

EA Engineering, Science, and Technology, Inc., PBC 320 Gold Avenue SW, Suite 1300 Albuquerque, New Mexico 87102 Phone: (505) 224-9013

November 7, 2019

Ms. Susan von Gonten New Mexico Environment Department Petroleum Storage Tank Bureau 2905 Rodeo Park Drive East, Building 1 Santa Fe, New Mexico 87505

## RE: FILE REVIEW SANTA FE COUNTY JUDICIAL COMPLEX STATE LEAD SITE 327 SANDOVAL STREET, SANTA FE, NEW MEXICO FACILITY #: 53763, RELEASE ID #: 4597, WPID #: 4072

Dear Ms. von Gonten:

EA Engineering, Science, and Technology, Inc., PBC (EA) is pleased to submit this letter report documenting the file review of available New Mexico Environment Department (NMED) Petroleum Storage Tank Bureau (PSTB) boring logs for the Design Center plume associated with the Santa Fe County Judicial Complex (SFCJC) State Lead Site. The work was performed under EA's State Lead remediation contract number (#) 19-667-3200-0007 and in accordance with EA's *Workplan for CRP Development, File Review, Baseline Groundwater Monitoring, In Situ Microcosm Study, Benzene Plume Delineation, FRP Development, and Discharge Permit,* approved by the NMED PSTB on June 27, 2019 under work plan identification (WPID) number 4072.

On August 23, 2019, EA traveled to Santa Fe, New Mexico to review available boring logs and heated headspace screening results for soil borings installed in the vicinity of the Design Center in the southern portion of the SFCJC State Lead Site for the purpose of verifying the plume extent and treatment zone thickness for future injection activities to be completed at the site. Boring logs reviewed included, from south to north, TWS-2, TWS-3, MW-4, MW-4R, MW-1, MW-1R, TWS-4, SB-3, MW-20, and SB-1. The locations of the soil borings/monitoring wells are shown on Figure 1. Copies of the pertinent reviewed boring logs are provided in Attachment 1.

Headspace readings were below the NMED PSTB action level of 100 parts per million by volume (ppmv) in all field screening samples collected from borings TWS-2, TWS-3, SB-3 and MW-20. Headspace readings above 100 ppmv were encountered in the remainder of the borings, including MW-4, MW-4R, MW-1, MW-1R, TWS-4, and SB-1 (Figure 1). A summary of elevated PID readings above 100 ppmv and associated sample intervals where the elevated PID readings were encountered in each boring are presented in Table 1.

In borings MW-4, MW-4R, TWS-4, and SB-1, the bottom limits of contamination were not defined, as PID readings were above 100 ppmv at the total depth of the borings. Therefore, EA

recommends that three soil borings be advanced within the Design Center plume area to delineate the lower boundary of the treatment zone. During advancement of the borings, continuous sampling and heated headspace screening will be performed to document existing contaminant concentrations with depth. EA will utilize the Contingency Set-Aside for Soil Borings (Deliverable ID 4072-5) to complete the boring investigation.

EA intends to invoice the full approved amount of \$2,696.88 (including NMGRT of 7.875%) for Deliverable ID 4072-1, File Review & Letter Report. If you have any questions regarding the information provided in this letter report, please don't hesitate to call me at (505) 369-3149.

