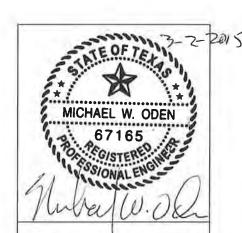
ATTACHMENT B TO APPENDIX III-D.6 HELP MODEL OUTPUTS

1. SUMMARY TABLE OF HELP MODEL RUNS



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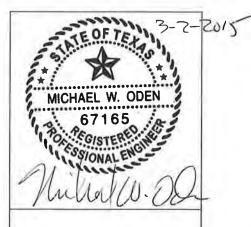


				Table III-D.6-B.1 HELP Model Run	Table III-D.6-B.1 HELP Model Runs					
				Summai	Summary Table					
HELP Model Output Location	Operating Conditions	Liner Configuration Identification in	Leachate Collection Layer Slope	Waste Thickness	Drainage Length	Model Run Time	Leachate Recirculation	Introduced Leachate	Maximum Head on Liner	Peak Daily Leachate Generation Rate
		Model Name	(percent)	(Feet)	(feet)	(years)	(percent)	(gallons/ acre-day)	(in)	(gal/ac-day)
Attachment D.6-B-2a	Open	A	2.5	10	461	1	100	0	0.004	96.39
Attachment D.6-B-2b	Open	B	2.5	10	614	1	100	0	0:003	54.66
Attachment D.6-B-2c	Open	C	2.0	10	461	1	100	0	0.005	57.20
Attachment D.6-B-2d	Open	D	2.0	10	614	1	100	0	0.005	46.20
Attachment D.6-B-3	Intermediate	A	2.5	190	461	5	100	0	600.0	44.19
Attachment D.6-8-4	Closed	A	2.5	380	461	30	100	0	0	0.00
Attachment D.6-B-5a	Open	A	2.5	20	461	1	100	744	0.004	66.35
Attachment D.6-B-5b	Intermediate	A	2.5	50	461	30	100	744	600.0	44.21
Attachment D.6-B-5c	Intermediate	A	2.5	100	461	30	100	744	600.0	44.21

ATTACHMENT B TO APPENDIX III-D.6 HELP MODEL OUTPUTS

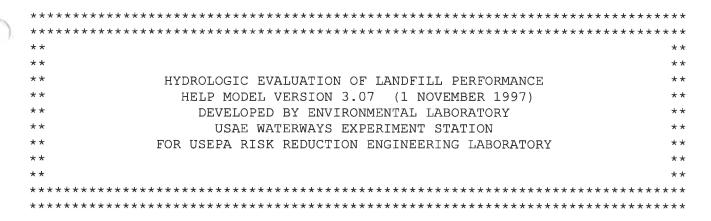
2. OPEN CONDITIONS

- A. LEACHATE COLLECTION SYSTEM CONFIGURATION A
- B. LEACHATE COLLECTION SYSTEM CONFIGURATION B
- C. LEACHATE COLLECTION SYSTEM CONFIGURATION C
- D. LEACHATE COLLECTION SYSTEM CONFIGURATION D



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PRECIPITATION DATA FILE: c:\help3\pesc\PRECIP.D4
TEMPERATURE DATA FILE: c:\help3\pesc\TEMP.D7
SOLAR RADIATION DATA FILE: c:\help3\pesc\SOL.D13
EVAPOTRANSPIRATION DATA: c:\help3\pesc\EVAP_OPN.D11
SOIL AND DESIGN DATA FILE: c:\help3\pesc\OPEN_A.D10
OUTPUT DATA FILE: c:\help3\pesc\OPEN_A.OUT

TIME: 7:43 DATE: 1/29/2015

TITLE: PESCADITO-OPEN CONDITIONS

NOTE: INITIAL MOISTURE CONTENT OF THE LAYERS AND SNOW WATER WERE SPECIFIED BY THE USER.

LAYER 1

TYPE 1 - VERTICAL PERCOLATION LAYER MATERIAL TEXTURE NUMBER 0

THICKNESS	=	6.00	INCHES
POROSITY	=	0.4520	VOL/VOL
FIELD CAPACITY	=	0.4110	VOL/VOL
WILTING POINT	=	0.3110	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.4110	VOL/VOL

EFFECTIVE SAT. HYD. COND. = 0.999999975000E-05 CM/SEC

LAYER 2

TYPE 1 - VERTICAL PERCOLATION LAYER MATERIAL TEXTURE NUMBER 18

THICKNESS	=	120.00	INCHES
POROSITY	=	0.6710	VOL/VOL
FIELD CAPACITY	=	0.2920	AOT\AOT
WILTING POINT	=	0.0770	AOT\AOT
INITIAL SOIL WATER CONTENT	=	0.2000	AOT\AOT

EFFECTIVE SAT. HYD. COND. = 0.10000005000E-02 CM/SEC
NOTE: 100.00 PERCENT OF THE DRAINAGE COLLECTED FROM LAYER # 4
IS RECIRCULATED INTO THIS LAYER.

LAYER 3

TYPE 1 - VERTICAL PERCOLATION LAYER MATERIAL TEXTURE NUMBER 0

THICKNESS	=	24.00	INCHES	
POROSITY	=	0.4510	AOT\AOT	
FIELD CAPACITY	=	0.4110	VOL\AOL	
WILTING POINT	=	0.3110	AOT\AOT	
INITIAL SOIL WATER	CONTENT =	0.4110	AOT\AOT	
EFFECTIVE SAT. HYD	. COND. =	0.99999997	5000E-05	CM/SEC
FIELD CAPACITY WILTING POINT INITIAL SOIL WATER	= CONTENT =	0.4110 0.3110 0.4110	AOT\AOT AOT\AOT AOT\AOT	CM/SE

LAYER 4

TYPE 2 - LATERAL DRAINAGE LAYER MATERIAL TEXTURE NUMBER 0

MAICKIAD ICV	TOKE	NOMPEK O		
THICKNESS	==	0.26	INCHES	
POROSITY	===	0.8500	AOT\AOT	
FIELD CAPACITY	=	0.0100	AOT\AOT	
WILTING POINT	==	0.0050	AOT\AOT	
INITIAL SOIL WATER CONTENT	==	0.0100	VOL/VOL	
EFFECTIVE SAT. HYD. COND.	=	3.7139999	9000	CM/SEC
SLOPE	=	2.50	PERCENT	
DRAINAGE LENGTH	=	461.0	FEET	
NOTE: 100.00 PERCENT OF THE	DRA	NAGE COLLE	CTED FROM	1 THIS

LAYER IS RECIRCULATED INTO LAYER # 2.

LAYER 5

TYPE 4 - FLEXIBLE MEMBRANE LINER MATERIAL TEXTURE NUMBER 35

THICKNESS	=	0.06 INCHES
POROSITY	=	0.0000 VOL/VOL
FIELD CAPACITY	=	0.0000 VOL/VOL
WILTING POINT	=	0.0000 VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.0000 VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.199999996000E-12 CM/SEC
FML PINHOLE DENSITY	=	3.00 HOLES/ACRE

FML INSTALLATION DEFECTS = 3.00 HOLES/ACRE FML PLACEMENT QUALITY = 3 - GOOD

LAYER 6

TYPE 3 - BARRIER SOIL LINER MATERIAL TEXTURE NUMBER 0

THICKNESS	=	24.00 INCHES
POROSITY	=	0.4510 VOL/VOL
FIELD CAPACITY	=	0.4110 VOL/VOL
WILTING POINT	= 0	0.3110 VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.4510 VOL/VOL
EFFECTIVE SAT, HYD, COND.	=	0.100000001000E-06 CM/SEC

GENERAL DESIGN AND EVAPORATIVE ZONE DATA

NOTE: SCS RUNOFF CURVE NUMBER WAS USER-SPECIFIED.

SCS RUNOFF CURVE NUMBER	=	85.00	
FRACTION OF AREA ALLOWING RUNOFF	=	0.0	PERCENT
AREA PROJECTED ON HORIZONTAL PLANE	=	1.000	ACRES
EVAPORATIVE ZONE DEPTH	=	60.0	INCHES
INITIAL WATER IN EVAPORATIVE ZONE	=	13.266	INCHES
UPPER LIMIT OF EVAPORATIVE STORAGE	=	38.946	INCHES
LOWER LIMIT OF EVAPORATIVE STORAGE	=	6.024	INCHES
INITIAL SNOW WATER	$\alpha = \alpha$	0.000	INCHES
INITIAL WATER IN LAYER MATERIALS	=	47.157	INCHES
TOTAL INITIAL WATER		47.157	INCHES
TOTAL SUBSURFACE INFLOW	=	0.00	INCHES/YEAR

EVAPOTRANSPIRATION AND WEATHER DATA

NOTE: EVAPOTRANSPIRATION DATA WAS OBTAINED FROM BROWNSVILLE TEXAS

STATION LATITUDE	=	27.34	DEGREES
MAXIMUM LEAF AREA INDEX	=	0.00	
START OF GROWING SEASON (JULIAN DATE)	=	0	
END OF GROWING SEASON (JULIAN DATE)	=	367	
EVAPORATIVE ZONE DEPTH	=	60.0	INCHES
AVERAGE ANNUAL WIND SPEED	=	11.60	MPH
AVERAGE 1ST QUARTER RELATIVE HUMIDITY	=	76.00	ଚ୍ଚ
AVERAGE 2ND QUARTER RELATIVE HUMIDITY	=	75.00	ଚ୍ଚ
AVERAGE 3RD QUARTER RELATIVE HUMIDITY	=	74.00	용
AVERAGE 4TH QUARTER RELATIVE HUMIDITY	=	76.00	용

NOTE: PRECIPITATION DATA WAS SYNTHETICALLY GENERATED USING COEFFICIENTS FOR BROWNSVILLE TEXAS

NORMAL MEAN MONTHLY PRECIPITATION (INCHES)

FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
		~~		
0.86	0.88	1.37	2.65	2.68
2.29	3.09	2.41	1.07	0.91
	0.86	0.86 0.88	0.86 0.88 1.37	0.86 0.88 1.37 2.65

NOTE: TEMPERATURE DATA WAS SYNTHETICALLY GENERATED USING COEFFICIENTS FOR BROWNSVILLE TEXAS

NORMAL MEAN MONTHLY TEMPERATURE (DEGREES FAHRENHEIT)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
56.50	61.00	68.80	76.00	82.00	86.50
87.90	87.90	82.90	75.40	65.50	57.70

NOTE: SOLAR RADIATION DATA WAS SYNTHETICALLY GENERATED USING COEFFICIENTS FOR BROWNSVILLE TEXAS

AND STATION LATITUDE = 27.34 DEGREES

Technically Complete, March 11, 2016 Pescadito Landfill – Open Conditions: Scenario A

			INCHES	CU.	FEET	PERCEN
PRECIPITATION			16.30		69.004	100.00
RUNOFF			0.000		0.000	0.00
EVAPOTRANSPIRATION			18.102	657	12.023	111.06
RECIRCULATION INTO LAY	TER 2		0.006864		24.915	0.04
DRAINAGE COLLECTED FRO	M LAYER	4	0.0000		0.000	0.00
RECIRCULATION FROM LAY	ER 4		0.006864		24.915	0.04
PERC./LEAKAGE THROUGH	LAYER 6		0.000001		0.003	0.00
AVG. HEAD ON TOP OF LA	YER 5		0.0000			
CHANGE IN WATER STORAG	E		-1.802	-65	43.026	-11.06
SOIL WATER AT START OF	YEAR		47.157	1711	78.500	
SOIL WATER AT END OF Y	EAR		45.354	1646	35.484	
SNOW WATER AT START OF	YEAR		0.000		0.000	0.00
SNOW WATER AT END OF Y	EAR		0.000		0.000	0.00
ANNUAL WATER BUDGET BA	LANCE		0.0000		0.004	0.00
**************************************	********* VALUES I	********** N INCHES	*****	******* 1 THR	*****	
	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DE
PRECIPITATION						
	0.32		0.35	0.01		3.60 1.56
TOTALS	0.00	2.82	3.54	2.09	0.72	1.50

Technically Complete, March 11, 2016 Pescadito Landfill - Open Conditions: Scenario A

TOTALS	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATIONS	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION						
TOTALS	0.935 0.706	0.421 1.974	0.361 4.407	0.294 2.932	0.267 0.879	3.495 1.432
STD. DEVIATIONS	0.000	0.000	0.000	0.000	0.000	0.000
LATERAL DRAINAGE RECIR	CULATED IN	TO LAYER	2			
TOTALS	0.0064	0.0003	0.0001 0.0000	0.0000	0.0000	0.0000
STD. DEVIATIONS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LATERAL DRAINAGE COLLEC	CTED FROM :	LAYER 4				
TOTALS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
STD. DEVIATIONS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LATERAL DRAINAGE RECIR	CULATED FRO	OM LAYER	4			
TOTALS	0.0064	0.0003	0.0001	0.0000	0.0000	0.0000
STD. DEVIATIONS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE TH	ROUGH LAYE	R 6				
TOTALS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
STD. DEVIATIONS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

AVERAGES OF M	ONTHLY AVERA	GED	DAILY HEA	ADS (INCHES)	
DAILY AVERAGE HEAD ON TOP	OF LAYER 5				
AVEDACEC			0 0000	0 0000 0 000	0 0000
	.0002 0.00			0.0000 0.000	0.0000
GED DULLBELONG O	0000 0 00		0 0000	0 0000 0 000	0.0000
				0.0000 0.000	
*******	*****	***	*****	*****	*****
*********	*****	***	*****	*****	******
AVERAGE ANNUAL TOTALS &	(STD. DEVIA	TIO	NS) FOR YE	EARS 1 THROUG	SH 1
				CU. FEET	PERCENT
PRECIPITATION			0.000)	59169.0	100.00
RUNOFF	0.000	(0.0000)	0.00	0.000
EVAPOTRANSPIRATION	18.102	(0.0000)	65712.02	111.058
DRAINAGE RECIRCULATED INTO LAYER 2	0.00686	(0.00000)	24.915	0.04211
LATERAL DRAINAGE COLLECTED FROM LAYER 4	0.00000	(0.00000)	0.000	0.00000
DRAINAGE RECIRCULATED FROM LAYER 4	0.00686	(0.00000)	24.915	0.04211
PERCOLATION/LEAKAGE THROUGH LAYER 6	0.00000	(0.00000)	0.003	0.00000
AVERAGE HEAD ON TOP OF LAYER 5	0.000 (0.000)		
CHANGE IN WATER STORAGE	-1.802	(0.0000)	-6543.03	-11.058

PEAK DAILY VALUES FOR YEARS	1 THROUGH	1
	(INCHES)	(CU. FT.)
PRECIPITATION	1.32	4791.600
RUNOFF	0.000	0.0000
DRAINAGE RECIRCULATED INTO LAYER 2	0.00244	8.87097
DRAINAGE COLLECTED FROM LAYER 4	0.00000	0.00000
DRAINAGE RECIRCULATED FROM LAYER 4	0.00244	8.87097
PERCOLATION/LEAKAGE THROUGH LAYER 6	0.000000	0.00006
AVERAGE HEAD ON TOP OF LAYER 5	0.002	
MAXIMUM HEAD ON TOP OF LAYER 5	0.004	
LOCATION OF MAXIMUM HEAD IN LAYER 4 (DISTANCE FROM DRAIN)	0.0 FEET	
SNOW WATER	0.00	0.0000
MAXIMUM VEG. SOIL WATER (VOL/VOL)	0.2	345
MINIMUM VEG. SOIL WATER (VOL/VOL)	0.1	839

^{***} Maximum heads are computed using McEnroe's equations. ***

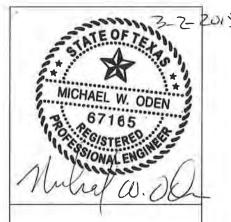
Reference: Maximum Saturated Depth over Landfill Liner by Bruce M. McEnroe, University of Kansas ASCE Journal of Environmental Engineering Vol. 119, No. 2, March 1993, pp. 262-270.

FINAL WA	ATER STORAGE AT	END OF YEAR	1
LAYER	(INCHES)	(VOL/VOL)	
1	1.5392	0.2565	
2	23.1312	0.1928	
3	9.8571	0.4107	
4	0.0026	0.0100	
5	0.0000	0.0000	
6	10.8240	0.4510	
SNOW WATE	ER 0.000		

ATTACHMENT B TO APPENDIX III-D.6 HELP MODEL OUTPUTS

2. OPEN CONDITIONS

- A. LEACHATE COLLECTION SYSTEM CONFIGURATION A
- **B. LEACHATE COLLECTION SYSTEM CONFIGURATION B**
- C. LEACHATE COLLECTION SYSTEM CONFIGURATION C
- D. LEACHATE COLLECTION SYSTEM CONFIGURATION D



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Technically Complete, March 21,1, 2016

Pescadito Landfill - Open Conditions Scenario B

Drainage Length: 614 FT

******	**********	*****
******	***********	*****
**		**
**		**
**	HYDROLOGIC EVALUATION OF LANDFILL PERFORMANCE	**
**	HELP MODEL VERSION 3.07 (1 NOVEMBER 1997)	**
**	DEVELOPED BY ENVIRONMENTAL LABORATORY	**
* *	USAE WATERWAYS EXPERIMENT STATION	**
**	FOR USEPA RISK REDUCTION ENGINEERING LABORATORY	**
**		**
**		**
******	*************	*****
*****	*****************	*****

PRECIPITATION DATA FILE: c:\help3\pesc\PRECIP.D4 c:\help3\pesc\TEMP.D7 TEMPERATURE DATA FILE: SOLAR RADIATION DATA FILE: c:\help3\pesc\SOL.D13

c:\help3\pesc\EVAP OPN.D11 EVAPOTRANSPIRATION DATA: c:\help3\pesc\OPEN b.D10 SOIL AND DESIGN DATA FILE: OUTPUT DATA FILE: c:\help3\pesc\OPEN b.OUT

TIME: 7:54 DATE: 1/29/2015

TITLE: PESCADITO-OPEN CONDITIONS

NOTE: INITIAL MOISTURE CONTENT OF THE LAYERS AND SNOW WATER WERE SPECIFIED BY THE USER.

LAYER 1

TYPE 1 - VERTICAL PERCOLATION LAYER MATERIAL TEXTURE NUMBER

6.00 INCHES
0.4520 VOL/VOL
0.4110 VOL/VOL
0.3110 VOL/VOL
0.4110 VOL/VOL

EFFECTIVE SAT. HYD. COND. = 0.999999975000E-05 CM/SEC

Pescadito Landfill - Open Conditions

Scenario B

LAYER 2

TYPE 1 - VERTICAL PERCOLATION LAYER MATERIAL TEXTURE NUMBER 18

= THICKNESS 120.00 INCHES 0.6710 VOL/VOL POROSITY = 0.2920 VOL/VOL FIELD CAPACITY 0.0770 VOL/VOL WILTING POINT = INITIAL SOIL WATER CONTENT = 0.2000 VOL/VOL EFFECTIVE SAT. HYD. COND. = 0.10000005000E-02 CM/SEC

NOTE: 100.00 PERCENT OF THE DRAINAGE COLLECTED FROM LAYER # 4 IS RECIRCULATED INTO THIS LAYER.

LAYER 3 _____

TYPE 1 - VERTICAL PERCOLATION LAYER MATERIAL TEXTURE NUMBER 0

24.00 INCHES THICKNESS 0.4510 VOL/VOL POROSITY 0.4110 VOL/VOL FIELD CAPACITY = 0.3110 VOL/VOL WILTING POINT INITIAL SOIL WATER CONTENT = 0.4110 VOL/VOL EFFECTIVE SAT. HYD. COND. = 0.999999975000E-05 CM/SEC

LAYER 4

TYPE 2 - LATERAL DRAINAGE LAYER MATERIAL TEXTURE NUMBER 0

THICKNESS 0.26 INCHES POROSITY = 0.8500 VOL/VOL FIELD CAPACITY 0.0100 VOL/VOL 0.0050 VOL/VOL WILTING POINT == INITIAL SOIL WATER CONTENT = 0.0100 VOL/VOL 3.71399999000 EFFECTIVE SAT. HYD. COND. =

2.50 SLOPE PERCENT DRAINAGE LENGTH = 614.0 FEET

NOTE: 100.00 PERCENT OF THE DRAINAGE COLLECTED FROM THIS LAYER IS RECIRCULATED INTO LAYER # 2.

LAYER 5

TYPE 4 - FLEXIBLE MEMBRANE LINER MATERIAL TEXTURE NUMBER 35

0.06 THICKNESS INCHES POROSITY = 0.0000 VOL/VOL

CM/SEC

Pescadito Landfill - Open Conditions

Scenario B

FIELD CAPACITY	=	0.0000 VOL/VOL
WILTING POINT	=	0.0000 VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.0000 VOL/VOL

EFFECTIVE SAT. HYD. COND. = 0.199999996000E-12 CM/SEC FML PINHOLE DENSITY = 3.00 HOLES/ACRE FML INSTALLATION DEFECTS = 3.00 HOLES/ACRE

FML PLACEMENT QUALITY = 3 - GOOD

LAYER 6

TYPE 3 - BARRIER SOIL LINER

MATERIAL TEXTURE NUMBER 0

THICKNESS = 24.00 INCHES
POROSITY = 0.4510 VOL/VOL
FIELD CAPACITY = 0.4110 VOL/VOL
WILTING POINT = 0.3110 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.4510 VOL/VOL

EFFECTIVE SAT. HYD. COND. = 0.10000001000E-06 CM/SEC

GENERAL DESIGN AND EVAPORATIVE ZONE DATA

NOTE: SCS RUNOFF CURVE NUMBER WAS USER-SPECIFIED.

=	85.00	
=	0.0	PERCENT
=	1.000	ACRES
=	60.0	INCHES
=	13.266	INCHES
=	38.946	INCHES
=	6.024	INCHES
=	0.000	INCHES
=	47.157	INCHES
=	47.157	INCHES
=	0.00	INCHES/YEAR
		= 0.0 = 1.000 = 60.0 = 13.266 = 38.946 = 6.024 = 0.000 = 47.157 = 47.157

EVAPOTRANSPIRATION AND WEATHER DATA

NOTE: EVAPOTRANSPIRATION DATA WAS OBTAINED FROM BROWNSVILLE TEXAS

STATION LATITUDE	=	27.34	DEGREES
MAXIMUM LEAF AREA INDEX	=	0.00	
START OF GROWING SEASON (JULIAN DATE)	=	0	
END OF GROWING SEASON (JULIAN DATE)	=	367	
EVAPORATIVE ZONE DEPTH	$\hat{x}_{i}=\hat{x}_{i}$	60.0	INCHES
AVERAGE ANNUAL WIND SPEED	$\hat{x}_i = \hat{x}_i$	11.60	MPH

Technically Complete, March 11, 2016

Pescadito Landfill - Open Conditions

Scenario B

AVERAGE 1ST QUARTER RELATIVE HUMIDITY = 76.00 % AVERAGE 2ND QUARTER RELATIVE HUMIDITY == 75.00 % AVERAGE 3RD QUARTER RELATIVE HUMIDITY = 74.00 % AVERAGE 4TH QUARTER RELATIVE HUMIDITY = 76.00 %

NOTE: PRECIPITATION DATA WAS SYNTHETICALLY GENERATED USING

COEFFICIENTS FOR

BROWNSVILLE

TEXAS

NORMAL MEAN MONTHLY PRECIPITATION (INCHES)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
0.82	0.86	0.88	1.37	2.65	2.68
1.93	2.29	3.09	2.41	1.07	0.91

NOTE: TEMPERATURE DATA WAS SYNTHETICALLY GENERATED USING

COEFFICIENTS FOR

BROWNSVILLE

TEXAS

NORMAL MEAN MONTHLY TEMPERATURE (DEGREES FAHRENHEIT)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
56.50	61.00	68.80	76.00	82.00	86.50
87.90	87.90	82.90	75.40	65.50	57.70

NOTE: SOLAR RADIATION DATA WAS SYNTHETICALLY GENERATED USING

COEFFICIENTS FOR

BROWNSVILLE

AND STATION LATITUDE = 27.34 DEGREES

ANNUAL TOTAL	s for year 1		
	INCHES	CU. FEET	PERCENT
PRECIPITATION	16.30	59169.004	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	18.102	65709.180	111.05
RECIRCULATION INTO LAYER 2	0.006863	24.914	0.04
DRAINAGE COLLECTED FROM LAYER 4	0.0000	0.000	0.00

Technically Complete, March 11, 2016 Pescadito Landfill – Open Conditions

Scenario B

RECIRCULATION FROM LAYER 4	0.006863	24.914	0.04
PERC./LEAKAGE THROUGH LAYER 6	0.000001	0.005	0.00
AVG. HEAD ON TOP OF LAYER 5	0.0000		
CHANGE IN WATER STORAGE	-1.802	-6540.187	-11.05
SOIL WATER AT START OF YEAR	47.157	171178.500	
SOIL WATER AT END OF YEAR	45.355	164638.312	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.009	0.00

AVERAGE MONTHLY VALUES IN INCHES FOR YEARS 1 THROUGH 1

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION						
TOTALS	0.32 0.00	0.49 2.82	0.35 3.54	0.01 2.89	0.00 0.72	3.60 1.56
STD. DEVIATIONS	0.00	0.00	0.00	0.00	0.00	0.00
RUNOFF						
TOTALS	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATIONS	0.000	0.000	0.000	0.000	0.000	0.000 0.000
EVAPOTRANSPIRATION						
TOTALS	0.935 0.706	0.421 1.974	0.361 4.407	0.294 2.933	0.267 0.877	3.495 1.432
STD. DEVIATIONS	0.000	0.000	0.000	0.000	0.000	0.000
LATERAL DRAINAGE REC	IRCULATED I	NTO LAYER	. 2			

Technically Complete, March 11, 2016 Pescadito Landfill – Open Conditions

Scenario B

.0000 (.0000 (.0000 (.0000 (.0000 (.0000 (.0000 (.0000 (.0000 (.0007 (.0057 (.0057 (.0000 (.0000 (.0057 (.0000 (.0000 (.00057 (.0000 (.0000 (.0000 (.00057 (.00057 (.0000 (.0000 (.0000 (.00057 (.00057 (.0000 (.0000 (.0000 (.00057 (.00057 (.00057 (.0000	0.0000 0.0000 0.0000 0.0000 LAYER 4	0.0000	0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000
FROM LATE OF THE PROM CONTED FROM CONTED F	O.0000 YER 4 O.0000 O.0000 O.0000 D.0000 LAYER 4	0.0000 0.0000 0.0000 0.0000	0.0000 0.0000 0.0000	0.0000 0.0000 0.0000	0.0000
.0000 (.0000 (.0000 (.0000 (TED FROM	0.0000 0.0000 0.0000 0.0000 LAYER 4	0.0000 0.0000 0.0000	0.0000	0.0000	0.0000
.0000 (.0000 (.0000 (TED FROM	0.0000 0.0000 0.0000 LAYER 4	0.0000 0.0000 0.0000	0.0000	0.0000	0.0000
.0000 (TED FROM	0.0000 LAYER 4	0.0000			
.0057		ł			
=	0.0008		0.0001 0.0000	0.0000	0.0000
				0.0000	0.0000
H LAYER	6				
		0.0000	0.0000	0.0000	0.0000
				0.0000	0.0000
VATHLY A	VERAGED D	AILY HEAD	os (INCHES	5)	
OF LAYER	5 				
				0.0000	0.0000
				0.0000	0.0000
E	.0000 (AL) H LAYER .0000 (AL)	.0000 0.0000 H LAYER 6 .0000 0.0000 .0000 0.0000 .0000 0.0000 .0000 0.0000 ONTHLY AVERAGED D OF LAYER 5 .0002 0.0000 .0000 0.0000 .0000 0.0000	.0000 0.0000 0.0000 H LAYER 6 .0000 0.0000 0.0000 .0000 0.0000 0.0000 .0000 0.0000 0.0000 .0000 0.0000 0.0000 ONTHLY AVERAGED DAILY HEAD OF LAYER 5 .0002 0.0000 0.0000 .0000 0.0000 .0000 0.0000 .0000 0.0000 0.0000	.0000 0.0000 0.0000 0.0000 H LAYER 6 .0000 0.0000 0.0000 0.0000 .0000 0.0000 0.0000 0.0000 .0000 0.0000 0.0000 0.0000 .0000 0.0000 0.0000 0.0000 ONTHLY AVERAGED DAILY HEADS (INCHEST OF LAYER 5 .0002 0.0000 0.0000 0.0000 .0000 0.0000 0.0000 .0000 0.0000 0.0000 .0000 0.0000 0.0000 .0000 0.0000 0.0000 .0000 0.0000 0.0000	.0000 0.0000 0.0000 0.0000 0.0000 H LAYER 6 .0000 0.0000 0.0000 0.0000 0.0000 .0000 0.0000 0.0000 0.0000 0.0000 .0000 0.0000 0.0000 0.0000 0.0000 .0000 0.0000 0.0000 0.0000 0.0000 DITTLY AVERAGED DAILY HEADS (INCHES) .0002 0.0000 0.0000 0.0000 0.0000 .0000 0.0000 0.0000 0.0000 .0000 0.0000 0.0000 0.0000

Pescadito Landfill – Open Conditions Scanner's 7

Scenario B

AVERAGE ANNUAL TOTALS &	(STD. DEVIATIO	ONS) FOR YE	EARS 1 THROUG	SH 1		
	INCHES		CU. FEET	PERCENT		
PRECIPITATION			59169.0	100.00		
RUNOFF	0.000 (0.0000)	0.00	0.000		
EVAPOTRANSPIRATION	18.102 (0.0000)	65709.18	111.053		
DRAINAGE RECIRCULATED INTO LAYER 2	0.00686 (0.00000)	24.914	0.04211		
LATERAL DRAINAGE COLLECTED FROM LAYER 4	0.00000 (0.00000)	0.000	0.00000		
DRAINAGE RECIRCULATED FROM LAYER 4	0.00686 (0.00000)	24.914	0.04211		
PERCOLATION/LEAKAGE THROUGH LAYER 6	0.00000 (0.00000)	0.005	0.00001		
AVERAGE HEAD ON TOP OF LAYER 5	0.000 (0.000)				
CHANGE IN WATER STORAGE	-1.802 (0.0000)	-6540.19	-11.053		
******	*****	******	******	*****		

PEAK DAILY VALUES FOR YEARS	1 THROUGH	1
	(INCHES)	(CU. FT.)
PRECIPITATION	1.32	4791.600
RUNOFF	0.000	0.0000
DRAINAGE RECIRCULATED INTO LAYER 2	0.00201	7.30717
DRAINAGE COLLECTED FROM LAYER 4	0.00000	0.00000
DRAINAGE RECIRCULATED FROM LAYER 4	0.00201	7.30717
PERCOLATION/LEAKAGE THROUGH LAYER 6	0.000000	0.00006
AVERAGE HEAD ON TOP OF LAYER 5	0.002	
MAXIMUM HEAD ON TOP OF LAYER 5	0.003	7*

Technically Complete, March 11, 2016 Pescadito Landfill – Open Conditions Scenario B

LOCATION OF MAXIMUM HEAD IN LAYER 4 (DISTANCE FROM DRAIN) 203.3 FEET

SNOW WATER

0.00

0.0000

MAXIMUM VEG. SOIL WATER (VOL/VOL)

0.2345

MINIMUM VEG. SOIL WATER (VOL/VOL)

0.1840

Maximum heads are computed using McEnroe's equations. ***

Reference: Maximum Saturated Depth over Landfill Liner by Bruce M. McEnroe, University of Kansas ASCE Journal of Environmental Engineering

Vol. 119, No. 2, March 1993, pp. 262-270.

