



Michael Baker International 1121 Main Street Barstow, San Bernardino County, California



Figure 2

Boring Location Map



Project No. 2195-CR

APPENDIX A

LOGS OF EXPLORATORY BORINGS

Parking Lot Improvements Barstow, California Project No. 2195-CR



A - FIELD TESTING AND SAMPLING PROCEDURES

The Modified Split-Barrel Sampler (Ring)

The Ring sampler is driven into the ground in accordance with ASTM Test Method D 3550. The sampler, with an external diameter of 3.0 inches, is lined with 1-inch long, thin brass rings with inside diameters of approximately 2.4 inches. The sampler is typically driven into the ground 12 or 18 inches with a 140-pound hammer free falling from a height of 30 inches. Blow counts are recorded for every 6 inches of penetration as indicated on the log of boring. The samples are removed from the sample barrel in the brass rings, sealed, and transported to the laboratory for testing.

Bulk Samples (Large)

These samples are normally large bags of earth materials over 20 pounds in weight collected from the field by means of hand digging or exploratory cuttings.

Bulk Samples (Small)

These are plastic bag samples which are normally airtight and contain less than 5 pounds in weight of earth materials collected from the field by means of hand digging or exploratory cuttings. These samples are primarily used for determining natural moisture content and classification indices.

B – BORING/TRENCH LOG LEGEND

The following abbreviations and symbols often appear in the classification and description of soil and rock on the logs of borings/trenches:

<u>SOILS</u>

- USCS Unified Soil Classification System
- f-c Fine to coarse
- f-m Fine to medium

<u>GEOLOGIC</u>

- B: Attitudes Bedding: strike/dip
- J: Attitudes Joint: strike/dip

C: Contact line

- Dashed line denotes USCS material change
- ------ Solid Line denotes unit / formational change
- Thick solid line denotes end of boring/trench

(Additional denotations and symbols are provided on the log of borings/trenches)



CLIE	IENT: Michael Baker International			International	DRILLER:	ED BY:	DBY: DRW				
PROJ	ECT N	AME:		Bars	tow	DRILL METHOD:	8" Hollow Stem	OPER	ATOR:		Jorge
PROJ	ECT N	O .:		2195	-CR	HAMMER:	Auto 140#/30"	RIG	TYPE:		CME 75
LOCA	ATION	l:	S	ee Boring L	ocation Map				DATE:		8/9/2019
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CLIE	CLIENT:		М	ichael Baker	International	DRILLER:	2R Drilling	LOGG	ED BY:		DRW
PROJ	ECT N	AME:		Bars	tow	DRILL METHOD:	8" Hollow Stem	OPER	ATOR:		Jorge
PROJ	ECT N	I O .:		2195	-CR	HAMMER:	Auto 140#/30"	RIG	TYPE:		CME 75
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CLIE	NT:		М	ichael Baker	International	DRILLER:	2R Drilling	LOGGED BY:	DRW
PROJ	ECT N	IAME:		Bars	tow	DRILL METHOD:	8" Hollow Stem	OPERATOR:	Jorge
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CLIE				ichael Baker	International	DRILLER:	2R Drilling	LOGGED BY:	DRW		
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В	Lab t	esting:		AL = Atter	perg Limits El = Expan	sion Index	SA = Sieve Analysis	RV	 K-Value Te Maximum 	2st Denoite	
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APPENDIX B

LABORATORY TEST RESULTS

Parking Lot Improvements Barstow, California Project No. 2195-CR



SUMMARY OF LABORATORY TESTING

Classification

Soils were classified visually in general accordance to the Unified Soil Classification System (ASTM Test Method D 2487). The soil classifications are shown on the boring logs in Appendix A.

Expansion Index

The expansion potential of the soils was determined by performing expansion index testing on one sample in general accordance with ASTM D 4829. The results of the testing are provided below.

Boring No.	Depth (ft.)	Soil Type	Expansion Index	Classification
B-I	0-5	Silty Sand	0	Very Low

In-Situ Moisture and Density

The natural water content was determined (ASTM D 2216) on samples of the materials recovered from the subsurface exploration. In addition, in-place dry density determinations (ASTM D 2937) were performed on relatively undisturbed samples to measure the unit weight of the subsurface soils. Results of these tests are shown on the logs at the appropriate sample depths in Appendix A.

R-Value

Laboratory testing was performed by others in general accordance with Caltrans Test Method CT 301. The results of the testing are presented in Appendix B.

Sulfate Content, Resistivity and Chloride Content

Laboratory testing was performed by others in general accordance with ASTM procedures. The testing included pH and water-soluble sulfate content determinations, and resistivity and chloride content testing. The results of the testing are provided below and in Appendix B.

Boring No.	Depth (ft.)	pH ASTM G 51	Chloride ASTM D 512B	Sulfate ASTM D 516	Resistivity ASTM G 187	
			(ppm)	(% by weight)	(ohm-cm)	
B-I	0 - 5	9.12	5.7	0.0016	4,690	



ANALYSISDESIGN



 SOILS, ASPHALT TECHNOLOGY

August 16, 2019

Ms. Anna Scott GeoTek Inc.

1548 North Maple Street Corona, California 92880

Project No. 45233

Attention Ms. Scott:

Laboratory testing of the bulk soil sample delivered to our laboratory on 8/13/2019 has been completed.

Reference:W.O. # 2195-CR3Project:Michael Baker International, 1121 Main Street, BarstowSample:B-1 @ 0'-5'

Data sheets are transmitted herewith for your use and information. Any untested portion of the samples will be retained for a period of sixty (60) days prior to disposal. The opportunity to be of service is appreciated, and should you have any questions, kindly call.