Sincerely,

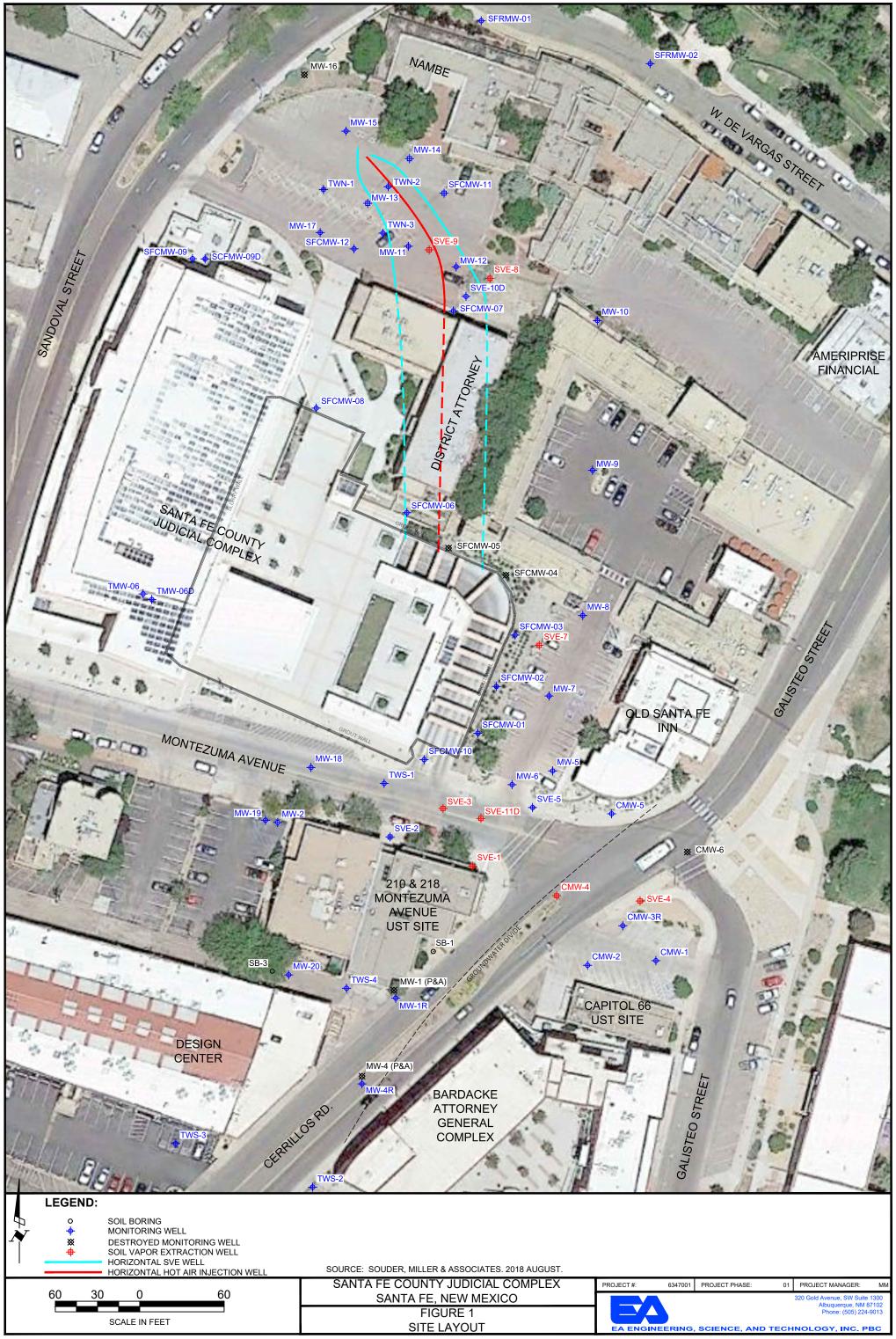
## EA Engineering, Science, and Technology, Inc. PBC

Michael D. McVey, P. G. Senior Hydrogeologist

Enclosure Cc: File

Attachments: Figure 1 – Site Layout Table 1 – Summary of Elevated PID Readings Above 100 PPMV in Soil Borings Installed in the Area of the Design Center Plume Attachment 1 – Soil Boring Logs

FIGURE



TABLE

## TABLE 1. SUMMARY OF PID READINGS ABOVE 100 PPMV IN SOIL BORINGS INSTALLED IN THE AREA OF THE DESIGN CENTER PLUME SANTA FE COUNTY JUDICIAL COMPLEX, SANTA FE, NEW MEXICO

Boring/Well Designation	Date Drilled/ Installed	Total Depth (ft bgs)	Sample Interval (ft bgs)	PID Reading (ppmv)
MW-4	03-Feb-06	41	39-41	146.4
MW-4R	24-Jun-14	47	25-27	843.6
			40-42	2,572
			45-47	825.4
MW-1	04-Feb-99	30	15	252
			16	601
			21	612
			22	525
			23	399
			24	110
			25	122
			30	6
MW-1R	31-Mar-04	38	23.5-25	228.8
			30-32.5	108.9
			37-38	64.2
TWS-4	19-Mar-14	40	30-35	405
			35-40	196
SB-1	31-Mar-04	32	25-29	198.5
			29-30	199.2
			30-32	199.7

