

APPENDIX E

LESA Models

**LESA ASSESSMENT
CALEXICO SOLAR FARM II
PHASE A PROJECT AREA**

CALEXICO SOLAR FARM II PHASE A PROJECT

**(NW/4 (portion) Section 17, NE/4 Section 17, S/2 Section 17,
SE/4 Section 18, NW/4 Section 20, NE/4 (portion) Section 20,
Lot 1 (portion) Section 20, T17S, R14E, SBB&M)**

IMPERIAL COUNTY, CALIFORNIA

April 2011

EMA Report No. 2176-02A

Prepared for:

89MA 8ME, LLC
10100 Santa Monica Boulevard, Suite 300
Los Angeles, California 90067



ENVIRONMENTAL MANAGEMENT ASSOCIATES

LAND EVALUATION AND SITE ASSESSMENT MODEL

CALEXICO SOLAR FARM II PHASE A PROJECT

**(NW/4 (portion) Section 17, NE/4 Section 17, S/2 Section 17,
SE/4 Section 18, NW/4 Section 20, NE/4 (portion) Section 20,
Lot 1 (portion) Section 20, T17S, R14E, SBB&M)**

IMPERIAL COUNTY, CALIFORNIA

The Land Evaluation and Site Assessment (LESA) model is an approach for rating the relative quality of land resources based upon specific measurable features. The LESA model was first developed by the federal Natural Resources Conservation Service (NRCS) in 1981. It was subsequently adapted in 1990 by the California Department of Conservation to evaluate land use decisions that affect the conversion of agriculture lands in California. The formulation of the California LESA Model is intended to provide lead agencies under the California Environmental Quality Act (CEQA) with an optional methodology to ensure that significant effects on the environment of agricultural land conversions are quantitatively and consistently considered in the environmental review process.

For determining the potential CEQA significance resulting from the conversion of agricultural lands to some other purpose, the California Agricultural LESA Model has developed Scoring Thresholds which are used to compare the Final LESA Score and the Weighted Factor Scores for the Project with suggested Scoring Decisions. These LESA Scores do not take into consideration any proposed mitigation measures or other factors that might affect a lead agency's determination of the significance of the agricultural lands conversion impact under CEQA.

The information provided on the following pages present documentation of the LESA assessment prepared using the California Agricultural LESA Model for the proposed Calexico Solar Farm II Phase A Project (Project) (APN 059-110-003-000; 059-110-006-000; 059-110-007-000; 059-110-008-000; and 059-130-003-000). The proposed Project would be constructed on approximately 940 acres of privately owned land located about four miles west of the city of Calexico, California (Figure 1). The Project is bounded on the north by California State Highway 98, and bounded on the east by Anza Road, an Imperial County road (Figure 1). The international border with Mexico is located immediately south of Project.

LESA ASSESSMENT
89MA 8ME, LLC
CALEXICO SOLAR FARM II PHASE A PROJECT
IMPERIAL COUNTY, NEVADA

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APPENDIX A: CALEXICO SOLAR FARM II PHASE A PROJECT SOILS DETAILS



Figure 1 : Location Map

Land Evaluation Worksheet							
A	B	C	D	E	F	G	H
Soil Map Unit*	Project Acres	Proportion of Project Area	LCC** (irrigated)	LCC Rating (irrigated)***	LCC Score (C x E)	Storie Index**	Storie Index Score (C x G)
114	577.21	0.614	IIIw	60	36.84	42	25.79
115	362.87	0.386	IIIw	60	23.16	67	25.86
Totals	940	1.000		LCC Total Score	60	Storie Index Total Score	52
Total Project Area (acres)=	940						
* The Soil Map Unit information and acreage were determined from the current soil survey information available at the USDA Natural Resources Conservation Service website: http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx (Figure 2).							
** The Land Capability Classification and Storie Index information was obtained from the current soil survey information available at the USDA Natural Resources Conservation Service website: http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx (Appendix A).							
*** The LCC Rating for irrigated land was determined from the LCC Point Rating Table 2 from the LESA Instruction Manual (California Department of Conservation 1997).							