R-VALUE DATA SHEET

PROJECT No.	45233
DATE:	8/16/2019

BORING NO. B-1 @ 0'-5' Michael Baker International, 1121 Main St., Barstow W.O.# 2195-CR3

SAMPLE DESCRIPTION: Brown Silty Sand

R-VALUE TESTING DATA CA TEST 301										
	SPECIMEN ID									
	а	b	С							
Mold ID Number	10	11	12							
Water added, grams	72	80	65							
Initial Test Water, %	8.9	9.7	8.3							
Compact Gage Pressure,psi	350	350	350							
Exudation Pressure, psi	347	150	668							
Height Sample, Inches	2.57	2.61	2.57							
Gross Weight Mold, grams	3099	3118	3099							
Tare Weight Mold, grams	1946	1951	1946							
Sample Wet Weight, grams	1153	1167	1153							
Expansion, Inches x 10exp-4	5	4	6							
Stability 2,000 lbs (160psi)	16 / 28	19 / 35	13 / 23							
Turns Displacement	4.15	4.55	3.97							
R-Value Uncorrected	74	66	79							
R-Value Corrected	75	68	80							
Dry Density, pcf	124.8	123.5	125.6							

DESIGN CALCULATION DATA

Traffic Index	Assumed:	4.0	4.0	4.0
G.E. by Stability		0.26	0.33	0.20
G. E. by Expansion		0.17	0.13	0.20

		73	Examined & Checked:	8 /16/ 19
Equilib	rium R-Value	by		
		EXUDATION		
	Gf = 2.9% Retained o	1.25 n the	ES PROFESSIONAL ES SUBAR MARIE	
REMARKS:	3/4" Sieve.		Steen X Marvin, RCE	

The data above is based upon processing and testing samples as received from the field. Test procedures in accordance with latest revisions to Department of Transportation, State of California, Materials & Research Test Method No. 301.

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Page 2

Soil Analysis Lab Results

Client: GeoTek, Inc. Job Name: 1121 Main St., Barstow Client Job Number: 2195-CR Project X Job Number: S190813B August 15, 2019

	Method	fethod ASTM		AST	ſM	ASTM		ASTM	ASTM	SM 4500-	ASTM	ASTM	ASTM	ASTM	ASTM	ASTM	ASTM	ASTM	ASTM	SM-2320B
		D43	27	D43	27	G1	87	G51	G200	S2-D	D4327	D4327	D4327	D4327	D4327	D4327	D4327	D4327	D4327	
Bore# / Description	Depth	Sulfa	ates	Chlor	rides	Resis	tivity	pН	Redox	Sulfide	Nitrate	Ammonium	Lithium	Sodium	Potassium	Magnesium	Calcium	Flouride	Phosphate	Bicarbonate
		SO4 ²⁻		CI	l7	As Rec'd	Minimum			S ²⁻	NO ₃ ⁻	$\mathrm{NH_4}^+$	Li ⁺	Na ⁺	K ⁺	Mg ²⁺	Ca ²⁺	F2	PO4 ³⁻	HCO3
	(ft)	(mg/kg)	(wt%)	(mg/kg)	(wt%)	(Ohm-cm)	(Ohm-cm)		(mV)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
B-1	0.0-5.0	15.5	0.0016	5.7	0.0006	29,480	4,690	9.12	129	0.8	23.8	0.6	ND	31.5	22.2	7.8	144.1	0.9	ND	650.0

Cations and Anions, except Sulfide and Bicarbonate, tested with Ion Chromatography mg/kg = milligrams per kilogram (parts per million) of dry soil weight

ND = 0 = Not Detected | NT = Not Tested | Unk = Unknown

Chemical Analysis performed on 1:3 Soil-To-Water extract

APPENDIX C

INFILTRATION TEST DATA

Parking Lot Improvements Barstow, California Project No. 2195-CR



PERCOLATION DATA SHEET

Project: 1121 MAIN STREE	T, BAR	STOW	Job No: 2195- CR
Test Hole No.: I-/	_Tested By: _	DVG	Date: 8/13/2019
Depth of Hole As Drilled: 48	Before Test:	48	After Test: 48

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		-				_		_		_		-	(inches)	PRE	WATE	ER 10 GAL	2
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			119		10						12		12	150	10	MIN	
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		1	131		10						12 1/4		11 3/4	2ND	10	MIN	
_		14	133	_		. _	48	. _	24	. _		_					
		17	43		10						12 1/4		11 3/4	3RD	10	MIN.	-
		14	<u>45</u>			_	48	_	24	_		_					
		1	55		10						12 1/2		11 1/2	4+++	10	MIN.	
		1/	57			_	48	_	24	_		_		-			1
		20	07		10						12 1/2		11/2	5 TH	10	MIN.	
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		21	19		10						12 3/4		11 1/4	6TH	10	MIN	
			_ -	5-0- 													1

PERCOLATION DATA SHEET

Project: 1121 MAIN STR	EET, BARSTO	ow	Job No.:	2195-CR
Test Hole No.: Z-2	Tested By:	DVG	Date:	8/13/2019
Depth of Hole As Drilled: 30	60 Before Test:	360	After Test:	360"

Reading No.	Time	Time Interval (Min)	Total Depth of Hole (Inches)	Initial Water Level (Inches)	Final Water Level (Inches)	∆ In Water Level (Inches)	Comments
							PREWATER 10 GAL
	1046		360	60			BEGIN
	1106	20			48	12	IST 25 MIN.
	1108		360	60			
	1128	20			48	12	2ND 25 MIN.
	1130		360	60			
	1140	10			521/4	7 3/4	IST 10 MIN.
	<u>114-</u> 2		360	60			
	115Z	10			521/2	71/2	2ND IO MIN.
	1154		360	60			
	1204	10			521/2	71/2	3RD 10 MIN
	1206		360	60			
	1216	10			52 1/z	71/2	4TH 10 MIN.
	1218		360	60			
	1228	10			521/2	71/2	5TH 10 MIN.
	1230		360	60			
	1240	10			523/4	71/4	6TH 10 MIN.

Client:	Michael Baker International
Project:	Barstow
Project No:	2195-CR
Date:	8/14/2019

Boring No.