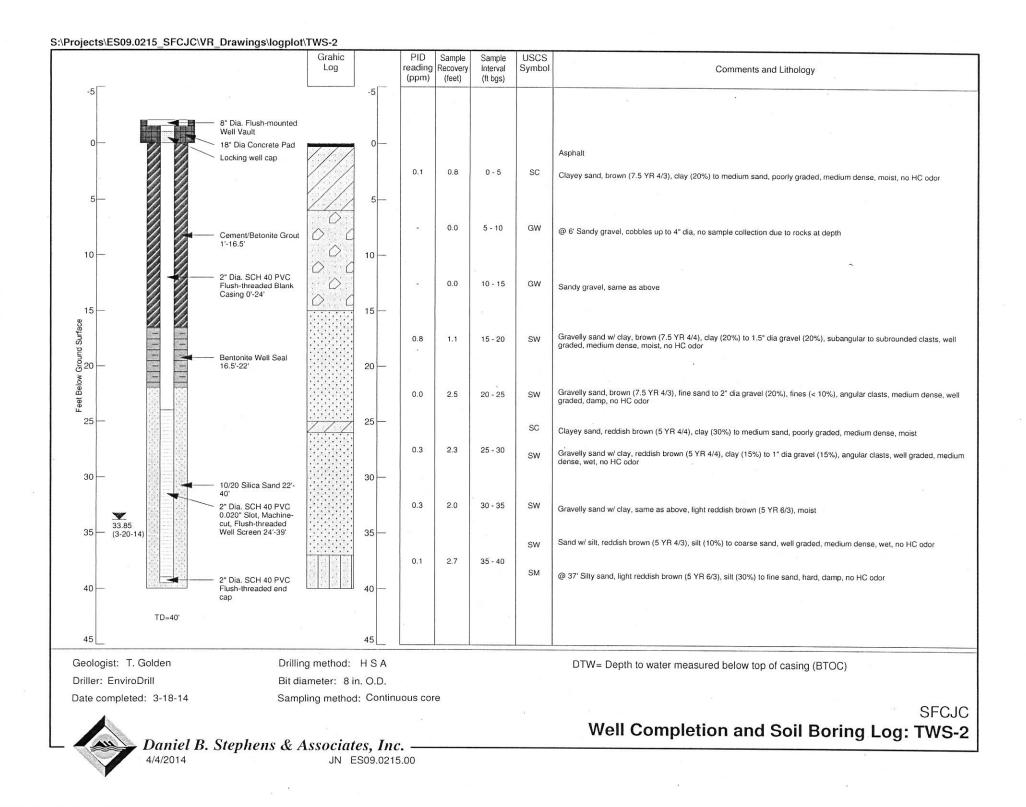
Notes:

**BOLD** indicates PID reading above the NMED PSTB action level of 100 ppmv at total depth of boring.

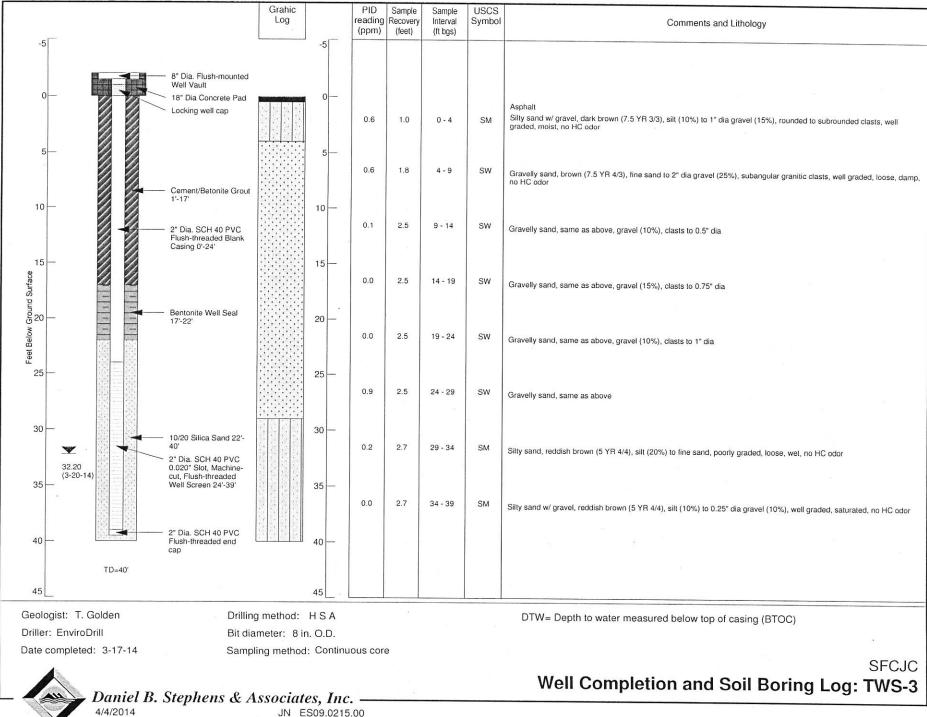
ft bgs = Feet below ground surface

ppmv = Parts per million by volume

# ATTACHMENT 1 SOIL BORING LOGS



### S:\Projects\ES09.0215\_SFCJC\VR\_Drawings\logplot\TWS-3



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0       Ground Asphalt       0       1         1       Asphalt       0       1         2       Asphalt       0       1         2       0.0°-0.5'       3.0       -       Hand Auger       -       2-3       Sw       20-30 Sand, strong brown (7.5YR 4/6), fine to coarse sand, low plasticity, model to coarse sand, soft to firm consistency, slightly molist, no dor         6       7       7       7	
	(small), 5% clay/silt, ivel, trace silt/clay, ilt, trace clay, low
10- 11- 12- 12- 12- 10- 12- 12- 10- 10- 10- 10- 10- 10- 10- 10	
B       13- Grout       Cement/Bentonite       Carce for the	ize mica plateletts
So 13- Grout       Cernent/Bentonite       C250733       13- SW 60       14- SW 60       13- SW 60       14- SW 60       13- SW 60       13- SW 60       13- SW 60       13- SW 60       14- SW 60       14- SW 60       15- SW 60       14- SW 60       14- SW 60       15- SW 60       14- SW 60       14- SW 60       14- SW 60       14- SW 60       15- SW 60       14- SW 60       15- SW 60       15- SW 70       15- SW	44 seed 19832
20 17.5-20 SW 20.0-22.0 Same as above, no recovery	
21- 22- 23- 24- 24- 24- 24- 24- 24- 24- 24	to mostly fine
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
27-     27-       28-     28-       29-     30-       30-     30-       31-     31-       32-     32-	
Geologist: L. Rought Driller: Spectrum Exploration Date completed: 4–1–04 Deniel B. Charlens f. American J. Americ	16 - 440 Table - 1
Daniel B. Stephens & Associates, Inc.	j. 00-5

### S:\Projects\ES09.0215\_SFCJC\VR\_Drawings\logplot\MW-20 Grahic PID Sample Sample USCS Log reading Recovery Interval Symbol Comments and Lithology (ppm) (inches) (ft bas) -5 -5[ 8" Dia, Flush-mounted Well Vault 0 0.8 25 0-5 Asphalt Asphalt Locking well cap Silty sand with clay, brown (7.5YR 4/4), fined-grained, poorly graded, round to subround, 20-25% silt, 10-15% clay, damp, SM Concrete Well Pad no HC odor. DI 0.0 15 5-10 GW/SW Gravelly sand with cobbles, brown (7.5YR 5/4), fine- to medium-grained sand, round to subround, loose, 50% cobbles and gravels, subround up to 10 cm, dry, no HC odor. Cement/Betonite 10 10 Grout 1'-18' Sand with gravel, reddish brown (5YR 4/4), fine- to coarse-grained, well graded, round to subangular, little fines, 15% 0.0 20 10-15 SW gravels, subangular up to 2 cm, 2" Dia. SCH 40 PVC Flush-threaded Blank Casing 0'-25' 15 15 0.1 37 15-20 SW Similar to above, with sparse subround gravels up to 2 cm Surface As above, with cobbles up to 6.5 cm SW/GW Sand with gravel, brown (10YR 5/3), fine- to coarse-grained, well graded, round to subround, dry to damp, loose. 15% SW 20 ground subrounded gravels up to 5 cm. No hydrocarbon odor. 20 Sandy gravel with cobbles, reddish brown (5YR 5/4), fine- to coarse-grained, sub-angular to angular, well graded, 45% -Bentonite Well Seal 0.0 18 20-25 GW ···· 18' - 23' 55% subround gravels and small cobbles , dry to damp, no odor. Below Sand, reddish brown (2.5YR 5/4), fine- to coarse-grained, round to subround, sparse granules up to 1.5 cm, damp, no SW odor eet 25 25 Sand, similar to above with cobbles up to 7 cm 0.0 25-30 11 SW/GW 30 30 0.0 As above 29 30-35 SW/GW 10/20 Silica Sand 23'-40.5 DTW= 2" Dia. SCH 40 PVC 32.81 0.020" Slot, Machine-35 (8/11/14) cut, Flush-threaded 35 0.0 As above 40 35-40 SW/GW Well Screen 25'-40' Sand, reddish brown (2.5YR 5/4), fine- to medium- grained with sparse coarser material and few fines; well-graded, SW loose, damp. Clayey sand, reddish brown (2.5YR 4/4), fine- to coarse-grained, well graded, with sparse round to subround small SC gravels, approx. 15% clay, very hard/compact, moist, no odor 40 40 2" Dia. SCH 40 PVC Flush-threaded end TD = 40.5'cap 45 45 Geologist: J. Fisher Drilling method: HSA DTW= Depth to water measured below top of casing (feet) Driller: EnviroDrill Bit diameter: 8 in. O.D. Date completed: 8/10/14 Sampling method: Core barrel, cuttings SFCJC Well Completion and Soil Boring Log: MW-20 Daniel B. Stephens & Associates, Inc. -