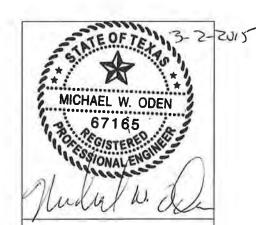
FINAL WATER STORAGE AT END OF YEAR

LAYER	(INCHES)	(VOL/VOL)	
1	1.5392	0.2565	
2	23.1320	0.1928	
3	9.8571	0.4107	
4	0.0026	0.0100	
5	0.0000	0.0000	
6	10.8240	0.4510	
SNOW WATER	0.000		

ATTACHMENT B TO APPENDIX III-D.6 HELP MODEL OUTPUTS

2. OPEN CONDITIONS

- A. LEACHATE COLLECTION SYSTEM CONFIGURATION A
- B. LEACHATE COLLECTION SYSTEM CONFIGURATION B
- C. LEACHATE COLLECTION SYSTEM CONFIGURATION C
- D. LEACHATE COLLECTION SYSTEM CONFIGURATION D



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Drainage Length: 461 FT

******************* * * * * * * * * HYDROLOGIC EVALUATION OF LANDFILL PERFORMANCE HELP MODEL VERSION 3.07 (1 NOVEMBER 1997) * * DEVELOPED BY ENVIRONMENTAL LABORATORY USAE WATERWAYS EXPERIMENT STATION ** * * FOR USEPA RISK REDUCTION ENGINEERING LABORATORY * * ****************************

C:\HELP3\pesc\PRECIP.D4 PRECIPITATION DATA FILE: C:\HELP3\pesc\TEMP.D7 TEMPERATURE DATA FILE: SOLAR RADIATION DATA FILE: C:\HELP3\pesc\SOL.D13 C:\HELP3\pesc\EVAP OPN.D11 EVAPOTRANSPIRATION DATA: SOIL AND DESIGN DATA FILE: C:\HELP3\pesc\OPEN C.D10 C:\HELP3\pesc\OPEN C.OUT OUTPUT DATA FILE:

2/ 5/2015 TIME: 7:59 DATE:

TITLE: PESCADITO-OPEN CONDITIONS

NOTE: INITIAL MOISTURE CONTENT OF THE LAYERS AND SNOW WATER WERE SPECIFIED BY THE USER.

LAYER 1

TYPE 1 - VERTICAL PERCOLATION LAYER MATERIAL TEXTURE NUMBER

6.00 INCHES THICKNESS 0.4520 VOL/VOL POROSITY =FIELD CAPACITY 0.4110 VOL/VOL 0.3110 VOL/VOL WILTING POINT INITIAL SOIL WATER CONTENT = 0.4110 VOL/VOL EFFECTIVE SAT. HYD. COND. = 0.999999975000E-05 CM/SEC

LAYER 2

TYPE 1 - VERTICAL PERCOLATION LAYER MATERIAL TEXTURE NUMBER 18

,		= 0	
THICKNESS	=	120.00 INCHES	
POROSITY	=	0.6710 VOL/VOL	
FIELD CAPACITY	=	0.2920 VOL/VOL	
WILTING POINT	=	0.0770 VOL/VOL	
INITIAL SOIL WATER CONTENT	=	0.2000 VOL/VOL	
EFFECTIVE SAT. HYD. COND.	=	0.100000005000E-02 CM/SEC	

NOTE: 100.00 PERCENT OF THE DRAINAGE COLLECTED FROM LAYER # 4

IS RECIRCULATED INTO THIS LAYER.

LAYER 3

TYPE 1 - VERTICAL PERCOLATION LAYER MATERIAL TEXTURE NUMBER 0

THICKNESS	=	24.00 INCHES
POROSITY	= 1	0.4510 VOL/VOL
FIELD CAPACITY	=	0.4110 VOL/VOL
WILTING POINT	=	0.3110 VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.4110 VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.999999975000E-05 CM/SEC

LAYER 4

TYPE 2 - LATERAL DRAINAGE LAYER MATERIAL TEXTURE NUMBER 0

	THICKNESS	=	0.26	INCHES	
	POROSITY	=	0.8500	AOT\AOT	
	FIELD CAPACITY	=	0.0100	VOL/VOL	
	WILTING POINT	=	0.0050	VOL/VOL	
	INITIAL SOIL WATER CONTENT	$i=i_{1}$	0.0100	VOL/VOL	
	EFFECTIVE SAT. HYD. COND.	=	3.71399999	9000	CM/SEC
	SLOPE	=	2.00	PERCENT	
	DRAINAGE LENGTH	=	461.0	FEET	
I	OTE: 100.00 PERCENT OF THE	DRA]	NAGE COLLEC	CTED FROM	THIS

LAYER IS RECIRCULATED INTO LAYER # 2.

LAYER 5

TYPE 4 - FLEXIBLE MEMBRANE LINER MATERIAL TEXTURE NUMBER 35

THICKNESS	=	0.06 INCHES
POROSITY	=	0.0000 VOL/VOL
FIELD CAPACITY	=	0.0000 VOL/VOL
WILTING POINT	=	0.0000 VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.0000 VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.199999996000E-12 CM/SEC
FML PINHOLE DENSITY	=	3.00 HOLES/ACRE
FML INSTALLATION DEFECTS	=	3.00 HOLES/ACRE
FML PLACEMENT QUALITY	=	3 - GOOD

LAYER 6

TYPE 3 - BARRIER SOIL LINER MATERIAL TEXTURE NUMBER 0

THICKNESS	=	24.00 INCHES
POROSITY	i=1	0.4510 VOL/VOL
FIELD CAPACITY	=	0.4110 VOL/VOL
WILTING POINT	=	0.3110 VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.4510 VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.100000001000E-06 CM/SEC

GENERAL DESIGN AND EVAPORATIVE ZONE DATA

NOTE: SCS RUNOFF CURVE NUMBER WAS USER-SPECIFIED.

SCS RUNOFF CURVE NUMBER	$\hat{x}_{i}=\hat{x}_{i}$	85.00	
FRACTION OF AREA ALLOWING RUNOFF	=	0.0	PERCENT
AREA PROJECTED ON HORIZONTAL PLANE		1.000	ACRES
EVAPORATIVE ZONE DEPTH	=	60.0	INCHES
INITIAL WATER IN EVAPORATIVE ZONE	=	13.266	INCHES
UPPER LIMIT OF EVAPORATIVE STORAGE	=	38.946	INCHES
LOWER LIMIT OF EVAPORATIVE STORAGE	=	6.024	INCHES
INITIAL SNOW WATER	i=i	0.000	INCHES
INITIAL WATER IN LAYER MATERIALS	$\hat{x}_i = \hat{x}_i$	47.157	INCHES
TOTAL INITIAL WATER	$\boldsymbol{x}_{i}=\boldsymbol{x}_{i}$	47.157	INCHES
TOTAL SUBSURFACE INFLOW	=	0.00	INCHES/YEAR

EVAPOTRANSPIRATION AND WEATHER DATA

NOTE: EVAPOTRANSPIRATION DATA WAS OBTAINED FROM BROWNSVILLE TEXAS

STATION LATITUDE = 27.34 DEGREES
MAXIMUM LEAF AREA INDEX = 0.00
START OF GROWING SEASON (JULIAN DATE) = 0
END OF GROWING SEASON (JULIAN DATE) = 367
EVAPORATIVE ZONE DEPTH = 60.0 INCHES
AVERAGE ANNUAL WIND SPEED = 11.60 MPH
AVERAGE 1ST QUARTER RELATIVE HUMIDITY = 76.00 %
AVERAGE 2ND QUARTER RELATIVE HUMIDITY = 75.00 %
AVERAGE 3RD QUARTER RELATIVE HUMIDITY = 74.00 %

NOTE: PRECIPITATION DATA WAS SYNTHETICALLY GENERATED USING COEFFICIENTS FOR BROWNSVILLE TEXAS

AVERAGE 4TH QUARTER RELATIVE HUMIDITY = 76.00 %

NORMAL MEAN MONTHLY PRECIPITATION (INCHES)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
0.82	0.86	0.88	1.37	2.65	2.68
1.93	2.29	3.09	2.41	1.07	0.91

NOTE: TEMPERATURE DATA WAS SYNTHETICALLY GENERATED USING COEFFICIENTS FOR BROWNSVILLE TEXAS

NORMAL MEAN MONTHLY TEMPERATURE (DEGREES FAHRENHEIT)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
56.50	61.00	68.80	76.00	82.00	86.50
87.90	87.90	82.90	75.40	65.50	57.70

NOTE: SOLAR RADIATION DATA WAS SYNTHETICALLY GENERATED USING

COEFFICIENTS FOR BROWNSVILLE TEXAS

AND STATION LATITUDE = 27.34 DEGREES

MONTHLY TOTAL	S (IN INC	CHES) FO	R YEAR	1		
					MAY/NOV	
PRECIPITATION	0.32	0.49	0.35 3.54	0.01	0.00 0.72	3.60 1.56
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	0.935 0.706	0.421 1.974	0.361 4.423	0.294 2.927	0.267 0.881	3.495 1.432
LATERAL DRAINAGE RECIRCULATED INTO LAYER 2	0.0054 0.0000	0.0009 0.0000	0.0004	0.0001	0.0000	0.0000
LATERAL DRAINAGE COLLECTED FROM LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LATERAL DRAINAGE RECIRCULATED FROM LAYER 4	0.0054 0.0000	0.0009 0.0000	0.0004	0.0001 0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 6	0.0000	0.0000	0.0000	0.0000		0.0000
MONTHLY SUMM						
AVERAGE DAILY HEAD ON TOP OF LAYER 5	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 5	0.000	0.000	0.000	0.000	0.000	0.000
*********	*****	*****	*****	*****	* * * * * * * *	*****
*******	*****	*****	*****	*****	*****	*****
ANNUA	L TOTALS	FOR YEAR	R 1			

PRECIPITATION

16.30

100.00

59169.004

RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	18.116	65760.953	111.14
RECIRCULATION INTO LAYER 2	0.006863	24.914	0.04
DRAINAGE COLLECTED FROM LAYER 4	0.0000	0.000	0.00
RECIRCULATION FROM LAYER 4	0.006863	24.914	0.04
PERC./LEAKAGE THROUGH LAYER 6	0.000001	0.004	0.00
AVG. HEAD ON TOP OF LAYER 5	0.0000		
CHANGE IN WATER STORAGE	-1.816	-6591.962	-11.14
SOIL WATER AT START OF YEAR	47.157	171178.500	
SOIL WATER AT END OF YEAR	45.341	164586.547	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.010	0.00

AVERAGE MONTHLY VALUES IN INCHES FOR YEARS 1 THROUGH

PRECIPITATION	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION						
TOTALS	0.32	0.49	0.35 3.54	0.01 2.89	0.00 0.72	3.60 1.56
STD. DEVIATIONS	0.00	0.00	0.00	0.00	0.00	0.00
RUNOFF						
TOTALS	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATIONS	0.000	0.000	0.000	0.000	0.000	0.000

1

EVAPOTRANSPIRATION								
TOTALS	0.935 0.706	0.421 1.974	0.361 4.423	0.294 2.927	0.267 0.881	3.495 1.432		
STD. DEVIATIONS	0.000	0.000	0.000	0.000	0.000	0.000		
LATERAL DRAINAGE RECIP	RCULATED IN	ro Layer	2					
TOTALS	0.0054 0.0000	0.0009	0.0004 0.0000	0.0001 0.0000	0.0000	0.0000		
STD. DEVIATIONS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
LATERAL DRAINAGE COLLE	ECTED FROM 1	LAYER 4						
TOTALS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
STD. DEVIATIONS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
LATERAL DRAINAGE RECI	RCULATED FRO	OM LAYER	4					
TOTALS	0.0054 0.0000	0.0009	0.0004 0.0000	0.0001	0.0000	0.0000		
STD. DEVIATIONS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
PERCOLATION/LEAKAGE TH	ROUGH LAYER	R 6						
TOTALS	0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
STD. DEVIATIONS			0.0000			0.0000		
AVERAGES	OF MONTHLY	AVERAGED	DAILY HEA	ADS (INCHI	 ES)			
DAILY AVERAGE HEAD ON TOP OF LAYER 5								
AVERAGES	0.0002		0.0000		0.0000			
STD. DEVIATIONS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		

Technically Complete, March 11, 2016 Pescadito Landfill – Open Conditions: Scenario C

AVERAGE ANNUAL TOTALS & (STD. DEVIATIONS) FOR YEARS 1 THROUGH 1 TINCHES CU. FEET PERCENT	0.00	00 0.000	0	0.0000	0.0000 0.00	0.0000	
AVERAGE ANNUAL TOTALS & (STD. DEVIATIONS) FOR YEARS	*****************						
TINCHES CU. FEET PERCENT	*******************						
PRECIPITATION 16.30 (0.000) 59169.0 100.00 RUNOFF 0.000 (0.0000) 0.00 0.000 EVAPOTRANSPIRATION 18.116 (0.0000) 65760.95 111.141 DRAINAGE RECIRCULATED 0.00686 (0.00000) 24.914 0.04211 INTO LAYER 2 LATERAL DRAINAGE COLLECTED 0.00000 (0.00000) 0.000 0.00000 FROM LAYER 4 DRAINAGE RECIRCULATED 0.00686 (0.00000) 24.914 0.04211 FROM LAYER 4 PERCOLATION/LEAKAGE THROUGH 0.00000 (0.00000) 0.004 0.00001 LAYER 6 AVERAGE HEAD ON TOP 0.000 (0.0000) -6591.96 -11.141 ********************************	AVERAGE ANNUAL TOTALS & (STD. DEVIATIONS) FOR YEARS 1 THROUGH 1						
RUNOFF 0.000 (0.0000) 0.00 0.000 EVAPOTRANSPIRATION 18.116 (0.0000) 65760.95 111.141 DRAINAGE RECIRCULATED 0.00686 (0.00000) 24.914 0.04211 INTO LAYER 2 LATERAL DRAINAGE COLLECTED 0.00000 (0.00000) 0.000 0.00000 FROM LAYER 4 DRAINAGE RECIRCULATED 0.00686 (0.00000) 24.914 0.04211 FROM LAYER 4 PERCOLATION/LEAKAGE THROUGH 0.00000 (0.00000) 0.004 0.00001 LAYER 6 AVERAGE HEAD ON TOP 0.000 (0.0000) 0.004 0.00001 CHANGE IN WATER STORAGE -1.816 (0.0000) -6591.96 -11.141 ********************************		INCHES			CU. FEET	PERCENT	
EVAPOTRANSPIRATION 18.116 (0.0000) 65760.95 111.141 DRAINAGE RECIRCULATED 0.00686 (0.00000) 24.914 0.04211 INTO LAYER 2 LATERAL DRAINAGE COLLECTED 0.00000 (0.00000) 0.000 0.00000 FROM LAYER 4 DRAINAGE RECIRCULATED 0.00686 (0.00000) 24.914 0.04211 FROM LAYER 4 PERCOLATION/LEAKAGE THROUGH 0.00000 (0.00000) 0.004 0.00001 LAYER 6 AVERAGE HEAD ON TOP 0.000 (0.0000) -6591.96 -11.141 ********************************	PRECIPITATION	16.30	(0.000)	59169.0	100.00	
DRAINAGE RECIRCULATED 1.00086 (0.00000) 24.914 0.04211 INTO LAYER 2 LATERAL DRAINAGE COLLECTED 0.00000 (0.00000) 0.0000 0.00000 FROM LAYER 4 DRAINAGE RECIRCULATED 0.00686 (0.00000) 24.914 0.04211 FROM LAYER 4 PERCOLATION/LEAKAGE THROUGH 0.00000 (0.00000) 0.004 0.00001 LAYER 6 AVERAGE HEAD ON TOP 0.000 (0.000) -6591.96 -11.141 ********************************	RUNOFF	0.000	(0.0000)	0.00	0.000	
INTO LAYER 2 LATERAL DRAINAGE COLLECTED	EVAPOTRANSPIRATION	18.116	(0.0000)	65760.95	111.141	
PROM LAYER 4 DRAINAGE RECIRCULATED		0.00686	(0.00000)	24.914	0.04211	
PERCOLATION/LEAKAGE THROUGH 0.00000 (0.00000) 0.004 0.00001 LAYER 6 AVERAGE HEAD ON TOP 0.000 (0.0000) -6591.96 -11.141 ********************************		0.00000	(0.00000)	0.000	0.00000	
AVERAGE HEAD ON TOP		0.00686	(0.00000)	24.914	0.04211	
CHANGE IN WATER STORAGE -1.816 (0.0000) -6591.96 -11.141 ********************************		0.00000	(0.00000)	0.004	0.00001	
**************************************		0.000 (0.000)			
PEAK DAILY VALUES FOR YEARS 1 THROUGH 1 (INCHES) (CU. FT.) PRECIPITATION 1.32 4791.600 RUNOFF 0.000 0.0000 DRAINAGE RECIRCULATED INTO LAYER 2 0.00211 7.64722 DRAINAGE COLLECTED FROM LAYER 4 0.00000 0.00000 DRAINAGE RECIRCULATED FROM LAYER 4 0.00211 7.64722	CHANGE IN WATER STORAGE	-1.816	(0.0000)	-6591.96	-11.141	
PEAK DAILY VALUES FOR YEARS 1 THROUGH 1 (INCHES) (CU. FT.) PRECIPITATION 1.32 4791.600 RUNOFF 0.000 0.0000 DRAINAGE RECIRCULATED INTO LAYER 2 0.00211 7.64722 DRAINAGE COLLECTED FROM LAYER 4 0.00000 0.00000 DRAINAGE RECIRCULATED FROM LAYER 4 0.00211 7.64722	******************						
(INCHES) (CU. FT.) PRECIPITATION 1.32 4791.600 RUNOFF 0.000 0.0000 DRAINAGE RECIRCULATED INTO LAYER 2 0.00211 7.64722 DRAINAGE COLLECTED FROM LAYER 4 0.00000 0.00000 DRAINAGE RECIRCULATED FROM LAYER 4 0.00211 7.64722	****************						
PRECIPITATION 1.32 4791.600 RUNOFF 0.000 0.0000 DRAINAGE RECIRCULATED INTO LAYER 2 0.00211 7.64722 DRAINAGE COLLECTED FROM LAYER 4 0.00000 0.00000 DRAINAGE RECIRCULATED FROM LAYER 4 0.00211 7.64722	PEAK DAILY VALUES FOR YEARS 1 THROUGH 1						
RUNOFF 0.000 0.0000 DRAINAGE RECIRCULATED INTO LAYER 2 0.00211 7.64722 DRAINAGE COLLECTED FROM LAYER 4 0.00000 0.00000 DRAINAGE RECIRCULATED FROM LAYER 4 0.00211 7.64722				(INCH	ES) (CU.	FT.)	
DRAINAGE RECIRCULATED INTO LAYER 2 0.00211 7.64722 DRAINAGE COLLECTED FROM LAYER 4 0.00000 0.00000 DRAINAGE RECIRCULATED FROM LAYER 4 0.00211 7.64722	PRECIPITATION		1.32	4791	4791.600		
DRAINAGE COLLECTED FROM LAYER 4 0.00000 0.00000 DRAINAGE RECIRCULATED FROM LAYER 4 0.00211 7.64722	RUNOFF		0.00	0 0	0.0000		
DRAINAGE RECIRCULATED FROM LAYER 4 0.00211 7.64722	DRAINAGE RECIRCULATED INTO LAYER 2		0.00	211 7	.64722		
	DRAINAGE COLLECTED FROM LAYER 4			0.00	000	0.0000	
PERCOLATION/LEAKAGE THROUGH LAYER 6 0.000000 0.00006	DRAINAGE RECIRCULATED FROM LAYER 4			0.00	211	.64722	
	PERCOLATION/LEAKAGE THROUGH LAYER 6 0.000000 0.00006						

AVERAGE HEAD ON TOP OF LAYER 5	0.002	
MAXIMUM HEAD ON TOP OF LAYER 5	0.005	
LOCATION OF MAXIMUM HEAD IN LAYER 4 (DISTANCE FROM DRAIN)	0.0 FEET	
SNOW WATER	0.00 0.	0000
MAXIMUM VEG. SOIL WATER (VOL/VOL)	0.2345	
MINIMUM VEG. SOIL WATER (VOL/VOL)	0.1838	

*** Maximum heads are computed using McEnroe's equations. ***

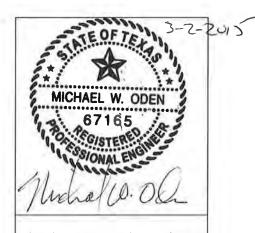
Reference: Maximum Saturated Depth over Landfill Liner by Bruce M. McEnroe, University of Kansas ASCE Journal of Environmental Engineering Vol. 119, No. 2, March 1993, pp. 262-270.

FI	NAL WATE	ER STORAGE AT	END OF YEAR	1
LA	AYER	(INCHES)	(VOL/VOL)
	1	1.5392	0.2565	_
	2	23.1177	0.1926	
	3	9.8571	0.4107	
	4	0.0026	0.0100	
	5	0.0000	0.0000	
	6	10.8240	0.4510	
SNOV	WATER	0.000		

ATTACHMENT B TO APPENDIX III-D.6 HELP MODEL OUTPUTS

2. OPEN CONDITIONS

- A. LEACHATE COLLECTION SYSTEM CONFIGURATION A
- B. LEACHATE COLLECTION SYSTEM CONFIGURATION B
- C. LEACHATE COLLECTION SYSTEM CONFIGURATION C
- D. LEACHATE COLLECTION SYSTEM CONFIGURATION D



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Pescadito Landfill - Open Conditions: Scenario D

Drainage Length: 614 FT

***************** ******************* * * * * ** HYDROLOGIC EVALUATION OF LANDFILL PERFORMANCE * * HELP MODEL VERSION 3.07 (1 NOVEMBER 1997) * * DEVELOPED BY ENVIRONMENTAL LABORATORY * * USAE WATERWAYS EXPERIMENT STATION * * FOR USEPA RISK REDUCTION ENGINEERING LABORATORY ** PRECIPITATION DATA FILE: C:\HELP3\pesc\PRECIP.D4

C:\HELP3\pesc\TEMP.D7 TEMPERATURE DATA FILE: SOLAR RADIATION DATA FILE: C:\HELP3\pesc\SOL.D13 EVAPOTRANSPIRATION DATA: C:\HELP3\pesc\EVAP OPN.D11 C:\HELP3\pesc\OPEN_d.D10 SOIL AND DESIGN DATA FILE: OUTPUT DATA FILE: C:\HELP3\pesc\OPEN d.OUT

2/ 5/2015 8: 3 DATE: TIME:

TITLE: PESCADITO-OPEN CONDITIONS

NOTE: INITIAL MOISTURE CONTENT OF THE LAYERS AND SNOW WATER WERE SPECIFIED BY THE USER.

LAYER 1

TYPE 1 - VERTICAL PERCOLATION LAYER MATERIAL TEXTURE NUMBER

THICKNESS 6.00 INCHES POROSITY = 0.4520 VOL/VOL FIELD CAPACITY 0.4110 VOL/VOL = 0.3110 VOL/VOL WILTING POINT =0.4110 VOL/VOL INITIAL SOIL WATER CONTENT =

EFFECTIVE SAT. HYD. COND. = 0.999999975000E-05 CM/SEC

LAYER 2

TYPE 1 - VERTICAL PERCOLATION LAYER MATERIAL TEXTURE NUMBER 18

THICKNESS 120.00 INCHES POROSITY 0.6710 VOL/VOL 0.2920 VOL/VOL FIELD CAPACITY WILTING POINT 0.0770 VOL/VOL =INITIAL SOIL WATER CONTENT = 0.2000 VOL/VOL

EFFECTIVE SAT. HYD. COND. = 0.10000005000E-02 CM/SEC 100.00 PERCENT OF THE DRAINAGE COLLECTED FROM LAYER # 4

IS RECIRCULATED INTO THIS LAYER.

