis		
Borehole No.	SH-02-7		-		
Project	Fountain				
From:	11.5				
То:	21.0				
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
1.0"	42.8	2.1		2.1	97.9
0.75"	63.9	3.1		5.1	94.9
0.5"	113.7	5.4		10.6	89.4
0.375"	60.6	2.9		13.5	86.5
No.4	127.8	6.1		19.6	80.4
No.8	158.5	7.6	19.2	19.2	80.8
No.16	168.0	8.1	20.3	39.5	60.5
No.30	155.9	7.5	18.8	58.3	41.7
No.50	137.2	6.6	16.6	74.9	25.1
No.100	100.7	4.8	12.2	87.0	13.0
No.200	42.9	2.1	5.2	92.2	7.8
Pan	64.3	3.1	7.8	100.0	0.0
% sand retained		39.7			
Dry Wt.	2086.9	Moist. Wet	1037.2	1026.6	10.6
Wash Wt.	2015.6	%Mositure	1.02		
L.B.W.%	3.4				
FM	2.79				
Gravel%	19.6				
Del.					
Lithologic unit	2NS				

	Aggregate Analysis						
Borehole No.	SH-02-7						
Project	Fountain						
From:	21.0						
То:	29.0						
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing		
1.0"	0.0	0.0		0.0	100.0		
0.75"	0.0	0.0		0.0	100.0		
0.5"	0.0	0.0		0.0	100.0		
0.375"	0.0	0.0		0.0	100.0		
No.4	0.0	0.0		0.0	100.0		
No.8	1.3	0.2	0.2	0.2	99.8		
No.16	13.7	1.6	1.6	1.8	98.2		
No.30	48.6	5.7	5.7	7.5	92.5		
No.50	111.2	13.1	13.1	20.7	79.3		
No.100	178.7	21.1	21.1	41.8	58.2		
No.200	172.7	20.4	20.4	62.2	37.8		
Pan	319.9	37.8	37.8	100.0	0.0		
% sand retained		100.0					
Dry Wt.	846.1	Moist. Wet	776.0	726.3	49.7		
Wash Wt.	526.5	%Mositure	6.40				
L.B.W.%	37.8						
FM	0.72						
Gravel%	0.0						
Del.							
Lithologic unit	CL						

Aggregate Analysis						
Borehole No.	SH-02-7					
Project	Fountain					
From:	29.0					
То:	35.0					
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing	
1.0"	0.0	0.0		0.0	100.0	
0.75"	0.0	0.0		0.0	100.0	
0.5"	10.1	2.0		2.0	98.0	
0.375"	0.0	0.0		2.0	98.0	
No.4	0.4	0.1		2.1	97.9	
No.8	1.2	0.2	0.2	0.2	99.8	
No.16	10.2	2.0	2.1	2.3	97.7	
No.30	31.7	6.3	6.4	8.7	91.3	
No.50	90.6	18.0	18.4	27.1	72.9	
No.100	127.6	25.4	25.9	53.0	47.0	
No.200	108.1	21.5	21.9	75.0	25.0	
Pan	123.4	24.5	25.0	100.0	0.0	
% sand retained		97.9				
Dry Wt.	503.3	Moist. Wet	455.3	433.1	22.2	
Wash Wt.	380.2	%Mositure	4.88			
L.B.W.%	24.5					
FM	0.91					
Gravel%	2.1					
Del.						
Lithologic unit	CL					

Aggregate Analysis						
Borehole No.	SH-02-7					
Project	Fountain					
From:	35.0					
То:	37.0					
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing	
1.0"	51.2	13.3		13.3	86.7	
0.75"	11.4	3.0		16.2	83.8	
0.5"	23.6	6.1		22.3	77.7	
0.375"	8.1	2.1		24.4	75.6	
No.4	58.8	15.2		39.6	60.4	
No.8	62.2	16.1	26.7	26.7	73.3	
No.16	54.6	14.1	23.4	50.1	49.9	
No.30	47.5	12.3	20.4	70.5	29.5	
No.50	32.6	8.4	14.0	84.4	15.6	
No.100	15.7	4.1	6.7	91.2	8.8	
No.200	7.0	1.8	3.0	94.2	5.8	
Pan	13.6	3.5	5.8	100.0	0.0	
% sand retained		60.4				
Dry Wt.	386.3	Moist. Wet	387.9	386.3	1.6	
Wash Wt.	372.6	%Mositure	0.41			
L.B.W.%	3.5					
FM	3.23					
Gravel%	39.6					
Del.						
Lithologic unit	S&G					

Aggregate Analysis						
Borehole No.	SH-02-8					
Project	Fountain					
From:	12.0					
То:	25.0					
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing	
1.0"	0.0	0.0		0.0	100.0	
0.75"	66.9	3.7		3.7	96.3	
0.5"	32.0	1.8		5.5	94.5	
0.375"	33.7	1.9		7.4	92.6	
No.4	205.3	11.5		18.9	81.1	
No.8	258.5	14.5	17.9	17.9	82.1	
No.16	283.5	15.9	19.6	37.4	62.6	
No.30	279.8	15.7	19.3	56.8	43.2	
No.50	215.5	12.1	14.9	71.7	28.3	
No.100	156.3	8.8	10.8	82.5	17.5	
No.200	90.2	5.1	6.2	88.7	11.3	
Pan	163.8	9.2	11.3	100.0	0.0	
% sand retained		81.1				
Dry Wt.	1785.5	Moist. Wet	1644.5	1631.4	13.1	
Wash Wt.	1622.0	%Mositure	0.80			
L.B.W.%	9.2					
FM	2.66					
Gravel%	18.9					
Del.						
Lithologic unit	2NS					