1-1

Percolation Rate (Porchet Method)

10
59.25
4
24
48

Equation -	$I_t =$	∆H (60r)
		$\Delta t (r+2H_{avg})$
$H_O = D_T - D_O =$		24
$H_F = D_T - D_F =$		-11.25
$\Delta H = \Delta D = H_{O} - H$	_F =	35.25
$Havg = (H_O + H_F)/2$. =	6.375

I _t =	50.51	Inches per Hour

_



Client:	Michael Baker International
Project:	Barstow
Project No:	2195-CR
Date:	8/14/2019

Boring No.

I-2

Percolation Rate (Porchet Method)

Time Interval, Δt =	10
Final Depth to Water, D _F =	307.25
Test Hole Radius, r =	4
Initial Depth to Water, D _O =	300
Total Test Hole Depth, $D_T =$	360

Equation -	$I_t =$	∆H (60r)
		$\Delta t (r+2H_{avg})$
H _o = D _T - D _o =		60
$H_F = D_T - D_F =$		52.75
$\Delta H = \Delta D = H_{O} - H_{F}$	=	7.25
$Havg = (H_O + H_F)/2$	=	56.375

I _t =	1.49	Inches per Hour
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APPENDIX D

GENERAL GRADING GUIDELINES

Parking Lot Improvements Barstow, California Project No. 2195-CR



GENERAL GRADING GUIDELINES

Guidelines presented herein are intended to address general construction procedures for earthwork construction. Specific situations and conditions often arise which cannot reasonably be discussed in general guidelines, when anticipated these are discussed in the text of the report. Often unanticipated conditions are encountered which may necessitate modification or changes to these guidelines. It is our hope that these will assist the contractor to more efficiently complete the project by providing a reasonable understanding of the procedures that would be expected during earthwork and the testing and observation used to evaluate those procedures.

General

Grading should be performed to at least the minimum requirements of governing agencies, Chapters 18 and 33 of the Uniform Building Code, CBC (2016) and the guidelines presented below.

Preconstruction Meeting

A preconstruction meeting should be held prior to site earthwork. Any questions the contractor has regarding our recommendations, general site conditions, apparent discrepancies between reported and actual conditions and/or differences in procedures the contractor intends to use should be brought up at that meeting. The contractor (including the main onsite representative) should review our report and these guidelines in advance of the meeting. Any comments the contractor may have regarding these guidelines should be brought up at that meeting.

Grading Observation and Testing

- I. Observation of the fill placement should be provided by our representative during grading. Verbal communication during the course of each day will be used to inform the contractor of test results. The contractor should receive a copy of the "Daily Field Report" indicating results of field density tests that day. If our representative does not provide the contractor with these reports, our office should be notified.
- 2. Testing and observation procedures are, by their nature, specific to the work or area observed and location of the tests taken, variability may occur in other locations. The contractor is responsible for the uniformity of the grading operations; our observations and test results are intended to evaluate the contractor's overall level of efforts during grading. The contractor's personnel are the only individuals participating in all aspect of site work. Compaction testing and observation should not be considered as relieving the contractor's responsibility to properly compact the fill.
- 3. Cleanouts, processed ground to receive fill, key excavations, and subdrains should be observed by our representative prior to placing any fill. It will be the contractor's responsibility to notify our representative or office when such areas are ready for observation.
- 4. Density tests may be made on the surface material to receive fill, as considered warranted by this firm.
- 5. In general, density tests would be made at maximum intervals of two feet of fill height or every 1,000 cubic yards of fill placed. Criteria will vary depending on soil conditions and size of the fill. More frequent testing may be performed. In any case, an adequate number of field density tests should be made to evaluate the required compaction and moisture content is generally being obtained.



- 6. Laboratory testing to support field test procedures will be performed, as considered warranted, based on conditions encountered (e.g. change of material sources, types, etc.) Every effort will be made to process samples in the laboratory as quickly as possible and in progress construction projects are our first priority. However, laboratory workloads may cause in delays and some soils may require a minimum of 48 to 72 hours to complete test procedures. Whenever possible, our representative(s) should be informed in advance of operational changes that might result in different source areas for materials.
- 7. Procedures for testing of fill slopes are as follows:
 - a) Density tests should be taken periodically during grading on the flat surface of the fill, three to five feet horizontally from the face of the slope.
 - b) If a method other than over building and cutting back to the compacted core is to be employed, slope compaction testing during construction should include testing the outer six inches to three feet in the slope face to determine if the required compaction is being achieved.
- 8. Finish grade testing of slopes and pad surfaces should be performed after construction is complete.

Site Clearing

- 1. All vegetation, and other deleterious materials, should be removed from the site. If material is not immediately removed from the site it should be stockpiled in a designated area(s) well outside of all current work areas and delineated with flagging or other means. Site clearing should be performed in advance of any grading in a specific area.
- 2. Efforts should be made by the contractor to remove all organic or other deleterious material from the fill, as even the most diligent efforts may result in the incorporation of some materials. This is especially important when grading is occurring near the natural grade. All equipment operators should be aware of these efforts. Laborers may be required as root pickers.
- 3. Nonorganic debris or concrete may be placed in deeper fill areas provided the procedures used are observed and found acceptable by our representative.

Treatment of Existing Ground

- 1. Following site clearing, all surficial deposits of alluvium and colluvium as well as weathered or creep effected bedrock, should be removed unless otherwise specifically indicated in the text of this report.
- 2. In some cases, removal may be recommended to a specified depth (e.g. flat sites where partial alluvial removals may be sufficient). The contractor should not exceed these depths unless directed otherwise by our representative.
- 3. Groundwater existing in alluvial areas may make excavation difficult. Deeper removals than indicated in the text of the report may be necessary due to saturation during winter months.
- 4. Subsequent to removals, the natural ground should be processed to a depth of six inches, moistened to near optimum moisture conditions and compacted to fill standards.
- 5. Exploratory back hoe or dozer trenches still remaining after site removal should be excavated and filled with compacted fill if they can be located.

