



August 02, 2015

Rialto Homes
1270 North Loop 1604 East, Suite 1116
San Antonio, TX 78232

Attention: **Mr. Eyal Avnon**

Re: Fill Evaluation
Vance Jackson Tract
Vance Jackson Road and Callaghan Road
San Antonio, Texas

InTEC Project No. **S151246**

As requested, Integrated Testing and Engineering Company of San Antonio (InTEC) evaluated the existing fill at the above referenced project site. InTEC visited the site, reviewed available information such as aerial maps, and visually observed sixteen test pits excavated at the above referenced project site.

Site Information

- The site is located north and east of Vance Jackson Road and Callaghan Road. The site has an entry road into the area proposed to be developed.
- A review of the topographic map shows that the site generally slopes from the front to the back (towards the north east) and has a creek along the northern border.
- Site visit and review of the aerial and soil maps show that the site has:
 - An un-occupied two story residential structure on the south side of the tract.
 - A gazebo like structure approximately in the middle of the tract and a pump house structure.
 - A retaining wall, approximately 10-ft in height, behind the gazebo like structure.
 - Asphalt pavement from the entrance toward the gazebo like structure
 - Fill across the site up to the existing retaining wall.
 - Fill, dark brown clays, and hard stratum (marl to limestone)

Fill Evaluation

- Sixteen test pits were excavated within the proposed lot locations
- The pits were excavated to the bottom of the fill and into the natural material
- The pits were excavated to approximate depths of 4 to 8 feet below the existing grades.
- Approximate test pit locations and the observed fill depths are presented in Table No. 1

Pit No.	Fill Depth (feet)	Comments
1	3	-
2	5	-
3	5	-
4	3	-
5	5	-
6	4	-
7	5	Debris found
8	4	Debris found
9	5	Debris found
10	2	-
11	3.5	-
12	3	-
13	4	-
14	5	Debris found
15	6	Debris found
16	5	Debris found

- Fill was encountered in all the 16 test pits. Fill was encountered to approximate depths of 2 to 6 feet in the test pits. Fill depths can vary across the site (such as deeper fills next to the retaining wall).
- It is our understanding that fill compaction tests were not performed at the time of fill placement.
- Based on visual observation most of the material in the test pits appear to be usable. Additional tests will be necessary. Fill material encountered that are acceptable may be re-used. Acceptable material will need to be re-compacted.
- The deepest fills were found adjacent to the retaining wall.

- We anticipate the fill along the retaining wall to be reprocessed (removed, deleterious material screened, and hauled off)
- Historical aerial maps show a prior structure underneath or in the vicinity of the gazebo like structure. Additional investigation is needed in this area.
- Based on the fill and the hard surface encountered during test pit excavation and the soil maps, we anticipate a Potential Vertical Movement on the order of 2 to 4 inches in the proposed lot locations.

We appreciate and wish to thank you for the opportunity to be of service to you on this project. If we can be of additional assistance or answer any questions, please call us.

Respectfully Submitted,

InTEC of San Antonio, L.P.



INTEC OF SAN ANTONIO
F-7623

Murali Subramaniam, Ph.D., P.E.

E.A. "Paul" Palaniappan, Ph.D., P.E.
CHIEF ENGINEER

Copies Submitted: Above (1)

Illustration Section

Fill Evaluation
Vance Jackson Tract
NW of Callaghan and Vance Jackson
San Antonio, Texas