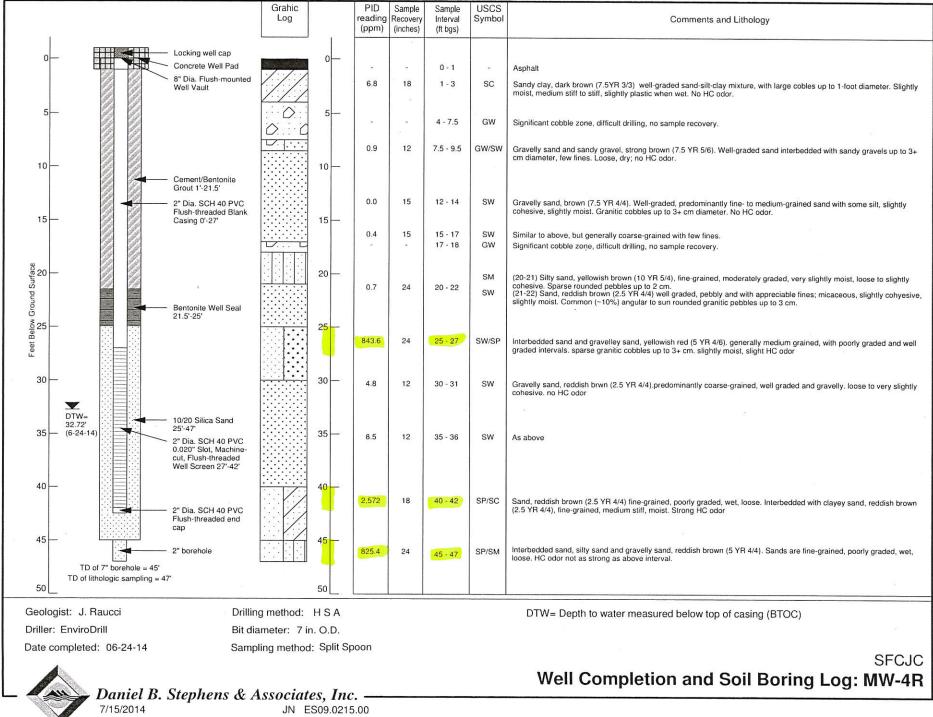
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B" Diameter Flush Mount Well Vault	Locking Expansion Cap 2' Dia. x 6" Thick Concrete Pad	Graphic Log	PID Reading (ppm)	Sampling Device	Sample Interval (feet bgs)	USCS Symbol	Comments and Lithology
	Ground Surface	sw	0.1	Hand auger	1.0-1.5	SW	1.0: Sand with clay and gravel, very dark grayish brown (10YR 3/2), clay to pebbles, mostly medium— to coarse—grained sand, poorly sorted, angular to rounded grains, slight plasticity, unconsolidated, moist.
-	Bentonite/Cernent Grout 2'-16.B'	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0	Cuttings	5-7.0	GW	5.0: Gravel with sand, brown (7.5YR 4/4), very fine sand to 2—inch diameter and probably larger
-	2" Flush Thread SCH 40 PVC		0.0	Split	9-11	SW	gravel, poorly sorted, angular to rounded clasts, unconsolidated, moist, at 9 feet more sand. 10.0: Sand with gravel, brown (7.5 YR 5/4), very fine-grained sand to 2-inch and larger gravel,
10	Blank Casing	10-	48	spoon Split	11-13	SW	poorly sorted, angular clasts, unconsolidated, damp, becomes sandier with depth.
-			0.0	spoon Split	13-15	SW	
-	B-1/4" Diameter	SW -		spoon Split spoon	15–17	SW	15.0: Sand, yellowish red (5YR 4/6) medium— to coarse—grained, poorly sorted, subangular grains, unconsolidated, moist, at 19 feet encounter gravel.
-	Borehole Bentonite Seal	-		Split spoon	17-19	SW	aubungulur, gruina, unconsoliduteu, moiat, ut ra reet encounter grutei.
Surface	16.8'-19.6'	20-	0.0	Split spoon	20-22	SW	20.0: Sand, same as above, minor amounts gravel (weathered granite).
Ground Su	20/40. Transition Sand 19.6'-22.4'			Split spoon	22-24	SW	
		sw –	0.0	Split	24-26	sw	25.0: Sand, same as above, minor amounts of gravel.
Feet Below	00000 - 00000 2* SCH 40 PVC 00000 - 00000 24.6'-39.6'			spoon Split spoon	26-27	SW	
- CO200				Split spoon	27-29	SW	
30 —	/0000100000 0000100000 0000100000	30 -	2.1	Split spoon Split	29-31 31-33	SW SW	30.0: Sand, same as above.
_			0.0	spoon Split spoon	33-35	SW	
-	0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -	- - -		Split spoon	35-37	SW/GW	35.0: Sand, same as above, gravel layer from 36 to 37 feet, saturated at 37 feet, water probably in gravel, at 39 feet strong hydrocarbon odor.
· -	00000 - 00000 22.4'-41.0' 00000 - 00000 00000 - 00000	-	0.1	Split spoon	37-39	SW	
40 -		SW 40	146.4	Split spoon	39-41	SW	
-	T.D. = $41.0'$ PVC End Cap	-	2				
-		_					
		-					
-		-					
50 –		50					
	:: C. Pigman Drilling metho		stem a	uger			
	DC Exploration Bit diameter: mpleted: 2–03–06	0-1/4					218 MONTEZUMA AVENUE UST SITE
	$\backslash$						Well Log: MW-4
- ()	Daniel B. Stephens & Ass	ociates, l JN ESO4	nc. —				