Fill Placement

I. Unless otherwise indicated, all site soil and bedrock may be reused for compacted fill; however, some special processing or handling may be required (see text of report).



- 2. Material used in the compacting process should be evenly spread, moisture conditioned, processed, and compacted in thin lifts six (6) to eight (8) inches in compacted thickness to obtain a uniformly dense layer. The fill should be placed and compacted on a nearly horizontal plane, unless otherwise found acceptable by our representative.
- 3. If the moisture content or relative density varies from that recommended by this firm, the contractor should rework the fill until it is in accordance with the following:
 - a) Moisture content of the fill should be at or above optimum moisture. Moisture should be evenly distributed without wet and dry pockets. Pre-watering of cut or removal areas should be considered in addition to watering during fill placement, particularly in clay or dry surficial soils. The ability of the contractor to obtain the proper moisture content will control production rates.
 - b) Each six-inch layer should be compacted to at least 90 percent of the maximum dry density in compliance with the testing method specified by the controlling governmental agency. In most cases, the testing method is ASTM Test Designation D 1557.
- 4. Rock fragments less than eight inches in diameter may be utilized in the fill, provided:
 - a) They are not placed in concentrated pockets;
 - b) There is a sufficient percentage of fine-grained material to surround the rocks;
 - c) The distribution of the rocks is observed by, and acceptable to, our representative.
- 5. Rocks exceeding eight (8) inches in diameter should be taken off site, broken into smaller fragments, or placed in accordance with recommendations of this firm in areas designated suitable for rock disposal. On projects where significant large quantities of oversized materials are anticipated, alternate guidelines for placement may be included. If significant oversize materials are encountered during construction, these guidelines should be requested.
- 6. In clay soil, dry or large chunks or blocks are common. If in excess of eight (8) inches minimum dimension, then they are considered as oversized. Sheepsfoot compactors or other suitable methods should be used to break up blocks. When dry, they should be moisture conditioned to provide a uniform condition with the surrounding fill.

Slope Construction

- 1. The contractor should obtain a minimum relative compaction of 90 percent out to the finished slope face of fill slopes. This may be achieved by either overbuilding the slope and cutting back to the compacted core, or by direct compaction of the slope face with suitable equipment.
- 2. Slopes trimmed to the compacted core should be overbuilt by at least three (3) feet with compaction efforts out to the edge of the false slope. Failure to properly compact the outer edge results in trimming not exposing the compacted core and additional compaction after trimming may be necessary.
- 3. If fill slopes are built "at grade" using direct compaction methods, then the slope construction should be performed so that a constant gradient is maintained throughout construction. Soil should not be "spilled" over the slope face nor should slopes be "pushed out" to obtain grades. Compaction equipment should compact each lift along the immediate top of slope. Slopes should be back rolled or otherwise compacted at approximately every 4 feet vertically as the slope is built.
- 4. Corners and bends in slopes should have special attention during construction as these are the most difficult areas to obtain proper compaction.
- 5. Cut slopes should be cut to the finished surface. Excessive undercutting and smoothing of the face with fill may necessitate stabilization.



UTILITY TRENCH CONSTRUCTION AND BACKFILL

Utility trench excavation and backfill is the contractors responsibility. The geotechnical consultant typically provides periodic observation and testing of these operations. While efforts are made to make sufficient observations and tests to verify that the contractors' methods and procedures are adequate to achieve proper compaction, it is typically impractical to observe all backfill procedures. As such, it is critical that the contractor use consistent backfill procedures.

Compaction methods vary for trench compaction and experience indicates many methods can be successful. However, procedures that "worked" on previous projects may or may not prove effective on a given site. The contractor(s) should outline the procedures proposed, so that we may discuss them **prior** to construction. We will offer comments based on our knowledge of site conditions and experience.

- 1. Utility trench backfill in slopes, structural areas, in streets and beneath flat work or hardscape should be brought to at least optimum moisture and compacted to at least 90 percent of the laboratory standard. Soil should be moisture conditioned prior to placing in the trench.
- 2. Flooding and jetting are not typically recommended or acceptable for native soils. Flooding or jetting may be used with select sand having a Sand Equivalent (SE) of 30 or higher. This is typically limited to the following uses:
 - a) shallow (12 + inches) under slab interior trenches and,
 - b) as bedding in pipe zone.

The water should be allowed to dissipate prior to pouring slabs or completing trench compaction.

- 3. Care should be taken not to place soils at high moisture content within the upper three feet of the trench backfill in street areas, as overly wet soils may impact subgrade preparation. Moisture may be reduced to 2% below optimum moisture in areas to be paved within the upper three feet below sub grade.
- 4. Sand backfill should not be allowed in exterior trenches adjacent to and within an area extending below a 1:1 projection from the outside bottom edge of a footing, unless it is similar to the surrounding soil.
- 5. Trench compaction testing is generally at the discretion of the geotechnical consultant. Testing frequency will be based on trench depth and the contractors procedures. A probing rod would be used to assess the consistency of compaction between tested areas and untested areas. If zones are found that are considered less compact than other areas, this would be brought to the contractors attention.

<u>JOB SAFETY</u>

General

Personnel safety is a primary concern on all job sites. The following summaries are safety considerations for use by all our employees on multi-employer construction sites. On ground personnel are at highest risk of injury and possible fatality on grading construction projects. The company recognizes that construction activities will vary on each site and that job site safety is the contractor's responsibility. However, it is, imperative that all personnel be safety conscious to avoid accidents and potential injury.



In an effort to minimize risks associated with geotechnical testing and observation, the following precautions are to be implemented for the safety of our field personnel on grading and construction projects.

- I. Safety Meetings: Our field personnel are directed to attend the contractor's regularly scheduled safety meetings.
- 2. Safety Vests: Safety vests are provided for and are to be worn by our personnel while on the job site.
- 3. Safety Flags: Safety flags are provided to our field technicians; one is to be affixed to the vehicle when on site, the other is to be placed atop the spoil pile on all test pits.