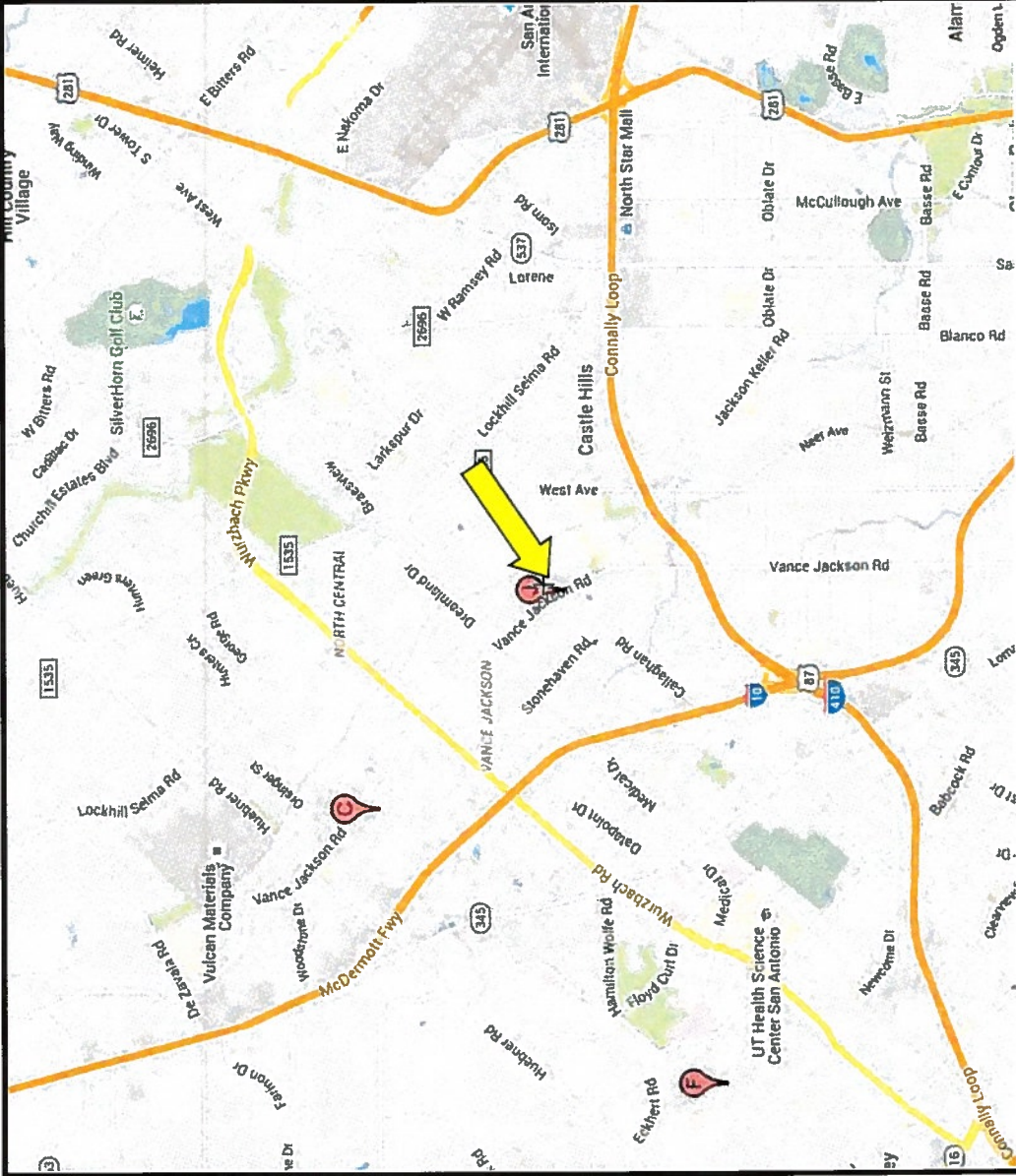
InTEC Project Number:
S151246

Date:
07/27/2015

Integrated Testing and Engineering Company of San Antonio, L.P.

Plate No.