		Aggrega	te Analysis		
Borehole No.	SH-02-8				
Project	Fountain				
From:	25.0				
То:	26.0				
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
1.0"	0.0	0.0		0.0	100.0
0.75"	0.0	0.0		0.0	100.0
0.5"	36.7	6.3		6.3	93.7
0.375"	9.7	1.7		8.0	92.0
No.4	34.5	6.0		14.0	86.0
No.8	34.2	5.9	6.9	6.9	93.1
No.16	41.3	7.1	8.3	15.1	84.9
No.30	50.2	8.7	10.1	25.2	74.8
No.50	56.2	9.7	11.3	36.5	63.5
No.100	70.9	12.2	14.2	50.7	49.3
No.200	77.6	13.4	15.6	66.3	33.7
Pan	168.1	29.0	33.7	100.0	0.0
% sand retained		86.0			
Dry Wt.	579.4	Moist. Wet	587.9	567.2	20.7
Wash Wt.	411.1	%Mositure	3.52		
L.B.W.%	29.0				
FM	1.34				
Gravel%	14.0				
Del.					
Lithologic unit	CL				

		Aggrega	te Analysis		
Borehole No.	SH-02-8				
Project	Fountain				
From:	26.0				
То:	34.0				
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
1.0"	41.8	2.0		2.0	98.0
0.75"	15.4	0.7		2.7	97.3
0.5"	54.4	2.6		5.3	94.7
0.375"	46.8	2.2		7.5	92.5
No.4	301.3	14.3		21.8	78.2
No.8	408.5	19.3	24.7	24.7	75.3
No.16	369.4	17.5	22.4	47.1	52.9
No.30	322.1	15.3	19.5	66.6	33.4
No.50	254.6	12.1	15.4	82.0	18.0
No.100	142.7	6.8	8.6	90.6	9.4
No.200	53.5	2.5	3.2	93.9	6.1
Pan	101.4	4.8	6.1	100.0	0.0
% sand retained		78.2			
Dry Wt.	2111.9	Moist. Wet	2060.3	2051.5	8.8
Wash Wt.	2010.3	%Mositure	0.43		
L.B.W.%	4.8				
FM	3.11				
Gravel%	21.8				
Del.					
Lithologic unit	S&G				

		Aggrega	te Analysis		
Borehole No.	SH-02-8				
Project	Fountain				
From:	34.0				
То:	41.0				
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
1.0"	98.4	8.0		8.0	92.0
0.75"	16.2	1.3		9.3	90.7
0.5"	46.6	3.8		13.0	87.0
0.375"	30.4	2.5		15.5	84.5
No.4	142.9	11.6		27.1	72.9
No.8	186.3	15.1	20.7	20.7	79.3
No.16	173.6	14.1	19.3	39.9	60.1
No.30	179.1	14.5	19.9	59.8	40.2
No.50	163.4	13.2	18.1	78.0	22.0
No.100	94.1	7.6	10.4	88.4	11.6
No.200	38.3	3.1	4.3	92.7	7.3
Pan	66.2	5.4	7.3	100.0	0.0
% sand retained		72.9			
Dry Wt.	1235.5	Moist. Wet	1165.9	1155.6	10.3
Wash Wt.	1170.1	%Mositure	0.88		
L.B.W.%	5.3				
FM	2.87				
Gravel%	27.1				
Del.					
Lithologic unit	S&G				

		Aggrega	te Analysis		
Borehole No.	SH-02-8				
Project	Fountain				
From:	41.0				
То:	45.0				
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
1.0"	0.0	0.0		0.0	100.0
0.75"	0.0	0.0		0.0	100.0
0.5"	36.5	4.5		4.5	95.5
0.375"	38.5	4.7		9.2	90.8
No.4	118.2	14.5		23.7	76.3
No.8	140.1	17.2	22.5	22.5	77.5
No.16	102.5	12.6	16.5	38.9	61.1
No.30	103.0	12.6	16.5	55.5	44.5
No.50	126.5	15.5	20.3	75.8	24.2
No.100	84.9	10.4	13.6	89.4	10.6
No.200	28.1	3.4	4.5	93.9	6.1
Pan	37.9	4.6	6.1	100.0	0.0
% sand retained		76.3			
Dry Wt.	816.2	Moist. Wet	722.2	715.0	7.2
Wash Wt.	778.3	%Mositure	1.00		
L.B.W.%	4.6				
FM	2.82				
Gravel%	23.7				
Del.					
Lithologic unit	S&G				