In the event that the contractor's representative observes any of our personnel not following the above, we request that it be brought to the attention of our office.

Test Pits Location, Orientation and Clearance

The technician is responsible for selecting test pit locations. The primary concern is the technician's safety. However, it is necessary to take sufficient tests at various locations to obtain a representative sampling of the fill. As such, efforts will be made to coordinate locations with the grading contractors authorized representatives (e.g. dump man, operator, supervisor, grade checker, etc.), and to select locations following or behind the established traffic pattern, preferably outside of current traffic. The contractors authorized representative should direct excavation of the pit and safety during the test period. Again, safety is the paramount concern.

Test pits should be excavated so that the spoil pile is placed away from oncoming traffic. The technician's vehicle is to be placed next to the test pit, opposite the spoil pile. This necessitates that the fill be maintained in a drivable condition. Alternatively, the contractor may opt to park a piece of equipment in front of test pits, particularly in small fill areas or those with limited access.

A zone of non-encroachment should be established for all test pits (see diagram below). No grading equipment should enter this zone during the test procedure. The zone should extend outward to the sides approximately 50 feet from the center of the test pit and 100 feet in the direction of traffic flow. This zone is established both for safety and to avoid excessive ground vibration, which typically decreases test results.



TEST PIT SAFETY PLAN



Slope Tests

When taking slope tests, the technician should park their vehicle directly above or below the test location on the slope. The contractor's representative should effectively keep all equipment at a safe operation distance (e.g. 50 feet) away from the slope during testing.

The technician is directed to withdraw from the active portion of the fill as soon as possible following testing. The technician's vehicle should be parked at the perimeter of the fill in a highly visible location.

Trench Safety

It is the contractor's responsibility to provide safe access into trenches where compaction testing is needed. Trenches for all utilities should be excavated in accordance with CAL-OSHA and any other applicable safety standards. Safe conditions will be required to enable compaction testing of the trench backfill.

All utility trench excavations in excess of 5 feet deep, which a person enters, are to be shored or laid back. Trench access should be provided in accordance with OSHA standards. Our personnel are directed not to enter any trench by being lowered or "riding down" on the equipment.

Our personnel are directed not to enter any excavation which;

- I. is 5 feet or deeper unless shored or laid back,
- 2. exit points or ladders are not provided,
- 3. displays any evidence of instability, has any loose rock or other debris which could fall into the trench, or
- 4. displays any other evidence of any unsafe conditions regardless of depth.

If the contractor fails to provide safe access to trenches for compaction testing, our company policy requires that the soil technician withdraws and notifies their supervisor. The contractors representative will then be contacted in an effort to effect a solution. All backfill not tested due to safety concerns or other reasons is subject to reprocessing and/or removal.



Procedures

In the event that the technician's safety is jeopardized or compromised as a result of the contractor's failure to comply with any of the above, the technician is directed to inform both the developer's and contractor's representatives. If the condition is not rectified, the technician is required, by company policy, to immediately withdraw and notify their supervisor. The contractor's representative will then be contacted in an effort to effect a solution. No further testing will be performed until the situation is rectified. Any fill placed in the interim can be considered unacceptable and subject to reprocessing, recompaction or removal.

In the event that the soil technician does not comply with the above or other established safety guidelines, we request that the contractor bring this to technicians attention and notify our project manager or office. Effective communication and coordination between the contractors' representative and the field technician(s) is strongly encouraged in order to implement the above safety program and safety in general.

The safety procedures outlined above should be discussed at the contractor's safety meetings. This will serve to inform and remind equipment operators of these safety procedures particularly the zone of non-encroachment.

The safety procedures outlined above should be discussed at the contractor's safety meetings. This will serve to inform and remind equipment operators of these safety procedures particularly the zone of non-encroachment.





February 23, 2021 Project No. 2195-CR

Michael Baker International

5 Hutton Centre Drive, Suite 500 Santa Ana, California 92707

Attention: Mr. Michael Tylman

Subject: Addendum to Geotechnical and Infiltration Evaluation Proposed Parking Lot Improvements 1121 and 1161 Main Street Barstow, San Bernardino County, California

Reference: See Page 3

Dear Mr. Tylman:

In accordance with your request, GeoTek, Inc. (GeoTek) has prepared this letter as an addendum to our *Geotechnical and Infiltration Evaluation* report (GeoTek, 2019).

It is our understanding that the area of proposed development has been increased to include a portion of the adjacent parcel located at 1161 Main Street since the time of preparation of our referenced report (GeoTek, 2019). Proposed improvements for the new parcel include, but are not necessarily limited to, 40 additional parking spaces, an egress from Main Street, a roadway located to the north of the parcel and storm water facilities to accommodate the Barstow Head Start/Preschool located at 1121 Main Street.

Based on the proposed improvements for the adjacent parcel, the recommendations provided in our referenced report (GeoTek, 2019) remain applicable for the project since site soil conditions are very uniform. A GeoTek representative should observe field conditions during construction. Should you have any questions after reviewing this letter, please feel free to contact our office at your convenience.

Respectfully submitted, **GeoTek, Inc.**





Robert R. Russell CE 2042, Exp. 12/31/22 Senior Project Engineer

Edul H. Lit

Edward H. LaMont CEG 1892, Exp. 7/31/22 Principal Geologist

amatr. Dotto

Anna M. Scott Project Geologist

Distribution: (1) Addressee via email

G:\Projects\2151 to 2200\2195CR Michael Baker International 1121 Main Street Barstow\2195CR Addendum to Geotechnical and Infiltration Evaluation 1211 Main Street.doc



REFERENCE

GeoTek, Inc., 2019, "Geotechnical and Infiltration Evaluation, Proposed Parking Lot Improvements, 1121 Main Street, Barstow, San Bernardino County, California", Project No. 2195-CR, dated August 20.