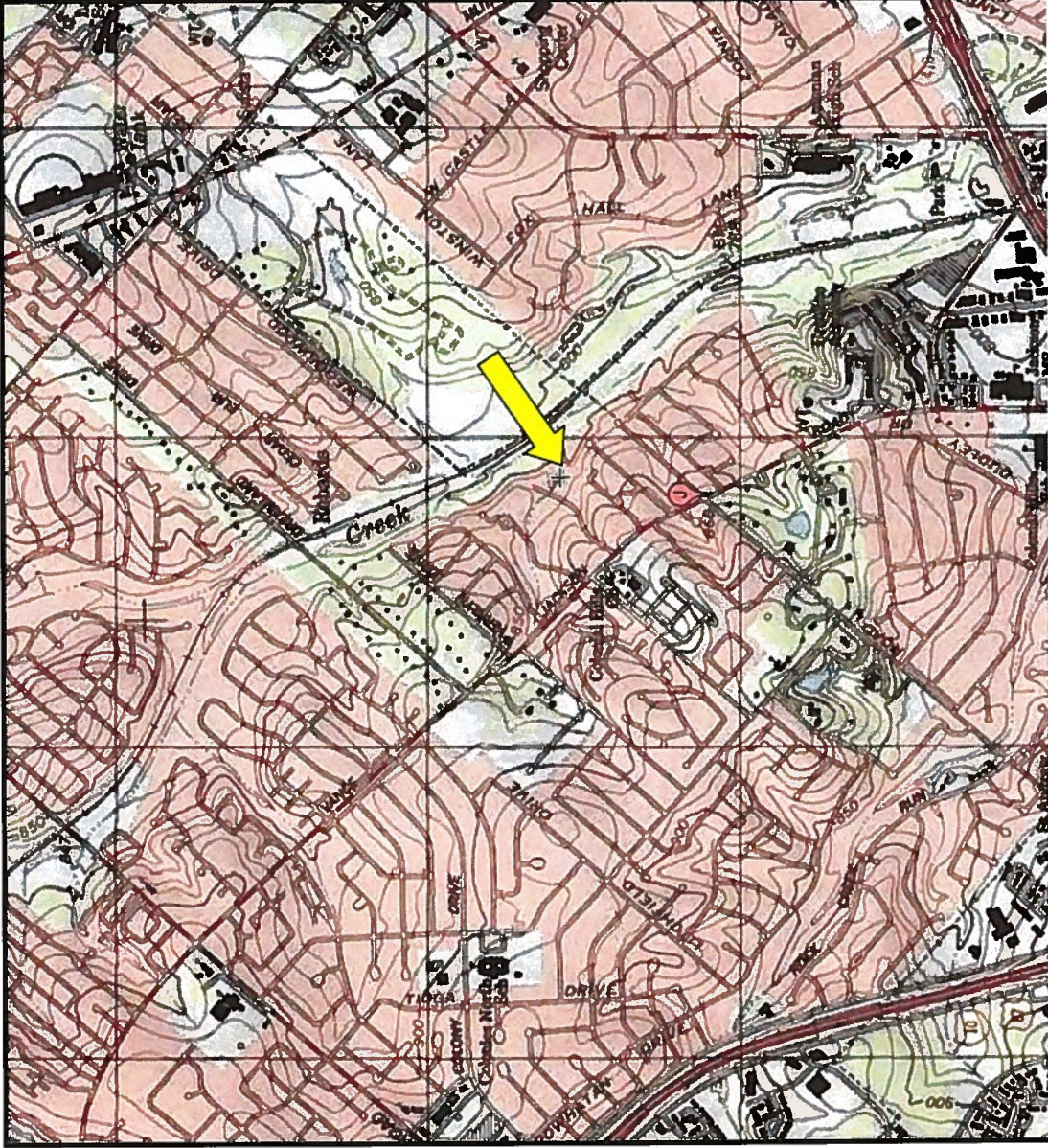
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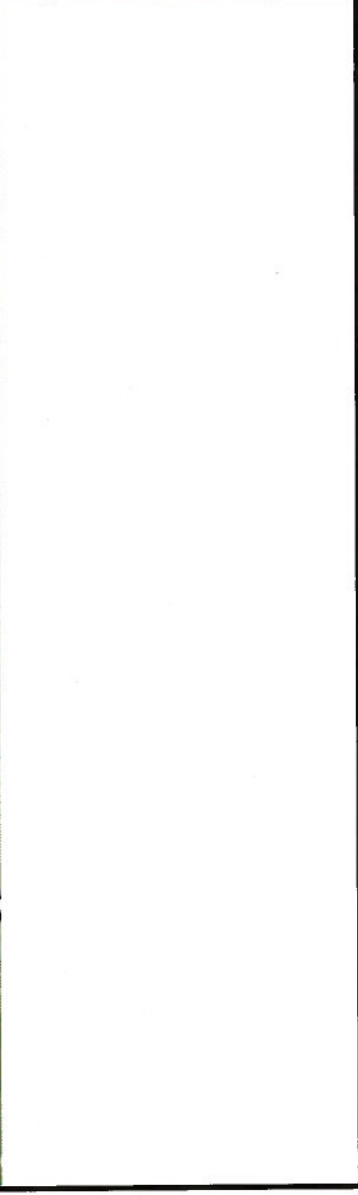
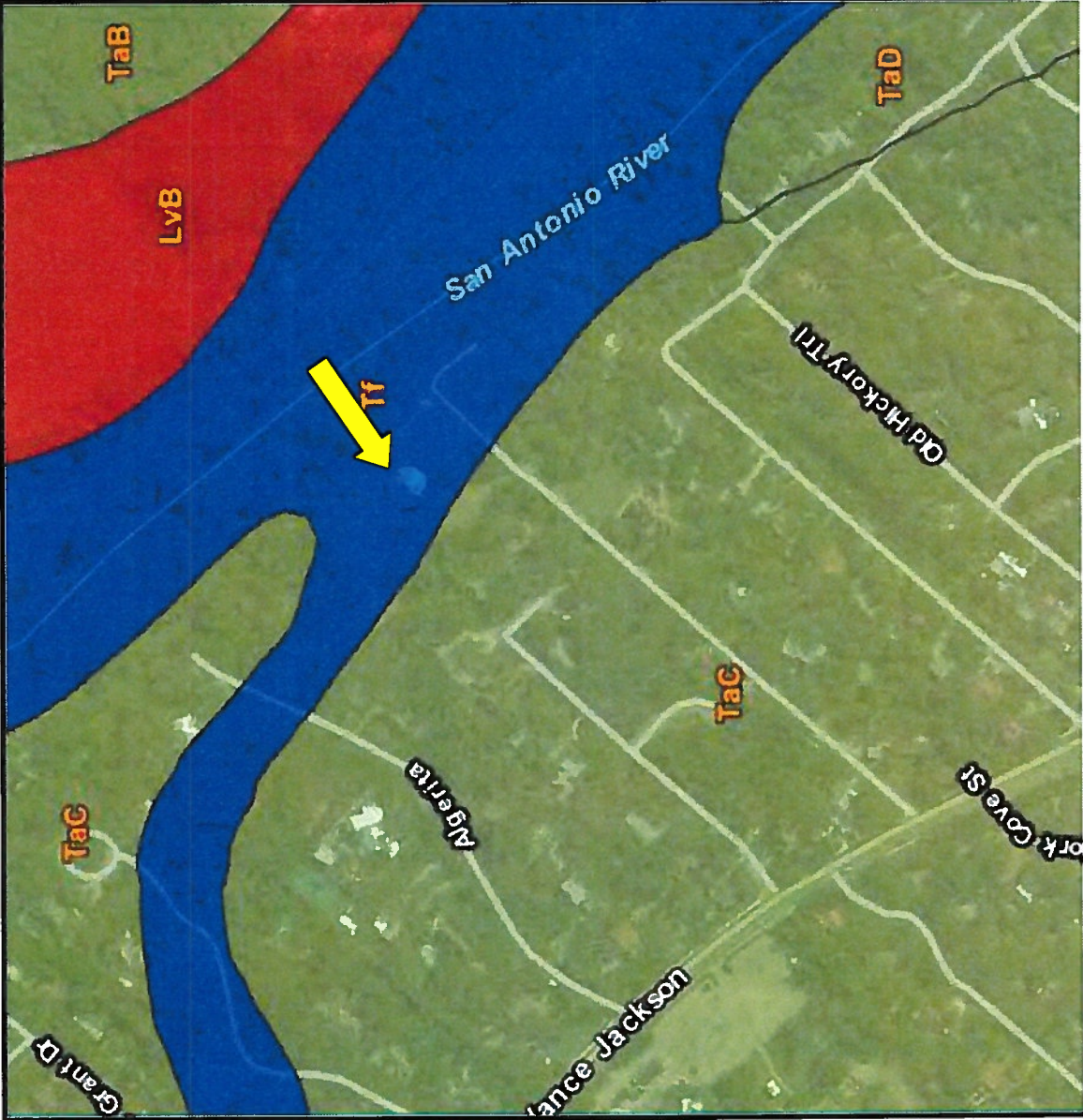
Vicinity Map	
Fill Evaluation Vance Jackson Tract NW of Callaghan and Vance Jackson San Antonio, Texas	InTEC Project Number: S151246
	Date: 07/27/2015



Fill Evaluation Vance Jackson Tract NW of Callaghan and Vance Jackson San Antonio, Texas		Aerial Map—Approximate Location	
		InTEC Project Number: S151246	Date: 07/27/2015



Fill Evaluation Vance Jackson Tract NW of Callaghan and Vance Jackson San Antonio, Texas	Topographic Map—Approximate Location	
	InTEC Project Number: S151246	Date: 07/27/2015



Fill Evaluation Vance Jackson Tract NW of Callaghan and Vance Jackson San Antonio, Texas	Soil Map—Approximate Location	
	InTEC Project Number: S151246	Date: 07/27/2015