		Aggrega	te Analysis		
Borehole No.	SH-02-8				
Project	Fountain				
From:	45.0				
То:	51.0				
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
1.0"	0.0	0.0		0.0	100.0
0.75"	73.9	5.9		5.9	94.1
0.5"	41.9	3.4		9.3	90.7
0.375"	52.8	4.2		13.6	86.4
No.4	131.1	10.5		24.1	75.9
No.8	180.5	14.5	19.1	19.1	80.9
No.16	228.1	18.4	24.2	43.3	56.7
No.30	193.4	15.6	20.5	63.8	36.2
No.50	113.1	9.1	12.0	75.8	24.2
No.100	69.4	5.6	7.4	83.2	16.8
No.200	36.8	3.0	3.9	87.1	12.9
Pan	121.7	9.8	12.9	100.0	0.0
% sand retained		75.9			
Dry Wt.	1242.7	Moist. Wet	1249.5	1231.1	18.4
Wash Wt.	1120.5	%Mositure	1.47		
L.B.W.%	9.8				
FM	2.85				
Gravel%	24.1				
Del.					
Lithologic unit	S&G				

		Aggrega	te Analysis		
Borehole No.	SH-02-9				
Project	Fountain				
From:	10.5				
То:	19.0				
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
1.0"	45.6	2.7		2.7	97.3
0.75"	43.7	2.6		5.3	94.7
0.5"	74.6	4.5		9.8	90.2
0.375"	76.9	4.6		14.4	85.6
No.4	254.1	15.2		29.6	70.4
No.8	260.2	15.5	22.1	22.1	77.9
No.16	228.4	13.6	19.4	41.5	58.5
No.30	229.9	13.7	19.5	61.0	39.0
No.50	200.1	12.0	17.0	77.9	22.1
No.100	130.7	7.8	11.1	89.0	11.0
No.200	53.1	3.2	4.5	93.5	6.5
Pan	76.2	4.6	6.5	100.0	0.0
% sand retained		70.4			
Dry Wt.	1673.5	Moist. Wet	1840.4	1817.3	23.1
Wash Wt.	1597.2	%Mositure	1.26		
L.B.W.%	4.6				
FM	2.91				
Gravel%	29.6				
Del.					
Lithologic unit	S&G				

2-9 ain)) ht	ed %sand retair	2.7 5.0 10.6	97.3 95.0
ht % Retaine 3 2.7 2.3 5.6 6 3.1 4 10.8	ed %sand retair	2.7 5.0 10.6	97.3 95.0
ht % Retained 2.7 2.3 5.6 3.1 4 10.8	ed %sand retair	2.7 5.0 10.6	97.3 95.0
ht % Retained 3 2.7 2.3 5.6 3.1 4 10.8	ed %sand retair	2.7 5.0 10.6	97.3 95.0
2.7 2.3 5.6 3.1 4 10.8	ed %sand retair	2.7 5.0 10.6	97.3 95.0
2.3 5.6 3.1 4 10.8		5.0 10.6	95.0
5.6 3.1 4 10.8		10.6	
3.1 4 10.8			00.4
4 10.8			89.4
		13.7	86.3
		24.5	75.5
6 15.0	19.9	19.9	80.1
2 18.7	24.8	44.7	55.3
9 16.9	22.4	67.1	32.9
4 11.7	15.5	82.6	17.4
3 6.4	8.5	91.1	8.9
2.4	3.2	94.3	5.7
4.3	5.7	100.0	0.0
75.5			
.9 Moist. We	et 1321.6	1296.6	25.0
.1 %Mositu	re 1.89		
5			
5			
9			
	6 15.0 2 18.7 9 16.9 4 11.7 3 6.4 2.4 4 2.3 75.5 .9 Moist. We	15.0 19.9 18.7 24.8 16.9 16.9 22.4 11.7 15.5 16.4 8.5 17.5 18.5 2.4 3.2 19.9 Moist. Wet 1321.6 19.9 Mositure 1.89	15.0 19.9 19.9 19.9 19.9 18.7 24.8 44.7 9 16.9 22.4 67.1 11.7 15.5 82.6 3 6.4 8.5 91.1 2.4 3.2 94.3 5.7 100.0 75.5 8.9 Moist. Wet 1321.6 1296.6 1.1 %Mositure 1.89

Project From:	SH-02-9 Fountain 28.0		-		
From:					
	20 0				
i_	20.0				
То:	29.0				
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
1.0"	0.0	0.0		0.0	100.0
0.75"	26.2	5.4		5.4	94.6
0.5"	2.8	0.6		6.0	94.0
0.375"	2.4	0.5		6.5	93.5
No.4	48.5	10.1		16.6	83.4
No.8	86.8	18.0	21.6	21.6	78.4
No.16	70.9	14.7	17.6	39.2	60.8
No.30	73.1	15.2	18.2	57.4	42.6
No.50	69.6	14.4	17.3	74.7	25.3
No.100	46.3	9.6	11.5	86.2	13.8
No.200	21.1	4.4	5.2	91.4	8.6
Pan	34.6	7.2	8.6	100.0	0.0
% sand retained		83.4			
Dry Wt.	482.3	Moist. Wet	390.4	388.1	2.3
Wash Wt.	447.7	%Mositure	0.59		
L.B.W.%	7.2				
FM	2.79				
Gravel%	16.6				
Del.					
Lithologic unit	2NS				