LAYER 3 _____

TYPE 1 - VERTICAL PERCOLATION LAYER

MATERIAL TEXTURE NUMBER 0

24.00 INCHES THICKNESS = POROSITY 0.4510 VOL/VOL FIELD CAPACITY = 0.4110 VOL/VOL WILTING POINT 0.3110 VOL/VOL = 0.4110 VOL/VOL INITIAL SOIL WATER CONTENT =

EFFECTIVE SAT. HYD. COND. = 0.99999975000E-05 CM/SEC

LAYER 4

TYPE 2 - LATERAL DRAINAGE LAYER MATERIAL TEXTURE NUMBER 0

0.26 INCHES THICKNESS = POROSITY 0.8500 VOL/VOL FIELD CAPACITY 0.0100 VOL/VOL WILTING POINT 0.0050 VOL/VOL INITIAL SOIL WATER CONTENT = 0.0100 VOL/VOL

EFFECTIVE SAT. HYD. COND. 3.71399999000 CM/SEC

SLOPE = 2.00 PERCENT DRAINAGE LENGTH 614.0 FEET

NOTE: 100.00 PERCENT OF THE DRAINAGE COLLECTED FROM THIS LAYER IS RECIRCULATED INTO LAYER # 2.

LAYER 5

TYPE 4 - FLEXIBLE MEMBRANE LINER MATERIAL TEXTURE NUMBER 35

INCHES THICKNESS 0.06 POROSITY 0.0000 VOL/VOL

Technically Complete, March 11, 2016

Pescadito Landfill – Open Conditions: Scenario D

0.0000 VOL/VOL FIELD CAPACITY WILTING POINT = 0.0000 VOL/VOL 0.0000 VOL/VOL INITIAL SOIL WATER CONTENT =

EFFECTIVE SAT. HYD. COND. = 0.199999996000E-12 CM/SEC

FML PINHOLE DENSITY = 3.00 HOLES/ACRE FML INSTALLATION DEFECTS = 3.00 HOLES/ACRE

= 3 - GOOD FML PLACEMENT QUALITY

LAYER 6

TYPE 3 - BARRIER SOIL LINER MATERIAL TEXTURE NUMBER 0

THICKNESS = 24.00 INCHES =0.4510 VOL/VOL POROSITY FIELD CAPACITY 0.4110 VOL/VOL 0.3110 VOL/VOL WILTING POINT =INITIAL SOIL WATER CONTENT = 0.4510 VOL/VOL

EFFECTIVE SAT. HYD. COND. = 0.10000001000E-06 CM/SEC

GENERAL DESIGN AND EVAPORATIVE ZONE DATA _______

NOTE: SCS RUNOFF CURVE NUMBER WAS USER-SPECIFIED.

SCS RUNOFF CURVE NUMBER	=	85.00	
FRACTION OF AREA ALLOWING RUNOFF	=	0.0	PERCENT
AREA PROJECTED ON HORIZONTAL PLANE	=	1.000	ACRES
EVAPORATIVE ZONE DEPTH	=	60.0	INCHES
INITIAL WATER IN EVAPORATIVE ZONE	=	13.266	INCHES
UPPER LIMIT OF EVAPORATIVE STORAGE	=	38.946	INCHES
LOWER LIMIT OF EVAPORATIVE STORAGE	=	6.024	INCHES
INITIAL SNOW WATER	=	0.000	INCHES
INITIAL WATER IN LAYER MATERIALS	=	47.157	INCHES
TOTAL INITIAL WATER	=	47.157	INCHES
TOTAL SUBSURFACE INFLOW	=	0.00	INCHES/YEAR

EVAPOTRANSPIRATION AND WEATHER DATA

NOTE: EVAPOTRANSPIRATION DATA WAS OBTAINED FROM BROWNSVILLE TEXAS

STATION LATITUDE	=	27.34	DEGREES
MAXIMUM LEAF AREA INDEX	=	0.00	
START OF GROWING SEASON (JULIAN DATE)	=	0	
END OF GROWING SEASON (JULIAN DATE)	=	367	
EVAPORATIVE ZONE DEPTH	=	60.0	INCHES
AVERAGE ANNUAL WIND SPEED	i=0	11.60	MPH

Technically Complete, March 11, 2016 Pescadito Landfill - Open Conditions: Scenario D

AVERAGE 1ST QUARTER RELATIVE HUMIDITY = 76.00 % AVERAGE 2ND QUARTER RELATIVE HUMIDITY = 75.00 % AVERAGE 3RD QUARTER RELATIVE HUMIDITY = 74.00 % AVERAGE 4TH QUARTER RELATIVE HUMIDITY = 76.00 %

NOTE: PRECIPITATION DATA WAS SYNTHETICALLY GENERATED USING

COEFFICIENTS FOR BROWNSVILLE

NORMAL MEAN MONTHLY PRECIPITATION (INCHES)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	VON/YAM	JUN/DEC
0.82	0.86	0.88	1.37	2.65	2.68
1.93	2.29	3.09	2.41	1.07	0.91

NOTE: TEMPERATURE DATA WAS SYNTHETICALLY GENERATED USING COEFFICIENTS FOR BROWNSVILLE

NORMAL MEAN MONTHLY TEMPERATURE (DEGREES FAHRENHEIT)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	VON/YAM	JUN/DEC
56.50	61.00	68.80	76.00	82.00	86.50
87.90	87.90	82.90	75.40	65.50	57.70

NOTE: SOLAR RADIATION DATA WAS SYNTHETICALLY GENERATED USING

COEFFICIENTS FOR BROWNSVILLE

AND STATION LATITUDE = 27.34 DEGREES

MONTHLY TOTALS (IN INCHES) FOR YEAR

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.32	0.49	0.35 3.54	0.01 2.89	0.00 0.72	3.60 1.56
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	0.935 0.706	0.421 1.974	0.361 4.407	0.294 2.932	0.267 0.858	3.495 1.432

Technically Complete, March 11, 2016 Pescadito Landfill – Open Conditions: Scenario D

LATERAL DRAINAGE RECIRCULATED INTO LAYER 2	0.0048	0.0009 0.0000	0.0006 0.0000	0.0003 0.0000	0.0001 0.0000	0.0001 0.0000
LATERAL DRAINAGE COLLECTED FROM LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LATERAL DRAINAGE RECIRCULATED FROM LAYER 4	0.0048 0.0000	0.0009 0.0000	0.0006	0.0003	0.0001	0.0001
PERCOLATION/LEAKAGE THROUGH LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SIMMARIES FOR DAILY HEARS (INCHES)

MONTHLY	SUMMARIES	FOR	DAILY	HEADS	(INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 5	0.000	 0.000		0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 5		 0.000	 	0.000

ANNUAL TOTALS FOR YEAR 1

	INCHES	CU. FEET	PERCENT	
PRECIPITATION	16.30	59169.004	100.00	
RUNOFF	0.000	0.000	0.00	
EVAPOTRANSPIRATION	18.082	65637.367	110.93	
RECIRCULATION INTO LAYER 2	0.006863	24.911	0.04	
DRAINAGE COLLECTED FROM LAYER 4	0.0000	0.000	0.00	
RECIRCULATION FROM LAYER 4	0.006863	24.911	0.04	
PERC./LEAKAGE THROUGH LAYER 6	0.000002	0.007	0.00	
AVG. HEAD ON TOP OF LAYER 5	0.0000			
CHANGE IN WATER STORAGE	-1.782	-6468.416	-10.93	

SOIL WATER AT START OF YEAR	47.157	171178.500	
SOIL WATER AT END OF YEAR	45.375	164710.094	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.048	0.00

AVERAGE MONTHL	Y VALUES IN	I INCHES	FOR YEARS	1 THR	OUGH 1	
	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DE
PRECIPITATION						
TOTALS	0.32	0.49 2.82	0.35 3.54	0.01 2.89	0.00 0.72	3.60 1.56
STD. DEVIATIONS	0.00	0.00	0.00	0.00		0.00
RUNOFF						
TOTALS	0.000	0.000	0.000	0.000	0.000	0.00
STD. DEVIATIONS	0.000	0.000	0.000	0.000	0.000	0.00
VAPOTRANSPIRATION						
TOTALS	0.935 0.706		0.361 4.407		0.267 0.858	
STD. DEVIATIONS	0.000	0.000	0.000	0.000	0.000	0.00
ATERAL DRAINAGE RECI	RCULATED IN	ITO LAYER	. 2			
TOTALS	0.0048 0.0000	0.0009		0.0003 0.0000		
STD. DEVIATIONS	0.0000	0.0000		0.0000		

CB&I

March 2015

TOTALS	0.0000	0.0000	0.0000	0.0000	0.0000	
STD. DEVIATIONS	0.0000	0.0000	0.0000	0.0000	0.0000	
LATERAL DRAINAGE RECIR	CULATED FRO	OM LAYER	4			
TOTALS	0.0048	0.0009	0.0006 0.0000	0.0003 0.0000	0.0001	
STD. DEVIATIONS	0.0000	0.0000	0.0000	0.0000	0.0000	
PERCOLATION/LEAKAGE TH	ROUGH LAYE	₹ 6 				
TOTALS	0.0000	0.0000	0.0000	0.0000	0.0000	
STD. DEVIATIONS	0.0000	0.0000	0.0000	0.0000	0.0000	
AVERAGES DAILY AVERAGE HEAD ON	OF MONTHLY		DAILY HEA	ADS (INCHE	(S)	
AVERAGES	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000
114 114 1010	0.0000	0.0000	0.0000	0.0000	0.0000	
STD. DEVIATIONS	0.0000	0.0000	0.0000	0.0000	0.0000	
******	*****	*****	*****	*****	*****	*****
******	*****	*****	*****	*****	****	*****
AVERAGE ANNUAL TOTA	LS & (STD.	DEVIATIO	NS) FOR YE	CARS 1	THROUGH	1
	=	INCHES	w w w	CU. FEE	T 	PERCENT
PRECIPITATION	16.	30 (0.000)	59169	.0	100.00
RUNOFF	0.	.000 (0.0000)	C	.00	0.000
EVAPOTRANSPIRATION	18.	.082 (0.0000)	65637	.37	110.932
DRAINAGE RECIRCULATED	0.	00686 (0.00000)	24	.911	0.04210

INTO	LAYER	2

	LATERAL DRAINAGE COLLECTED FROM LAYER 4	0.00000	(0.00000)	0.000	0.00000
	DRAINAGE RECIRCULATED FROM LAYER 4	0.00686	(0.00000)	24.911	0.04210
	PERCOLATION/LEAKAGE THROUGH LAYER 6	0.00000	(0.00000)	0.007	0.00001
	AVERAGE HEAD ON TOP OF LAYER 5	0.000 (0.000)		
	CHANGE IN WATER STORAGE	-1.782	(0.0000)	-6468.42	-10.932
*	********	******	**	*****	*****	*****

PEAK DAILY VALUES FOR YEARS	1 THROUGH	1
	(INCHES)	(CU. FT.)
PRECIPITATION	1.32	4791.600
RUNOFF	0.000	0.0000
DRAINAGE RECIRCULATED INTO LAYER 2	0.00170	6.17618
DRAINAGE COLLECTED FROM LAYER 4	0.00000	0.00000
DRAINAGE RECIRCULATED FROM LAYER 4	0.00170	6.17618
PERCOLATION/LEAKAGE THROUGH LAYER 6	0.000000	0.00006
AVERAGE HEAD ON TOP OF LAYER 5	0.002	
MAXIMUM HEAD ON TOP OF LAYER 5	0.005	
LOCATION OF MAXIMUM HEAD IN LAYER 4 (DISTANCE FROM DRAIN)	O.O FEET	
SNOW WATER	0.00	0.0000
MAXIMUM VEG. SOIL WATER (VOL/VOL)	0.2	2345
MINIMUM VEG. SOIL WATER (VOL/VOL)	0.1	.841
*** Maximum heads are computed using	McEnroe's equat	ions. ***

Reference: Maximum Saturated Depth over Landfill Liner

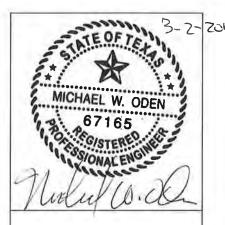
by Bruce M. McEnroe, University of Kansas ASCE Journal of Environmental Engineering Vol. 119, No. 2, March 1993, pp. 262-270.

*****	*****	****	*****	***	****	***	****	*****	*******	r
	FINAL	WATER	STORAGE	AT	END	OF	YEAR	1		

 LAYER	(INCHES)	(VOL/VOL)
1	1.5392	0.2565
2	23.1517	0.1929
3	9.8571	0.4107
4	0.0026	0.0100
5	0.0000	0.0000
6	10.8240	0.4510
SNOW WATER	0.000	

ATTACHMENT B TO APPENDIX III-D.6 HELP MODEL OUTPUTS

3. INTERMEDIATE CONDITIONS



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Technically Complete, May 6 4:12 30%6