Figure 2 : Project Area Soils Map

	Site Assessment Worksheet 1		
	Project Size Score*		
	I	J	K
	LCC Class I-II	LCC Class III	LCC Class IV-VIII
<i>Project Acres per LCC Class</i>		577.21	
<i>Project Acres per LCC Class</i>		362.87	
<i>Project Acres per LCC Class</i>			
<i>Project Acres per LCC Class</i>			
<i>Project Acres per LCC Class</i>			
Total Project Acres per LCC Class		940	0
* Project Size Scores	0	100	0
Highest Project Size Score	100		
* Project Size Score was determined from the Project Size Scoring Table from the LESA Instruction Manual (California Department of Conservation 1997).			

Site Assessment Worksheet 2				
Water Resources Availability				
A	B	C	D	E
Project Portion	Water Source	Proportion of Project Area	Water Availability Score*	Weighted Availability Score (C x D)
1	Irrigation District Only	1.0	100	100
2				
3				
4				
5				
6				
		(Must Sum to 1.0)	Total Water Resource Score	100

* The Water Availability Score was determined using the Water Resources Availability Scoring Table from the LESA Instruction Manual (California Department of Conservation 1997).

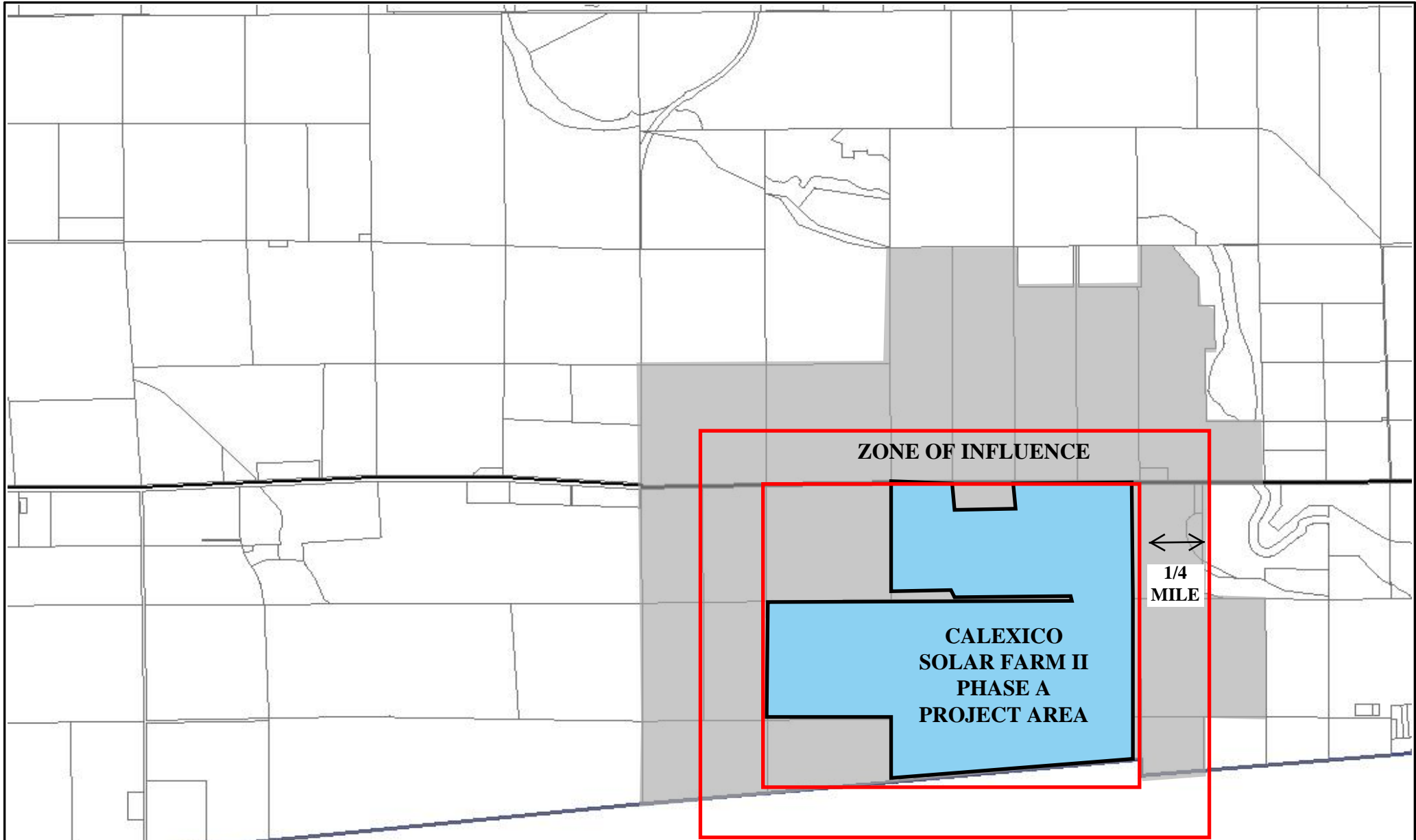
Site Assessment Worksheet 3						
Surrounding Agricultural Land & Surrounding Protected Resource Land						
A	B	C	D	E	F	G
Zone of Influence*					Surrounding Agricultural Land Score (From LESA Manual Table 6)	Surrounding Protected Resource Land Score (From LESA Manual Table 7)**
Total Acres	Acres in Agriculture	Acres of Protected Resource Land	Percent in Agriculture (B/A)	Percent Protected Resource Land (C/A)		
2155.7	2045	0	95	0	100	0