		Aggrega	te Analysis		
Borehole No.	SH-02-9				
Project	Fountain				
From:	29.0				
То:	32.0				
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
1.0"	0.0	0.0		0.0	100.0
0.75"	44.1	8.7		8.7	91.3
0.5"	23.6	4.7		13.4	86.6
0.375"	23.0	4.5		17.9	82.1
No.4	75.1	14.9		32.8	67.2
No.8	89.2	17.6	26.3	26.3	73.7
No.16	94.4	18.7	27.8	54.0	46.0
No.30	80.4	15.9	23.7	77.7	22.3
No.50	39.6	7.8	11.7	89.3	10.7
No.100	16.7	3.3	4.9	94.3	5.7
No.200	6.9	1.4	2.0	96.3	3.7
Pan	12.6	2.5	3.7	100.0	0.0
% sand retained		67.2			
Dry Wt.	505.6	Moist. Wet	435.1	430.3	4.8
Wash Wt.	492.9	%Mositure	1.10		
L.B.W.%	2.5				
FM	3.42				
Gravel%	32.8				
Del.					
Lithologic unit	S&G				

i		Aggrega	te Analysis		
Borehole No.	SH-02-9		-		
Project	Fountain				
From:	32.0				
То:	33.0				
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
1.0"	0.0	0.0		0.0	100.0
0.75"	18.3	3.9		3.9	96.1
0.5"	11.4	2.4		6.3	93.7
0.375"	6.8	1.4		7.7	92.3
No.4	12.7	2.7		10.4	89.6
No.8	27.4	5.8	6.5	6.5	93.5
No.16	29.9	6.3	7.0	13.5	86.5
No.30	34.8	7.3	8.2	21.7	78.3
No.50	63.5	13.4	15.0	36.7	63.3
No.100	118.9	25.1	28.0	64.7	35.3
No.200	75.2	15.9	17.7	82.4	17.6
Pan	74.8	15.8	17.6	100.0	0.0
% sand retained		89.6			
Dry Wt.	473.7	Moist. Wet	475.0	455.5	19.5
Wash Wt.	398.5	%Mositure	4.11		
L.B.W.%	15.9				
FM	1.43				
Gravel%	10.4				
Del.					
Lithologic unit	ST				

		Aggrega	te Analysis		
Borehole No.	SH-02-9				
Project	Fountain				
From:	33.0				
То:	39.0				
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
1.0"	19.2	1.2		1.2	98.8
0.75"	131.5	7.9		9.1	90.9
0.5"	182.1	11.0		20.1	79.9
0.375"	106.3	6.4		26.5	73.5
No.4	230.3	13.9		40.4	59.6
No.8	199.9	12.1	20.2	20.2	79.8
No.16	173.3	10.4	17.5	37.7	62.3
No.30	160.1	9.7	16.2	53.9	46.1
No.50	168.1	10.1	17.0	70.9	29.1
No.100	135.0	8.1	13.6	84.6	15.4
No.200	62.2	3.8	6.3	90.9	9.1
Pan	90.5	5.5	9.1	100.0	0.0
% sand retained		59.6			
Dry Wt.	1658.5	Moist. Wet	1462.6	1455.5	7.1
Wash Wt.	1569.0	%Mositure	0.49		
L.B.W.%	5.4				
FM	2.67				
Gravel%	40.4				
Del.					
Lithologic unit	S&G				

		Aggrega	te Analysis		
Borehole No.	SH-02-9				
Project	Fountain				
From:	39.0				
То:	44.0				
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
1.0"	79.5	7.0		7.0	93.0
0.75"	36.3	3.2		10.2	89.8
0.5"	109.5	9.6		19.8	80.2
0.375"	86.1	7.6		27.4	72.6
No.4	179.7	15.8		43.2	56.8
No.8	201.3	17.7	31.1	31.1	68.9
No.16	192.1	16.9	29.7	60.8	39.2
No.30	107.8	9.5	16.7	77.5	22.5
No.50	52.4	4.6	8.1	85.6	14.4
No.100	33.7	3.0	5.2	90.8	9.2
No.200	18.8	1.7	2.9	93.7	6.3
Pan	40.5	3.6	6.3	100.0	0.0
% sand retained		56.8			
Dry Wt.	1137.7	Moist. Wet	1026.5	1022.4	4.1
Wash Wt.	1096.9	%Mositure	0.40		
L.B.W.%	3.6				
FM	3.46				
Gravel%	43.2				
Del.					
Lithologic unit	S&G				

	SH-02-9 Fountain 47.0 49.0 Weight	% Retained			
From: To:	47.0 49.0	% Retained			
То:	49.0	% Retained			
		% Retained			
Sieve Size	Weight	% Retained			
i		70 I Clairied	%sand retained	Acc. Retained	Acc. Passing
1.0"	189.7	23.2		23.2	76.8
0.75"	36.2	4.4		27.6	72.4
0.5"	62.8	7.7		35.3	64.7
0.375"	52.6	6.4		41.7	58.3
No.4	81.8	10.0		51.7	48.3
No.8	106.1	13.0	26.8	26.8	73.2
No.16	85.0	10.4	21.5	48.3	51.7
No.30	56.3	6.9	14.2	62.5	37.5
No.50	48.7	5.9	12.3	74.8	25.2
No.100	35.6	4.3	9.0	83.8	16.2
No.200	17.3	2.1	4.4	88.2	11.8
Pan	46.6	5.7	11.8	100.0	0.0
% sand retained		48.3			
Dry Wt.	818.7	Moist. Wet	624.6	600.1	24.5
Wash Wt.	771.9	%Mositure	3.92		
L.B.W.%	5.7				
FM	2.96				
Gravel%	51.7				
Del.					
Lithologic unit	G				