Attachment D: Maintenance Agreement for BMP to the WQMP

RECORDING REQUESTED BY:

County of San Bernardino Department of Public Works

AND WHEN RECORDED MAIL TO:

County of San Bernardino Department of Public Works 825 E. Third Street, Room 117 San Bernardino, CA 92415-0835

SPACE ABOVE THIS LINE FOR RECORDER'S USE

COVENANT AND AGREEMENT REGARDING WATER QUALITY MANAGEMENT PLAN AND STORMWATER BEST MANAGEMENT PRACTICES TRANSFER, ACCESS AND MAINTENANCE

THIS PAGE ADDED TO PROVIDE ADEQUATE SPACE FOR RECORDING INFORMATION

<u>Covenant and Agreement Regarding Water Quality Management Plan and Stormwater</u> <u>Best Management Practices</u> Transfer, Access and Maintenance

	NAME:	County of San Bernardino					
PROPER	TY ADDRESS:	1161 W Main Street					
		Barstow CA 92311					
APN:	0182-041-37						
THIS AGREEMENT is made		de and entered into in					
		,California, this day	y of				
		, by and between					
		, hereinafter					

referred to as Owner, and the COUNTY OF SAN BERNARDINO, a political subdivision of the State of California, hereinafter referred to as "the County";

WHEREAS, the Owner owns real property ("Property") in the County of San Bernardino, State of California, more specifically described in Exhibit "A" and depicted in Exhibit "B", each of which exhibits is attached hereto and incorporated herein by this reference; and

WHEREAS, at the time of initial approval of development project known as

within the Property described herein,

the County required the project to employ Best Management Practices, hereinafter referred to as "BMPs," to minimize pollutants in urban runoff; and

WHEREAS, the Owner has chosen to install and/or implement BMPs as described in the Water Quality Management Plan, dated ______, on file with the County and incorporated herein by this reference, hereinafter referred to as "WQMP", to minimize pollutants in urban runoff and to minimize other adverse impacts of urban runoff; and

WHEREAS, said WQMP has been certified by the Owner and reviewed and approved by the County; and

WHEREAS, the Owner is aware that periodic and continuous maintenance, including, but not necessarily limited to, filter material replacement and sediment removal, is required to assure peak performance of all BMPs in the WQMP and that, furthermore, such maintenance activity will require compliance with all Local, State, or Federal laws and regulations, including those pertaining to confined space and waste disposal methods, in effect at the time such maintenance occurs.

NOW THEREFORE, it is mutually stipulated and agreed as follows:

- 1. Owner shall comply with the WQMP.
- 2. All maintenance or replacement of BMPs proposed as part of the WQMP are the sole responsibility of the Owner in accordance with the terms of this Agreement.
- 3. Owner hereby provides the County's designee complete access, of any duration, to the BMPs and their immediate vicinity at any time, upon reasonable notice, or in the event of emergency, as determined by the County Director of Public Works, no advance notice, for the purpose of inspection, sampling, testing of the BMPs, and in case of emergency, to undertake all necessary repairs or other preventative measures at owner's expense as provided in paragraph 5 below. The County shall make every effort at all times to minimize or avoid interference with Owner's use of the Property. Denial of access to any premises or facility that contains WQMP features is a breach of this Agreement and may also be a violation of the County's Pollutant Discharge Elimination System regulations, which on the effective date of this Agreement are found in County Code Sections 35.0101 et seq. If there is reasonable cause to believe that an illicit discharge or breach of this Agreement is occurring on the premises then the authorized enforcement agency may seek issuance of a search warrant from any court of competent jurisdiction in addition to other enforcement actions. Owner recognizes that the County may perform routine and regular inspections, as well as emergency inspections, of the BMPs. Owner or Owner's successors or assigns shall pay County for all costs incurred by County in the inspection, sampling, testing of the BMPs within thirty (30) calendar days of County invoice.
- 4. Owner shall use its best efforts diligently to maintain all BMPs in a manner assuring peak performance at all times. All reasonable precautions shall be exercised by Owner and Owner's representative or contractor in the removal and extraction of any material(s) from the BMPs and the ultimate disposal of the material(s) in a manner consistent with all relevant laws and regulations in effect at the time. As may be requested from time to time by the County, the Owner shall provide the County with documentation identifying the material(s) removed, the quantity, and disposal destination), testing construction or reconstruction.
- 5. In the event Owner, or its successors or assigns, fails to accomplish the necessary maintenance contemplated by this Agreement, within five (5) business days of being given written notice by the County, the County is hereby authorized to cause any maintenance necessary to be done and charge the entire cost and expense against the Property and/or to the Owner or Owner's successors or assigns, including administrative costs, attorneys fees and interest thereon at the maximum rate authorized by the County Code from the date of the notice of expense until paid in full. Owner or Owner's successors or assigns shall pay County within thirty (30) calendar days of County invoice.
- 6. The County may require the owner to post security in form and for a time period satisfactory to the County to guarantee the performance of the obligations stated herein. Should the Owner fail to perform the obligations under the Agreement, the County may, in the case of a cash bond, act for the Owner using the proceeds from it, or in the case of a surety bond, require the surety(ies) to perform the obligations of this Agreement.