* In conformance with the instructions in the LESA Instruction Manual (California Department of Conservation 1997), the Zone of Influence was determined by drawing the smallest rectangle that could completely encompass the entire Project Area. A second rectangle was then drawn which extended one quarter mile on all sides beyond the first rectangle. The Zone of Influence is represented by the entire area of all parcels with any lands inside the outer rectangle, less the area of the proposed project (Figure 3).


** The LESA Instruction Manual (California Department of Conservation 1997) describes *Protected Resource Land* as those lands with long term use restrictions that are compatible with or supportive of agricultural uses of land. Included among them are the following: Williamson Act contracted lands; Publicly owned lands maintained as park, forest, or watershed resources; and Lands with agricultural, wildlife habitat, open space, or other natural resource easements that restrict the conversion of such land to urban or industrial uses.

Surrounding Parcels***	Acres	Protected Resource Land?	Percent Protected Resource Land	Acres in Protected Land	Agricultural Land?	Percent Agricultural Land	Acres of Agriculture
059-070-014	205.7	N	0	0	Y	60	123.4
059-070-015	4.3	N	0	0	Y	100	4.3
059-100-029	71.6	N	0	0	Y	100	71.6
059-100-030	6.3	N	0	0	N	0	0.0
059-100-001	2.5	N	0	0	N	0	0.0
059-100-013	167.2	N	0	0	Y	100	167.2
059-100-028	39.5	N	0	0	Y	100	39.5
059-120-001	167.2	N	0	0	Y	100	167.2
059-050-003	165.5	N	0	0	Y	100	165.5
059-120-002	78.7	N	0	0	Y	100	78.7
059-120-003	82.1	N	0	0	Y	100	82.1
059-130-001	81.7	N	0	0	Y	100	81.7
059-130-002	85.2	N	0	0	Y	100	85.2
059-130-005	109.7	N	0	0	Y	100	109.7
059-130-004	96.0	N	0	0	Y	100	96.0

Surrounding Parcels***	Acres	Protected Resource Land?	Percent Protected Resource Land	Acres in Protected Land	Agricultural Land?	Percent Agricultural Land	Acres of Agriculture
059-120-004	161.6	N	0	0	Y	100	161.6
059-110-004	10.4	N	0	0	Y	40	4.2
059-110-001	18.4	N	0	0	Y	100	18.4
059-060-007	163.2	N	0	0	Y	100	163.2
059-060-006	163.6	N	0	0	Y	97	158.7
059-060-005	138.3	N	0	0	Y	97	134.1
059-060-004	137.2	N	0	0	Y	97	133.1
Total	2155.7		Total	0		Total	2045.2
<p>**The Imperial County Assessors website was accessed to identify the surrounding parcel numbers (http://imperialcounty.net/Assessor/index.html). The percentage of agriculture was determined from a map overlay used to estimate the proportion of land in agriculture and the California Department of Conservation Important Farmland Map Series.</p>							