Engineering Properties—Bexar County, Texas														
Map unit symbol and soil name	Pct. of map unit soil	Hydrologic group	Depth	USDA texture	Classification	Fragments		Percentage passing sieve number—				Liquid limit	Plasticity index	
						Unified	AASHTO	>10 inches	3-10 inches	4	10			40
			In				Pct	Pct				Pct		
TaC—Eckrant cobbly clay, 5 to 15 percent slopes														
Eckrant	100 D		0-10	Cobbly clay	CH, CL	A-7.6	0-13-25	10-30-50	75-88-100	71-88-100	70-94-98	65-80-94	47-80-73	25-35-45
			10-18	Very cobbly clay, very silty clay, extremely silty clay loam	CH, CL, GC, SC	A-7.6	0-38-75	15-45-75	55-71-85	50-85-70	46-60-75	44-59-74	47-80-73	25-35-45
			18-25	Bedrock	—	—	—	—	—	—	—	—	—	—
TaD—Eckrant-Rock outcrop complex, 15 to 80 percent slopes														
Eckrant	75 D		0-10	Cobbly clay	CH, CL	A-7.6	0-13-25	10-30-50	75-88-100	71-88-100	70-94-98	65-80-94	47-80-73	25-35-45
			10-18	Very cobbly clay, very silty clay, extremely silty clay	CH, CL, GC, SC	A-7.6	0-35-75	15-45-75	56-71-85	50-85-70	46-60-75	44-59-74	47-80-73	25-35-45
			18-25	Bedrock	—	—	—	—	—	—	—	—	—	—
Rock outcrop	17 D		0-80	Bedrock	—	—	—	—	—	—	—	—	—	—

Engineering Properties—Bexar County, Texas														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification	Fragments		Percentage passing sieve number—					Liquid limit	Plasticity index
						Unified	AASHTO	>10 inches	3-10 inches	4	10	40		
			In				Pct	Pct					Pct	
Tt—Tinn and Frio soils, 0 to 1 percent slopes, frequently flooded														
Tinn	60 D		0-8	Clay	CH, CL	A-7-6	0-0-0	0-0-0	95-98-100	95-98-100	85-93-100	80-90-100	45-80-75	25-40-54
			8-65	Clay, silty clay	CH	A-7-6	0-0-0	0-0-0	95-98-100	90-95-100	80-90-100	80-90-100	55-85-75	35-45-54
			65-80	Clay, silty clay	CH	A-7-6	0-0-0	0-0-0	95-98-100	90-95-100	80-90-100	80-90-100	55-85-75	35-45-54
Frio	30 C		0-30	Silty clay loam	CH, CL	A-8, A-7-6	0-0-0	0-1-2	90-95-100	85-93-100	85-93-100	80-95-100	35-48-50	17-28-34
			30-80	Silty clay, silty clay loam, clay loam	CH, CL	A-8, A-7-6	0-0-0	0-1-2	90-95-100	85-93-100	85-93-100	80-95-100	35-48-50	17-28-34
			80-80	Silty clay, silty clay loam, clay loam	CH, CL	A-8, A-7-6	0-0-0	0-3-5	90-95-100	85-93-100	85-93-100	80-94-100	35-48-50	17-28-34

Fill Evaluation Vance Jackson Tract NW of Callaghan and Vance Jackson San Antonio, Texas	Soil Map—Description	
	InTEC Project Number: S151246	Date: 07/27/2015



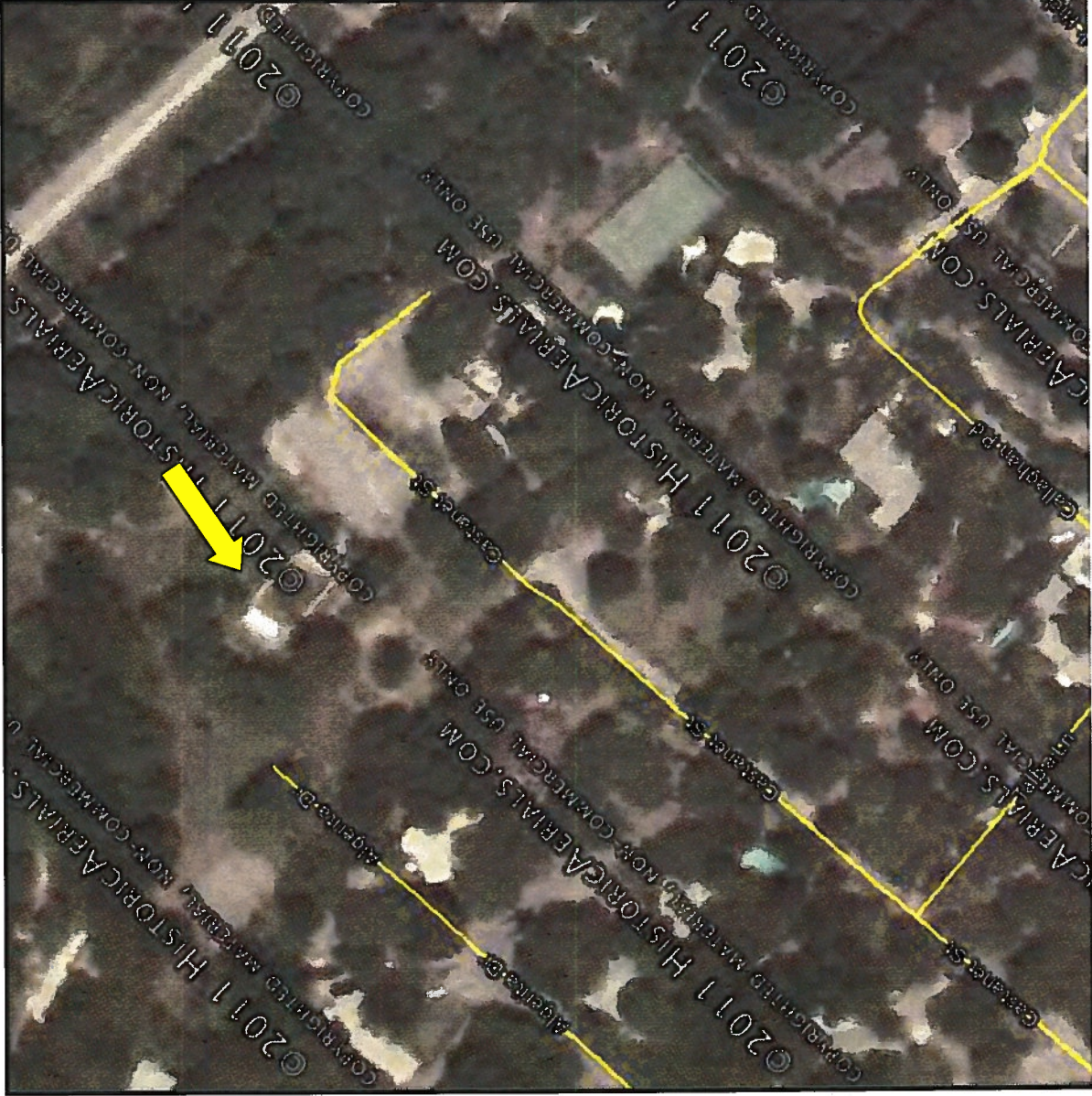
Fill Evaluation Vance Jackson Tract NW of Callaghan and Vance Jackson San Antonio, Texas	Approximate Boring Locations	
	InTEC Project Number: S151246	Date: 07/27/2015