Drainage Length: 461 FT

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******************
* *
                                                       * *
           HYDROLOGIC EVALUATION OF LANDFILL PERFORMANCE
                                                       **
             HELP MODEL VERSION 3.07 (1 NOVEMBER 1997)
              DEVELOPED BY ENVIRONMENTAL LABORATORY
                                                       * *
                USAE WATERWAYS EXPERIMENT STATION
           FOR USEPA RISK REDUCTION ENGINEERING LABORATORY
                                                       * *
C:\HELP3\pesc\PRECIP.D4
PRECIPITATION DATA FILE:
TEMPERATURE DATA FILE:
                    C:\HELP3\pesc\TEMP.D7
                    C:\HELP3\pesc\SOL.D13
SOLAR RADIATION DATA FILE:
EVAPOTRANSPIRATION DATA:
                    C:\HELP3\pesc\EVAP INT.D11
SOIL AND DESIGN DATA FILE:
                    C:\HELP3\pesc\INT.D10
OUTPUT DATA FILE:
                    C:\HELP3\pesc\INT.OUT
                  2/ 5/2015
TIME:
     8:28
            DATE:
***********************
   TITLE: Pescadito Intermediate Conditions
******************
   NOTE:
        INITIAL MOISTURE CONTENT OF THE LAYERS AND SNOW WATER
          WERE SPECIFIED BY THE USER.
```

LAYER 1

TYPE 1 - VERTICAL PERCOLATION LAYER MATERIAL TEXTURE NUMBER

THICKNESS	==	12.00 INCHES
POROSITY	=	0.4510 VOL/VOL
FIELD CAPACITY	=	0.4110 VOL/VOL
WILTING POINT	=	0.3110 VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.4110 VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.999999975000E-05 CM/SEC

LAYER 2 ------

TYPE 1 - VERTICAL PERCOLATION LAYER

Pescadito Landfill - Intermediate Conditions: Scenario A

MATERIAL TEXTURE NUMBER 18

THICKNESS 2280.00 INCHES POROSITY = 0.6710 VOL/VOL FIELD CAPACITY 0.2920 VOL/VOL 0.0770 VOL/VOL WILTING POINT = 0.1928 VOL/VOL INITIAL SOIL WATER CONTENT =

EFFECTIVE SAT. HYD. COND. = 0.100000005000E-02 CM/SEC

NOTE: 100.00 PERCENT OF THE DRAINAGE COLLECTED FROM LAYER # 4 IS RECIRCULATED INTO THIS LAYER.

LAYER 3 _____

TYPE 1 - VERTICAL PERCOLATION LAYER MATERIAL TEXTURE NUMBER 0

24.00 THICKNESS = INCHES 0.4510 VOL/VOL POROSITY = FIELD CAPACITY = 0.4110 VOL/VOL WILTING POINT = 0.3110 VOL/VOL INITIAL SOIL WATER CONTENT = 0.4109 VOL/VOL

EFFECTIVE SAT. HYD. COND. = 0.999999975000E-05 CM/SEC

LAYER 4

TYPE 2 - LATERAL DRAINAGE LAYER

MATERIAL TEXTURE NUMBER 0

THICKNESS =0.25 INCHES POROSITY = 0.8500 VOL/VOL FIELD CAPACITY =0.0100 VOL/VOL WILTING POINT = 0.0050 VOL/VOL 0.0100 VOL/VOL INITIAL SOIL WATER CONTENT = EFFECTIVE SAT. HYD. COND. = 3.8599990000 CM/SEC 2.50 PERCENT SLOPE DRAINAGE LENGTH 461.0 FEET

NOTE: 100.00 PERCENT OF THE DRAINAGE COLLECTED FROM THIS LAYER IS RECIRCULATED INTO LAYER # 2.

LAYER 5

TYPE 4 - FLEXIBLE MEMBRANE LINER MATERIAL TEXTURE NUMBER 35

THICKNESS 0.06 = INCHES 0.0000 VOL/VOL POROSITY =FIELD CAPACITY 0.0000 VOL/VOL = WILTING POINT = 0.0000 VOL/VOL INITIAL SOIL WATER CONTENT 0.0000 VOL/VOL

EFFECTIVE SAT. HYD. COND. = 0.199999996000E-12 CM/SEC

Pescadito Landfill - Intermediate Conditions: Scenario A

FML PINHOLE DENSITY	=	3.00	HOLES/ACRE
FML INSTALLATION DEFECTS	=	3.00	HOLES/ACRE
FML PLACEMENT QUALITY	= 3 -	GOOD	

LAYER 6

TYPE 3 - BARRIER SOIL LINER MATERIAL TEXTURE NUMBER 0

THICKNESS	=	24.00 INCHES
POROSITY	=	0.4510 VOL/VOL
FIELD CAPACITY	=	0.4110 VOL/VOL
WILTING POINT	=	0.3110 VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.4510 VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.100000001000E-06 CM/SEC

EFFECTIVE SAT. HYD. COND.

GENERAL DESIGN AND EVAPORATIVE ZONE DATA

NOTE: SCS RUNOFF CURVE NUMBER WAS USER-SPECIFIED.

SCS RUNOFF CURVE NUMBER	=	85.00	
FRACTION OF AREA ALLOWING RUNOFF	=	75.0	PERCENT
AREA PROJECTED ON HORIZONTAL PLANE	=	1.000	ACRES
EVAPORATIVE ZONE DEPTH	=	60.0	INCHES
INITIAL WATER IN EVAPORATIVE ZONE	=	14.186	INCHES
UPPER LIMIT OF EVAPORATIVE STORAGE	=	37.620	INCHES
LOWER LIMIT OF EVAPORATIVE STORAGE	=	7.428	INCHES
INITIAL SNOW WATER	=	0.000	INCHES
INITIAL WATER IN LAYER MATERIALS	=	465.204	INCHES
TOTAL INITIAL WATER	=	465.204	INCHES
TOTAL SUBSURFACE INFLOW	=	0.00	INCHES/YEAR

EVAPOTRANSPIRATION AND WEATHER DATA

NOTE: EVAPOTRANSPIRATION DATA WAS OBTAINED FROM BROWNSVILLE TEXAS

STATION LATITUDE	=	27.34	DEGREES				
MAXIMUM LEAF AREA INDEX	=	1.00					
START OF GROWING SEASON (JULIAN DATE) = 0							
END OF GROWING SEASON (JULIAN DATE)	=	367					
EVAPORATIVE ZONE DEPTH	=	60.0	INCHES				
AVERAGE ANNUAL WIND SPEED	=	11.60	MPH				
AVERAGE 1ST QUARTER RELATIVE HUMIDITY	=	76.00	%				
AVERAGE 2ND QUARTER RELATIVE HUMIDITY	=	75.00	90				
AVERAGE 3RD QUARTER RELATIVE HUMIDITY	=	74.00	엉				
AVERAGE 4TH QUARTER RELATIVE HUMIDITY	=	76.00	ଚ୍ଚ				

Technically Complete, March 11, 2016 Pescadito Landfill - Intermediate Conditions: Scenario A

NOTE: PRECIPITATION DATA WAS SYNTHETICALLY GENERATED USING

COEFFICIENTS FOR BROWNSVILLE

TEXAS

NORMAL MEAN MONTHLY PRECIPITATION (INCHES)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
0.82	0.86	0.88	1.37	2.65	2.68
1.93	2.29	3.09	2.41	1.07	0.91

NOTE: TEMPERATURE DATA WAS SYNTHETICALLY GENERATED USING COEFFICIENTS FOR BROWNSVILLE TEXAS

NORMAL MEAN MONTHLY TEMPERATURE (DEGREES FAHRENHEIT)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
56.50	61.00	68.80	76.00	82.00	86.50
87.90	87.90	82.90	75.40	65.50	57.70

NOTE: SOLAR RADIATION DATA WAS SYNTHETICALLY GENERATED USING

COEFFICIENTS FOR BROWNSVILLE

AND STATION LATITUDE = 27.34 DEGREES

MONTHLY TOTALS (IN INCHES) FOR YEAR

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.32	0.49 2.82	0.35 3.54	0.01	0.00 0.72	3.60 1.56
RUNOFF	0.000	0.000 0.231	0.000 0.544	0.000 0.473	0.000	1.474
EVAPOTRANSPIRATION	1.249 0.621	0.467 2.369	0.436 3.115	0.448	0.613 0.754	2.935 1.569
LATERAL DRAINAGE RECIRCULATED INTO LAYER 2	0.0043	0.0002 0.0000	0.0000	0.0000	0.0000	0.0000
LATERAL DRAINAGE COLLECTED FROM LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LATERAL DRAINAGE RECIRCULATED	0.0043	0.0002	0.0000	0.0000	0.0000	0.0000

Technically Complete, March 11, 2016 Pescadito Landfill – Intermediate Conditions: Scenario A

FROM LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 6		0.0000				

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 5	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 5	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 1

	INCHES	CU. FEET	PERCENT
PRECIPITATION	16.30		100.00
RUNOFF	2.722	9880.656	16.70
EVAPOTRANSPIRATION	17.074	61977.477	104.75
RECIRCULATION INTO LAYER 2	0.004464	16.203	0.03
DRAINAGE COLLECTED FROM LAYER 4	0.0000	0.000	0.00
RECIRCULATION FROM LAYER 4	0.004464	16.203	0.03
PERC./LEAKAGE THROUGH LAYER 6	0.000001	0.002	0.00
AVG. HEAD ON TOP OF LAYER 5	0.0000		
CHANGE IN WATER STORAGE	-3.496	-12689.048	-21.45
SOIL WATER AT START OF YEAR	465.204	1688690.870	
SOIL WATER AT END OF YEAR	461.708	1676001.870	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.082	0.00

*********************	****

3	*****						
	MONTHLY TOTALS						
		JAN/JUL				MAY/NOV	
	PRECIPITATION		2.53 1.46		0.01 3.49	4.17 0.29	3.37 0.94
	RUNOFF	0.000 0.252	0.128 0.019	0.359 2.315	0.000 0.671	2.145 0.000	1.293 0.000
	EVAPOTRANSPIRATION	0.036 0.792	1.535 1.147	2.110 5.027	0.120 2.390	1.384 0.876	2.709 0.933
	LATERAL DRAINAGE RECIRCULATED INTO LAYER 2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	LATERAL DRAINAGE COLLECTED FROM LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
)	LATERAL DRAINAGE RECIRCULATED FROM LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	PERCOLATION/LEAKAGE THROUGH LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	MONTHLY SUMMA	RIES FOR	DAILY H	 HEADS (IN	ICHES)		
	AVERAGE DAILY HEAD ON TOP OF LAYER 5	0.000	0.000	0.000	0.000	0.000	0.000
	STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 5	0.000	0.000	0.000	0.000	0.000	0.000
			1. 1. 1. 1. 1. 1. 1.		and the standard of the		and the facility of the standards

ANNUAL	TOTALS	FOR YEAR	R 2			
		INCHES		CU. FE	ET P	ERCENT
PRECIPITATION		26.18		95033.	414 1	00.00
RUNOFF		7.182	2	26072.	006	27.43
EVAPOTRANSPIRATION		19.060)	69186.	531	72.80
RECIRCULATION INTO LAYER 2		0.000	0000	0.0	000	0.00
DRAINAGE COLLECTED FROM LAYER	4	0.000	00	0.	000	0.00
RECIRCULATION FROM LAYER 4		0.000	0000	0.0	000	0.00
PERC./LEAKAGE THROUGH LAYER 6		0.000	0000	0.0	000	0.00
AVG. HEAD ON TOP OF LAYER 5		0.000	00			
CHANGE IN WATER STORAGE		-0.062	2	-225.	103	-0.24
SOIL WATER AT START OF YEAR		461.708	3	1676001.	870	
SOIL WATER AT END OF YEAR		461.646	5	1675776.	750	
SNOW WATER AT START OF YEAR		0.000)	0.0	000	0.00
SNOW WATER AT END OF YEAR		0.000)	0.0	000	0.00
ANNUAL WATER BUDGET BALANCE		0.000	00	-0.	019	0.00
*******	*****	*****	*****	*****	*****	*****
********	*****	*****	*****	*****	*****	*****
MONTHLY TOTALS	(IN IN	CHES) FOR	R YEAR	3		
		FEB/AUG				
PRECIPITATION	0.20 1.52	1.92 1.27				7.54 0.61
RUNOFF	0.000 0.081	0.348	0.000 0.670	0.000 0.094	0.110 0.000	2.926 0.000
EVAPOTRANSPIRATION	0.188 1.561	1.529 1.141	0.674 2.809			4.478 0.563

LATERAL DRAINAGE RECIRCULATED INTO LAYER 2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LATERAL DRAINAGE COLLECTED FROM LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LATERAL DRAINAGE RECIRCULATED FROM LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MONTHLY SUMMA	ARIES FOR	DAILY H	EADS (IN			
AVERAGE DAILY HEAD ON TOP OF LAYER 5	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 5	0.000	0.000	0.000	0.000	0.000	0.000

ANNIIAL	TOTALS	FOR	YEAR	3

	INCHES	CU. FEET	PERCENT
PRECIPITATION	19.30	70059.008	100.00
RUNOFF	4.229	15352.104	21.91
EVAPOTRANSPIRATION	14.868	53970.105	77.04
RECIRCULATION INTO LAYER 2	0.000000	0.000	0.00
DRAINAGE COLLECTED FROM LAYER 4	0.0000	0.000	0.00
RECIRCULATION FROM LAYER 4	0.000000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 6	0.000000	0.000	0.00
AVG. HEAD ON TOP OF LAYER 5	0.0000		
CHANGE IN WATER STORAGE	0.203	736.679	1.05
SOIL WATER AT START OF YEAR	461.646	1675776.750	

)=	SOIL WATER AT END OF YEAR		461.849)	1676513.	370	
	SNOW WATER AT START OF YEAR		0.000)	0.0	000	0.00
	SNOW WATER AT END OF YEAR		0.000)	0.0	000	0.00
	ANNUAL WATER BUDGET BALANCE		0.000	00	0.1	121	0.00
	*******	****	*****	*****	*****	*****	*****
	*******	****	******	*****	*****	*****	*****
	MONTHLY TOTALS	(IN IN	CHES) FOR	R YEAR	4		
		JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
	PRECIPITATION		1.72 0.80				
	RUNOFF	0.000 0.337	0.005 0.079	0.161 0.496	0.000 1.132	1.816	0.097 0.000
1	EVAPOTRANSPIRATION	1.066	1.915 0.742	1.267 3.441	0.223 2.370	3.387 0.387	0.926 1.151
	LATERAL DRAINAGE RECIRCULATED INTO LAYER 2	0.0000	0.0000	0.0000		0.0000	0.0000
	LATERAL DRAINAGE COLLECTED FROM LAYER 4	0.0000		0.0000		0.0000	0.0000
	LATERAL DRAINAGE RECIRCULATED FROM LAYER 4		0.0000			0.0000	0.0000
	PERCOLATION/LEAKAGE THROUGH LAYER 6		0.0000				
	MONTHLY SUMMA						
	AVERAGE DAILY HEAD ON TOP OF LAYER 5	0.000	0.000	0.000		0.000	
	STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 5	0.000		0.000		0.000	0.000

**************************** ********************** ANNUAL TOTALS FOR YEAR CU. FEET INCHES PERCENT 22.15 PRECIPITATION 80404.516 100.00 RUNOFF 4.123 14966.297 18.61 EVAPOTRANSPIRATION 18.120 65774.766 81.80 RECIRCULATION INTO LAYER 2 0.000000 0.000 0.00 DRAINAGE COLLECTED FROM LAYER 4 0.0000 0.000 0.00 RECIRCULATION FROM LAYER 4 0.000000 0.000 0.00 PERC./LEAKAGE THROUGH LAYER 6 0.000000 0.000 0.00 AVG. HEAD ON TOP OF LAYER 5 0.0000 CHANGE IN WATER STORAGE -0.093 -336.546 -0.42SOIL WATER AT START OF YEAR 461.849 1676513.370 SOIL WATER AT END OF YEAR 461.757 1676176.870 SNOW WATER AT START OF YEAR 0.000 0.000 0.00 SNOW WATER AT END OF YEAR 0.000 0.000 0.00 0.0000 ANNUAL WATER BUDGET BALANCE -0.003 0.00 ************************* ************************* MONTHLY TOTALS (IN INCHES) FOR YEAR JAN/JUL FEB/AUG MAR/SEP APR/OCT MAY/NOV JUN/DEC 0.77 0.26 1.35 0.00 PRECIPITATION 3.51 0.42 1.71 2.89 0.70 0.59 0.20 1.62

RUNOFF

0.000 0.000 0.106 0.000 1.403 0.000

0.184 0.151 0.666 0.000 0.000 0.000

Technically Complete, March 11, 2016 Pescadito Landfill – Intermediate Conditions: Scenario A

I CSCAUTO EATIO	iii iiiccriiic	culate conc	intions: Seci	idilo A		
EVAPOTRANSPIRATION	0.831 1.808	0.364 1.475	1.234 2.142	0.022 0.581	2.089	0.151 0.368
LATERAL DRAINAGE RECIRCULATED INTO LAYER 2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LATERAL DRAINAGE COLLECTED FROM LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LATERAL DRAINAGE RECIRCULATED FROM LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 6		0.0000	0.0000	0.0000		0.0000
MONTHLY SUMMA	RIES FOR		 EADS (IN	 CHES)		
AVERAGE DAILY HEAD ON TOP OF LAYER 5	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 5	0.000	0.000	0.000	0.000	0.000	0.000
*******	*****	*****	*****	*****	*****	****
*******	*****	*****	*****	*****	*****	*****
ANNUAL	TOTALS	FOR YEAR	5			
		INCHES		CU. FEE		RCENT
PRECIPITATION		14.02		50892.6		0.00

	INCHES	CU. FEET	PERCENT
PRECIPITATION	14.02	50892.621	100.00
RUNOFF	2.510	9110.605	17.90
EVAPOTRANSPIRATION	11.699	42466.410	83.44
RECIRCULATION INTO LAYER 2	0.000000	0.000	0.00
DRAINAGE COLLECTED FROM LAYER 4	0.0000	0.000	0.00
RECIRCULATION FROM LAYER 4	0.000000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 6	0.000000	0.000	0.00
AVG. HEAD ON TOP OF LAYER 5	0.0000		
CHANGE IN WATER STORAGE	-0.189	-684.391	-1.34

SOIL WATER AT START OF YEAR	461.757	1676176.870	
SOIL WATER AT END OF YEAR	461.568	1675492.500	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.000	0.00

ANNUAL WATER BUDGET BA	LANCE		0.0000		0.000	0.00
******	*****	*****	****	*****	*****	*****
******	*****	*****	*****	*****	*****	*****
AVERAGE MONTHLY	VALUES IN	I INCHES	FOR YEARS	1 THR	OUGH 5	
	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION						
TOTALS	0.47 1.16		1.09 4.26	0.05 2.21	2.84 0.44	
STD. DEVIATIONS	0.43 0.70	0.97 0.75	0.57 1.72	0.10 1.43	2.13 0.21	2.81 0.53
RUNOFF						
TOTALS	0.000 0.171		0.125 0.938	0.000 0.474	1.095 0.000	1.158 0.000
STD. DEVIATIONS	0.000 0.134	0.151 0.096	0.148 0.773	0.000 0.459	0.986 0.000	1.195 0.000
EVAPOTRANSPIRATION						
TOTALS	0.674 1.205	1.162 1.375	1.144 3.307	0.166 1.685	1.737 0.552	2.240 0.917
STD. DEVIATIONS	0.537 0.501	0.700 0.613	0.648 1.075			
LATERAL DRAINAGE RECIR	CULATED IN	ITO LAYER	. 2			
TOTALS	0.0009	0.0000	0.0000	0.0000		
STD. DEVIATIONS	0.0019 0.0000	0.0001 0.0000				

LATERAL DRAINAGE COLLEC	TED FROM	LAYER 4				
TOTALS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
STD. DEVIATIONS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LATERAL DRAINAGE RECIRC	ULATED FRO	OM LAYER	4			
TOTALS	0.0009	0.0000	0.0000	0.0000	0.0000	0.0000
STD. DEVIATIONS	0.0019 0.0000	0.0001	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THE	OUGH LAYE	R 6				
TOTALS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
STD. DEVIATIONS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
AVERAGES C	F MONTHLY	AVERAGED	DAILY HEA	ADS (INCHI	ES)	
DAILY AVERAGE HEAD ON T	OP OF LAYI	ER 5				

AVERAGES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
STD. DEVIATIONS	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

AVERAGE ANNUAL TOTALS &	(STD. DEVIATIONS) FOR Y	EARS 1 THROUGH 5	
	INCHES	CU. FEET PERCENT	
PRECIPITATION	19.59 (4.794)	71111.7 100.00	_
RUNOFF	4.153 (1.8663)	15076.33 21.201	
EVAPOTRANSPIRATION	16.164 (2.9435)	58675.06 82.511	

Technically Complete, March 11, 2016 Pescadito Landfill – Intermediate Conditions: Scenario A

DRAINAGE RECIRCULATED INTO LAYER 2	0.00089 (0.00200)	3.241	0.00456
LATERAL DRAINAGE COLLECTED FROM LAYER 4	0.00000 (0.00000)	0.000	0.00000
DRAINAGE RECIRCULATED FROM LAYER 4	0.00089 (0.00200)	3.241	0.00456
PERCOLATION/LEAKAGE THROUGH LAYER 6	0.00000 (0.00000)	0.000	0.00000
AVERAGE HEAD ON TOP OF LAYER 5	0.000 (0.000)		
CHANGE IN WATER STORAGE	-0.727 (1.5544)	-2639.68	-3.712
*******	*****	*****	*****	*****

PEAK DAILY VALUES FOR YEARS	1 THROUGH	5
	(INCHES)	(CU. FT.)
PRECIPITATION	2.72	9873.601
RUNOFF	1.654	6003.0620
DRAINAGE RECIRCULATED INTO LAYER 2	0.00163	5.90765
DRAINAGE COLLECTED FROM LAYER 4	0.00000	0.00000
DRAINAGE RECIRCULATED FROM LAYER 4	0.00163	5.90765
PERCOLATION/LEAKAGE THROUGH LAYER 6	0.000000	0.00004
AVERAGE HEAD ON TOP OF LAYER 5	0.001	
MAXIMUM HEAD ON TOP OF LAYER 5	0.009	
LOCATION OF MAXIMUM HEAD IN LAYER 4 (DISTANCE FROM DRAIN)	O.O FEET	
SNOW WATER	0.00	0.0000
MAXIMUM VEG. SOIL WATER (VOL/VOL)	0.2	364
MINIMUM VEG. SOIL WATER (VOL/VOL)	0.1	744

Pescadito Landfill - Intermediate Conditions: Scenario A

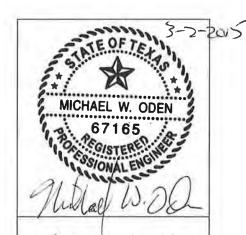
*** Maximum heads are computed using McEnroe's equations.

Reference: Maximum Saturated Depth over Landfill Liner by Bruce M. McEnroe, University of Kansas ASCE Journal of Environmental Engineering Vol. 119, No. 2, March 1993, pp. 262-270.

FINAL WATER	STORAGE AT	END OF YEAR 5
LAYER	(INCHES)	(VOL/VOL)
1	3.3576	0.2798
2	437.5269	0.1919
3	9.8571	0.4107
4	0.0025	0.0100
5	0.0000	0.0000
6	10.8240	0.4510
SNOW WATER	0.000	

ATTACHMENT B TO APPENDIX III-D.6 HELP MODEL OUTPUTS

4. CLOSED CONDITIONS



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Pescadito Landfill - Closed Conditions: Scenario A

Drainage Length: 614 FT

******************** ******************* ** * * HYDROLOGIC EVALUATION OF LANDFILL PERFORMANCE * * HELP MODEL VERSION 3.07 (1 NOVEMBER 1997) DEVELOPED BY ENVIRONMENTAL LABORATORY * * USAE WATERWAYS EXPERIMENT STATION ** FOR USEPA RISK REDUCTION ENGINEERING LABORATORY * * ****************** C:\HELP3\pesc\PRECIP.D4 PRECIPITATION DATA FILE: TEMPERATURE DATA FILE: C:\HELP3\pesc\TEMP.D7 C:\HELP3\pesc\SOL.D13 SOLAR RADIATION DATA FILE: EVAPOTRANSPIRATION DATA: C:\HELP3\pesc\EVAP CL.D11 SOIL AND DESIGN DATA FILE: C:\HELP3\pesc\CLS A.D10 OUTPUT DATA FILE: C:\HELP3\pesc\cls a.OUT 2/ 6/2015 TIME: 9:29 DATE: ************************* TITLE: Pescadito Closed Conditions **************** NOTE: INITIAL MOISTURE CONTENT OF THE LAYERS AND SNOW WATER WERE SPECIFIED BY THE USER. LAYER 1 TYPE 1 - VERTICAL PERCOLATION LAYER MATERIAL TEXTURE NUMBER

THICKNESS 7.00 INCHES 0.4510 VOL/VOL POROSITY =0.4110 VOL/VOL FIELD CAPACITY 0.3110 VOL/VOL WILTING POINT =INITIAL SOIL WATER CONTENT = 0.4110 VOL/VOL

EFFECTIVE SAT. HYD. COND. = 0.999999975000E-05 CM/SEC

LAYER 2 _____

TYPE 1 - VERTICAL PERCOLATION LAYER MATERIAL TEXTURE NUMBER

THICKNESS	=	30.00 INCHES
POROSITY	=	0.4510 VOL/VOL
FIELD CAPACITY	=	0.4110 VOL/VOL
WILTING POINT	=	0.3110 VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.4110 VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.999999975000E-05 CM/SEC

LAYER 3

TYPE 1 - VERTICAL PERCOLATION LAYER MATERIAL TEXTURE NUMBER 18

		1 111 01(11	TOTAL TO	
THICKNESS		=	4560.00	INCHES
POROSITY		=	0.6710	AOT\AOT
FIELD CAPACITY	7	=	0.2920	AOT\AOT
WILTING POINT		=	0.0770	VOT./VOT.

INITIAL SOIL WATER CONTENT = 0.1919 VOL/VOL

EFFECTIVE SAT. HYD. COND. = 0.10000005000E-02 CM/SEC NOTE: 100.00 PERCENT OF THE DRAINAGE COLLECTED FROM LAYER # 5 IS RECIRCULATED INTO THIS LAYER.

LAYER 4

TYPE 1 - VERTICAL PERCOLATION LAYER MATERIAL TEXTURE NUMBER 0

THICKNESS	=	24.00 INCHES
POROSITY	=	0.4510 VOL/VOL
FIELD CAPACITY	=	0.4110 VOL/VOL
WILTING POINT	=	0.3110 VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.4107 VOL/VOL

EFFECTIVE SAT. HYD. COND. = 0.999999975000E-05 CM/SEC

LAYER 5

TYPE 2 - LATERAL DRAINAGE LAYER MATERIAL TEXTURE NUMBER 0

THICKNESS	=	0.24 INCHES
POROSITY	=	0.8500 VOL/VOL
FIELD CAPACITY	=	0.0100 VOL/VOL
WILTING POINT	=	0.0050 VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.0100 VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	4.10099983000 CM/SEC
		0 50 55555

SLOPE = 2.50 PERCENT DRAINAGE LENGTH = 461.0 FEET

NOTE: 100.00 PERCENT OF THE DRAINAGE COLLECTED FROM THIS LAYER IS RECIRCULATED INTO LAYER # 3.

LAYER 6

TYPE 4 - FLEXIBLE MEMBRANE LINER MATERIAL TEXTURE NUMBER 35

THICKNESS	=	0.06 INCHES
POROSITY	=	0.0000 VOL/VOL
FIELD CAPACITY	$\dot{t}=0$	0.0000 VOL/VOL
WILTING POINT	=	0.0000 VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.0000 VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.199999996000E-12 CM/SEC
FML PINHOLE DENSITY	=	3.00 HOLES/ACRE
FML INSTALLATION DEFECTS	=	3.00 HOLES/ACRE

LAYER 7 _____

FML PLACEMENT QUALITY = 3 - GOOD

TYPE 3 - BARRIER SOIL LINER MATERIAL TEXTURE NUMBER 0

THICKNESS	=	24.00 INCHES
POROSITY	=	0.4510 VOL/VOL
FIELD CAPACITY	=	0.4110 VOL/VOL
WILTING POINT	=	0.3110 VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.4510 VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.100000001000E-06 CM/SEC

GENERAL DESIGN AND EVAPORATIVE ZONE DATA

NOTE: SCS RUNOFF CURVE NUMBER WAS USER-SPECIFIED.

SCS RUNOFF CURVE NUMBER	=	85.00	
FRACTION OF AREA ALLOWING RUNOFF	=	100.0	PERCENT
AREA PROJECTED ON HORIZONTAL PLANE	=	1.000	ACRES
EVAPORATIVE ZONE DEPTH	=	60.0	INCHES
INITIAL WATER IN EVAPORATIVE ZONE	=	19.621	INCHES
UPPER LIMIT OF EVAPORATIVE STORAGE	=	32.120	INCHES
LOWER LIMIT OF EVAPORATIVE STORAGE	=	13.278	INCHES
INITIAL SNOW WATER	=	0.000	INCHES
INITIAL WATER IN LAYER MATERIALS	=	910.954	INCHES
TOTAL INITIAL WATER	=	910.954	INCHES
TOTAL SUBSURFACE INFLOW	=	0.00	INCHES/YEAR

EVAPOTRANSPIRATION AND WEATHER DATA

NOTE: EVAPOTRANSPIRATION DATA WAS OBTAINED FROM

TEXAS BROWNSVILLE

STATION LATITUDE = 27.34 DEGREES

= 2.00 MAXIMUM LEAF AREA INDEX START OF GROWING SEASON (JULIAN DATE) = 0 END OF GROWING SEASON (JULIAN DATE) = 367 EVAPORATIVE ZONE DEPTH = 60.0 INCHES = 11.60 MPH AVERAGE ANNUAL WIND SPEED AVERAGE 1ST QUARTER RELATIVE HUMIDITY = 76.00 % AVERAGE 2ND QUARTER RELATIVE HUMIDITY = 75.00 % AVERAGE 3RD QUARTER RELATIVE HUMIDITY = 74.00 % AVERAGE 4TH QUARTER RELATIVE HUMIDITY = 76.00 %

NOTE: PRECIPITATION DATA WAS SYNTHETICALLY GENERATED USING

COEFFICIENTS FOR BROWNSVILLE