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PROJECT: TWO OFFICE BUILDINGS	DRILLING COMPANY: Geo-Test					
PROJECT NUMBER: 94997048	DRILLER: D. Tanner					
CLIENT: Triumfo Properties, L.P.	DRILLING METHOD: Hollow Stem Auger					
BORING / WELL NUMBER: MW-1	BORE HOLE DIAMETER: _4"					
TOTAL DEPTH: 30.0'	SCREEN: Diam. <u>2.0"</u> Length <u>20.0'</u> Slot Size <u>0.010"</u>					
SURFACE ELEVATION:	CASING: Diam. <u>2.0"</u> Length <u>10.0'</u> Type <u>Sch. 40 PVC</u>					
GEOLOGIST: M. Henn	DATE DRILLED: 2-4-99					
	PAGE 1 of 1					

	DEPTH (FT)	SOIL SYMBOL	WELL CONSTRUCTION	PID	SAMPLES	SAMPLE INTERVAL	DESCRIPTION INTERVAL	DESCRIPTION OF STRATUM	<b>DEPTH (FT)</b>
	0			7 0 0 0 0 - 0 - 0 1 2 15			1.0 2.0 4.0 7.5 10.0	SANDY CLAY, dark brown to moderate brown, small to medium sized gravel, slightly moist, no odor SANDY CLAY, dark reddish brown, with small to medium sized gravel, slightly moist, no odor SANDY CLAY, moderate to dusky reddish brown, with small to medium sized gravel and pieces of ash, slightly moist, no odor CLAYEY SAND, fine-to medium-grained, moderate to light brown, with small to medium pieces of granite (degraded)-rose colored, moderately moist, no odor CLAYEY SAND, fine-to medium-grained, moderate brown, with small to large pieces of granite (degraded)-rose colored, slightly to moderately moist, no odor CLAYEY SAND, fine-to medium-grained, dark yellowish brown, with small to medium granite (degraded), moderately moist, no	0 5 10
	20			2 252 601 42 3 95 99 612 525 399 612 525 399 110 122 10		15.0 16.0 20.0 21.0	24.0	odor - with reddish brown silty ribbons at 11' CLAYEY SAND, fine-to medium-grained, moderate brown, with small to medium degraded granite, with dark brown inclusions, moist, mild to moderate odor SAND, fine-grained, moderate brown, very moist, strong odor CLAYEY SAND, fine-to medium-grained, moderate brown to moderate reddish brown, with small to medium sized gravel (granite) and 1/4" to 1/2" quartz and small sized green and black staining, moist with moderate to strong odor - staining decreases from 17' to 24' - silt seam, pale yellowish brown, at 21' CLAYEY SAND, fine-to medium-grained, moderate reddish brown, with medium sized pieces of quartz and degraded granite, slightly moist to moist, moderate odor	20 25
2/18/99	30			6			27.0 29.0 30.0	CLAYEY SAND, fine-to medium-grained, moderate reddish brown, with medium sized pieces of quartz and degraded granite, slightly moist to moist, slight odor CLAYEY SAND, fine-to medium-grained, pale reddish brown, dry to slightly moist, no odor Bottom of boring at 30.0'	30 30 35 35 40
MWL 97048 27	REN	1ARK	S:				÷	H EXCINE	ERINO, INC.