Integrated Testing and Engineering Company of San Antonio, L.P.



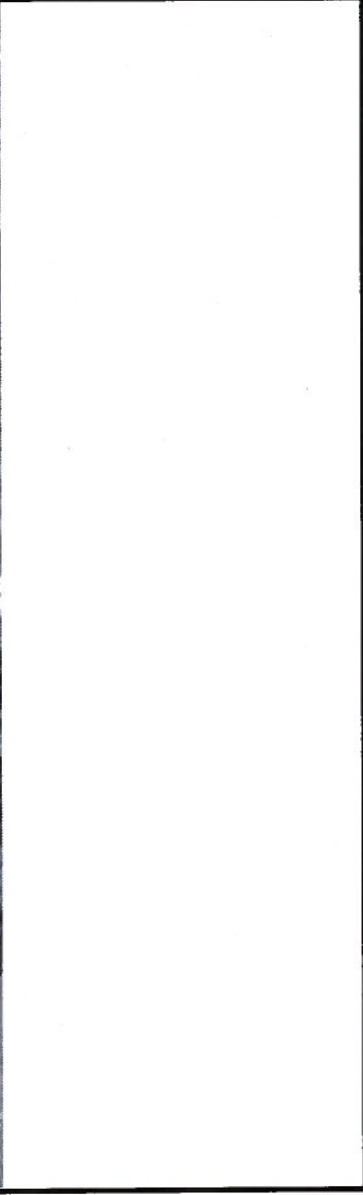
~ 1973 aerial

Fill Evaluation Vance Jackson Tract NW of Callaghan and Vance Jackson San Antonio, Texas	Aerial Map—Approximate Location	
	InTEC Project Number: S151246	Date: 07/27/2015