NORMAL MEAN MONTHLY PRECIPITATION (INCHES)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
0.82	0.86	0.88	1.37	2.65	2.68
1.93	2.29	3.09	2.41	1.07	0.91

NOTE: TEMPERATURE DATA WAS SYNTHETICALLY GENERATED USING COEFFICIENTS FOR BROWNSVILLE

NORMAL MEAN MONTHLY TEMPERATURE (DEGREES FAHRENHEIT)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
56.50	61.00	68.80	76.00	82.00	86.50
87.90	87.90	82.90	75.40	65.50	57.70

NOTE: SOLAR RADIATION DATA WAS SYNTHETICALLY GENERATED USING

COEFFICIENTS FOR BROWNSVILLE

TEXAS

AND STATION LATITUDE = 27.34 DEGREES

************* MONTHLY TOTALS (IN INCHES) FOR YEAR JAN/JUL FEB/AUG MAR/SEP APR/OCT MAY/NOV JUN/DEC

0.32 0.49 0.35 0.01 0.00 3.60 2.82 3.54 2.89 0.72 1.56 0.00

PRECIPITATION

Pescadito Landfill – Closed Conditions: Scenario A							
RUNOFF	0.000	0.000 0.141	0.000 0.693	0.000 0.606	0.000	1.546	
EVAPOTRANSPIRATION	1.450	2.294 2.452	2.714 2.926	0.900	0.000 0.681	2.054 1.548	
LATERAL DRAINAGE RECIRCULATED INTO LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
LATERAL DRAINAGE COLLECTED FROM LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
LATERAL DRAINAGE RECIRCULATED FROM LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)							
AVERAGE DAILY HEAD ON TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000	
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000	
*********	*****	*****	*****	*****	*****	*****	
		++++++	++++++	++++++	++++++	++++++	

MINIOAL	TOTALS	FOR	ILAK	Τ.
		INC	CHES	

	INCHES	CU. FEET	PERCENT
PRECIPITATION	16.30	59169.004	100.00
RUNOFF	2.987	10841.753	18.32
EVAPOTRANSPIRATION	19.404	70436.203	119.04
RECIRCULATION INTO LAYER 3	0.000000	0.000	0.00
DRAINAGE COLLECTED FROM LAYER 5	0.0000	0.000	0.00
RECIRCULATION FROM LAYER 5	0.00000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7	0.00000	0.000	0.00
AVG. HEAD ON TOP OF LAYER 6	0.0000		

CHANGE IN WATER STORAGE		-6.093	L	-22109.0	014 -3	37.37
SOIL WATER AT START OF YEAR		910.95	1	3306763.	500	
SOIL WATER AT END OF YEAR		904.864	1	3284654.	500	
SNOW WATER AT START OF YEAR		0.000) ;:	0.0	000	0.00
SNOW WATER AT END OF YEAR		0.000)	0.0	000	0.00
ANNUAL WATER BUDGET BALANCE		0.000	00	0.0	058	0.00
*********	*****	*****	*****	****	****	*****
*******	*****	*****	*****	****	****	*****
MONTHLY TOTALS	G (IN INC	CHES) FOR	R YEAR	2		
	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.00 1.02	2.53 1.46	1.70 7.20	0.01 3.49	4.17 0.29	3.37 0.94
RUNOFF	0.000	0.138	0.436	0.000	2.807	1.676
	0.317	0.000	3.067	0.933	0.000	0.000
EVAPOTRANSPIRATION	0.096 0.703	1.519 1.178	2.070 4.415	0.077 1.922	0.890 0.925	2.166 0.799
LATERAL DRAINAGE RECIRCULATED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
INTO LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LATERAL DRAINAGE COLLECTED FROM LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LATERAL DRAINAGE RECIRCULATED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
FROM LAYER 5	0.0000	0.0000	0.0000			0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0000	0.0000	0.0000			0.0000
MONTHLY SUMMA	ARIES FOR	 R DAILY H	HEADS (II	 NCHES)		
AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000
TOP OF LAYER 6		0.000				0.000

)	STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 6				0.000		
	********	*****	*****	*****	*****	*****	*****
	*******	*****	*****	*****	*****	*****	*****
ANNUAL TOTALS FOR YEAR 2							
			INCHES		CU. FE		ERCENT
	PRECIPITATION		26.18		95033.		00.00
	RUNOFF		9.375	5	34030.	039	35.81
	EVAPOTRANSPIRATION		16.761	L	60843.	480	64.02
	RECIRCULATION INTO LAYER 3		0.000	0000	0.	000	0.00
	DRAINAGE COLLECTED FROM LAYER	5	0.000	00	0.	000	0.00
	RECIRCULATION FROM LAYER 5		0.000	0000	0.	000	0.00
	PERC./LEAKAGE THROUGH LAYER 7	•	0.000	0000	0.	000	0.00
	AVG. HEAD ON TOP OF LAYER 6		0.000	00			
ì	CHANGE IN WATER STORAGE		0.044	1	159.	965	0.17
	SOIL WATER AT START OF YEAR		904.864	ł	3284654.	500	
	SOIL WATER AT END OF YEAR		904.908	3	3284814.	500	
	SNOW WATER AT START OF YEAR		0.000)	0.	000	0.00
	SNOW WATER AT END OF YEAR		0.000)	0.	000	0.00
	ANNUAL WATER BUDGET BALANCE		0.000	00	-0.	069	0.00
	*********	*****	******	*****	*****	*****	*****
	*********	*****	******	*****	*****	*****	*****
	MONTHLY TOTALS	(IN INC	CHES) FOR	R YEAR	3		
					APR/OCT		JUN/DEC
	PRECIPITATION				0.00 0.62		
	RUNOFF	0.000	0.411	0.000	0.000	0.153	3.852

r escaulto La	illullii Clos	sea conditi	ons. Scenar	10 A				
	0.048	0.000	0.766	0.118	0.000	0.000		
EVAPOTRANSPIRATION	0.290 1.446	1.546 1.168	0.643 2.696	0.000 0.549	1.167 0.157	3.687 0.538		
LATERAL DRAINAGE RECIRCULATED INTO LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
LATERAL DRAINAGE COLLECTED FROM LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
LATERAL DRAINAGE RECIRCULATED FROM LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)								
AVERAGE DAILY HEAD ON TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000		
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000		
*********	*****	*****	*****	*****	*****	*****		

ANNUAL TOTALS FOR YEAR	3
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حسابية فللباب فوقفه والمرافق فوسيا فيترفي والمرافية والمراب فيرق وربي فيقافوها فقافوه والموافق والمرافية والمرافق	والمراجعة والمتعارف والمتعارف المتعارض المتعارف المتعارف المتعارف المتعارف والمتعارف و	فتحاصر كالمتعامل فتنافيها بالمتعاصر موالاتها للوا	
	INCHES	CU. FEET	PERCENT
PRECIPITATION	19.30	70059.008	100.00
RUNOFF	5.348	19414.209	27.71
EVAPOTRANSPIRATION	13.887	50408.910	71.95
RECIRCULATION INTO LAYER 3	0.00000	0.000	0.00
DRAINAGE COLLECTED FROM LAYER 5	0.0000	0.000	0.00
RECIRCULATION FROM LAYER 5	0.000000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7	0.00000	0.000	0.00
AVG. HEAD ON TOP OF LAYER 6	0.0000		

CHANGE IN WATER STORAGE		0.06	5	235.	737	0.34
SOIL WATER AT START OF YEAR		904.908	3	3284814.	500	
SOIL WATER AT END OF YEAR		904.973	3	3285050.2	250	
SNOW WATER AT START OF YEAR		0.00)	0.0	000	0.00
SNOW WATER AT END OF YEAR		0.000	0	0.0	000	0.00
ANNUAL WATER BUDGET BALANCE		0.00	00	0.3	154	0.00
******	*****	*****	*****	*****	* * * * * * * *	*****
*******	*****	*****	*****	*****	****	*****
MONTHLY TOTAL						
				APR/OCT		JUN/DEC
	1 06	1 70	1 10	0.00	F 00	1 00
PRECIPITATION	1.57		4.29	0.22 3.33		1.02
RUNOFF	0.000	0.012	0.183		2.389	0.125
	0.421	0.082	0.586	1.516	0.000	0.000
EVAPOTRANSPIRATION	0.979 1.205	1.994 0.718	1.237 3.249	0.203 1.631	2.828 0.853	0.839 0.884
TAMEDAT DRAINAGE DEGIDOULAMED	0 0000	0 0000	0 0000	0 0000	0.0000	0.0000
LATERAL DRAINAGE RECIRCULATED INTO LAYER 3	0.0000	0.0000	0.0000	0.0000		0.0000
LATERAL DRAINAGE COLLECTED		0.0000			0.0000	
FROM LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LATERAL DRAINAGE RECIRCULATED FROM LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LAYER 7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MONTHLY SUMM						
AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000
TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000

HEAD ON TOP OF LAYER 6 0.000 0.000 0.000 0.000 0.000 0.000

	INCHES	CU. FEET	PERCENT
PRECIPITATION	22.15	80404.516	100.00
RUNOFF	5.313	19287.629	23.99
EVAPOTRANSPIRATION	16.620	60330.008	75.03
RECIRCULATION INTO LAYER 3	0.000000	0.000	0.00
DRAINAGE COLLECTED FROM LAYER 5	0.0000	0.000	0.00
RECIRCULATION FROM LAYER 5	0.000000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7	0.000000	0.000	0.00
AVG. HEAD ON TOP OF LAYER 6	0.0000		
CHANGE IN WATER STORAGE	0.217	786.973	0.98
SOIL WATER AT START OF YEAR	904.973	3285050.250	25
SOIL WATER AT END OF YEAR	905.189	3285837.250	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.097	0.00
*********	*****	*****	*****

MONTHLY TOTALS (IN INCHES) FOR YEAR 5

JAN/JUL FEB/AUG MAR/SEP APR/OCT MAY/NOV JUN/DEC

)	PRECIPITATION	0.77 1.71	0.26 1.62	1.35 2.89	0.00 0.70	3.51 0.59	0.42 0.20
	RUNOFF	0.000 0.211	0.000 0.176	0.070 0.805	0.000	1.882	
	EVAPOTRANSPIRATION	1.036 1.733	0.416 1.488	1.281 2.047	0.000 0.464	1.628 0.703	
	LATERAL DRAINAGE RECIRCULATED INTO LAYER 3	0.0000	0.0000	0.0000	0.0000	0.000	
	LATERAL DRAINAGE COLLECTED FROM LAYER 5	0.0000	0.0000	0.0000	0.0000	0.000	
	LATERAL DRAINAGE RECIRCULATED FROM LAYER 5	0.0000	0.0000	0.0000	0.0000	0.000	
	PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0000	0.0000	0.0000	0.0000	0.000	
	MONTHLY SUMMA	RIES FOR	DAILY H	EADS (IN	CHES)		
)	AVERAGE DAILY HEAD ON TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000
	STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000
	*******	*****	*****	*****	*****	*****	*****
	******	*****	*****	*****	****	*****	*****
	ANNUAL	TOTALS	FOR YEAR	5			
			INCHES		CU. FEE		PERCENT
	PRECIPITATION		14.02		50892.6		100.00
	RUNOFF		3.144		11411.5	56	22.42
	EVAPOTRANSPIRATION		11.298		41013.43	30	80.59
	RECIRCULATION INTO LAYER 3		0.000	000	0.0	00	0.00
	DRAINAGE COLLECTED FROM LAYER	5	0.000	0	0.00	00	0.00

RECIRCULATION FROM LAYER 5

0.000000

0.00

<u>Pescadito La</u>	indfill – Clo	sed Conditi	ions: Scena	rio A			
PERC./LEAKAGE THROUGH LAYER 7	7	0.00	0000	0.0	000	0.00	
AVG. HEAD ON TOP OF LAYER 6		0.00	00				
CHANGE IN WATER STORAGE		-0.42	2	-1532.5	514 -	-3.01	
SOIL WATER AT START OF YEAR		905.18	9 :	3285837.2	250		
SOIL WATER AT END OF YEAR		904.76	7	3284304.	750		
SNOW WATER AT START OF YEAR		0.000	0	0.0	000	0.00	
SNOW WATER AT END OF YEAR		0.000	0	0.0	000	0.00	
ANNUAL WATER BUDGET BALANCE		0.000	00	0.1	151	0.00	
******	*****	****	*****	*****	*****	*****	
********	*****	****	*****	*****	*****	*****	
MONTHLY TOTALS	G (IN INC	CHES) FOI	R YEAR	6			
				,			
				APR/OCT		JUN/DEC	
PRECIPITATION				2.86			
RUNOFF				1.685 1.593			

)	PRECIPITATION	0.88 1.61	1.39 2.56	0.71 4.85	2.86 3.49	0.19 1.70	4.18 0.85
	RUNOFF	0.041 0.495	0.398 0.568	0.000 1.881	1.685 1.593	0.000 0.572	2.397
	EVAPOTRANSPIRATION	0.350 1.407	1.480 1.817	0.710 2.712	1.175 2.290	0.190 0.847	1.491 0.925
	LATERAL DRAINAGE RECIRCULATED INTO LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	LATERAL DRAINAGE COLLECTED FROM LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	LATERAL DRAINAGE RECIRCULATED FROM LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

)	AVERAGE DAILY HEAD ON TOP OF LAYER 6	0.000	0.000	0.000		0.000	0.000
	STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 6	0.000	0.000	0.000		0.000	0.000
	*******	*****	*****	*****	*****	*****	*****
	******	*****	*****	*****	*****	*****	*****
	ANNUAI	TOTALS	FOR YEAR	₹ 6			
			INCHES		CU. FE	 ET P	ERCENT
	PRECIPITATION		25.27	*:	91730.	102 1	00.00
	RUNOFF	9.631		34958.	38.11		
	EVAPOTRANSPIRATION	15.394		55878.	60.92		
	RECIRCULATION INTO LAYER 3	0.000	000	0.	0.00		
	DRAINAGE COLLECTED FROM LAYER	0.000	0	0.	000	0.00	
1	RECIRCULATION FROM LAYER 5		0.000	000	0.	000	0.00
	PERC./LEAKAGE THROUGH LAYER 7		0.000	000	0.	000	0.00
/	AVG. HEAD ON TOP OF LAYER 6		0.000	0			
	CHANGE IN WATER STORAGE		0.246		892.656		0.97
	SOIL WATER AT START OF YEAR		904.767		3284304.		
	SOIL WATER AT END OF YEAR		905.013		3285197.	500	
	SNOW WATER AT START OF YEAR		0.000		0.0	000	0.00
	SNOW WATER AT END OF YEAR		0.000		0.0	000	0.00
	ANNUAL WATER BUDGET BALANCE		0.000	0	-0.0	097	0.00
	*******	*****	*****	*****	*****	*****	*****
	*******	*****	*****	*****	*****	*****	*****
	MONTHLY TOTALS	G (IN INC	CHES) FOR	YEAR	7		
		JAN/JUL	FEB/AUG	MAR/SEE	APR/OCT	MAY/NOV	JUN/DEC
)	PRECIPITATION	0.53	0.84	0.18	0.00	1.84	4.13

	0.98	1.79	6.42	4.31	2.12	1.13			
RUNOFF	0.000 0.267	0.015 0.034	0.000 2.229	0.000 1.755	0.312 0.091	1.585 0.000			
EVAPOTRANSPIRATION	0.776 0.713	0.825 1.756	0.180 3.961	0.000 2.677	1.219 1.661	2.854 1.126			
LATERAL DRAINAGE RECIRCULATED INTO LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			
LATERAL DRAINAGE COLLECTED FROM LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			
LATERAL DRAINAGE RECIRCULATED FROM LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			
MONTHLY SUMMA	RIES FOR	DAILY H	EADS (IN	CHES)					
AVERAGE DAILY HEAD ON TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000			
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000			
*********	************************								

	INCHES	CU. FEET	PERCENT
PRECIPITATION	24.27	88100.094	100.00
RUNOFF	6.288	22823.758	25.91
EVAPOTRANSPIRATION	17.748	64425.820	73.13
RECIRCULATION INTO LAYER 3	0.000000	0.000	0.00
DRAINAGE COLLECTED FROM LAYER 5	0.0000	0.000	0.00
RECIRCULATION FROM LAYER 5	0.000000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7	0.000000	0.000	0.00

)	AVG. HEAD ON TOP OF LAYER 6		0.000	0			
	CHANGE IN WATER STORAGE		0.234		850.3	38	0.97
	SOIL WATER AT START OF YEAR		905.013		3285197.5	00	
	SOIL WATER AT END OF YEAR		905.247		3286047.7	50	
	SNOW WATER AT START OF YEAR		0.000		0.0	000	0.00
	SNOW WATER AT END OF YEAR		0.000		0.0	00	0.00
	ANNUAL WATER BUDGET BALANCE		0.000	0	0.1	.80	0.00
	*******	*****	*****	*****	*****	*****	*****
	*******	*****	*****	*****	*****	*****	*****
	MONTHLY TOTALS	(IN INC	HES) FOR	YEAR	8		
		JAN/JUL	FEB/AUG I	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
	PRECIPITATION	0 61	1 /10	0.34	2.35	0.73	0.44
V	PRECIPITATION	7.47		2.83			0.36
1	RUNOFF			0.000			0.000
	TWA DOED AND DETERMINE	5.067	0.000	0.725	0.000	0.000	0.000
	EVAPOTRANSPIRATION	0.903 2.403	1.506 0.859	0.340 2.189	1.309 0.526	0.730 0.302	0.440
	LATERAL DRAINAGE RECIRCULATED INTO LAYER 3	0.0000		0.0000			0.0000
	LATERAL DRAINAGE COLLECTED	0.0000		0.0000			0.0000
	FROM LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	LATERAL DRAINAGE RECIRCULATED FROM LAYER 5	0.0000	0.0000	0.0000		0.0000	0.0000
	PERCOLATION/LEAKAGE THROUGH	0.0000		0.0000		0.0000	0.0000
	LAYER 7	0.0000		0.0000			0.0000
	MONTHLY SUMMA						
8	AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000

	MOD OF LAVED C	0 000	0.000	0 000	0 000	0 00	0 000
	TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.00	0.000
	STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 6				0.000		
	********	*****	*****	*****	*****	*****	*****
•	********	*****	*****	*****	******	****	*****
	ANNUA.	L TOTALS	FOR YEAR	8			
	V		INCHES		CU. FE	ET	PERCENT
	PRECIPITATION		18.46	<u>z</u> :	67009.	797	100.00
	RUNOFF		7.006	5	25430.	369	37.95
	EVAPOTRANSPIRATION		11.852	2	43021.	004	64.20
	RECIRCULATION INTO LAYER 3		0.000	0000	0.	000	0.00
	DRAINAGE COLLECTED FROM LAYER	5	0.000	00	0.	000	0.00
	RECIRCULATION FROM LAYER 5		0.000	0000	0.	000	0.00
	PERC./LEAKAGE THROUGH LAYER	7	0.000	0000	0.	000	0.00
	AVG. HEAD ON TOP OF LAYER 6		0.000	00			
	CHANGE IN WATER STORAGE		-0.397	•	-1441.	454	-2.15
	SOIL WATER AT START OF YEAR		905.247	•	3286047.	750	
	SOIL WATER AT END OF YEAR		904.850)	3284606.	250	
	SNOW WATER AT START OF YEAR		0.000)	0.	000	0.00
	SNOW WATER AT END OF YEAR		0.000)	0.	000	0.00
	ANNUAL WATER BUDGET BALANCE		0.000	0	-0.	121	0.00
7	*******	*****	******	*****	*****	*****	*****
7	*******	*****	*****	*****	*****	****	*****
-	MONTHLY TOTALS	S (IN INC	CHES) FOR	YEAR	9		
		TNN / TITT	EED /NIIC	MAD /CEI	7 DD /OCE	M 75 2 / NT/	N TIN /DEC
			red/AUG		APR/OCT		OV JUN/DEC
Ι	PRECIPITATION	0.61	0.78	0.09	0.53	0.52	3.57
		0.85	4.09	2.09	0.88	3.26	0.51

	RUNOFF	0.000 0.287	0.000 2.561	0.000 1.125	0.034 0.042	0.000 0.786	1.165 0.013		
	EVAPOTRANSPIRATION	0.625 0.563	0.847 1.529	0.091 0.965	0.496 0.838	0.520 1.036	2.405 0.834		
	LATERAL DRAINAGE RECIRCULATED INTO LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
	LATERAL DRAINAGE COLLECTED FROM LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
	LATERAL DRAINAGE RECIRCULATED FROM LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
	PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
	MONTHLY SUMMA	 RIES FOR	DAILY H	EADS (IN	 CHES)				
1	AVERAGE DAILY HEAD ON TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000		
J.	STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000		

	ANNUAL	TOTALS	FOR YEAR	. 9					
			INCHES		CU. FEE	T PE	RCENT		
	PRECIPITATION		17.78		64541.4	02 10	0.00		
	RUNOFF		6.013		21825.8	24 3	3.82		
	EVAPOTRANSPIRATION		10.749		39018.7	85 6	0.46		
	RECIRCULATION INTO LAYER 3		0.000	000	0.0	00	0.00		
	DRAINAGE COLLECTED FROM LAYER	5	0.000	0	0.0	00	0.00		
	RECIRCULATION FROM LAYER 5		0.000	000	0.0	00	0.00		
	PERC./LEAKAGE THROUGH LAYER 7		0.000	000	0.0	00	0.00		

AVG. HEAD ON TOP OF LAYER 6		0.000	00			
CHANGE IN WATER STORAGE		1.018	3	3696.9	910	5.73
SOIL WATER AT START OF YEAR		904.850) :	3284606.2	250	
SOIL WATER AT END OF YEAR		905.869	9 :	3288303.2	250	
SNOW WATER AT START OF YEAR		0.000)	0.0	000	0.00
SNOW WATER AT END OF YEAR		0.000)	0.0	000	0.00
ANNUAL WATER BUDGET BALANCE		0.000	00	-0.3	118	0.00
*******	*****	*****	*****	*****	*****	*****
*******	*****	*****	*****	*****	*****	****
MONTHLY TOTALS						
	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	
PRECIPITATION	0.95 2.27	0.33	1.00 3.75	3.20 4.04	0.00	5.40 1.08
RUNOFF		0.000		1.042 1.143		3.199 0.095
EVAPOTRANSPIRATION		1.159 0.690		1.816 2.451		
LATERAL DRAINAGE RECIRCULATED INTO LAYER 3		0.0000	0.0000		0.0000	
LATERAL DRAINAGE COLLECTED FROM LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LATERAL DRAINAGE RECIRCULATED FROM LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0000	0.0000		0.0000		0.0000
MONTHLY SUMMA				NCHES)		
AVERAGE DAILY HEAD ON TOP OF LAYER 6	0.000		0.000	0.000	0.000	0.000

)	STD. DEVIATION OF DAILY				0.000			
	HEAD ON TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000	
	*********	*****	*****	*****	*****	*****	*****	
	*********	*****	*****	*****	******	*****	*****	
	ANNUA	L TOTALS	FOR YEAF	10				
			INCHES		CU. FE	ET I	PERCENT	
	PRECIPITATION		23.75		86212.	500 1	.00.00	
	RUNOFF	OFF 8.137				29538.715		
	EVAPOTRANSPIRATION	DN 15.635				836	65.83	
	RECIRCULATION INTO LAYER 3	0.000	000	0.	000	0.00		
	DRAINAGE COLLECTED FROM LAYER	RAINAGE COLLECTED FROM LAYER 5				0.000		
	RECIRCULATION FROM LAYER 5		0.000	000	0.	000	0.00	
	PERC./LEAKAGE THROUGH LAYER	7	0.000	000	0.	000	0.00	
k	AVG. HEAD ON TOP OF LAYER 6		0.000	0				
2	CHANGE IN WATER STORAGE		-0.023	1	-83.	084	-0.10	
	SOIL WATER AT START OF YEAR		905.869	ı	3288303.	250		
	SOIL WATER AT END OF YEAR		905.846		3288220.000			
	SNOW WATER AT START OF YEAR		0.000		0.0	000	0.00	
	SNOW WATER AT END OF YEAR		0.000		0.0	000	0.00	
	ANNUAL WATER BUDGET BALANCE		0.000	0	0.0	031	0.00	
	*******	*****	*****	*****	*****	******	*****	
	*******	*****	*****	*****	****	*****	****	
	MONTHLY TOTALS	G (IN IN	CHES) FOR	YEAR	11			
					APR/OCT		JUN/DEC	
N.	PRECIPITATION				0.98 0.31			

RUNOFF	0.000 1.431	0.000 1.827	0.000 0.522	0.123 0.000	0.693 0.163	0.182 0.000
EVAPOTRANSPIRATION	1.242 1.811	1.787 2.661	0.614 1.607	0.863 0.263	1.157 0.724	0.769 0.591
LATERAL DRAINAGE RECIRCULATED INTO LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LATERAL DRAINAGE COLLECTED FROM LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LATERAL DRAINAGE RECIRCULATED FROM LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 6		 	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER	6	 		 0.000	

ANNUAL TOTALS FOR YEAR 11

	INCHES	CU. FEET	PERCENT
PRECIPITATION	17.95	65158.516	100.00
RUNOFF	4.940	17931.537	27.52
EVAPOTRANSPIRATION	14.089	51141.980	78.49
RECIRCULATION INTO LAYER 3	0.000000	0.000	0.00
DRAINAGE COLLECTED FROM LAYER 5	0.0000	0.000	0.00
RECIRCULATION FROM LAYER 5	0.000000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7	0.000000	0.000	0.00

}	AVG. HEAD ON TOP OF LAYER 6		0.000	00						
	CHANGE IN WATER STORAGE		-1.079)	-3915.3	145	-6.01			
	SOIL WATER AT START OF YEAR		905.846	5	3288220.0	000				
	SOIL WATER AT END OF YEAR		904.767	' :	3284305.0	000				
	SNOW WATER AT START OF YEAR	0.000			0.000		0.00			
	SNOW WATER AT END OF YEAR	0.000			0.000		0.00			
	ANNUAL WATER BUDGET BALANCE		0.000	00	0.3	L45	0.00			

	*******	*****	*****	****	*****	****	*****			
	MONTHLY TOTALS	(IN INC	CHES) FOR	R YEAR	12					
				MAD (GED	7 DD /OGE	NAD 32 (DIOS7	TIN / DEG			
			FEB/AUG	MAR/SEP	APR/OCT	MAI/NOV	JUN/ DEC			
	PRECIPITATION		0.97 0.92							
,	RUNOFF		0.013 0.048			0.000 1.190	0.214 0.000			
	EVAPOTRANSPIRATION		0.899 1.154			0.180 1.661				
	LATERAL DRAINAGE RECIRCULATED INTO LAYER 3		0.0000			0.0000				
	LATERAL DRAINAGE COLLECTED FROM LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			
	LATERAL DRAINAGE RECIRCULATED FROM LAYER 5	0.0000	0.0000	0.0000		0.0000	0.0000			
	PERCOLATION/LEAKAGE THROUGH LAYER 7		0.0000	0.0000			0.0000			
	MONTHLY SUMMA	RIES FOR	DAILY H	EADS (II	NCHES)					
)	AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000			

	TOP OF LAYER 6	0.000	0.000	0.000	0.000 0.00		0.000
5	STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 6				0.000		
7	********	*****	*****	*****	*****	*****	*****
7	*******	*****	*****	******	****	*****	****
	ANNUA	L TOTALS	FOR YEAR	R 12			
			INCHES		CU. FE	 ET P	ERCENT
	PRECIPITATION		19.05	*	69151.	516 1	00.00
	RUNOFF		4.276	5	15523.	011	22.45
	EVAPOTRANSPIRATION	13.848	3	50266.	72.69		
	RECIRCULATION INTO LAYER 3			0.000000		000	0.00
	DRAINAGE COLLECTED FROM LAYER	0.000	00	0.0	000	0.00	
	RECIRCULATION FROM LAYER 5		0.000	0000	0.0	000	0.00
	PERC./LEAKAGE THROUGH LAYER 7		0.000	0000	0.0	000	0.00
AVG. HEAD ON TOP OF LAYER 6		0.000	00				
	CHANGE IN WATER STORAGE		0.926	5	3361.	694	4.86
	SOIL WATER AT START OF YEAR		904.767	7	3284305.0	000	
	SOIL WATER AT END OF YEAR		905.693	3	3287666.750		
	SNOW WATER AT START OF YEAR		0.000)	0.0	000	0.00
	SNOW WATER AT END OF YEAR		0.000)	0.0	000	0.00
	ANNUAL WATER BUDGET BALANCE		0.000	00	0.0	064	0.00
4	*********	*****	******	******	*****	*****	*****
*	**********	*****	******	******	*****	*****	*****
-	MONTHLY TOTALS	G (IN INC	CHES) FOR	R YEAR	13		
		JAN/JUL	FEB/AUG	MAR/SEE	P APR/OCT	MAY/NOV	JUN/DEC
F	PRECIPITATION				2.90 2.05		

RUNOFF	0.000	0.000 0.585	0.000 0.308	1.675 0.558	1.847	0.989 0.289	
EVAPOTRANSPIRATION	0.947 0.826	0.473 0.775	0.246 1.423	1.225 1.091	1.004 0.921	1.354 0.565	
LATERAL DRAINAGE RECIRCULATED INTO LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