- 7. The County agrees, from time to time, within ten (10) business days after request of Owner, to execute and deliver to Owner, or Owner's designee, an estoppel certificate requested by Owner, stating that this Agreement is in full force and effect, and that Owner is not in default hereunder with regard to any maintenance or payment obligations (or specifying in detail the nature of Owner's default). Owner shall pay all costs and expenses incurred by the County in its investigation of whether to issue an estoppel certificate within thirty (30) calendar days after receipt of a County invoice and prior to the County's issuance of such certificate. Where the County cannot issue an estoppel certificate, Owner shall pay the County within thirty (30) calendar days of receipt of a County invoice.
- 8. Owner shall not change any BMPs identified in the WQMP without an amendment to this Agreement approved by authorized representatives of both the County and the Owner.
- 9. County and Owner shall comply with all applicable laws, ordinances, rules, regulations, court orders and government agency orders now or hereinafter in effect in carrying out the terms of this Agreement. If a provision of this Agreement is terminated or held to be invalid, illegal or unenforceable, the validity, legality and enforceability of the remaining provisions shall remain in full effect.
- 10. In addition to any remedy available to County under this Agreement, if Owner violates any term of this Agreement and does not cure the violation within the time already provided in this Agreement, or, if not provided, within thirty (30) calendar days, or within such time authorized by the County if said cure reasonably requires more than the subject time, the County may bring an action at law or in equity in a court of competent jurisdiction to enforce compliance by the Owner with the terms of this Agreement. In such action, the County may recover any damages to which the County may be entitled for the violation, enjoin the violation by temporary or permanent injunction without the necessity of proving actual damages or the inadequacy of otherwise available legal remedies, or obtain other equitable relief, including, but not limited to, the restoration of the Property and/or the BMPs identified in the WQMP to the condition in which it/they existed prior to any such violation or injury.
- 11. This Agreement shall be recorded in the Office of the Recorder of San Bernardino County, California, at the expense of the Owner and shall constitute notice to all successors and assigns of the title to said Property of the obligation herein set forth, and also a lien in such amount as will fully reimburse the County, including interest as herein above set forth, subject to foreclosure in event of default in payment.
- 12. In event of legal action occasioned by any default or action of the Owner, or its successors or assigns, then the Owner and its successors or assigns agree(s) to hold the County harmless and pay all costs incurred by the County in enforcing the terms of this Agreement, including reasonable attorney's fees and costs, and that the same shall become a part of the lien against said Property.
- 13. It is the intent of the parties hereto that burdens and benefits herein undertaken shall constitute covenants that run with said Property and constitute a lien there against.
- 14. The obligations herein undertaken shall be binding upon the heirs, successors, executors, administrators and assigns of the parties hereto. The term "Owner" shall include not only the present Owner, but also its heirs, successors, executors, administrators, and assigns. Owner shall notify any successor to title of all or part of the Property about the existence of this Agreement. Owner shall provide such notice prior to such successor obtaining an

interest in all or part of the Property. Owner shall provide a copy of such notice to the County at the same time such notice is provided to the successor.

- 15. Time is of the essence in the performance of this Agreement.
- 16. Any notice to a party required or called for in this Agreement shall be served in person, or by deposit in the U.S. Mail, first class postage prepaid, to the address set forth below. Notice(s) shall be deemed effective upon receipt, or seventy-two (72) hours after deposit in the U.S. Mail, whichever is earlier. A party may change a notice address only by providing written notice thereof to the other party.
- 17. Owner agrees to indemnify, defend (with counsel reasonably approved by the County) and hold harmless the County and its authorized officers, employees, agents and volunteers from any and all claims, actions, losses, damages, and/or liability arising out of this Agreement from any cause whatsoever, including the acts, errors or omissions of any person and for any costs or expenses incurred by the County on account of any claim except where such indemnification is prohibited by law. This indemnification provision shall apply regardless of the existence or degree of fault of indemnitees. The Owner's indemnification obligation applies to the County's "active" as well as "passive" negligence but does not apply to the County's "sole negligence" or "willful misconduct" within the meaning of Civil Code Section 2782, or to any claims, actions, losses, damages, and/or liabilities, to the extent caused by the acts or omissions of any third party contractors undertaking any work (other than field inspections) or other maintenance on the Property on behalf of the County under this Agreement.

[REMAINDER OF THIS PAGE INTENTIONALLY LEFT BLANK]

IN WITNESS THEREOF, the parties hereto have affixed their signatures as of the date first written above.

OWNER:	
Company/Trust:	FOR: Maintenance Agreement, dated
Signature:	, for the
Name:	project known as
Title:	
Date:	
<u>OWNER:</u> Company/Trust:	(APN), As described in the WQMP dated
Signature:	·
Name:	
Title:	
Date:	

NOTARIES ON FOLLOWING PAGE

A notary acknowledgement is required for recordation.

ACCEPTED BY:

KEVIN BLAKESLEE, P.E., Director of Public Works

Date: _____

Attachment: Notary Acknowledgement

ATTACHMENT 1 Notary Acknowledgement)

<u>EXHIBIT A</u> (Legal Description)

That portion of the East half of the Southwest Quarter of Section 1, Township 9 North, Range 2 West, SAN BERNARDINO BASE AND MERIDIAN, according to Government Survey, described as follows:

COMMENCING at the intersection of the Northerly extension of the East Line of "D" Street as shown on Map of Henderson's Subdivision, TRACT NO. 2184 as per plat recorded in Book 31 of Maps, Page 60, records of said County, with the North line of State Highway; thence Southwesterly along said Northerly line of said Highway 201.7 feet to the center line of a 40-foot road; thence Northwesterly along said road to the Southerly line of former right of way of Atchison, Topeka and Santa Fe Railroad, which point is 100 feet Southeasterly from Culvert A2 for true point of beginning; thence South 0 deg. 31' West 588.94 feet to the North Line of State Highway; thence Southwesterly along said Northerly line of State Highway 100 feet; thence North 0 deg 31' East 500 feet, more or less, to the former Southerly line of the right of way of Atchison, Topeka and Santa Fe Railroad; thence Northeasterly along said right of way 100 feet to the true point of beginning:

EXCEPTING THEREFROM that portion described as follows: BEGINNING at the Southwest corner of the above described property; thence North 0 deg 31' East 112 feet; thence North 72 deg 53' East parallel with the North line of State Highway 50 feet; thence South 0 deg 31' West 112 feet to the North line of said State Highway; thence South 72 deg 53' West 50 feet to the point of beginning.