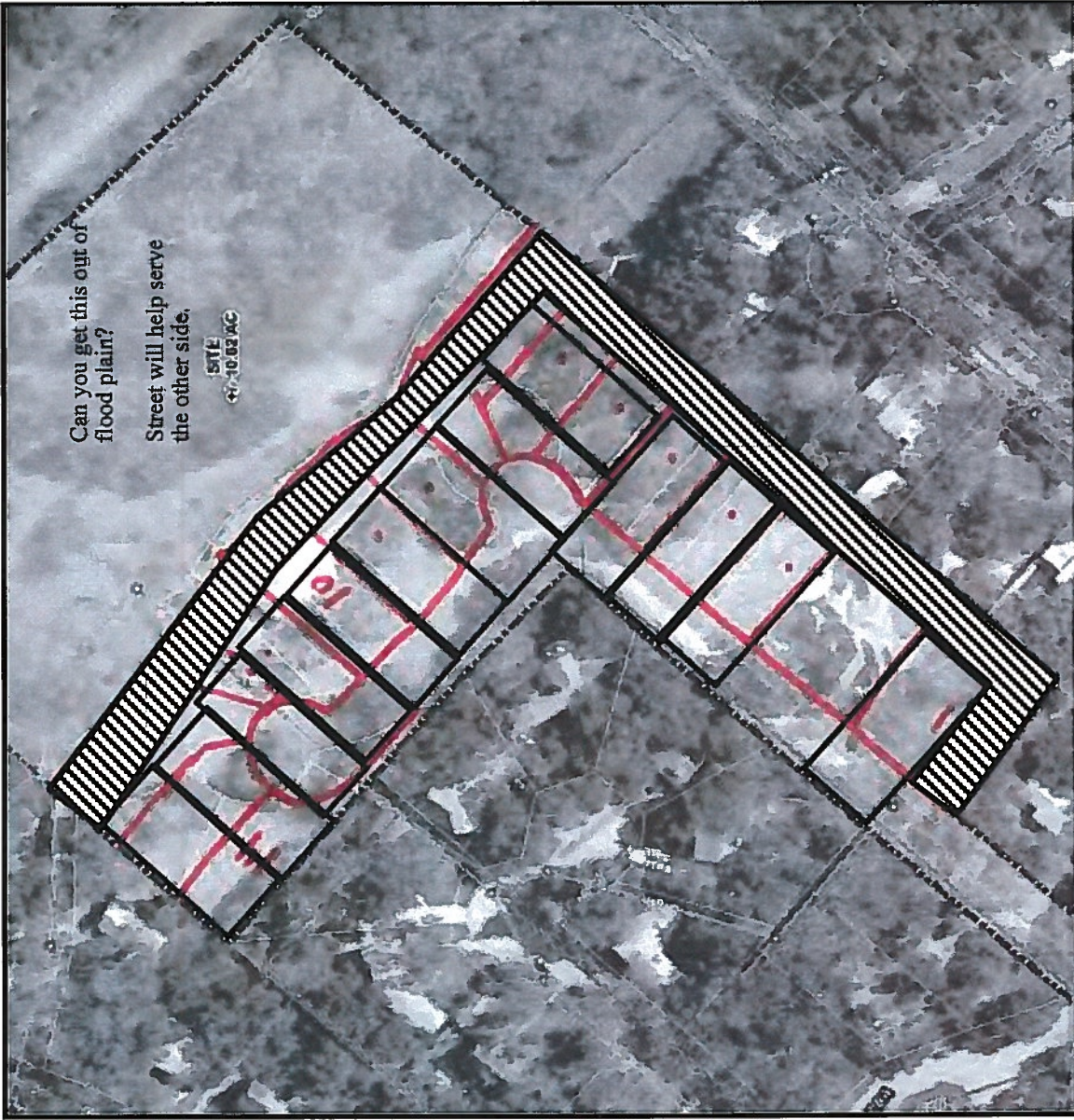


~ 1986 aerial

Aerial Map—Approximate Location		
Fill Evaluation Vance Jackson Tract NW of Callaghan and Vance Jackson San Antonio, Texas	InTEC Project Number: S151246	
	Date: 07/27/2015	



Fill Evaluation Vance Jackson Tract NW of Callaghan and Vance Jackson San Antonio, Texas		Proposed Plat	
		InTEC Project Number: S151246	Date: 07/27/2015



Less fill on the insides
Concrete pavement
can reduce site work

Fill Evaluation Vance Jackson Tract NW of Callaghan and Vance Jackson San Antonio, Texas		InTEC Project Number: S151246	Date: 07/27/2015
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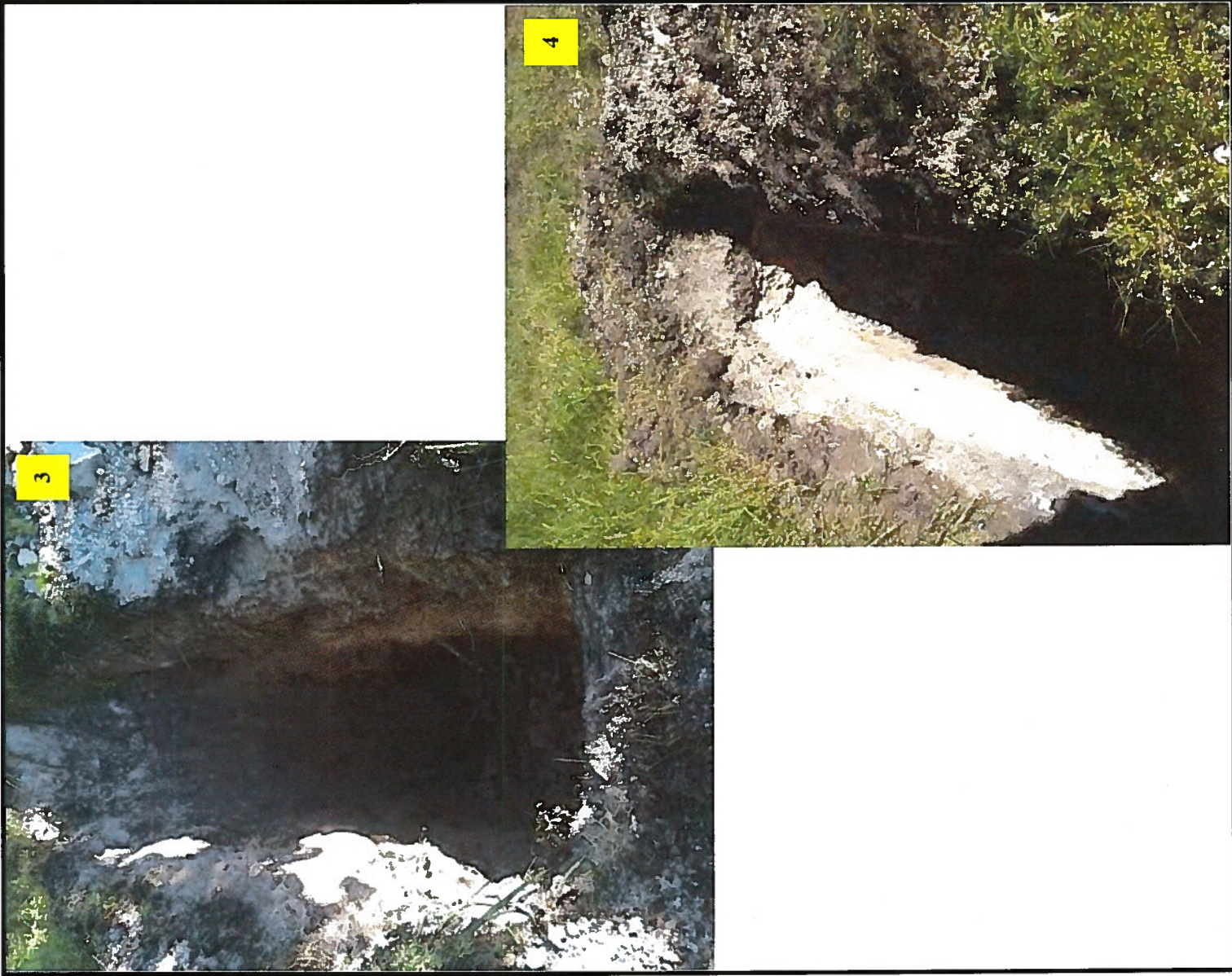
Pit Numbers:

1-3ft = Pit 1, 3 feet of fill

7-5ft* = Pit 7, 5 feet of fill with some undesirable fill material

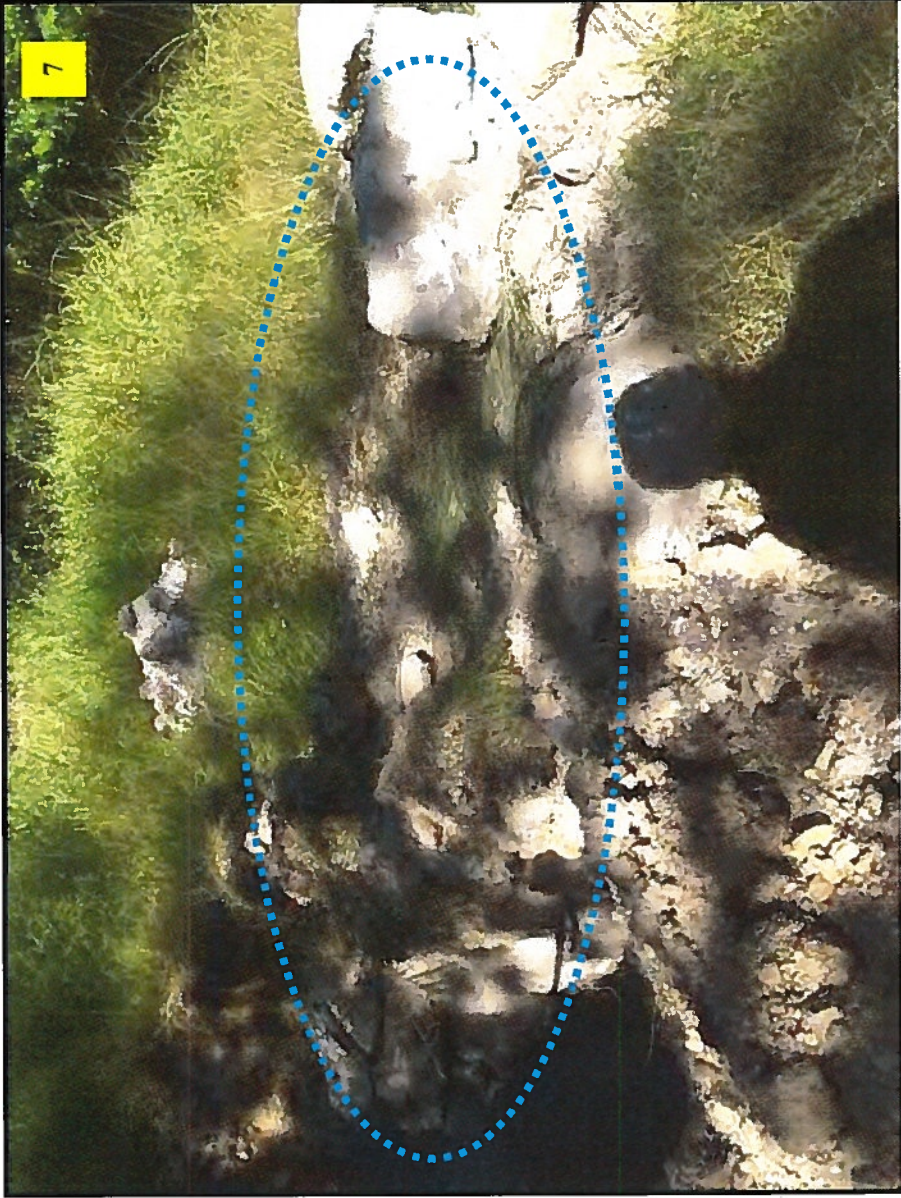
Fill Evaluation Vance Jackson Tract NW of Callaghan and Vance Jackson San Antonio, Texas	Approximate Test Pit Locations	
	InTEC Project Number: S151246	Date: 07/27/2015

 		Pit Photos	
Fill Evaluation Vance Jackson Tract NW of Callaghan and Vance Jackson San Antonio, Texas		InTEC Project Number: S151246	Date: 07/27/2015



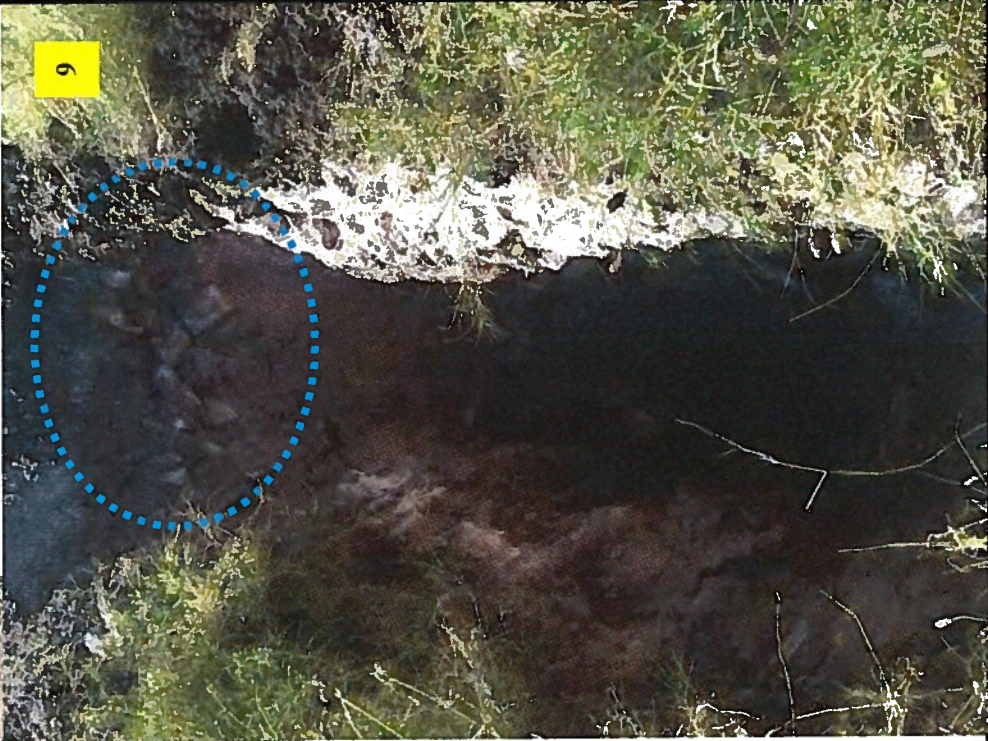
Fill Evaluation Vance Jackson Tract NW of Callaghan and Vance Jackson San Antonio, Texas		Pit Photos	
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Fill Evaluation Vance Jackson Tract NW of Callaghan and Vance Jackson San Antonio, Texas		Pit Photos	
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Undesirable fill material