LATERAL DRAINAGE COLLECTED FROM LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
LATERAL DRAINAGE RECIRCULATED FROM LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
MONTHLY SUMMA	RIES FOR		EADS (IN				
AVERAGE DAILY HEAD ON TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000	
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000	
*******	*****	*****	*****	*****	*****	*****	
*******	*****	*****	*****	*****	*****	*****	
ANNUAL	TOTALS	FOR YEAR	13				

	INCHES	CU. FEET	PERCENT
PRECIPITATION	16.78	60911.418	100.00
RUNOFF	6.252	22693.486	37.26
EVAPOTRANSPIRATION	10.849	39380.582	64.65
RECIRCULATION INTO LAYER 3	0.000000	0.000	0.00
DRAINAGE COLLECTED FROM LAYER 5	0.0000	0.000	0.00
RECIRCULATION FROM LAYER 5	0.000000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7	0.000000	0.000	0.00

AVG. HEAD ON TOP OF LAYER 6		0.000	00						
CHANGE IN WATER STORAGE		-0.320)	-1162.	513	-1.91			
SOIL WATER AT START OF YEAR		905.693	3 :	3287666.	750				
SOIL WATER AT END OF YEAR		905.373	3 :	3286504.2	250				
SNOW WATER AT START OF YEAR		0.000)	0.0	000	0.00			
SNOW WATER AT END OF YEAR		0.000)	0.0	000	0.00			
ANNUAL WATER BUDGET BALANCE		0.000	00	-0.3	138	0.00			
********	*****	*****	****	****	****	*****			

MONTHLY TOTAL	="	-							
				APR/OCT					
PRECIPITATION	0.46 1.02	0.03 1.49	0.15 3.45	0.09 4.35	1.16 0.45	3.05 0.75			
RUNOFF	0.000 0.106	0.000 0.176	0.000 0.788	0.000 1.496	0.241	1.532 0.095			
EVAPOTRANSPIRATION	0.909 0.914	0.187 1.314	0.149 1.989	0.091 2.819		1.518 0.516			
LATERAL DRAINAGE RECIRCULATED INTO LAYER 3	0.0000	0.0000	0.0000		0.0000	0.0000			
LATERAL DRAINAGE COLLECTED FROM LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			
LATERAL DRAINAGE RECIRCULATED FROM LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0000	0.0000	0.0000			0.0000			
MONTHLY SUMM	ARIES FOR								
			_						
AVERAGE DAILY HEAD ON TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000			

)	STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 6				0.000		
	******	*****	*****	*****	****	*****	*****
	*******	*****	*****	*****	****	*****	*****
	ANNUAI	TOTALS	FOR YEAR				
			INCHES		CU. FE		ERCENT
	PRECIPITATION	16.45	•	59713.	508 1	00.00	
	RUNOFF	4.435	j	16098.	339	26.96	
	EVAPOTRANSPIRATION	ANSPIRATION 12.481			45305.	445	75.87
	RECIRCULATION INTO LAYER 3		0.000	0000	0.0	000	0.00
	DRAINAGE COLLECTED FROM LAYER	5	0.000	00	0.0	000	0.00
	RECIRCULATION FROM LAYER 5		0.000	0000	0.0	000	0.00
	PERC./LEAKAGE THROUGH LAYER 7	7	0.000	0000	0.0	000	0.00
1	AVG. HEAD ON TOP OF LAYER 6		0.000	00			
)	CHANGE IN WATER STORAGE	-0.466	5	-1690.	485	-2.83	
	SOIL WATER AT START OF YEAR		905.373	3	3286504.250		
	SOIL WATER AT END OF YEAR		904.907	•	3284813.750		
	SNOW WATER AT START OF YEAR		0.000)	0.000		0.00
	SNOW WATER AT END OF YEAR		0.000)	0.0	000	0.00
	ANNUAL WATER BUDGET BALANCE		0.000)1	0.2	211	0.00
	**********	*****	*****	*****	*****	*****	*****
	******	*****	*****	*****	*****	*****	*****
	MONTHLY TOTALS	S (IN IN	CHES) FOR	YEAR	15		
		JAN/JUL	FEB/AUG	MAR/SEE	APR/OCT	MAY/NOV	JUN/DEC
	PRECIPITATION	0.20	0.44 1.27	0.39 3.68	0.00 1.28		3.26 1.65

R	UNOFF	0.000	0.000 0.343	0.000 0.717	0.000 0.104	2.195 0.053	2.060 0.052
Ε	VAPOTRANSPIRATION	0.340 0.460	0.433 0.927	0.397 2.583	0.000 0.982	1.454 0.996	1.201 0.971
L	ATERAL DRAINAGE RECIRCULATED INTO LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L	ATERAL DRAINAGE COLLECTED FROM LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L	ATERAL DRAINAGE RECIRCULATED FROM LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
P	ERCOLATION/LEAKAGE THROUGH LAYER 7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
-	MONTHLY SUMMA	ARIES FOR	DAILY H	EADS (IN	CHES) 		
A	VERAGE DAILY HEAD ON TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000
S	TD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000
*	*******	*****	*****	*****	*****	*****	*****
*	*******	*****	*****	*****	*****	*****	****
	ANNITA	TOTALS	FOD VEND	15			
_	ANNOAL						
			INCHES		CU. FEE	T PE	RCENT
	PRECIPITATION		17.09		62036.6	99 10	00.00
	RUNOFF		5.524		20053.0	98 3	32.32
	EVAPOTRANSPIRATION		10.744		39001.6	87 6	52.87

RECIRCULATION INTO LAYER 3

RECIRCULATION FROM LAYER 5

PERC./LEAKAGE THROUGH LAYER 7

AVG. HEAD ON TOP OF LAYER 6

DRAINAGE COLLECTED FROM LAYER 5

0.000000

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CHANGE IN WATER STORAGE		0.82	1	2981.	944	4.81
SOIL WATER AT START OF YEAR		904.90	7 :	3284813.	750	
SOIL WATER AT END OF YEAR		905.729	9 :	3287795.	500	
SNOW WATER AT START OF YEAR		0.000)	0.0	000	0.00
SNOW WATER AT END OF YEAR		0.000)	0.0	000	0.00
ANNUAL WATER BUDGET BALANCE		0.000	00	-0.0	028	0.00
*******	*****	*****	****	*****	*****	*****
******	*****	*****	****	*****	****	****
MONTHLY TOTAL	S (IN INC	CHES) FOR	R YEAR	16		
	TNN / TIIT	EED /AIIC	MAD/CED	APR/OCT	MA V /NO	TIIN / DEC
	JAN/JUL		MAK/SEP	APR/OC1		
PRECIPITATION		0.34 3.76		2.63 1.49		
RUNOFF		0.000			0.000	0.121
RONOFE	1.932		0.210	0.146	0.703	0.000
EVAPOTRANSPIRATION	1.076 1.844	1.135 1.118	0.107 2.194	1.174 1.592	0.170 0.686	0.433 0.668
LATERAL DRAINAGE RECIRCULATED		0.0000	0.0000			0.0000
INTO LAYER 3	0.0000	0.0000	0.0000			0.0000
LATERAL DRAINAGE COLLECTED FROM LAYER 5		0.0000	0.0000			0.0000
LATERAL DRAINAGE RECIRCULATED						0.0000
FROM LAYER 5		0.0000	0.0000			
PERCOLATION/LEAKAGE THROUGH LAYER 7		0.0000				0.0000
MONTHLY SUMM	ARTES FOR	R DATLY F	 HEADS (TI	 NCHES)		
AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000
TOP OF LAYER 6		0.000			0.000	

)	STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 6	0.000	0.000 0.000 *****	0.000	0.000	0.000 0.000 ****	0.000
	**********	*****	*****	*****	*****	*****	*****
	ANNUAL	TOTALS	FOR YEAR	. 16			
			INCHES		CU. FE	ET P	ERCENT
	PRECIPITATION		18.47		67046.	102 1	00.00
	RUNOFF		7.223		26219.	689	39.11
EVAPOTRANSPIRATION		12.197		44274.699		66.04	
	RECIRCULATION INTO LAYER 3		0.000	000	0.000		0.00
DRAINAGE COLLECTED FROM LAYER 5 RECIRCULATION FROM LAYER 5		0.000	0.0000		000	0.00	
		0.000	000	0.0	000	0.00	
	PERC./LEAKAGE THROUGH LAYER 7		0.000	000	0.0	000	0.00
	AVG. HEAD ON TOP OF LAYER 6		0.000	0			
)	CHANGE IN WATER STORAGE		-0.950		-3448.3	323	-5.14
	SOIL WATER AT START OF YEAR		905.729		3287795.	500	
	SOIL WATER AT END OF YEAR		904.779		3284347.2	250	
	SNOW WATER AT START OF YEAR		0.000		0.0	000	0.00
	SNOW WATER AT END OF YEAR		0.000		0.0	000	0.00
	ANNUAL WATER BUDGET BALANCE		0.000	0	0.0	038	0.00
	*********	*****	*****	*****	*****	*****	*****
	*******	*****	*****	*****	*****	*****	*****
	MONTHLY TOTALS	(IN INC	CHES) FOR	YEAR	17		
		JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
	PRECIPITATION	0.53 2.92	0.75 2.98	0.42 3.29	0.22 2.33	3.01 0.31	3.82 1.35
)	RUNOFF	0.000	0.146	0.000	0.000	0.738	1.161

<u>Pescadito La</u>	<u>inatili – Cios</u>	sea Conaitic	ons: Scenar	10 A				
	0.999	0.481	0.783	0.306	0.000	0.180		
EVAPOTRANSPIRATION	0.533 1.462	0.613 2.776	0.420 2.500	0.220 2.234	2.272 0.187	2.637 0.497		
LATERAL DRAINAGE RECIRCULATED INTO LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
LATERAL DRAINAGE COLLECTED FROM LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
LATERAL DRAINAGE RECIRCULATED FROM LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)								
AVERAGE DAILY HEAD ON TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000		
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000		
*********	*****	*****	*****	*****	*****	*****		
********	*****	*****	*****	*****	*****	*****		
ANNUAI	TOTALS	FOR YEAR	17					

_		INCHES	CU. FEET	PERCENT								
	PRECIPITATION	21.93	79605.914	100.00								
	RUNOFF	4.794	17402.455	21.86								
	EVAPOTRANSPIRATION	16.351	59353.051	74.56								
	RECIRCULATION INTO LAYER 3	0.000000	0.000	0.00								
	DRAINAGE COLLECTED FROM LAYER 5	0.0000	0.000	0.00								
	RECIRCULATION FROM LAYER 5	0.000000	0.000	0.00								
	PERC./LEAKAGE THROUGH LAYER 7	0.00000	0.000	0.00								
	AVG. HEAD ON TOP OF LAYER 6	0.0000										

CHANGE IN WATER STORAGE		0.785	ō	2850.5	560	3.58				
SOIL WATER AT START OF YEAR		904.779	9 :	3284347.2	250					
SOIL WATER AT END OF YEAR		905.564	1 :	3287197.	750					
SNOW WATER AT START OF YEAR		0.000)	0.0	000	0.00				
SNOW WATER AT END OF YEAR		0.000)	0.0	000	0.00				
ANNUAL WATER BUDGET BALANCE		0.000	00	-0.3	151	0.00				

MONTHLY TOTAL	LS (IN INC	HES) FO	R YEAR	18						
	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC				
s ·										
PRECIPITATION	0.00 0.26	0.35 1.06	2.93 6.22	1.97 4.07		1.21 1.75				
RUNOFF	0.000	0.000 0.073	0.265 2.947	0.415 1.808	0.000	0.420 0.068				
EVAPOTRANSPIRATION	0.796 0.501	0.350 0.987	2.376 3.209	1.844 2.142	0.220 0.595	0.549 1.009				
LATERAL DRAINAGE RECIRCULATED INTO LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000				
LATERAL DRAINAGE COLLECTED FROM LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000				
LATERAL DRAINAGE RECIRCULATED FROM LAYER 5	0.0000	0.0000	0.0000	0.0000		0.0000				
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0000	0.0000			0.0000	0.0000				
MONTHLY SUMM	MARIES FOR	DAILY H	HEADS (II	NCHES)						
AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000				

TOP OF LAYER 6

STD. DEVIATION OF DAILY

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Doccadito Landtill — Clocod Conditions:	SCONSTIA A
restaulto tallulli – tioseu tollulliolis.	. Julianio A

	HEAD ON TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000	
	***********	*****	*****	*****	*****	*****	*****	
	**********	*****	*****	*****	*****	*****	*****	
	ANNUAI	TOTALS	FOR YEAR					
			INCHES	-	CU. FE	ET P	ERCENT	
	PRECIPITATION		20.45		74233.	492 1	00.00	
	RUNOFF		5.995	5	21762.	812	29.32	
	EVAPOTRANSPIRATION		14.578	3	52917.	887	71.29	
	RECIRCULATION INTO LAYER 3		0.000	0000	0.0	000	0.00	
	DRAINAGE COLLECTED FROM LAYER 5		0.0000		0.000		0.00	
	RECIRCULATION FROM LAYER 5		0.000	0000	0.000		0.00	
	PERC./LEAKAGE THROUGH LAYER 7	7	0.000000		0.0	000	0.00	
	AVG. HEAD ON TOP OF LAYER 6		0.000	00				
e.	CHANGE IN WATER STORAGE		-0.123		-447.	325	-0.60	
	SOIL WATER AT START OF YEAR		905.564		3287197.	750		
	SOIL WATER AT END OF YEAR		905.441		3286750.500			
	SNOW WATER AT START OF YEAR		0.000		0.000		0.00	
	SNOW WATER AT END OF YEAR		0.000		0.000		0.00	
	ANNUAL WATER BUDGET BALANCE		0.0000		0.121		0.00	
,	*********	****	*****	*****	*****	*****	*****	

-	MONTHLY TOTALS	G (IN INC	CHES) FOR	R YEAR	19			
		JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC	
]	PRECIPITATION	0.88 4.12	1.31 0.75	1.22 1.44	1.00 3.92	2.36 1.22	0.53 0.44	
1	RUNOFF	0.000 2.412	0.705 0.000	0.000 0.237	0.411 0.774	1.387 0.146	0.000	

)	EVAPOTRANSPIRATION	1.073 1.604	0.743 0.853	1.562 1.203	0.589 2.730	0.973 1.324	0.530 0.538		
	LATERAL DRAINAGE RECIRCULATED INTO LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
	LATERAL DRAINAGE COLLECTED FROM LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
	LATERAL DRAINAGE RECIRCULATED FROM LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
	PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
	MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)								
	AVERAGE DAILY HEAD ON TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000		
\ \ \	STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000		
):	******	*****	*****	*****	*****	*****	*****		
	*****	*****	*****	*****	*****	*****	*****		
	ANNUAL	TOTALS	FOR YEAR	19					
			INCHES		CU. FEE	T PE	ERCENT		
	PRECIPITATION	,	19.19		69659.6	95 10	100.00		
	RUNOFF EVAPOTRANSPIRATION RECIRCULATION INTO LAYER 3		6.073		22043.5	18 3	31.64		
			13.723		49813.1	95 7	71.51		
			0.000000		0.0	00	0.00		
	DRAINAGE COLLECTED FROM LAYER			0	0.000		0.00		
	RECIRCULATION FROM LAYER 5			000	0.000		0.00		
	PERC./LEAKAGE THROUGH LAYER 7		0.000000		0.0	00	0.00		
AVG. HEAD ON TOP OF LAYER 6			0.0000						
)	CHANGE IN WATER STORAGE		-0.605		-2196.9	65 -	-3.15		

)	SOIL WATER AT START OF YEAR		905.441	L ;	3286750.5	500		
	SOIL WATER AT END OF YEAR		904.836	5 :	3284553.5	500		
	SNOW WATER AT START OF YEAR		0.000)	0.0	000	0.00	
	SNOW WATER AT END OF YEAR		0.000)	0.0	000	0.00	
	ANNUAL WATER BUDGET BALANCE		0.000	00	-0.0	055	0.00	
	*******	**********						
	******	*****	****	*****	*****	*****	*****	
	MONTHLY TOTALS							
						MAY/NOV		
	PRECIPITATION	0.69	0.16 0.97		1.98 0.91		0.06 0.83	
	RUNOFF	0.000 0.733	0.000	0.000 3.061	0.480	0.000	0.000 0.120	
)	EVAPOTRANSPIRATION	0.712 1.354	0.205 0.635	0.761 1.833	1.549 1.228	0.270 0.038	0.060 0.684	
	LATERAL DRAINAGE RECIRCULATED INTO LAYER 3	0.0000	0.0000	0.0000	0.0000		0.0000	
	LATERAL DRAINAGE COLLECTED FROM LAYER 5	0.0000	0.0000	0.0000	0.0000		0.0000	
	LATERAL DRAINAGE RECIRCULATED FROM LAYER 5		0.0000	0.0000	0.0000		0.0000	
	PERCOLATION/LEAKAGE THROUGH LAYER 7		0.0000			0.0000		
MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)								
	AVERAGE DAILY HEAD ON TOP OF LAYER 6		0.000	0.000	0.000	0.000	0.000	
	STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 6		0.000	0.000	0.000	0.000	0.000	

***************** ************** ANNUAL TOTALS FOR YEAR 20 CU. FEET PERCENT INCHES 50892.605 100.00 PRECIPITATION 14.02 4.732 17176.068 33.75 RUNOFF 9.330 33868.066 66.55 EVAPOTRANSPIRATION 0.000 0.00 RECIRCULATION INTO LAYER 3 0.000000 0.0000 0.000 0.00 DRAINAGE COLLECTED FROM LAYER 5 0.00 0.000000 0.000 RECIRCULATION FROM LAYER 5 PERC./LEAKAGE THROUGH LAYER 7 0.000000 0.000 0.00 AVG. HEAD ON TOP OF LAYER 6 0.0000 -151.545 -0.30 -0.042 CHANGE IN WATER STORAGE 3284553.500 SOIL WATER AT START OF YEAR 904.836 904.794 3284402.000 SOIL WATER AT END OF YEAR 0.000 0.00 SNOW WATER AT START OF YEAR 0.000 SNOW WATER AT END OF YEAR 0.000 0.000 0.00 ANNUAL WATER BUDGET BALANCE 0.0000 0.016 0.00 **************** ***************** MONTHLY TOTALS (IN INCHES) FOR YEAR JAN/JUL FEB/AUG MAR/SEP APR/OCT MAY/NOV JUN/DEC 0.83 0.60 0.07 1.08 2.41 1.31 PRECIPITATION 2.27 0.62 2.34 2.36 0.72 1.05

0.000 0.000 0.013 1.118 0.272

0.109 0.085 0.097 0.726 0.000 0.565

RUNOFF

)	EVAPOTRANSPIRATION	0.488 0.580	0.964	0.073 2.194	1.067 1.635	1.292	1.012 0.936
	LATERAL DRAINAGE RECIRCULATED INTO LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	LATERAL DRAINAGE COLLECTED FROM LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	LATERAL DRAINAGE RECIRCULATED FROM LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000

	INCHES	CU. FEET	PERCENT
PRECIPITATION	15.66	56845.797	100.00
RUNOFF	2.986	10840.327	19.07
EVAPOTRANSPIRATION	11.703	42483.559	74.73
RECIRCULATION INTO LAYER 3	0.00000	0.000	0.00
DRAINAGE COLLECTED FROM LAYER 5	0.0000	0.000	0.00
RECIRCULATION FROM LAYER 5	0.00000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7	0.00000	0.000	0.00
AVG. HEAD ON TOP OF LAYER 6	0.0000		
CHANGE IN WATER STORAGE	0.970	3521.880	6.20

Technically Complete, March 11, 2016 Pescadito Landfill – Closed Conditions: Scenario A

SOIL WATER AT START OF YEAR		904.79	4	3284402.0	000	
SOIL WATER AT END OF YEAR		905.76	4	3287924.0	000	
SNOW WATER AT START OF YEAR		0.000)	0.0	000	0.00
SNOW WATER AT END OF YEAR		0.000)	0.0	000	0.00
ANNUAL WATER BUDGET BALANCE		0.000	00	0.0	030	0.00
*******	*****	****	*****	*****	*****	*****
*******	*****	****	*****	*****	*****	*****
MONTHLY TOTALS						
				APR/OCT		
PRECIPITATION				0.97 1.86		
RUNOFF		0.108		0.000 0.944	0.082	1.074 0.485
EVAPOTRANSPIRATION	1.051 0.903	2.081 0.870	0.670 2.145	0.971 1.233		1.604 0.364
LATERAL DRAINAGE RECIRCULATED INTO LAYER 3	0.0000	0.0000	0.0000			0.0000
LATERAL DRAINAGE COLLECTED FROM LAYER 5	0.0000	0.0000				0.0000
LATERAL DRAINAGE RECIRCULATED FROM LAYER 5		0.0000			0.0000	
PERCOLATION/LEAKAGE THROUGH LAYER 7		0.0000		0.0000	0.0000	
MONTHLY SUMMA						
AVERAGE DAILY HEAD ON TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000

)	******						
			FOR YEAR				
			INCHES		CU. FE	 ET P!	ERCENT
	PRECIPITATION		17.69	K)	64214.	723 10	00.00
	RUNOFF		5.216	;	18934.	424	29.49
	EVAPOTRANSPIRATION 1		12.939	1	46968.	883	73.14
	RECIRCULATION INTO LAYER 3		0.000	000	0.0	000	0.00
	DRAINAGE COLLECTED FROM LAYER	5	0.0000		0.0	000	0.00
	RECIRCULATION FROM LAYER 5		0.000000		0.0	000	0.00
	PERC./LEAKAGE THROUGH LAYER 7		0.00000		0.0	000	0.00
	AVG. HEAD ON TOP OF LAYER 6		0.0000			3	
	CHANGE IN WATER STORAGE		-0.465		-1688.	491 -	-2.63
1	SOIL WATER AT START OF YEAR		905.764		3287924.	000	
)	SOIL WATER AT END OF YEAR		905.299	•	3286235.	500	
	SNOW WATER AT START OF YEAR		0.000		0.0	000	0.00
	SNOW WATER AT END OF YEAR		0.000	ı	0.0	000	0.00
	ANNUAL WATER BUDGET BALANCE		0.000	0	-0.	093	0.00
	*********	*****	*****	*****	*****	*****	*****
	********	*****	*****	****	*****	*****	*****
	MONTHLY TOTALS	(IN INC	CHES) FOR	YEAR	23		
		JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
	PRECIPITATION		0.12 0.67		2.07 1.89	2.69 1.07	2.12 1.96
	RUNOFF				0.580 0.407		
		0 610	0 100	0 000	1 400	1 250	1 000

EVAPOTRANSPIRATION

0.613

0.128

0.000

1.488

1.200

1.358

	1.220	1.292	1.068	1.934	0.966	0.848
LATERAL DRAINAGE RECIRCULATED INTO LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LATERAL DRAINAGE COLLECTED FROM LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LATERAL DRAINAGE RECIRCULATED FROM LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MONTHLY SUMMA	RIES FOR	DAILY H	EADS (IN	CHES)		
AVERAGE DAILY HEAD ON TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000

0.000

0.000

0.000

0.000

0.000

0.000

0.000

0.000

0.000

0.000

0.000

0.000

ANNUAL TOTALS FOR YEAR 23

	INCHES	CU. FEET	PERCENT
PRECIPITATION	16.50	59895.016	100.00
RUNOFF	3.870	14046.564	23.45
EVAPOTRANSPIRATION	12.116	43979.414	73.43
RECIRCULATION INTO LAYER 3	0.000000	0.000	0.00
DRAINAGE COLLECTED FROM LAYER 5	0.0000	0.000	0.00
RECIRCULATION FROM LAYER 5	0.000000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7	0.000000	0.000	0.00
AVG. HEAD ON TOP OF LAYER 6	0.0000		
CHANGE IN WATER STORAGE	0.515	1868.839	3.12
SOIL WATER AT START OF YEAR	905.299	3286235.500	

STD. DEVIATION OF DAILY

HEAD ON TOP OF LAYER 6

)	SOIL WATER AT END OF YEAR	905.814	3288104.250	
	SNOW WATER AT START OF YEAR	0.000	0.000	0.00
	SNOW WATER AT END OF YEAR	0.000	0.000	0.00
	ANNUAL WATER BUDGET BALANCE	0.0001	0.196	0.00
*	**********	*****	******	*****

MONTHLY TOTALS (IN INCHES) FOR YEAR 24						
					MAY/NOV	
PRECIPITATION	1.46 0.00	2.05 4.21	1.84 4.56	3.96 2.34	0.00	0.79 0.97
RUNOFF	0.105 0.000	0.106 1.261	0.000 2.024	1.604 0.387	0.000	0.227
EVAPOTRANSPIRATION	1.169 0.000	2.642 2.482	2.374 2.912	2.301 1.515	0.055 0.528	0.563 0.802
LATERAL DRAINAGE RECIRCULATED INTO LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LATERAL DRAINAGE COLLECTED FROM LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LATERAL DRAINAGE RECIRCULATED FROM LAYER 5	0.0000	0.0000	0.0000	0.0000		0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0000	0.0000				
MONTHLY SUMM	ARIES FO	R DAILY 1	HEADS (II	NCHES)		
AVERAGE DAILY HEAD ON TOP OF LAYER 6			0.000		0.000	0.000

)	STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 6		0.000			0.000	
	********	*****	*****	*****	*****	*****	*****
	********	*****	*****	*****	*****	*****	*****
			FOR YEAR				
			INCHES		CU. FEI	ET PI	ERCENT
	PRECIPITATION		22.18		80513.		00.00
	RUNOFF		5.714	1	20741.	791 2	25.76
	EVAPOTRANSPIRATION		17.344	ł	62959.	625	78.20
	RECIRCULATION INTO LAYER 3		0.000	0000	0.0	000	0.00
	DRAINAGE COLLECTED FROM LAYER	5	0.000	00	0.0	000	0.00
	RECIRCULATION FROM LAYER 5		0.000	0000	0.0	000	0.00
	PERC./LEAKAGE THROUGH LAYER 7	•	0.000	0000	0.0	000	0.00
·	AVG. HEAD ON TOP OF LAYER 6		0.000	00			
1	CHANGE IN WATER STORAGE		-0.878	3	-3187.	993 -	-3.96
	SOIL WATER AT START OF YEAR		905.814	1	3288104.2	250	
	SOIL WATER AT END OF YEAR		904.936	õ	3284916.2	250	
	SNOW WATER AT START OF YEAR		0.000)	0.0	000	0.00
	SNOW WATER AT END OF YEAR		0.000)	0.0	000	0.00
	ANNUAL WATER BUDGET BALANCE		0.000	00	-0.0	017	0.00
	*********	*****	*****	*****	*****	*****	*****
	**********	*****	*****	*****	*****	*****	*****
	MONTHLY TOTALS	G (IN INC	CHES) FOR	R YEAR	25		
		JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
	PRECIPITATION		2.84				

Pescadito Landfill – Closed Conditions: Scenario A						
RUNOFF	0.000	0.180 1.258	0.000 1.095	0.000 0.108	0.000	0.126 0.000
EVAPOTRANSPIRATION	0.908 0.330	2.067 2.461	1.593 2.395	0.480 1.330	1.147 0.964	0.937 0.120
LATERAL DRAINAGE RECIRCULATED INTO LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LATERAL DRAINAGE COLLECTED FROM LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LATERAL DRAINAGE RECIRCULATED FROM LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MONTHLY SUMMA	ARIES FOR	DAILY H	EADS (IN	CHES)		
AVERAGE DAILY HEAD ON TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000

	INCHES	CU. FEET	PERCENT
PRECIPITATION	17.33	62907.898	100.00
RUNOFF	2.767	10045.407	15.97
EVAPOTRANSPIRATION	14.730	53471.387	85.00
RECIRCULATION INTO LAYER 3	0.000000	0.000	0.00
DRAINAGE COLLECTED FROM LAYER 5	0.0000	0.000	0.00
RECIRCULATION FROM LAYER 5	0.000000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7	0.000000	0.000	0.00
AVG. HEAD ON TOP OF LAYER 6	0.0000		

)	CHANGE IN WATER STORAGE		-0.168	3	-608.8	340 -	-0.97
	SOIL WATER AT START OF YEAR		904.936	5 3	3284916.2	250	
	SOIL WATER AT END OF YEAR		904.768	3 :	3284307.5	500	
	SNOW WATER AT START OF YEAR		0.000)	0.0	000	0.00
	SNOW WATER AT END OF YEAR		0.000)	0.0	000	0.00
	ANNUAL WATER BUDGET BALANCE		0.000	00	-0.0	055	0.00
	*******	*****	*****	****	*****	****	****
	*******	*****	*****	****	****	****	*****
	MONTHLY TOTAL:	S (IN INC	CHES) FOR	R YEAR	26		
		JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
	PRECIPITATION	0.41 0.42	0.78 4.51	1.13 3.21	0.00 4.27	5.86 0.60	2.48 0.48
	RUNOFF	0.000	0.000	0.112	0.000	3.506	0.586
)	RONOFF	0.000	1.190	0.532	0.981	0.000	0.000