		Aggrega	te Analysis		
Borehole No.	SH-02-10		-		
Project	Fountain				
From:	10.0				
То:	13.0				
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
1.0"	0.0	0.0		0.0	100.0
0.75"	0.0	0.0		0.0	100.0
0.5"	21.4	5.3		5.3	94.7
0.375"	9.1	2.3		7.6	92.4
No.4	20.8	5.2		12.7	87.3
No.8	23.7	5.9	6.7	6.7	93.3
No.16	26.6	6.6	7.6	14.3	85.7
No.30	32.4	8.0	9.2	23.5	76.5
No.50	41.6	10.3	11.8	35.3	64.7
No.100	53.1	13.2	15.1	50.4	49.6
No.200	56.4	14.0	16.0	66.4	33.6
Pan	118.5	29.4	33.6	100.0	0.0
% sand retained		87.3			
Dry Wt.	403.6	Moist. Wet	410.7	388.6	22.1
Wash Wt.	285.3	%Mositure	5.38		
L.B.W.%	29.3				
FM	1.30				
Gravel%	12.7				
Del.					
Lithologic unit	CL				
1					

		Aggrega	te Analysis		
Borehole No.	SH-02-10				
Project	Fountain				
From:	13.0				
То:	22.0				
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
1.0"	57.7	4.1		4.1	95.9
0.75"	46.3	3.3		7.5	92.5
0.5"	87.2	6.3		13.7	86.3
0.375"	63.2	4.5		18.3	81.7
No.4	163.9	11.8		30.1	69.9
No.8	174.4	12.5	17.9	17.9	82.1
No.16	174.6	12.6	18.0	35.9	64.1
No.30	171.8	12.4	17.7	53.5	46.5
No.50	155.4	11.2	16.0	69.5	30.5
No.100	131.6	9.5	13.5	83.0	17.0
No.200	72.4	5.2	7.4	90.5	9.5
Pan	92.5	6.6	9.5	100.0	0.0
% sand retained		69.9			
Dry Wt.	1391.0	Moist. Wet	1137.3	1130.0	7.3
Wash Wt.	1299.4	%Mositure	0.64		
L.B.W.%	6.6				
FM	2.60				
Gravel%	30.1				
Del.					
Lithologic unit	S&G				

		Aggrega	te Analysis		
Borehole No.	SH-02-10				
Project	Fountain				
From:	22.0				
То:	24.0				
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
1.0"	0.0	0.0		0.0	100.0
0.75"	23.0	3.2		3.2	96.8
0.5"	3.3	0.5		3.6	96.4
0.375"	20.1	2.8		6.4	93.6
No.4	39.8	5.5		11.8	88.2
No.8	62.1	8.5	9.7	9.7	90.3
No.16	73.0	10.0	11.4	21.0	79.0
No.30	86.8	11.9	13.5	34.5	65.5
No.50	141.0	19.4	22.0	56.5	43.5
No.100	132.3	18.2	20.6	77.1	22.9
No.200	77.4	10.6	12.1	89.1	10.9
Pan	69.7	9.6	10.9	100.0	0.0
% sand retained		88.2			
Dry Wt.	728.5	Moist. Wet	680.1	671.2	8.9
Wash Wt.	658.9	%Mositure	1.31		
L.B.W.%	9.6				
FM	1.99				
Gravel%	11.8				
Del.					
Lithologic unit	FSD				

		Aggrega	te Analysis		
Borehole No.	SH-02-10		-		
Project	Fountain				
From:	24.0				
То:	34.0				
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
1.0"	0.0	0.0		0.0	100.0
0.75"	72.6	3.7		3.7	96.3
0.5"	119.0	6.1		9.8	90.2
0.375"	84.7	4.3		14.2	85.8
No.4	268.2	13.7		27.9	72.1
No.8	358.7	18.4	25.5	25.5	74.5
No.16	327.8	16.8	23.3	48.8	51.2
No.30	289.5	14.8	20.6	69.4	30.6
No.50	207.8	10.6	14.8	84.1	15.9
No.100	105.8	5.4	7.5	91.7	8.3
No.200	41.7	2.1	3.0	94.6	5.4
Pan	75.5	3.9	5.4	100.0	0.0
% sand retained		72.1			
Dry Wt.	1951.3	Moist. Wet	1768.6	1759.3	9.3
Wash Wt.	1875.7	%Mositure	0.53		
L.B.W.%	3.9				
FM	3.19				
Gravel%	27.9				
Del.					
Lithologic unit	S&G				