# SOIL BORING / MONITOR WELL LOG

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Flush Mount Well Vault	Locking Well Cap	Graphic Log	(	PID Reading (ppm)	Blow Counts	Sampling Device	Sample Recovery	Sample Interval (feet bgs)	USCS Symbol	Comments and Lithology
	18"-Diameter Flush Concrete Pad	SM SM SM SM SM SM SM SM SM SM SM SM SM S	0	- 3.8	-	Hand Auger 5' Core barrel	 16 <sup></sup>	0-2.5 2.5-4	SM SM	<ul> <li>0.0-0.5 Concrete</li> <li>0.5-2.5 Sifty sand, strong brown (7.5YR 4/6), very fine to mostly fine sand with 20% silt and clay varying irregularly from trace to 10% medium plasticity, soft consistency moist, no odor, some gravel to 3 inches diameter towards top (quartzite)</li> <li>2.5-4.0 Same as above, large rock at 4 feet depth, no sample recovery</li> <li>5.0-10.0 Upper 12 inches: sandy gravel, yellowish brown (10YR 5/4) mostly large gravel</li> </ul>
	2" Flush Thread SCH 40 PVC 0'-23.0'			3.9	-	5' Core barrel	22"	5-10	GW	<ul> <li>with coarse sand 30% with granitic look/reddish tint, gravel = granite, low plasticity, soft consistency, moist, no odor, (large rock at 7 feet; retract core barrel to drill through rock); middle 4 inch portion of sample: very fine to most fine sand, yellowish brown (10YR 5/4), 5% silt, soft consistency, moist, no odor, lower 8 inch portion: gravel with sand, yellowish brown (10YR 5/4) with reddish tint, fine to coarse sand approximately 45% gravel/cobble fragments mostly gran soft to firm consistency, moist, no odor, on a small scale (+/- 1 inch -2 inch irregular change in grain size</li> <li>10.0-15.0 Sand, strong brown (7.5YR 4/6), fine to coarse sand, trace silt/clay, 5% small gravel, low plasticity, soft consistency, moist, no odor; (large fragment of quartzite 18 inches, large fragments of granite on top of sample)</li> </ul>
Ground Surface	Bentonite Pellets, Hydrated 15.5'-19.5'		- 15- - -	2.3	-	5' Core barrel	36"	10–15	sw	15.0–20.0 Same as above, large gravel content varies from 10% to 45% (mostly granitic), some cobble fragments; moist, no odor, bottom 1 inch change in color to yellowish red (SYR 5/6)
200 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00001		20	2.3	-	5' Core barrel	36*	15–20	sw	20.0-25.0 Sand, yellowish red (5YR 5/6), fine to coarse sand, trace slit/clay, 5-10% small gravel, large granite fragment stuck in shoe; low plasticity, soft consistency, mois to very moist, upper 18 inches no odor, lower 18 inches strong odor and firm t hard consistency (this may indicate an old water level horizon), split sample for PID reading into upper and lower 18 inch sections
25- 25- 25- 25- 25- 25- 25- 25- 25- 25-			-	10.0 228.8	-	5' Core barrel 5' Core barrel	- 36"	20-23.5 23.5-25	sw sw	25.0—30.0 Sand with gravel, yellowish red (5YR 5/6), same as above with 20% gravel and aggregates of greenish minerale, low plasticity, soft to firm consistency, moist to
				37.3	-	5' Core barrel	30"	25–27.5	sw	very molet, odor 27.5-30.0 Same as above
30- 00000 00000 00000 00000 00000	– boood – boood – boood – boood – boood – boood		30-		- 32/112/	5' Core barrel	-	27.5–30	SW	30.0-32.0 Same as above, refusal at 10 inches, resample with 5 feet core barrel: distinct layering with thin seems of white quartz crystals, firm to hard consistency, moist odor at bottom of core barrel
- 0000 00000 00000 00000 00000 35- 00000 00000	→00000 →00000 20 Slot Screen →00000 2 SCH 40 PVC →00000 23.0'-38.0' →00000			108.9 -	Refusal —	SS 5' Core barrel 5' Core barrel	10" 30" 30"	30-32 30-32.5 32.5-35	SP SP SM	32.0-32.5 Sand, yellowish red (5YR 5/6), very fine to fine sand with trace slit/clay, trace gravel, low plasticity, soft consistency, very moist to wet, odor; stop drilling and check for H2C: 12:00 DTW-32.5 feet bgs; 12:10 DTW-32.3 feet bgs 32.5-35.0 Silty sand, yellowish red (5YR 5/6), very fine to fine sand with 20% slit/clay (minor), low plasticity, soft consistency, saturated, odor, (retract augers 1 foct, medsure WL's = 12:27 DTW-33.3 feet bgs; 12:38 DTW- 32.7 feet bgs
00000	- 00000 - 00000 - 00000 - 00000 - End Cap - 38.0'			64.2	-	5' Core barrel	-	37.0- 38.0	SM	35.0-37.0 Same as above, saturated 37.0-38.0 Same as above but dense, very moist, grayish discoloration at 37 feet depth
40-		4	ω_]							
Geologist: L. R Driller: Spectru Date completed	Im Exploration Bit diame	ter: 7–5/	′8" (	D.D.	n auge	ər			21	0 and 218 MONTEZUMA AVENUE UST SITE Well Log: MW-1R