	EVAPOTRANSPIRATION	0.409	0.781	0.996	0.022	1.992	2.256
		0.420	2.692	3.289	2.486	1.263	0.535
	LATERAL DRAINAGE RECIRCULATED INTO LAYER 3	0.0000	0.0000	0.0000		0.0000	0.0000
	INTO DATER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	LATERAL DRAINAGE COLLECTED FROM LAYER 5	0.0000	0.0000	0.0000			0.0000
	LATERAL DRAINAGE RECIRCULATED FROM LAYER 5	0.0000		0.0000	0.0000		
	PERCOLATION/LEAKAGE THROUGH	0.0000			0.0000		
	LAYER 7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	MONTHLY SUMM	AKIES FOR		1EADS (II	NCHES)		
	AVERAGE DAILY HEAD ON TOP OF LAYER 6		0.000			0.000	

)	STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 6				0.000		
	*******	*****	*****	*****	*****	*****	*****
	*******	****	*****	*****	*****	*****	*****
			FOR YEAF				
			INCHES		CU. FE	ET P	ERCENT
	PRECIPITATION		24.15		87664.	516 1	00.00
	RUNOFF		6.906	5	25067.	752	28.60
	EVAPOTRANSPIRATION		17.141		62222.	379	70.98
	RECIRCULATION INTO LAYER 3		0.000	0000	0.	000	0.00
	DRAINAGE COLLECTED FROM LAYER	5	0.000	00	0.000		0.00
	RECIRCULATION FROM LAYER 5		0.000	0000	0.000		0.00
	PERC./LEAKAGE THROUGH LAYER 7	7	0.000	0000	0.	000	0.00
	AVG. HEAD ON TOP OF LAYER 6		0.000	00			
)	CHANGE IN WATER STORAGE		0.103	}	374.	432	0.43
	SOIL WATER AT START OF YEAR		904.768	1	3284307.	500	
	SOIL WATER AT END OF YEAR		904.871		3284681.	750	
	SNOW WATER AT START OF YEAR		0.000)	0.	000	0.00
	SNOW WATER AT END OF YEAR		0.000)	0.	000	0.00
	ANNUAL WATER BUDGET BALANCE		0.000	00	-0.	052	0.00
	*********	*****	*****	*****	*****	*****	*****
	*******	*****	*****	*****	*****	*****	*****
	MONTHLY TOTALS	G (IN INC	CHES) FOF	YEAR	27		
					P APR/OCT		JUN/DEC
	PRECIPITATION	0.61 0.74	0.15 2.32	1.18 1.13	0.55 1.30	4.62 0.92	5.08 0.88
	RUNOFF	0.000	0.000	0.000	0.000	1.814	3.157

	0.040	0.503	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	0.697 0.694	0.166	1.180 1.130	0.541 1.300	2.805 0.551	1.933 1.033
LATERAL DRAINAGE RECIRCULATED INTO LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LATERAL DRAINAGE COLLECTED FROM LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LATERAL DRAINAGE RECIRCULATED FROM LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 6	0.000	0.000		0.000		0.000

	INCHES	CU. FEET	PERCENT
PRECIPITATION	19.48	70712.398	100.00
RUNOFF	5.514	20015.164	28.31
EVAPOTRANSPIRATION	13.854	50288.336	71.12
RECIRCULATION INTO LAYER 3	0.000000	0.000	0.00
DRAINAGE COLLECTED FROM LAYER 5	0.0000	0.000	0.00
RECIRCULATION FROM LAYER 5	0.00000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7	0.00000	0.000	0.00
AVG. HEAD ON TOP OF LAYER 6	0.0000		

Pescadito Landfill - Closed Conditions: Scenario A								
CHANGE IN WATER STORAGE		0.113	3	408.	774	0.58		
SOIL WATER AT START OF YEAR		904.87	1	3284681.	750			
SOIL WATER AT END OF YEAR		904.984	4	3285090.	500			
SNOW WATER AT START OF YEAR		0.000)	0.0	000	0.00		
SNOW WATER AT END OF YEAR		0.000)	0.0	000	0.00		
ANNUAL WATER BUDGET BALANCE		0.000	00	0.3	126	0.00		
*********	*****	*****	*****	*****	****	*****		
*********	*****	*****	*****	*****	*****	*****		
MONTHLY TOTALS	G (IN INC	CHES) FOR	R YEAR	28				
		/		/				
	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC		
PRECIPITATION				0.25 5.11		1.24 0.89		

			MAR/SEP	APR/OCI		
PRECIPITATION	0.61 3.11	0.08 4.58	1.35 0.68	0.25 5.11	3.33 0.10	1.24 0.89
RUNOFF	0.000 1.805	0.000 2.308	0.345 0.000	0.000 1.701	2.025	0.347
EVAPOTRANSPIRATION	0.809 1.238	0.097 2.300	0.992 0.718	0.263 2.773	1.305 0.735	0.893 0.399
LATERAL DRAINAGE RECIRCULATED INTO LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LATERAL DRAINAGE COLLECTED FROM LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LATERAL DRAINAGE RECIRCULATED FROM LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 6				0.000		
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000

i.	HEAD ON TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000			
)	**********	*****	*****	*****	*****	*****	*****			
	**********	****	*****	*****	*****	*****	*****			
ANNUAL TOTALS FOR YEAR 28										
			INCHES		CU. FE	ET PI	ERCENT			
	PRECIPITATION		21.33		77427.	898 10	00.00			
	RUNOFF		8.532	2	30971.	973	40.00			
	EVAPOTRANSPIRATION		12.522	2	45456.3	320 5	58.71			
	RECIRCULATION INTO LAYER 3	0.000	0000	0.0	0.00					
	DRAINAGE COLLECTED FROM LAYER	5	0.000	00	0.0	000	0.00			
	RECIRCULATION FROM LAYER 5	0.000	0000	0.0	0.00					
	PERC./LEAKAGE THROUGH LAYER 7	RC./LEAKAGE THROUGH LAYER 7 0.000000				000	0.00			
	AVG. HEAD ON TOP OF LAYER 6		0.000	00						
C.	CHANGE IN WATER STORAGE		0.275	5	999.	668	1.29			
	SOIL WATER AT START OF YEAR		904.984	1	3285090.	500				
	SOIL WATER AT END OF YEAR		905.259		3286090.250					
	SNOW WATER AT START OF YEAR		0.000		0.000		0.00			
	SNOW WATER AT END OF YEAR		0.000)	0.000		0.00			
	ANNUAL WATER BUDGET BALANCE		0.0000		-0.0	059	0.00			
	*********	*****	*****	*****	*****	******	*****			
	*********	*****	*****	*****	*****	*****	*****			
	MONTHLY TOTALS	(IN IN	CHES) FOR	R YEAR	29					
		TAN / TIIT	EEB/AIIC	MAD/SED	7 DD / \\CT	MAY/NOV	TUN/DEC			
	,				AFR/OCI					
	PRECIPITATION	1.03 0.48	2.62 4.29	0.33 6.12		4.10 1.23	0.36 0.79			
]	RUNOFF		0.665 1.202			2.303	0.000 0.130			

LAYER 7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
FROM LAYER 5 PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LATERAL DRAINAGE RECIRCULATED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LATERAL DRAINAGE COLLECTED FROM LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LATERAL DRAINAGE RECIRCULATED INTO LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
EVAPOTRANSPIRATION	1.096 0.480	1.933 3.088	0.763 3.307	0.017 1.694	1.797 1.217	0.360 0.464

AVERAGE DAILY HEAD ON TOP OF LAYER 6	0.000	0.000	0.000	 0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 6	0.000		0.000	 0.000	0.000

	INCHES	CU. FEET	PERCENT
PRECIPITATION	26.33	95577.930	100.00
RUNOFF	10.143	36817.441	38.52
EVAPOTRANSPIRATION	16.214	58856.520	61.58
RECIRCULATION INTO LAYER 3	0.000000	0.000	0.00
DRAINAGE COLLECTED FROM LAYER 5	0.0000	0.000	0.00
RECIRCULATION FROM LAYER 5	0.000000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7	0.000000	0.000	0.00
AVG. HEAD ON TOP OF LAYER 6	0.0000		
CHANGE IN WATER STORAGE	-0.026	-96.156	-0.10

)	SOIL WATER AT START OF YEAR		905.259) :	3286090.2	250		
	SOIL WATER AT END OF YEAR		905.233	3	3285994.2	250		
	SNOW WATER AT START OF YEAR		0.000)	0.0	000	0.00	
	SNOW WATER AT END OF YEAR		0.000)	0.0	000	0.00	
	ANNUAL WATER BUDGET BALANCE		0.000	00	0.1	125	0.00	
	********	******	******	****	*****	*****	*****	
	********	*****	*****	****	*****	*****	*****	
	MONTHLY TOTAL		CHES) FOR					
		JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV		
	PRECIPITATION	0.50 3.04	1.84 6.28	1.70 2.40	0.71 2.63		0.72 1.72	
	RUNOFF	0.000 1.027	0.000 3.113	0.139 1.090	0.037 0.693	0.000 0.025	0.000 0.185	
)	EVAPOTRANSPIRATION	0.957 1.469	1.413 3.711	1.477 1.305	1.190 1.668	0.626 1.228	0.794 1.173	
	LATERAL DRAINAGE RECIRCULATED INTO LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
	LATERAL DRAINAGE COLLECTED FROM LAYER 5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
	LATERAL DRAINAGE RECIRCULATED FROM LAYER 5	0.0000	0.0000	0.0000	0.0000		0.0000	
	PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0000			0.0000			
MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)								
							A CA See	
	AVERAGE DAILY HEAD ON TOP OF LAYER 6		0.000	0.000		0.000	0.000	
)	STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 6	0.000	0.000	0.000		0.000	0.000	
e .								

ANNUAL TOTAL	LS FOR YEAR 30		
	INCHES	CU. FEET	PERCENT
PRECIPITATION	23.85	86575.508	100.00
RUNOFF	6.311	22907.777	26.46
EVAPOTRANSPIRATION	17.012	61752.781	71.33
RECIRCULATION INTO LAYER 3	0.00000	0.000	0.00
DRAINAGE COLLECTED FROM LAYER 5	0.0000	0.000	0.00
RECIRCULATION FROM LAYER 5	0.000000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7	0.000000	0.000	0.00
AVG. HEAD ON TOP OF LAYER 6	0.0000		
CHANGE IN WATER STORAGE	0.528	1914.922	2.21
SOIL WATER AT START OF YEAR	905.233	3285994.250	
SOIL WATER AT END OF YEAR	905.760	3287909.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.028	0.00
*********	******	******	*****
**********	******	*****	*****
AVERAGE MONTHLY VALUES IN INC	CHES FOR YEARS	1 THROUGH 3	0
JAN/JUL FEB	/AUG MAR/SEP A	PR/OCT MAY/NOV	JUN/DE

TOTALS

0.98

2.31

0.79

3.57

1.08

2.49

0.66

1.65

2.35

0.97

1.97

0.96

STD. DEVIATIONS	0.44 1.61			1.17 1.44					
RUNOFF									
TOTALS	0.018 0.651	0.102 0.700	0.055 1.135	0.371 0.741	0.894 0.136	0.964 0.080			
STD. DEVIATIONS	0.067 1.073	0.193 0.923							
EVAPOTRANSPIRATION									
TOTALS	0.798 1.015		0.906 2.267	0.764 1.688		1.342 0.733			
STD. DEVIATIONS	0.329 0.603			0.657 0.743					
LATERAL DRAINAGE RECIR	CULATED IN	TO LAYER	3						
TOTALS	0.0000 0.0000	0.0000 0.0000	0.0000	0.0000	0.0000	0.0000			
STD. DEVIATIONS		0.0000	0.0000	0.0000	0.0000	0.0000			
LATERAL DRAINAGE COLLE	CTED FROM	LAYER 5							
TOTALS		0.0000	0.0000	0.0000	0.0000	0.0000			
STD. DEVIATIONS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			
LATERAL DRAINAGE RECIRO	CULATED FRO	OM LAYER	5						
TOTALS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			
STD. DEVIATIONS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			
PERCOLATION/LEAKAGE TH	PERCOLATION/LEAKAGE THROUGH LAYER 7								
TOTALS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			
STD. DEVIATIONS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			

AVERAGES OF MO	ONTHLY AVE	RAGED DATE	7 HEADS	(INCHES)
----------------	------------	------------	---------	----------

DAILY AVERAGE HEAD ON TOP O	F LAYER 	6 				
		.0000	0.0000	0.0000	0.000	
		0000	0.0000		0.000	
********	*****	****	******	*****	*****	*****
******	*****	****	*****	*****	*****	*****
AVERAGE ANNUAL TOTALS &	(STD. DEV	/IATIC		EARS 1	THROUG	н 30
		NCHES		CU. FE		PERCENT
PRECIPITATION			3.525)			100.00
RUNOFF	5.848	3 (1.9349)	21228	3.51	29.568
EVAPOTRANSPIRATION	14.104	ł (2.5333)	51196	5.53	71.308
DRAINAGE RECIRCULATED INTO LAYER 3	0.000	000 (0.00000)	(0.000	0.00000
LATERAL DRAINAGE COLLECTED FROM LAYER 5	0.000)00 (0.00000)	(0.000	0.00000
DRAINAGE RECIRCULATED FROM LAYER 5	0.000) 00 (0.00000)	(0.000	0.00000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.000)00 (0.00000)	(0.000	0.00000
AVERAGE HEAD ON TOP OF LAYER 6	0.000) (0.000)			
CHANGE IN WATER STORAGE	-0.173	3 (1.2492)	-628	3.49	-0.875
********	*****	****	*****	*****	*****	******
********	*****	****	*****	*****	****	*****
PEAK DAILY VA	LUES FOR	YEARS	1 THRO	DUGH 30		
			(INCH	 IES)	(CU. F'	T.)
PRECIPITATION			4.24		15391.	 199
RUNOFF			3.57	17	12983.	0488

DRAINAGE RECIRCULATED INTO LAYER 3	0.00000	0.00000
DRAINAGE COLLECTED FROM LAYER 5	0.00000	0.00000
DRAINAGE RECIRCULATED FROM LAYER 5	0.00000	0.00000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.000000	0.00000
AVERAGE HEAD ON TOP OF LAYER 6	0.000	
MAXIMUM HEAD ON TOP OF LAYER 6	0.000	
LOCATION OF MAXIMUM HEAD IN LAYER 5		
(DISTANCE FROM DRAIN)	O.O FEET	
SNOW WATER	0.00	0.0000
MAXIMUM VEG. SOIL WATER (VOL/VOL)	0.3270	
MINIMUM VEG. SOIL WATER (VOL/VOL)	0.2213	

*** Maximum heads are computed using McEnroe's equations. ***

Reference: Maximum Saturated Depth over Landfill Liner by Bruce M. McEnroe, University of Kansas ASCE Journal of Environmental Engineering Vol. 119, No. 2, March 1993, pp. 262-270.

FINAL	WATER	STORAGE	AT	END	OF	YEAR	30

LAYER	(INCHES)	(VOL/VOL)	
1	2.7658	0.3951	
2	9.2417	0.3081	
3	873.0695	0.1915	
4	9.8568	0.4107	
5	0.0024	0.0100	
6	0.0000	0.0000	
7	10.8240	0.4510	
SNOW WATER	0.000	******	* * *

ATTACHMENT B TO APPENDIX III-D.6 HELP MODEL OUTPUTS

- 5. ANALYSES WITH INTRODUCED CONTAMINATED WATER
 - A. OPEN CONDITIONS 20 FEET OF WASTE
 - B. INTERMEDIATE CONDITIONS 50 FEET OF WASTE
 - C. INTERMEDIATE CONDITIONS 100 FEET OF WASTE

MICHAEL W. ODEN

67165

CISTER

SONALENGER

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Slepe: 12.50%6 Drainage Length: 461 FT

w/Leachate Introduced

*****	******************	*****
*****	**************	*****
**		**
**		**
**	HYDROLOGIC EVALUATION OF LANDFILL PERFORMANCE	**
* *	HELP MODEL VERSION 3.07 (1 NOVEMBER 1997)	* *
**	DEVELOPED BY ENVIRONMENTAL LABORATORY	**
**	USAE WATERWAYS EXPERIMENT STATION	**
**	FOR USEPA RISK REDUCTION ENGINEERING LABORATORY	* *
**		**
**		* *
*****	*************	*****
*****	*************	*****

PRECIPITATION DATA FILE: C:\HELP3\pesc\PRECIP.D4 TEMPERATURE DATA FILE: C:\HELP3\pesc\TEMP.D7 C:\HELP3\pesc\SOL.D13 SOLAR RADIATION DATA FILE: EVAPOTRANSPIRATION DATA: C:\HELP3\pesc\EVAP_OPN.D11 SOIL AND DESIGN DATA FILE: C:\HELP3\pesc\OPEN2010.D10 OUTPUT DATA FILE: C:\HELP3\pesc\open2010.OUT

TIME: 12:21 DATE: 2/ 4/2015

TITLE: PESCADITO-OPEN CONDITIONS

INITIAL MOISTURE CONTENT OF THE LAYERS AND SNOW WATER NOTE: WERE SPECIFIED BY THE USER.

> LAYER 1 ------

TYPE 1 - VERTICAL PERCOLATION LAYER MATERIAL TEXTURE NUMBER Ω

6.00 INCHES THICKNESS 0.4520 VOL/VOL POROSITY 0.4110 VOL/VOL FIELD CAPACITY WILTING POINT 0.3110 VOL/VOL =0.4110 VOL/VOL INITIAL SOIL WATER CONTENT

= 0.999999975000E-05 CM/SEC EFFECTIVE SAT. HYD. COND.

Pescadito Landfill - Open Conditions: Scenario X Complete, March 11, 2016 w/Leachate Introduced

LAYER 2

TYPE 1 - VERTICAL PERCOLATION LAYER

	MATERIAL	TEXTURE	NOWBER 18	
NESS		=	240.00	IN

THICKNESS = 240.00 INCHES

POROSITY = 0.6710 VOL/VOL

FIELD CAPACITY = 0.2920 VOL/VOL

WILTING POINT = 0.0770 VOL/VOL

INITIAL SOIL WATER CONTENT = 0.2000 VOL/VOL

EFFECTIVE SAT. HYD. COND. = 0.100000005000E-02 CM/SEC

SUBSURFACE INFLOW = 10.00 INCHES/YR

NOTE: 100.00 PERCENT OF THE DRAINAGE COLLECTED FROM LAYER # 4

IS RECIRCULATED INTO THIS LAYER.

LAYER 3

TYPE 1 - VERTICAL PERCOLATION LAYER

MATERIAL TEXTURE NUMBER 0

EFFECTIVE SAT. HYD. COND. = 0.999999975000E-05 CM/SEC

LAYER 4

TYPE 2 - LATERAL DRAINAGE LAYER MATERIAL TEXTURE NUMBER 0

THICKNESS = 0.26 INCHES
POROSITY = 0.8500 VOL/VOL
FIELD CAPACITY = 0.0100 VOL/VOL
WILTING POINT = 0.0050 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.0100 VOL/VOL

EFFECTIVE SAT. HYD. COND. = 3.71399999000 CM/SEC

SLOPE = 2.50 PERCENT DRAINAGE LENGTH = 461.0 FEET

NOTE: 100.00 PERCENT OF THE DRAINAGE COLLECTED FROM THIS LAYER IS RECIRCULATED INTO LAYER # 2.

LAYER 5

TYPE 4 - FLEXIBLE MEMBRANE LINER MATERIAL TEXTURE NUMBER 35

THICKNESS = 0.06 INCHES
POROSITY = 0.0000 VOL/VOL

Pescadito Landfill - Open Conditions: Scenario Complete, March 11, 2016 w/Leachate Introduced

FIELD CAPACITY	=	0.0000 VOL/VOL
WILTING POINT	i=0	0.0000 VOL/VOL
INITIAL SOIL WATER CONTENT	$\hat{x}_i = \hat{x}_i$	0.0000 VOL/VOL
EFFECTIVE SAT. HYD. COND.	$\dot{t}=0$	0.199999996000E-12 CM/SEC
FML PINHOLE DENSITY	$\hat{x}_i = \hat{x}_i$	3.00 HOLES/ACRE
FML INSTALLATION DEFECTS	=	3.00 HOLES/ACRE

LAYER 6

TYPE 3 - BARRIER SOIL LINER MATERIAL TEXTURE NUMBER 0

THICKNESS	=	24.00 INCHES
POROSITY	=	0.4510 VOL/VOL
FIELD CAPACITY	=	0.4110 VOL/VOL
WILTING POINT	=	0.3110 VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.4510 VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.10000001000E-06 CM/SEC

FML PLACEMENT QUALITY = 3 - GOOD

GENERAL DESIGN AND EVAPORATIVE ZONE DATA

NOTE: SCS RUNOFF CURVE NUMBER WAS USER-SPECIFIED.

SCS RUNOFF CURVE NUMBER	=	85.00	
FRACTION OF AREA ALLOWING RUNOFF	=	0.0	PERCENT
AREA PROJECTED ON HORIZONTAL PLANE	=	1.000	ACRES
EVAPORATIVE ZONE DEPTH	=	60.0	INCHES
INITIAL WATER IN EVAPORATIVE ZONE	=	13.266	INCHES
UPPER LIMIT OF EVAPORATIVE STORAGE	=	38.946	INCHES
LOWER LIMIT OF EVAPORATIVE STORAGE	=	6.024	INCHES
INITIAL SNOW WATER	=	0.000	INCHES
INITIAL WATER IN LAYER MATERIALS	=	71.157	INCHES
TOTAL INITIAL WATER	=	71.157	INCHES
TOTAL SUBSURFACE INFLOW	=	10.00	INCHES/YEAR

EVAPOTRANSPIRATION AND WEATHER DATA

NOTE: EVAPOTRANSPIRATION DATA WAS OBTAINED FROM BROWNSVILLE TEXAS

STATION LATITUDE	=	27.34 DEGREES
MAXIMUM LEAF AREA INDEX	=	0.00
START OF GROWING SEASON (JULIAN DATE)	=	0
END OF GROWING SEASON (JULIAN DATE)	=	367
EVAPORATIVE ZONE DEPTH	=	60.0 INCHES
AVERAGE ANNUAL WIND SPEED	=	11.60 MPH
AVERAGE 1ST OUARTER RELATIVE HUMIDITY	=	76.00 %

Pescadito Landfill - Open Conditions: Scenario A Complete, March 11, 2016 w/Leachate Introduced

AVERAGE 2ND QUARTER RELATIVE HUMIDITY = 75.00 % AVERAGE 3RD QUARTER RELATIVE HUMIDITY = 74.00 % AVERAGE 4TH QUARTER RELATIVE HUMIDITY = 76.00 %

NOTE: PRECIPITATION DATA WAS SYNTHETICALLY GENERATED USING

COEFFICIENTS FOR BROWNSVILLE TEXAS

NORMAL MEAN MONTHLY PRECIPITATION (INCHES)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
0.82	0.86	0.88	1.37	2.65	2.68
1.93	2.29	3.09	2.41	1.07	0.91

NOTE: TEMPERATURE DATA WAS SYNTHETICALLY GENERATED USING COEFFICIENTS FOR BROWNSVILLE TEXAS

NORMAL MEAN MONTHLY TEMPERATURE (DEGREES FAHRENHEIT)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
56.50	61.00	68.80	76.00	82.00	86.50
87.90	87.90	82.90	75.40	65.50	57.70

NOTE: SOLAR RADIATION DATA WAS SYNTHETICALLY GENERATED USING COEFFICIENTS FOR BROWNSVILLE TEXAS

AND STATION LATITUDE = 27.34 DEGREES

MONTHLY TOTAL	S (IN IN	CHES) FOI	R YEAR	1		
	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.32	0.49 2.82	0.35 3.54	0.01	0.00 0.72	3.60 1.56
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	0.621 0.706	0.377 1.974	0.337 4.411	0.279 2.946	0.256 1.381	3.491 1.257
SUBSURFACE INFLOW INTO	0.8493	0.7671	0.8493	0.8219	0.8493	0.8219

Pescadito Landfill – Open Conditions: Technically Complete, March 11, 2016 w/Leachate Introduced

LAYER 2	0.8493	0.8493	0.8219	0.8493	0.8219	0.8493
LATERAL DRAINAGE RECIRCULATED INTO LAYER 2	0.0064	0.0003	0.0001 0.0000	0.0000	0.0000	0.0000
LATERAL DRAINAGE COLLECTED FROM LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LATERAL DRAINAGE RECIRCULATED FROM LAYER 4	0.0064	0.0003	0.0001	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 5		 0.000	 	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 5	0.000	 0.000		0.000

_		INCHES	CU. FEET	PERCENT
	PRECIPITATION	16.30	59169.004	100.00
	RUNOFF	0.000	0.000	0.00
	EVAPOTRANSPIRATION	18.037	65476.051	110.66
	SUBSURFACE INFLOW INTO LAYER 2	10.000000	36300.000	61.35
	RECIRCULATION INTO LAYER 2	0.006864	24.915	0.04
	DRAINAGE COLLECTED FROM LAYER 4	0.0000	0.000	0.00
	RECIRCULATION FROM LAYER 4	0.006864	24.915	0.04
	PERC./LEAKAGE THROUGH LAYER 6	0.00001	0.003	0.00
	AVG. HEAD ON TOP OF LAYER 5	0.0000		
	CHANGE IN WATER STORAGE	8.263	29992.893	50.69

Pescadito Landfill – Open Conditions: Technically Complete, March 11, 2016 w/Leachate Introduced

SOIL WATER AT START OF YEAR	71.157	258298.484	
SOIL WATER AT END OF YEAR	79.419	288291.375	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.059	0.00

AVERAGE MONTHI	Y VALUES I	N INCHES	FOR YEARS	1 THR	OUGH 1	
	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION						
TOTALS	0.32 0.00	0.49 2.82		0.01 2.89	0.00 0.72	3.60 1.56
STD. DEVIATIONS					0.00	
RUNOFF						
TOTALS	0.000		0.000	0.000	0.000	0.000
STD. DEVIATIONS			0.000		0.000	0.000
EVAPOTRANSPIRATION						
TOTALS	0.621 0.706	0.377 1.974		0.279 2.946	0.256 1.381	3.491 1.257
STD. DEVIATIONS	0.000	0.000	0.000	0.000	0.000	0.000
SUBSURFACE INFLOW INT	O LAYER 2					
TOTALS	0.8493 0.8493				0.8493 0.8219	
LATERAL DRAINAGE RECI	RCULATED I	NTO LAYER	2			
TOTALS	0.0064	0.0003	0.0001	0.0000	0.0000	0.0000

Pescadito Land	fill – Open Co Leachate Int		chgically Con	nplete, March	ı 11, 2016
0 0000	0 0000	0 0000	0 0000	0 0000	0 0000

	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
STD. DEVIATIONS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LATERAL DRAINAGE COLLEC						
	0.0000		0.0000	0.0000	0.0000	0.0000
STD. DEVIATIONS		0.0000	0.0000	0.0000	0.0000	
LATERAL DRAINAGE RECIRC	ULATED FR	OM LAYER	4			
TOTALS	0.0064 0.0000	0.0003	0.0001	0.0000	0.0000	0.0000
STD. DEVIATIONS	0.0000	0.0000	0.0000		0.0000	
PERCOLATION/LEAKAGE THR	OUGH LAYE	R 6				
TOTALS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
STD. DEVIATIONS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
		0				
AVERAGES O	F MONTHLY	AVERAGED	DAILY HE	ADS (INCH	ES)	
DAILY AVERAGE HEAD ON TO	OP OF LAY	ER 5				
AVERAGES	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000
STD. DEVIATIONS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

AVERAGE ANNUAL TOTAL	S & (STD.	DEVIATION	NS) FOR YI	EARS 1	THROUGH	1

PRECIPITATION

16.30

(0.000)

100.00

59169.0

Pescadito Landfill – Open Conditions: Scenario A Complete, March 11, 2016 w/Leachate Introduced

RUNOFF	0.000	(0.0000)	0.00	0.000
EVAPOTRANSPIRATION	18.037	(0.0000)	65476.05	110.659
SUBSURFACE INFLOW INTO LAYER 2	10.00000			36300.000	61.34969
DRAINAGE RECIRCULATED INTO LAYER 2	0.00686	(0.00000)	24.915	0.04211
LATERAL DRAINAGE COLLECTED FROM LAYER 4	0.00000	(0.00000)	0.000	0.00000
DRAINAGE RECIRCULATED FROM LAYER 4	0.00686	(0.00000)	24.915	0.04211
PERCOLATION/LEAKAGE THROUGH LAYER 6	0.00000	(0.00000)	0.003	0.00000
AVERAGE HEAD ON TOP OF LAYER 5	0.000 (0.000)		
CHANGE IN WATER STORAGE	8.263	(0.0000)	29992.89	50.690
*******	****	***	*****	****	*****

PEAK DAILY VALUES FOR YEARS	1 THROUGH	1
	(INCHES)	(CU. FT.)
PRECIPITATION	1.32	4791.600
RUNOFF	0.000	0.0000
DRAINAGE RECIRCULATED INTO LAYER 2	0.00244	8.87097
DRAINAGE COLLECTED FROM LAYER 4	0.00000	0.00000
DRAINAGE RECIRCULATED FROM LAYER 4	0.00244	8.87097
PERCOLATION/LEAKAGE THROUGH LAYER 6	0.000000	0.00006
AVERAGE HEAD ON TOP OF LAYER 5	0.002	
MAXIMUM HEAD ON TOP OF LAYER 5	0.004	
LOCATION OF MAXIMUM HEAD IN LAYER 4 (DISTANCE FROM DRAIN)	O.O FEET	
SNOW WATER	0.00	0.0000

Pescadito Landfill – Open Conditions: Technically Complete, March 11, 2016 w/Leachate Introduced

MAXI	MUM VEG.	SOIL	WATER	(VOL/VOL)		0.2582	
MINI	MUM VEG.	SOIL	WATER	(VOL/VOL)		0.2119	
***	Maximu	m head	ds are	computed us:	ing McEnroe's eq	quations.	***
	Refere	nce:	by Bru ASCE 3	ice M. McEnro Journal of Ei	Depth over Land De, University of Devironmental Eng March 1993, pp.	of Kansas gineering	r