		Aggrega	te Analysis		
Borehole No.	SH-02-10				
Project	Fountain				
From:	34.0				
То:	38.0				
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
1.0"	105.1	10.2		10.2	89.8
0.75"	31.0	3.0		13.2	86.8
0.5"	96.5	9.4		22.6	77.4
0.375"	45.5	4.4		27.0	73.0
No.4	142.3	13.8		40.8	59.2
No.8	127.8	12.4	21.0	21.0	79.0
No.16	108.7	10.6	17.8	38.8	61.2
No.30	100.5	9.8	16.5	55.3	44.7
No.50	112.1	10.9	18.4	73.6	26.4
No.100	75.3	7.3	12.3	86.0	14.0
No.200	27.3	2.6	4.5	90.5	9.5
Pan	58.2	5.6	9.5	100.0	0.0
% sand retained		59.2			
Dry Wt.	1030.3	Moist. Wet	1017.5	1011.5	6.0
Wash Wt.	972.6	%Mositure	0.59		
L.B.W.%	5.6				
FM	2.75				
Gravel%	40.8				
Del.					
Lithologic unit	S&G				

Borehole No. Project From: To:	SH-02-10 Fountain 38.0 44.0				
From:	38.0				
То:	44.0				
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
1.0"	139.5	12.8		12.8	87.2
0.75"	10.5	1.0		13.8	86.2
0.5"	91.2	8.4		22.2	77.8
0.375"	43.4	4.0		26.2	73.8
No.4	112.8	10.4		36.5	63.5
No.8	124.3	11.4	18.0	18.0	82.0
No.16	105.4	9.7	15.3	33.3	66.7
No.30	91.0	8.4	13.2	46.5	53.5
No.50	154.5	14.2	22.4	68.8	31.2
No.100	101.9	9.4	14.8	83.6	16.4
No.200	34.0	3.1	4.9	88.5	11.5
Pan	79.1	7.3	11.5	100.0	0.0
% sand retained		63.5			
Dry Wt.	1087.6	Moist. Wet	914.1	896.2	17.9
Wash Wt.	1008.8	%Mositure	1.96		
L.B.W.%	7.2				
FM	2.50				
Gravel%	36.5				
Del.					
Lithologic unit	S&G				

		Aggrega	te Analysis		
Borehole No.	SH-02-10				
Project	Fountain				
From:	44.0				
То:	49.0				
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
1.0"	86.0	7.4		7.4	92.6
0.75"	21.8	1.9		9.2	90.8
0.5"	38.1	3.3		12.5	87.5
0.375"	49.6	4.2		16.7	83.3
No.4	118.0	10.1		26.8	73.2
No.8	149.4	12.8	17.5	17.5	82.5
No.16	155.8	13.3	18.2	35.7	64.3
No.30	133.3	11.4	15.6	51.3	48.7
No.50	104.6	8.9	12.2	63.5	36.5
No.100	102.8	8.8	12.0	75.5	24.5
No.200	78.0	6.7	9.1	84.6	15.4
Pan	131.5	11.2	15.4	100.0	0.0
% sand retained		73.2			
Dry Wt.	1168.9	Moist. Wet	1028.9	995.4	33.5
Wash Wt.	1037.8	%Mositure	3.26		
L.B.W.%	11.2				
FM	2.43				
Gravel%	26.8				
Del.					
Lithologic unit	S&G				

		Aggrega	te Analysis		
Borehole No.	SH-02-11		-		
Project	Fountain				
From:	11.0				
То:	12.0				
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
1.0"	0.0	0.0		0.0	100.0
0.75"	136.9	11.0		11.0	89.0
0.5"	62.4	5.0		16.0	84.0
0.375"	53.7	4.3		20.3	79.7
No.4	153.6	12.3		32.7	67.3
No.8	139.6	11.2	16.7	16.7	83.3
No.16	92.1	7.4	11.0	27.7	72.3
No.30	79.8	6.4	9.5	37.2	62.8
No.50	91.3	7.3	10.9	48.1	51.9
No.100	108.9	8.8	13.0	61.1	38.9
No.200	89.5	7.2	10.7	71.8	28.2
Pan	236.2	19.0	28.2	100.0	0.0
% sand retained		67.3			
Dry Wt.	1244.0	Moist. Wet	1040.2	1000.7	39.5
Wash Wt.	1008.3	%Mositure	3.80		
L.B.W.%	18.9				
FM	1.91				
Gravel%	32.7				
Del.					
Lithologic unit	S&G				

		Aggrega	te Analysis		
Borehole No.	SH-02-11				
Project	Fountain				
From:	12.0				
То:	14.0				
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
1.0"	0.0	0.0		0.0	100.0
0.75"	127.0	15.1		15.1	84.9
0.5"	53.6	6.4		21.5	78.5
0.375"	41.7	5.0		26.5	73.5
No.4	115.7	13.8		40.3	59.7
No.8	105.8	12.6	21.1	21.1	78.9
No.16	97.3	11.6	19.4	40.6	59.4
No.30	83.2	9.9	16.6	57.2	42.8
No.50	69.3	8.3	13.9	71.1	28.9
No.100	58.1	6.9	11.6	82.7	17.3
No.200	30.6	3.7	6.1	88.8	11.2
Pan	56.0	6.7	11.2	100.0	0.0
% sand retained		59.7			
Dry Wt.	838.3	Moist. Wet	710.8	708.3	2.5
Wash Wt.	782.9	%Mositure	0.35		
L.B.W.%	6.6				
FM	2.73				
Gravel%	40.3				
Del.					
Lithologic unit	S&G				