### Grahic PID USCS Sample Sample Log reading Recovery Symbol Interval Comments and Lithology (ppm) (feet) (ft bgs) -5 -5 8" Dia. Flush-mounted Well Vault 18" Dia Concrete Pad 0 Asphalt Locking well cap 2.7 1.7 0-5 SC Clayey sand, brown (7.5 YR 4/3), clay (30%) to medium sand, poorly graded, medium dense, damp, no HC odor 5 C (cuttings) Sandy gravel, brown (7.5 YR 4/3), sand (40% to gravel and cobbles up to 4" dia, subrounded clasts, well 0.0 5 - 10 GW Cement/Betonite Grout $\wedge$ graded, no HC odor, no sample recovery due to rocks at depth 1'-15.9 0 10 10 0 2" Dia. SCH 40 PVC 10 - 15 C 0.0 Flush-threaded Blank GW Sandy gravel, same as above Casing 0'-24' $\mathcal{O}$ 15 15-Sur 7.2 1.0 15 - 20 SW Gravelly sand, brown (7.5 YR 4/4), fine sand to 2" dia gravel (20%), well graded, loose, dry, no HC odor 5 Bentonite Well Seal g 20 15.9'-22' 20 Below 0.5 20 - 25 2.5 SW Gravelly sand, same as above, angular clasts, damp, slight HC odor and soil staining Feel 25 25 Clayey sand w/ gravel, reddish brown (5 YR 4/4), clay (30%) to coarse sand and gravel (10%) to 0.5" dia, well graded, 2.3 1.5 25 - 30 SC medium dense, moist, slight HC odor 30 30 10/20 Silica Sand 22'-40 Clayey sand w/ gravel, same as above, medium HC odor Y 2" Dia. SCH 40 PVC 405 2.7 30 - 35 SC @ 32' Clayey sand w/ gravel, light reddish brown (5 YR 6/4), clay (30%) to 1.5" dia gravel (10%), angular clasts, dense, 32.40 0.020" Slot, Machinestrong HC odor (3-20-14 cut, Flush-threaded 35 Well Screen 24'-39' 3 196 2.0 35 - 40 SC Clayey sand, same as above, reddish brown (5 YR 4/4), hard, strong HC odor decreases with depth 2" Dia, SCH 40 PVC 40 Flush-threaded end cap TD=40' 45 45 Geologist: T. Golden Drilling method: HSA DTW= Depth to water measured below top of casing (BTOC) Driller: EnviroDrill Bit diameter: 8 in. O.D. Date completed: 3-19-14 Sampling method: Continuous core SFCJC Well Completion and Soil Boring Log: TWS-4 Daniel B. Stephens & Associates, Inc. 4/4/2014 JN ES09.0215.00

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