<u>EXHIBIT B</u> (Map/illustration)

				WA	γer qua	ALITY MA BARSTOW 1161 W MA	ANAGEM PARKING LOT EXP IN STREET, BARST	ENT PLA ANSION FOW, CA
							DI	MA BOUNDARY
						$ \begin{array}{c} + & + & + \\ + & + & + $		
MAIN STREET								
					DMA BOUND	A A A A A A A A A A A A A A A A A A A		
DA NUMBER	DA AREA SQ.FT.	DA AREA ACRES	ASPHALT SQ.FT.	CONCRETE SQ.FT.	ROOF SQ.FT.	LANDSCAPE SQ.FT.	IMPERVIOUS %	PERVIOUS %
DA-1	23,971	0.55	19,139	1,251	0	3,581	85%	15%



Attachment E: BMP Details

CALIFORNIA ENVIRONMEN	TAL REPORTING SY	STEM (CERS)							
CONSOLIDATED EMERGENCY RESPONSE / CONTINGENCY PLAN									
Prior to completing this Plan, please refer to the INSTRUCTIONS FOR COMPLETING A CONSOLIDATED CONTINGENCY PLAN									
A. FACILITY IDENTIFICATIO	N AND OPERATI	ONS OVERVI	EW						
FACILITY ID #	CRS ID AL.	DATE OF PLAN PRE	PARATION/REVISION A2.						
BUSINESS NAME (Same as Facility Name or DBA - Doing Business As) 3.									
BUSINESS SITE ADDRESS			103.						
BUSINESS SITE CITY	104.	CA ZIP COL	DE 105.						
TYPE OF BUSINESS (e.g., Painting Contractor)	3. INCIDENTAL OPERA	TIONS (e.g., Fleet Mair	tenance) A4.						
THIS PLAN COVERS CHEMICAL SPILLS, FIRES, AND EARTHQUAKES I	VOLVING: (Check all that a	apply)	A5.						
☑ 1. HAZARDOUS MATERIALS; □ 2. HAZARDOUS WASTES		11.07							
B. INTERN	AL RESPONSE								
INTERNAL FACILITY EMERGENCY RESPONSE WILL OCCUR VIA: (Che	ek all that apply)		B1.						
□ 1. CALLING PUBLIC EMERGENCY RESPONDERS (i.e., 9-1-1) □ 2. CALLING HAZARDOUS WASTE CONTRACTOR □ 3. ACTIVATING IN-HOUSE EMERGENCY RESPONSE TEAM									
C. EMERGENCY COMMUNICATIONS	PHONE NUMBER	RS AND NOTI	FICATIONS						
Whenever there is an imminent or actual emergency situation such as an ex	plosion, fire, or release, the	Emergency Coordinato	r (or his/her designee when the						
Emergency Coordinator is on call) shall: 1. Activate internal facility alarms or communications systems, where applicable, to notify all facility personnel.									
 Notify appropriate local authorities (i.e., call 9-1-1). Notify the California Emergency Management Agency at (800) 852-7550. 									
Substances Control (DTSC), the local Unified Program Agency (UPA), and the local fire department's hazardous materials program that the facility is in compliance									
with requirements to:1. Provide for proper storage and disposal of recovered waste, contaminated soil	or surface water, or any other	material that results from	m an explosion, fire, or release at						
the facility; and	neferred stored or disposed	of in areas of the facili	ty affected by the incident until						
2. Ensure that no material that is incompanie with the released material is the cleanup procedures are completed.	insterred, stored, or disposed	of in areas of the factor	ty affected by the moldent until						
INTERNAL FACILITY EMERGENCY COMMUNICATIONS OR ALARM N	TIFICATION WILL OCCUI	R VIA: (Check all that a	pply) C1.						
$\Box 1. VEKBAL WARNINGS, \qquad \Box 2. FOBLIC ADDRESS OK INTERCENT OF THE PAGE STATE STRATES OF THE PAGE STRATES OF THE PAGE STATE STA$	KCOW 5151EW,	\Box 6. PORTABLE RA	DIO						
NOTIFICATIONS TO NEIGHBORING FACILITIES THAT MAY BE AFFEC	TED BY AN OFF-SITE RELE	EASE WILL OCCUR B	Y: (Check all that apply) C2.						
\square 1. VERBAL WARNINGS; \square 2. PUBLIC ADDRESS OR INT. \square 4. PAGERS: \square 5. ALARM SYSTEM:	ERCOM SYSTEM;	\square 3. TELEPHONE; \square 6. PORTABLE RA	DIO						
EMERGENCY RESPONSE AMBULANCE, FIRE, POLICE AND CHP			9-1-1						
PHONE NUMBERS: CALIFORNIA EMERGENCY MANAGEMEN	T AGENCY (CAL/EMA)		(800) 852-7550						
NATIONAL RESPONSE CENTER (NRC)			(800) 424-8802						
POISON CONTROL CENTER			(800) 222-1222						
LOCAL UNIFIED PROGRAM AGENCY (UP	A/CUPA)		C3.						
OTHER (Specify):		C4.	C5.						
NEAREST MEDICAL FACILITY / HOSPITAL NAME:		С6.	C7.						
AGENCY NOTIFICATION PHONE NUMBERS: CALIFORNIA DEPT. C	F TOXIC SUBSTANCES CO	ONTROL (DTSC)	(916) 255-3545						
REGIONAL WATER Q	UALITY CONTROL BOARD	D							
U.S. ENVIRONMENTA	L PROTECTION AGENCY	(US EPA)	(800) 300-2193						
CALIFORNIA DEPT O	F FISH AND GAME (DFG) .		(916) 358-2900						
U.S. COAST GUARD .			(202) 267-2180						
CAL/OSHA	•••••••••••••••••••••••••••••••••••••••		(916) 263-2800						
STATE FIRE MARSHA	L	C0	(916) 445-8200						
OTHER (Specify):		C!!	C10.						
OTHER (Specify):		CII.	C12.						

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