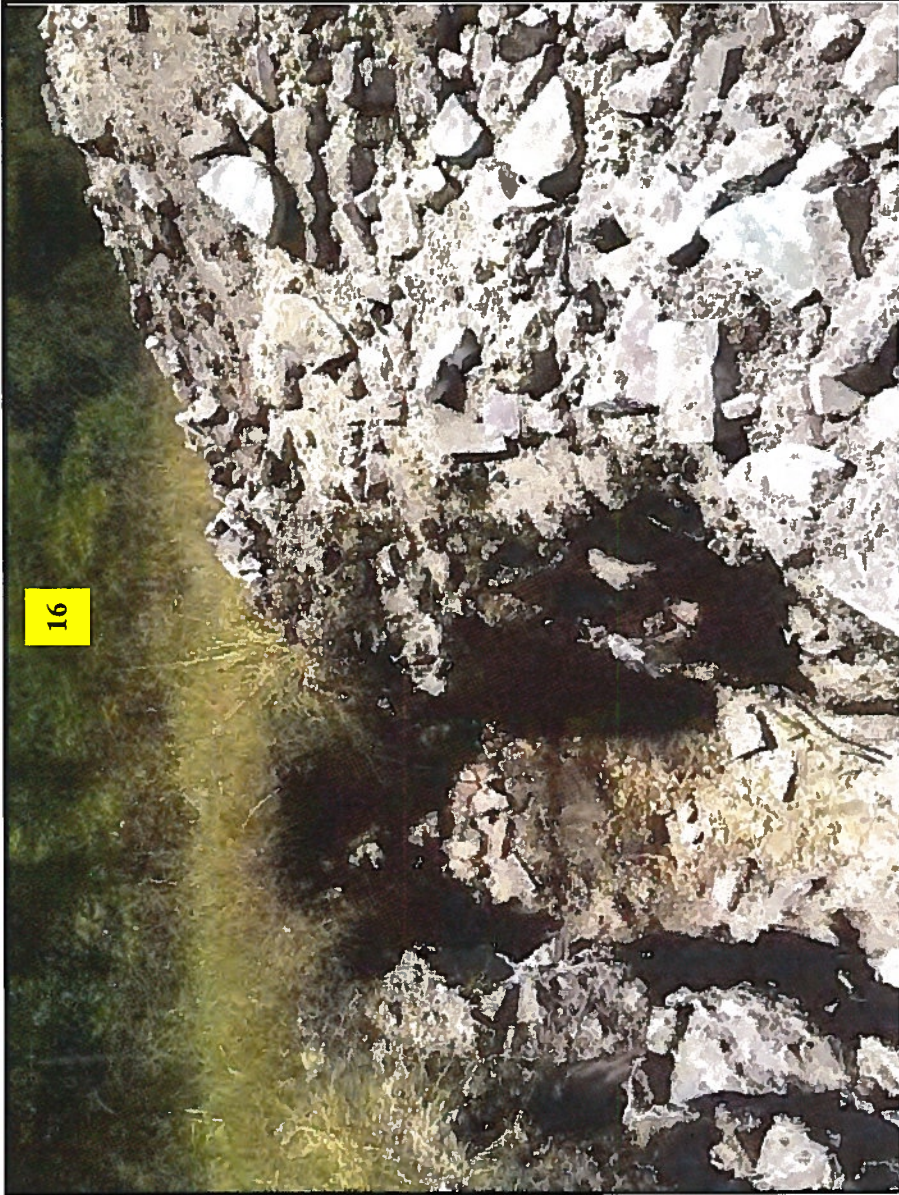
Fill Evaluation Vance Jackson Tract NW of Callegahan and Vance Jackson San Antonio, Texas		Pit Photos	
		InTEC Project Number: S151246	Date: 07/27/2015

		bricks		
Fill Evaluation Vance Jackson Tract NW of Callaghan and Vance Jackson San Antonio, Texas		Pit Photos		
InTEC Project Number: S151246		Date: 07/27/2015		

 10	 11					
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Fill Evaluation Vance Jackson Tract NW of Callaghan and Vance Jackson San Antonio, Texas	Pit Photos					
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Fill Evaluation Vance Jackson Tract NW of Callegahan and Vance Jackson San Antonio, Texas	Pit Photos	
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 14	 15	bricks
Pit Photos		
Fill Evaluation Vance Jackson Tract NW of Callaghan and Vance Jackson San Antonio, Texas		InTEC Project Number: S151246
		Date: 07/27/2015



bricks

Fill Evaluation Vance Jackson Tract NW of Callaghan and Vance Jackson San Antonio, Texas	Pit Photos	
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