		Aggrega	te Analysis		
Borehole No.	SH-02-11				
Project	Fountain				
From:	14.0				
То:	24.0				
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
1.0"	51.9	2.5		2.5	97.5
0.75"	51.4	2.5		5.0	95.0
0.5"	146.3	7.1		12.2	87.8
0.375"	90.4	4.4		16.6	83.4
No.4	229.2	11.2		27.8	72.2
No.8	279.8	13.7	18.9	18.9	81.1
No.16	258.3	12.6	17.5	36.4	63.6
No.30	296.3	14.5	20.0	56.4	43.6
No.50	301.2	14.7	20.4	76.8	23.2
No.100	190.2	9.3	12.9	89.6	10.4
No.200	68.3	3.3	4.6	94.2	5.8
Pan	85.2	4.2	5.8	100.0	0.0
% sand retained		72.2			
Dry Wt.	2048.5	Moist. Wet	1886.9	1877.8	9.1
Wash Wt.	1964.0	%Mositure	0.48		
L.B.W.%	4.1				
FM	2.78				
Gravel%	27.8				
Del.					
Lithologic unit	S&G				

		Aggrega	te Analysis		
Borehole No.	SH-02-11				
Project	Fountain				
From:	24.0				
То:	34.0				
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
1.0"	34.6	2.5		2.5	97.5
0.75"	0.0	0.0		2.5	97.5
0.5"	64.5	4.6		7.1	92.9
0.375"	66.5	4.7		11.8	88.2
No.4	241.9	17.2		29.0	71.0
No.8	264.7	18.9	26.6	26.6	73.4
No.16	219.8	15.7	22.1	48.6	51.4
No.30	179.6	12.8	18.0	66.7	33.3
No.50	141.4	10.1	14.2	80.9	19.1
No.100	77.2	5.5	7.8	88.6	11.4
No.200	36.4	2.6	3.7	92.3	7.7
Pan	76.8	5.5	7.7	100.0	0.0
% sand retained		71.0			
Dry Wt.	1403.4	Moist. Wet	1279.7	1263.2	16.5
Wash Wt.	1327.4	%Mositure	1.29		
L.B.W.%	5.4				
FM	3.11				
Gravel%	29.0				
Del.					
Lithologic unit	S&G				
Lithologic unit	S&G				

		Aggregate Analysis				
Borehole No.	SH-02-12		-			
Project	Fountain					
From:	9.0					
То:	12.0					
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing	
1.0"	0.0	0.0		0.0	100.0	
0.75"	0.0	0.0		0.0	100.0	
0.5"	27.5	10.6		10.6	89.4	
0.375"	2.8	1.1		11.7	88.3	
No.4	21.2	8.2		19.9	80.1	
No.8	24.8	9.6	12.0	12.0	88.0	
No.16	20.2	7.8	9.8	21.7	78.3	
No.30	19.0	7.4	9.2	30.9	69.1	
No.50	20.0	7.7	9.7	40.6	59.4	
No.100	18.3	7.1	8.8	49.4	50.6	
No.200	16.6	6.4	8.0	57.5	42.5	
Pan	88.0	34.1	42.5	100.0	0.0	
% sand retained		80.1				
Dry Wt.	258.4	Moist. Wet	243.7	234.8	8.9	
wash Wt.	170.7	%Mositure	3.65			
L.B.W.%	33.9					
FM	1.55					
Gravel%	19.9					
Del.						
Lithologic unit	CL					

		Aggrega	te Analysis		
Borehole No.	SH-02-12				
Project	Fountain				
From:	12.0				
То:	13.0				
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
1.0"	0.0	0.0		0.0	100.0
0.75"	7.5	3.5		3.5	96.5
0.5"	15.0	7.0		10.5	89.5
0.375"	5.3	2.5		13.0	87.0
No.4	23.8	11.1		24.2	75.8
No.8	26.4	12.4	16.3	16.3	83.7
No.16	22.6	10.6	14.0	30.2	69.8
No.30	22.3	10.4	13.8	44.0	56.0
No.50	23.4	11.0	14.4	58.5	41.5
No.100	23.9	11.2	14.8	73.2	26.8
No.200	17.8	8.3	11.0	84.2	15.8
Pan	25.6	12.0	15.8	100.0	0.0
% sand retained		75.8			
Dry Wt.	213.6	Moist. Wet	215.1	213.6	1.5
Wash Wt.	187.5	%Mositure	0.70		
L.B.W.%	12.2				
FM	2.22				
Gravel%	24.2				
Del.					
Lithologic unit	S&G				