*****	*****	****	*****	: *: * * * * * * * * * * * * * * * * * *	******	******	******
*****	*****				*****		*****
		FINA.	L WATER	R STORAGE AT	END OF YEAR	.——————— T	
				(INCHES)	(VOL/VOL)	2	
				1.5898		=	
		2		57.1455	0.2381		
		3		9.8571	0.4107		
		4		0.0027	0.0100		
		5		0.0000	0.0000		

10.8240

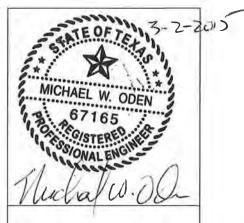
0.000

SNOW WATER

0.4510

ATTACHMENT B TO APPENDIX III-D.6 HELP MODEL OUTPUTS

- 5. SENSITIVITY ANALYSES WITH INTRODUCED LEACHATE
 - A. OPEN CONDITIONS
 - **B. INTERMEDIATE CONDITIONS 50 FEET OF WASTE**
 - C. INTERMEDIATE CONDITIONS 100 FEET OF WASTE



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Pescadito Landfill – Intermediate Conditions (50 ft of Waste): Scenario A w/Leachate Introduced

)	******************					
	**					
	**					
	** HYDROLOGIC EVALUATION OF LANDFILL PERFORMANCE **					
	** HELP MODEL VERSION 3.07 (1 NOVEMBER 1997) **					
	** DEVELOPED BY ENVIRONMENTAL LABORATORY **					
	** USAE WATERWAYS EXPERIMENT STATION **					
	** FOR USEPA RISK REDUCTION ENGINEERING LABORATORY **					
	**					
	**					

	PRECIPITATION DATA FILE: C:\HELP3\pesc\PRECIP.D4					
	TEMPERATURE DATA FILE: C:\HELP3\pesc\TEMP.D7					
	SOLAR RADIATION DATA FILE: C:\HELP3\pesc\SOL.D13					
	EVAPOTRANSPIRATION DATA: C:\HELP3\pesc\EVAP_INT.D11					
	SOIL AND DESIGN DATA FILE: C:\HELP3\pesc\INT5010.D10					
	OUTPUT DATA FILE: C:\HELP3\pesc\INT5010.OUT					
	TIME: 20:28 DATE: 3/ 1/2015					

)	TITLE: Pescadito Intermediate Conditions					

	NOTE: INITIAL MOISTURE CONTENT OF THE LAYERS AND SNOW WATER WERE SPECIFIED BY THE USER.					
	LAYER 1					
	TYPE 1 - VERTICAL PERCOLATION LAYER					
	MATERIAL TEXTURE NUMBER 0					
	POROSITY = 0.4510 VOL/VOL					
	FIELD CAPACITY = 0.4110 VOL/VOL					
	WILTING POINT = 0.3110 VOL/VOL					

LAYER 2

EFFECTIVE SAT. HYD. COND. = 0.999999975000E-05 CM/SEC

0.4110 VOL/VOL

TYPE 1 - VERTICAL PERCOLATION LAYER MATERIAL TEXTURE NUMBER 18

THICKNESS = 600.00 INCHES POROSITY = 0.6710 VOL/VOL

INITIAL SOIL WATER CONTENT =

Pescadito Landfill - Intermediate Conditions (50 ft of Waste): Scenario A March 11, 2016 w/Leachate Introduced

FIELD CAPACITY	=	0.2920 VOL/VOL
WILTING POINT	=	0.0770 VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.2381 VOL/VOL

EFFECTIVE SAT. HYD. COND. = 0.10000005000E-02 CM/SEC

SUBSURFACE INFLOW 10.00 INCHES/YR =

NOTE: 100.00 PERCENT OF THE DRAINAGE COLLECTED FROM LAYER # 4 IS RECIRCULATED INTO THIS LAYER.

LAYER 3 ------

TYPE 1 - VERTICAL PERCOLATION LAYER

MATERIAL TEXTURE NUMBER 0

THICKNESS	=	24.00	INCHES	
POROSITY	=	0.4510	AOT\AOT	
FIELD CAPACITY	=	0.4110	AOF\AOF	
WILTING POINT	=	0.3110	AOT\AOT	
INITIAL SOIL WATER CONTENT	r =	0.4109	VOL/VOL	
DECEMBER CAM HAD COMP	- 0	00000007	000E 0E	-

EFFECTIVE SAT. HYD. COND. = 0.999999975000E-05 CM/SEC

LAYER 4

TYPE 2 - LATERAL DRAINAGE LAYER MATERIAL TEXTURE NUMBER O

MATERIAL IES	7101/15	MONDER O		
THICKNESS	=	0.25	INCHES	
POROSITY	=	0.8500	AOT\AOT	
FIELD CAPACITY	=	0.0100	AOT\AOT	
WILTING POINT	=	0.0050	VOT\AOT	
INITIAL SOIL WATER CONTENT	=	0.0100	VOL/VOL	
EFFECTIVE SAT. HYD. COND.	=	3.85999990	0000	(

CM/SEC

2.50 SLOPE PERCENT DRAINAGE LENGTH 461.0 FEET

NOTE: 100.00 PERCENT OF THE DRAINAGE COLLECTED FROM THIS LAYER IS RECIRCULATED INTO LAYER # 2.

LAYER 5

TYPE 4 - FLEXIBLE MEMBRANE LINER MATERIAL TEXTURE NUMBER 35

THICKNESS	=	0.06 INCHES
POROSITY	=	0.0000 VOL/VOL
FIELD CAPACITY	=	0.0000 VOL/VOL
WILTING POINT	=	0.0000 VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.0000 VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.199999996000E-12 CM/SEC
FML PINHOLE DENSITY	==	3.00 HOLES/ACRE
FML INSTALLATION DEFECTS	==	3.00 HOLES/ACRE
FML PLACEMENT OUALITY	=	3 - GOOD

LAYER 6

TYPE 3 - BARRIER SOIL LINER MATERIAL TEXTURE NUMBER 0

THICKNESS = 24.00 INCHES

POROSITY = 0.4510 VOL/VOL

FIELD CAPACITY = 0.4110 VOL/VOL

WILTING POINT = 0.3110 VOL/VOL

INITIAL SOIL WATER CONTENT = 0.4510 VOL/VOL

EFFECTIVE SAT. HYD. COND. = 0.10000001000E-06 CM/SEC

GENERAL DESIGN AND EVAPORATIVE ZONE DATA

NOTE: SCS RUNOFF CURVE NUMBER WAS USER-SPECIFIED.

85.00 SCS RUNOFF CURVE NUMBER FRACTION OF AREA ALLOWING RUNOFF = 75.0 PERCENT AREA PROJECTED ON HORIZONTAL PLANE = 1.000 ACRES 60.0 INCHES = EVAPORATIVE ZONE DEPTH INITIAL WATER IN EVAPORATIVE ZONE = 16.361 INCHES 37.620 INCHES UPPER LIMIT OF EVAPORATIVE STORAGE = 7.428 INCHES LOWER LIMIT OF EVAPORATIVE STORAGE = INITIAL SNOW WATER - 0.000
INITIAL WATER IN LAYER MATERIALS = 168.480 INCHES
TOTAL INITIAL WATER = 168.480 INCHES
TOTAL SUBSURFACE INFLOW = 10.00 INCHES/YEAR

EVAPOTRANSPIRATION AND WEATHER DATA

NOTE: EVAPOTRANSPIRATION DATA WAS OBTAINED FROM BROWNSVILLE TEXAS

= 27.34 DEGREES STATION LATITUDE MAXIMUM LEAF AREA INDEX = 1.00 START OF GROWING SEASON (JULIAN DATE) = 0 367 END OF GROWING SEASON (JULIAN DATE) = = 60.0 INCHES EVAPORATIVE ZONE DEPTH = 11.60 MPH AVERAGE ANNUAL WIND SPEED AVERAGE 1ST QUARTER RELATIVE HUMIDITY = 76.00 % AVERAGE 2ND QUARTER RELATIVE HUMIDITY = 75.00 % AVERAGE 3RD QUARTER RELATIVE HUMIDITY = 74.00 % AVERAGE 4TH QUARTER RELATIVE HUMIDITY = 76.00 %

NOTE: PRECIPITATION DATA WAS SYNTHETICALLY GENERATED USING COEFFICIENTS FOR BROWNSVILLE TEXAS

NORMAL MEAN MONTHLY PRECIPITATION (INCHES)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
0.82	0.86	0.88	1.37	2.65	2.68
1.93	2.29	3.09	2.41	1.07	0.91

NOTE: TEMPERATURE DATA WAS SYNTHETICALLY GENERATED USING COEFFICIENTS FOR BROWNSVILLE TEXAS

NORMAL MEAN MONTHLY TEMPERATURE (DEGREES FAHRENHEIT)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
56.50	61.00	68.80	76.00	82.00	86.50
87.90	87.90	82.90	75.40	65.50	57.70

NOTE: SOLAR RADIATION DATA WAS SYNTHETICALLY GENERATED USING

COEFFICIENTS FOR BROWNSVILLE

TEXAS

AND STATION LATITUDE = 27.34 DEGREES

MONTHLY TOTALS (IN INCHES) FOR YEAR

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.32	0.49 2.82	0.35 3.54	0.01 2.89	0.00 0.72	3.60 1.56
RUNOFF	0.000	0.000 0.250	0.000 0.585	0.000 0.456	0.000	1.476 0.000
EVAPOTRANSPIRATION	1.249 0.937	0.464 1.843	0.433 3.570	0.444 2.550	0.616 0.746	3.062 1.583
SUBSURFACE INFLOW INTO LAYER 2	0.8493 0.8493	0.7671 0.8493	0.8493 0.8219	0.8219 0.8493	0.8493 0.8219	0.8219 0.8493
LATERAL DRAINAGE RECIRCULATED INTO LAYER 2	0.0043 0.0000	0.0002 0.0000	0.0000	0.0000	0.0000	0.0000
LATERAL DRAINAGE COLLECTED FROM LAYER 4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LATERAL DRAINAGE RECIRCULATED FROM LAYER 4	0.0043	0.0002	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

								444
)	MONTHLY SU	MMARIES FOR	R DAILY H	EADS (II	NCHES)			
	AVERAGE DAILY HEAD ON TOP OF LAYER 5		0.000					
	STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 5		0.000		0.000			
	******	****	*****	*****	*****	*****	*****	* *
	*******	****	*****	****	*****	*****	*****	* *
	ANN	UAL TOTALS	FOR YEAF	1				
			INCHES		CU. FE		PERCENT	
	PRECIPITATION		16.30		59169.0		100.00	
	RUNOFF		2.767		10045.2	228	16.98	
	EVAPOTRANSPIRATION		17.497		63514.	484	107.34	
	SUBSURFACE INFLOW INTO LAYE	IR 2	10.000	0000	36300.0	000	61.35	
)	RECIRCULATION INTO LAYER 2		0.004	464	16.2	203	0.03	
	DRAINAGE COLLECTED FROM LAY	ER 4	0.000	00	0.0	000	0.00	
	RECIRCULATION FROM LAYER 4	Į.	0.004	1464	16.2	203	0.03	
	PERC./LEAKAGE THROUGH LAYER	R 6	0.000	0001	0.0	002	0.00	
	AVG. HEAD ON TOP OF LAYER	5	0.000	00				
	CHANGE IN WATER STORAGE		6.036	5	21909.3	334	37.03	
	SOIL WATER AT START OF YEAR		168.480)	611582.	750		
	SOIL WATER AT END OF YEAR		174.516	5	633492.	125		
	SNOW WATER AT START OF YEAR	3	0.000)	0.0	000	0.00	
	SNOW WATER AT END OF YEAR		0.000)	0.0	000	0.00	
		_	0 000		0	0.4.0	0 00	

0.00

-0.043

ANNUAL WATER BUDGET BALANCE

0.0000

AVERAGE MONTH	LY VALUES II	N INCHES	FOR YEARS	1 THR	OUGH 1	
	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	.======					
TOTALS	0.32 0.00	0.49	0.35 3.54	0.01 2.89	0.00 0.72	3.60 1.56
STD. DEVIATIONS	0.00		0.00	0.00		0.00
RUNOFF						
TOTALS	0.000	0.000 0.250	0.000 0.585	0.000 0.456	0.000	1.476 0.000
STD. DEVIATIONS	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION						
TOTALS	1.249 0.937		0.433 3.570	0.444 2.550	0.616 0.746	
STD. DEVIATIONS	0.000		0.000	0.000	0.000	0.000
SUBSURFACE INFLOW IN						
TOTALS	0.8493 0.8493	0.7671 0.8493	0.8493 0.8219			
LATERAL DRAINAGE REC	IRCULATED I	NTO LAYER	2			
TOTALS	0.0043 0.0000	0.0002	0.0000	0.0000	0.0000	0.000
STD. DEVIATIONS	0.0000	0.0000	0.0000	0.0000	0.0000	0.000
LATERAL DRAINAGE COL	LECTED FROM	LAYER 4				
TOTALS	0.0000	0.0000	0.0000	0.0000	0.0000	0.000
STD. DEVIATIONS	0.0000	0.0000	0.0000	0.0000	0.0000	0.000

LATERAL DRAINAGE RECIRCUI	LATED FRO	OM LAYI	ER	4			
TOTALS	0.0043	0.000		0.0000 0.0000	0.0000	0.0000	
STD. DEVIATIONS	0.0000	0.000		0.0000	0.0000	0.0000	
PERCOLATION/LEAKAGE THROU	JGH LAYE	R 6					
TOTALS	0.0000	0.000		0.0000	0.0000	0.0000	
STD. DEVIATIONS	0.0000	0.000		0.0000	0.0000	0.0000	
AVERAGES OF	MONTHLY	AVERA	 GED	DAILY HEA	ADS (INCHE	 IS)	
DAILY AVERAGE HEAD ON TO	P OF LAY	ER 5					
AVERAGES	0.0001 0.0000	0.000		0.0000	0.0000	0.0000	
STD. DEVIATIONS	0.0000	0.000		0.0000	0.0000	0.0000	
******	*****	*****	***	******	******	*****	*****
******	*****	*****	***	*****	******	*****	*****
AVERAGE ANNUAL TOTALS	& (STD.	DEVIA:	ľIO	NS) FOR YE	CARS 1	THROUGE	н 1
		INC	HES		CU. FEE	IT	PERCENT
PRECIPITATION	16	.30	(0.000)	59169	0.0	100.00
RUNOFF	2	.767	(0.0000)	10045	5.23	16.977
EVAPOTRANSPIRATION	17	.497	(0.0000)	63514	1.48	107.344
SUBSURFACE INFLOW INTO LAYER 2	10	.00000			36300	0.000	61.34969
DRAINAGE RECIRCULATED INTO LAYER 2	0	.00446	(0.00000)	16	5.203	0.02738
LATERAL DRAINAGE COLLECTED FROM LAYER 4	0	.00000	(0.00000)	C	0.000	0.00000

DRAINAGE RECIRCULATED FROM LAYER 4	0.00446 (0.00000)	16.203	0.02738
PERCOLATION/LEAKAGE THROUGH LAYER 6	0.00000 (0.00000)	0.002	0.00000
AVERAGE HEAD ON TOP OF LAYER 5	0.000 (0.000)		
CHANGE IN WATER STORAGE	6.036 (0.0000)	21909.33	37.028
********	******	*****	****	*****
				i i i i i i i i i i i i i i i i i i i

PEAK DAILY VALUES FOR YEARS	1 THROUGH	1
	(INCHES)	(CU. FT.)
PRECIPITATION	1.32	4791.600
RUNOFF	0.703	2553.2390
DRAINAGE RECIRCULATED INTO LAYER 2	0.00163	5.90765
DRAINAGE COLLECTED FROM LAYER 4	0.00000	0.00000
DRAINAGE RECIRCULATED FROM LAYER 4	0.00163	5.90765
PERCOLATION/LEAKAGE THROUGH LAYER 6	0.000000	0.00004
AVERAGE HEAD ON TOP OF LAYER 5	0.001	
MAXIMUM HEAD ON TOP OF LAYER 5	0.009	
LOCATION OF MAXIMUM HEAD IN LAYER 4 (DISTANCE FROM DRAIN)	O.O FEET	
SNOW WATER	0.00	0.0000
MAXIMUM VEG. SOIL WATER (VOL/VOL)	0.2	2727
MINIMUM VEG. SOIL WATER (VOL/VOL)	0.2	2025

Maximum heads are computed using McEnroe's equations. ***

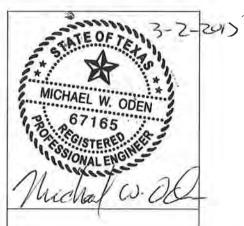
Reference: Maximum Saturated Depth over Landfill Liner by Bruce M. McEnroe, University of Kansas ASCE Journal of Environmental Engineering Vol. 119, No. 2, March 1993, pp. 262-270.

	W/ Ecacilate 1	THI Oddiced							

FINAL WAT	ER STORAGE AT	END OF YEAR 1							
LAYER	(INCHES)	(VOL/VOL)							
1	3.3673	0.2806							
2	150.4648	0.2508							
3	9.8571	0.4107							
4	0.0026	0.0100							
5	0.0000	0.0000							
6	10.8240	0.4510							
SNOW WATER	0.000								

ATTACHMENT B TO APPENDIX III-D.6 HELP MODEL OUTPUTS

- 5. SENSITIVITY ANALYSES WITH INTRODUCED LEACHATE
 - A. OPEN CONDITIONS
 - B. INTERMEDIATE CONDITIONS 50 FEET OF WASTE
 - C. INTERMEDIATE CONDITIONS 100 FEET OF WASTE



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******	*************
**	**
**	**
** HYDROLOGIC	EVALUATION OF LANDFILL PERFORMANCE **
** HELP MODE	L VERSION 3.07 (1 NOVEMBER 1997) **
** DEVELOP	ED BY ENVIRONMENTAL LABORATORY **
** USAE	WATERWAYS EXPERIMENT STATION **
** FOR USEPA RI	SK REDUCTION ENGINEERING LABORATORY **
**	**
**	**

********	***************
PRECIPITATION DATA FILE:	C:\HELP3\pesc\PRECIP.D4
TEMPERATURE DATA FILE:	C:\HELP3\pesc\TEMP.D7
SOLAR RADIATION DATA FILE:	C:\HELP3\pesc\SOL.D13
EVAPOTRANSPIRATION DATA:	C:\HELP3\pesc\EVAP_INT.D11
SOIL AND DESIGN DATA FILE:	C:\HELP3\pesc\INT10010.D10
OUTPUT DATA FILE:	C:\HELP3\pesc\INT10010.OUT
TIME: 20:40 DATE: 3/	1/2015
*****	*****
TITLE: Pescadito Inte	rmediate Conditions
******	***********
NOTE: INITIAL MOISTUR WERE SPECIFIE	E CONTENT OF THE LAYERS AND SNOW WATER
WEIGH STECTLES	b bi iii oobk.
	LAYER 1
	WEDNIGHT DEDGGLARION LAWED
	- VERTICAL PERCOLATION LAYER
	FERIAL TEXTURE NUMBER 0 = 12.00 INCHES
THICKNESS	= 12.00 INCHES = 0.4510 VOL/VOL
POROSITY FIELD CAPACITY	= 0.4110 VOL/VOL
WILTING POINT	= 0.4110 VOL/VOL = 0.3110 VOL/VOL
	ER CONTENT = 0.4110 VOL/VOL
	YD. COND. = 0.999999975000E-05 CM/SEC
BEEBOIIVE SAI. II	10. 00.10. 0.00000000000000000000000000
	LAYER 2
mypp 1	VERMICAL DERCOLAMION LAVER
	- VERTICAL PERCOLATION LAYER
THICKNESS	IERIAL TEXTURE NUMBER 18 = 1200.00 INCHES
TUTCVNE22	- IZUU.UU INCRES

POROSITY	= 0.6710 VOL/VOL
FIELD CAPACITY	= 0.2920 VOL/VOL
WILTING POINT	= 0.0770 VOL/VOL
INITIAL SOIL WATER CONTENT	= 0.2508 VOL/VOL
EFFECTIVE SAT. HYD. COND.	= 0.100000005000E-02 CM/SEC
SUBSURFACE INFLOW	= 10.00 INCHES/YR
NOTE: 100.00 PERCENT OF THE	DRAINAGE COLLECTED FROM LAYER # 4

LAYER 3

TYPE 1 - VERTICAL PERCOLATION LAYER

MATERIAL TEXTURE NUMBER 0

THICKNESS = 24.00 INCHES

POROSITY = 0.4510 VOL/VOL

FIELD CAPACITY = 0.4110 VOL/VOL

WILTING POINT = 0.3110 VOL/VOL

INITIAL SOIL WATER CONTENT = 0.4109 VOL/VOL

IS RECIRCULATED INTO THIS LAYER.

EFFECTIVE SAT. HYD. COND. = 0.999999975000E-05 CM/SEC

LAYER 4

TYPE 2 - LATERAL DRAINAGE LAYER MATERIAL TEXTURE NUMBER 0

THICKNESS	=	0.25	INCHES	
POROSITY	=	0.8500	VOL/VOL	
FIELD CAPACITY	=	0.0100	AOT\AOT	
WILTING POINT	=	0.0050	AOT\AOT	
INITIAL SOIL WATER CONTENT	=	0.0100	AOT\AOT	
EFFECTIVE SAT. HYD. COND.	=	3.85999990	0000	CM/SEC
SLOPE	=	2.50	PERCENT	
DRAINAGE LENGTH	=	461.0	FEET	
NOTE: 100.00 PERCENT OF THE	DRAI	NAGE COLLEC	CTED FROM	1 THIS

LAYER 5

LAYER IS RECIRCULATED INTO LAYER # 2.

TYPE 4 - FLEXIBLE MEMBRANE LINER MATERIAL TEXTURE NUMBER 35

THICKNESS	=	0.06 INCHES
	_	0.0000 VOL/VOL
POROSITY	=	
FIELD CAPACITY	=	0.0000 VOL/VOL
WILTING POINT	=	0.0000 VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.0000 VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.199999996000E-12 CM

EFFECTIVE SAT. HYD. COND. = 0.199999996000E-12 CM/SEC FML PINHOLE DENSITY = 3.00 HOLES/ACRE

<u>Technically Complete, March 11, 2016</u> <u>Pescadito Landfill - Intermediate Conditions (100 ft of Waste): Scenario A</u>

w/Leachate Introduced

FML INSTALLATION DEFECTS = 3.00 HOLES/ACRE FML PLACEMENT QUALITY = 3 - GOOD

LAYER 6

TYPE 3 - BARRIER SOIL LINER MATERIAL TEXTURE NUMBER 0

THICKNESS	=	24.00 INCHES
POROSITY	=	0.4510 VOL/VOL
FIELD CAPACITY	=	0.4110 VOL/VOL
WILTING POINT	=	0.3110 VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.4510 VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.100000001000E-06 CM/SEC

GENERAL DESIGN AND EVAPORATIVE ZONE DATA

NOTE: SCS RUNOFF CURVE NUMBER WAS USER-SPECIFIED.

SCS RUNOFF CURVE NUMBER	=	85.00	
FRACTION OF AREA ALLOWING RUNOFF	=	75.0	PERCENT
AREA PROJECTED ON HORIZONTAL PLANE	=	1.000	ACRES
EVAPORATIVE ZONE DEPTH	=	60.0	INCHES
INITIAL WATER IN EVAPORATIVE ZONE	=	16.970	INCHES
UPPER LIMIT OF EVAPORATIVE STORAGE	=	37.620	INCHES
LOWER LIMIT OF EVAPORATIVE STORAGE	=	7.428	INCHES
INITIAL SNOW WATER	=	0.000	INCHES
INITIAL WATER IN LAYER MATERIALS	=	326.580	INCHES
TOTAL INITIAL WATER	=	326.580	INCHES
TOTAL SUBSURFACE INFLOW	=	10.00	INCHES/YEAR

EVAPOTRANSPIRATION AND WEATHER DATA

NOTE: EVAPOTRANSPIRATION DATA WAS OBTAINED FROM BROWNSVILLE TEXAS

STATION LATITUDE MAXIMUM LEAF AREA INDEX		27.34	DEGREES
	=		
END OF GROWING SEASON (JULIAN DATE)	=	367	
EVAPORATIVE ZONE DEPTH	=	60.0	INCHES
AVERAGE ANNUAL WIND SPEED	=	11.60	MPH
AVERAGE 1ST QUARTER RELATIVE HUMIDITY	=	76.00	용
AVERAGE 2ND QUARTER RELATIVE HUMIDITY	=	75.00	ଚ
AVERAGE 3RD QUARTER RELATIVE HUMIDITY	=	74.00	ଚ
AVERAGE 4TH QUARTER RELATIVE HUMIDITY	=	76.00	9

NOTE: PRECIPITATION DATA WAS SYNTHETICALLY GENERATED USING COEFFICIENTS FOR BROWNSVILLE TEXAS

NORMAL MEAN MONTHLY PRECIPITATION (INCHES)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
0.82	0.86	0.88	1.37	2.65	2.68
1.93	2.29	3.09	2.41	1.07	0.91

NOTE: TEMPERATURE DATA WAS SYNTHETICALLY GENERATED USING COEFFICIENTS FOR BROWNSVILLE TEXAS

NORMAL MEAN MONTHLY TEMPERATURE (DEGREES FAHRENHEIT)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
56.50	61.00	68.80	76.00	82.00	86.50
87.90	87.90	82.90	75.40	65.50	57.70

NOTE: SOLAR RADIATION DATA WAS SYNTHETICALLY GENERATED USING COEFFICIENTS FOR BROWNSVILLE TEXAS

AND STATION LATITUDE = 27.34 DEGREES

MONTHLY TOTALS (IN INCHES) FOR YEAR 1								
	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC		
PRECIPITATION	0.32	0.49 2.82	0.35 3.54	0.01	0.00 0.72	3.60 1.56		
RUNOFF	0.000	0.000 0.242	0.000 0.538	0.000 0.442	0.000	1.476 0.000		
EVAPOTRANSPIRATION	1.249 0.854	0.464 1.751	0.434 3.657	0.445 2.545	0.619 0.739	3.140 1.566		
SUBSURFACE INFLOW INTO LAYER 2	0.8493 0.8493	0.7671 0.8493	0.8493 0.8219	0.8219 0.8493		0.8219 0.8493		
LATERAL DRAINAGE RECIRCULATED INTO LAYER 2	0.0043	0.0002	0.0000	0.0000		0.0000		

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LATERAL DRAINAGE COLLECTED FROM LAYER 4	0.0000	0.0000		0.0000	0.0000	0.0000
LATERAL DRAINAGE RECIRCULATED FROM LAYER 4	0.0043	0.0002 0.0000	0.0000	0.0000		0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 6	0.0000	0.0000	0.0000	0.0000		0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 5	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 5	0.000	0.000	0.000		0.000	0.000

ANNUAL TOTALS FOR YEAR	ANNUAL	TOTALS	FOR	YEAR	1
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	INCHES	CU. FEET	PERCENT
PRECIPITATION	16.30	59169.004	100.00
RUNOFF	2.698	9793.375	16.55
EVAPOTRANSPIRATION	17.462	63387.918	107.13
SUBSURFACE INFLOW INTO LAYER 2	10.000000	36300.000	61.35
RECIRCULATION INTO LAYER 2	0.004464	16.203	0.03
DRAINAGE COLLECTED FROM LAYER 4	0.0000	0.000	0.00
RECIRCULATION FROM LAYER 4	0.004464	16.203	0.03
PERC./LEAKAGE THROUGH LAYER 6	0.000001	0.002	0.00
AVG. HEAD ON TOP OF LAYER 5	0.0000		
CHANGE IN WATER STORAGE	6.140	22287.699	37.67
SOIL WATER AT START OF YEAR	326.580	1185485.750	
SOIL WATER AT END OF YEAR	332.720	1207773.500	

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	ANNUAL WATER BUDGET BALANCE	0.0000	0.009	0.00
	SNOW WATER AT END OF YEAR	0.000	0.000	0.00
	SNOW WATER AT START OF YEAR	0.000	0.000	0.00

AVERAGE MONTHI	Y VALUES I	N INCHES	FOR YEARS	1 THR	OUGH 1	
PRECIPITATION	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
TOTALS	0.32 0.00	0.49 2.82	0.35 3.54	0.01 2.89	0.00 0.72	3.60 1.56
STD. DEVIATIONS	0.00	0.00	0.00	0.00	0.00	0.00
RUNOFF						
TOTALS	0.000	0.000 0.242	0.000 0.538	0.000 0.442	0.000	1.476 0.000
STD. DEVIATIONS	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION						
TOTALS	1.249 0.854	0.464 1.751	0.434 3.657	0.445 2.545	0.619 0.739	3.140 1.566
STD. DEVIATIONS	0.000		0.000	0.000	0.000	0.000
SUBSURFACE INFLOW INT	O LAYER 2					
TOTALS	0.8493 0.8493	0.7671 0.8493	0.8493 0.8219			
LATERAL DRAINAGE RECI	RCULATED II	NTO LAYER	2			
TOTALS	0.0043	0.0002		0.0000	0.0000	
STD. DEVIATIONS	0.0000	0.0000		0.0000	0.0000	

LATERAL DRAINAGE COLLE	CTED FROM I	LAYER 4				
TOTALS	0.0000		0.0000	0.0000	0.0000	0.0000
STD. DEVIATIONS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LATERAL DRAINAGE RECIR	CULATED FRO	M LAYER	4			
TOTALS	0.0043 0.0000		0.0000	0.0000	0.0000	0.0000
STD. DEVIATIONS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE TH	ROUGH LAYER	₹ 6				
TOTALS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
STD. DEVIATIONS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
AVERAGES	OF MONTHLY			ADS (INCHE		
DAILY AVERAGE HEAD ON						
AVERAGES		0.0000	0.0000	0.0000	0.0000	0.0000 0.0000
STD. DEVIATIONS	0.0000		0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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*******	* * * * * * * * * * * * * * * * * * *	******	******* ******** NS) FOR Y	*****	******** ******* THROUGH	*****
**************************************	**************************************	********* DEVIATIO INCHES	******* ******** NS) FOR Y	********** EARS 1 CU. FEE	******** ******* THROUGH	****** ****** 1
*******	**************************************	********* DEVIATIO INCHES	******** NS) FOR Y 0.000)	********* EARS 1 CU. FEE	******** ******** THROUGH ET	******** 1 PERCENT 100.00

SUBSURFACE INFLOW INTO LAYER 2	10.00000		36300.000	61.34969
DRAINAGE RECIRCULATED INTO LAYER 2	0.00446 (0.00000)	16.203	0.02738
LATERAL DRAINAGE COLLECTED FROM LAYER 4	0.00000 (0.00000)	0.000	0.00000
DRAINAGE RECIRCULATED FROM LAYER 4	0.00446 (0.00000)	16.203	0.02738
PERCOLATION/LEAKAGE THROUGH LAYER 6	0.00000 (0.00000)	0.002	0.00000
AVERAGE HEAD ON TOP OF LAYER 5	0.000 (0.000)		
CHANGE IN WATER STORAGE	6.140 (0.0000)	22287.70	37.668
******	*****	*****	****	*****

PEAK DAILY VALUES FOR YEARS	1 THROUGH	1
	(INCHES)	(CU. FT.)
PRECIPITATION	1.32	4791.600
RUNOFF	0.703	2553.3096
DRAINAGE RECIRCULATED INTO LAYER 2	0.00163	5.90765
DRAINAGE COLLECTED FROM LAYER 4	0.00000	0.00000
DRAINAGE RECIRCULATED FROM LAYER 4	0.00163	5.90765
PERCOLATION/LEAKAGE THROUGH LAYER 6	0.000000	0.00004
AVERAGE HEAD ON TOP OF LAYER 5	0.001	
MAXIMUM HEAD ON TOP OF LAYER 5	0.009	
LOCATION OF MAXIMUM HEAD IN LAYER 4 (DISTANCE FROM DRAIN)	O.O FEET	
SNOW WATER	0.00	0.0000
MAXIMUM VEG. SOIL WATER (VOL/VOL)	0.2	2828

MINIMUM VEG. SOIL WATER (VOL/VOL)

0.2006

Maximum heads are computed using McEnroe's equations.

Reference: Maximum Saturated Depth over Landfill Liner

by Bruce M. McEnroe, University of Kansas ASCE Journal of Environmental Engineering Vol. 119, No. 2, March 1993, pp. 262-270.

FINAL WATER	STORAGE AT EN	O OF YEAR 1
LAYER	(INCHES)	(VOL/VOL)
1	3.3672	0.2806
2	308.6690	0.2572
3	9.8571	0.4107
4	0.0026	0.0100
5	0.0000	0.0000
6	10.8240	0.4510
SNOW WATER	0.000	