		Aggrega	te Analysis		
Borehole No.	SH-02-12				
Project	Fountain				
From:	13.0				
То:	14.0				
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
1.0"	57.9	7.6		7.6	92.4
0.75"	37.2	4.9		12.5	87.5
0.5"	29.3	3.8		16.3	83.7
0.375"	46.6	6.1		22.4	77.6
No.4	107.2	14.1		36.5	63.5
No.8	94.4	12.4	19.5	19.5	80.5
No.16	97.2	12.7	20.1	39.5	60.5
No.30	85.9	11.3	17.7	57.3	42.7
No.50	81.0	10.6	16.7	74.0	26.0
No.100	63.5	8.3	13.1	87.1	12.9
No.200	27.4	3.6	5.7	92.7	7.3
Pan	35.3	4.6	7.3	100.0	0.0
% sand retained		63.5			
Dry Wt.	762.9	Moist. Wet	692.0	688.6	3.4
Wash Wt.	727.2	%Mositure	0.49		
L.B.W.%	4.7				
FM	2.77				
Gravel%	36.5				
Del.					
Lithologic unit	S&G				

		Aggrega	te Analysis		
Borehole No.	SH-02-12		-		
Project	Fountain				
From:	23.0				
То:	28.0				
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
1.0"	0.0	0.0		0.0	100.0
0.75"	0.0	0.0		0.0	100.0
0.5"	0.0	0.0		0.0	100.0
0.375"	0.0	0.0		0.0	100.0
No.4	0.0	0.0		0.0	100.0
No.8	0.6	0.2	0.2	0.2	99.8
No.16	2.1	0.5	0.5	0.7	99.3
No.30	6.9	1.8	1.8	2.5	97.5
No.50	17.4	4.5	4.5	7.0	93.0
No.100	39.0	10.1	10.1	17.1	82.9
No.200	84.9	22.1	22.1	39.2	60.8
Pan	234.1	60.8	60.8	100.0	0.0
% sand retained		100.0			
Dry Wt.	385.0	Moist. Wet	398.6	356.8	41.8
Wash Wt.	151.0	%Mositure	10.49		
L.B.W.%	60.8				
FM	0.28				
Gravel%	0.0				
Del.					
Lithologic unit	CL				
Ũ					

		Aggrega	te Analysis		
Borehole No.	SH-02-12				
Project	Fountain				
From:	28.0				
То:	30.0				
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
1.0"	0.0	0.0		0.0	100.0
0.75"	0.0	0.0		0.0	100.0
0.5"	0.0	0.0		0.0	100.0
0.375"	0.0	0.0		0.0	100.0
No.4	0.0	0.0		0.0	100.0
No.8	0.0	0.0	0.0	0.0	100.0
No.16	2.4	0.4	0.4	0.4	99.6
No.30	31.1	5.5	5.5	5.9	94.1
No.50	145.9	25.9	25.9	31.8	68.2
No.100	140.5	24.9	24.9	56.7	43.3
No.200	95.4	16.9	16.9	73.6	26.4
Pan	148.9	26.4	26.4	100.0	0.0
% sand retained		100.0			
Dry Wt.	564.2	Moist. Wet	571.3	537.6	33.7
Wash Wt.	415.5	%Mositure	5.90		
L.B.W.%	26.4				
FM	0.95				
Gravel%	0.0				
Del.					
Lithologic unit	CL				

		Aggrega	te Analysis		
Borehole No.	SH-02-12		-		
Project	Fountain				
From:	30.0				
То:	31.0				
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
1.0"	0.0	0.0		0.0	100.0
0.75"	0.0	0.0		0.0	100.0
0.5"	0.0	0.0		0.0	100.0
0.375"	0.0	0.0		0.0	100.0
No.4	0.0	0.0		0.0	100.0
No.8	0.0	0.0	0.0	0.0	100.0
No.16	2.9	0.6	0.6	0.6	99.4
No.30	20.0	4.5	4.5	5.1	94.9
No.50	68.9	15.4	15.4	20.5	79.5
No.100	94.6	21.1	21.1	41.6	58.4
No.200	94.1	21.0	21.0	62.6	37.4
Pan	167.3	37.4	37.4	100.0	0.0
% sand retained		100.0			
Dry Wt.	447.8	Moist. Wet	521.6	478.1	43.5
Wash Wt.	280.7	%Mositure	8.34		
L.B.W.%	37.3				
FM	0.68				
Gravel%	0.0				
Del.					
Lithologic unit	CL				

		Aggrega	te Analysis		
Borehole No.	SH-02-12				
Project	Fountain				
From:	38.0				
То:	43.0				
Sieve Size	Weight	% Retained	%sand retained	Acc. Retained	Acc. Passing
1.0"	65.7	11.3		11.3	88.7
0.75"	38.0	6.5		17.8	82.2
0.5"	42.8	7.3		25.1	74.9
0.375"	22.6	3.9		29.0	71.0
No.4	49.0	8.4		37.4	62.6
No.8	59.0	10.1	16.1	16.1	83.9
No.16	70.2	12.0	19.2	35.3	64.7
No.30	78.0	13.4	21.3	56.7	43.3
No.50	65.8	11.3	18.0	74.7	25.3
No.100	45.8	7.8	12.5	87.2	12.8
No.200	21.3	3.6	5.8	93.0	7.0
Pan	25.6	4.4	7.0	100.0	0.0
% sand retained		62.6			
Dry Wt.	583.8	Moist. Wet	509.5	504.0	5.5
Wash Wt.	557.9	%Mositure	1.08		
L.B.W.%	4.4				
FM	2.70				
Gravel%	37.4				
Del.					
Lithologic unit	S&G				