LEGEND

 PROJECT AREA


 ZONE OF INFLUENCE

Figure 3 : Zone of Influence Map





This map represents a visual display of related geographic information. Data provided hereon is not a guarantee of actual field conditions. To be sure of complete accuracy, please contact IMPERIALCOUNTY_PUBLIC staff for the most up-to-date information.

Final LESA Score Sheet				California LESA Model Scoring Thresholds	
	Factor Scores	Factor Weight	Weighted Factor Scores	Total LESA Score	Scoring Decision
LE Factors					
Land Capability Classification	60.00	0.25	15.00	0 to 39 Points	Not Considered Significant
Storie Index	51.65	0.25	12.91		
LE subtotal		0.50	27.91		
SA Factors					
Project Size	100	0.15	15.00	40 to 59 Points	Considered Significant <u>only</u> if LE and SA subscores are each <u>greater</u> than or equal to 20 points
Water Resource Availability	100	0.15	15.00		
Surrounding Agricultural Land	100	0.15	15.00	60 to 79 Points	Considered Significant <u>unless</u> either LE <u>or</u> SA subscore is <u>less</u> than 20 points
Protected Resource Land	0	0.05	0.00		
SA Subtotal		0.50	45.00		
		Total LESA Score	72.91	80 to 100 Points	Considered Significant

APPENDIX A: CALEXICO SOLAR FARM II PHASE A PROJECT SOILS DETAILS

Imperial County, California, Imperial Valley Area

114—IMPERIAL SILTY CLAY, WET

Map Unit Setting

Elevation: -230 to 200 feet

Mean annual precipitation: 0 to 3 inches

Mean annual air temperature: 72 to 75 degrees F

Frost-free period: 300 to 350 days

Map Unit Composition

Imperial, wet, and similar soils: 85 percent

Minor components: 15 percent

Description of Imperial, Wet

Setting

Landform: Basin floors

Landform position (three-dimensional): Talf

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Clayey alluvium derived from mixed sources and/or
clayey lacustrine deposits derived from mixed sources

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Moderately well drained

Capacity of the most limiting layer to transmit water

(Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Maximum salinity: Very slightly saline to slightly saline (4.0 to 8.0
mmhos/cm)

Sodium adsorption ratio, maximum: 20.0

Available water capacity: Moderate (about 8.3 inches)

Interpretive groups

Land capability classification (irrigated): 3w

Land capability (nonirrigated): 7w

Typical profile

0 to 12 inches: Silty clay

12 to 60 inches: Silty clay loam

Minor Components

Glenbar

Percent of map unit: 4 percent

Meloland

Percent of map unit: 4 percent

Holtville

Percent of map unit: 4 percent

Niland

Percent of map unit: 3 percent

Data Source Information

Soil Survey Area: Imperial County, California, Imperial Valley Area
Survey Area Data: Version 5, Jul 25, 2008

Imperial County, California, Imperial Valley Area

115—IMPERIAL-GLENBAR SILTY CLAY LOAMS, WET, 0 TO 2 PERCENT SLOPES

Map Unit Setting

Elevation: -230 to 200 feet

Mean annual precipitation: 0 to 3 inches

Mean annual air temperature: 72 to 75 degrees F

Frost-free period: 300 to 350 days

Map Unit Composition

Glenbar, wet, and similar soils: 40 percent

Imperial, wet, and similar soils: 40 percent

Minor components: 20 percent

Description of Imperial, Wet

Setting

Landform: Basin floors

Landform position (three-dimensional): Talf

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Clayey alluvium derived from mixed sources and/or clayey lacustrine deposits derived from mixed sources

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Moderately well drained

Capacity of the most limiting layer to transmit water

(Ksat): Moderately high (0.20 to 0.57 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Maximum salinity: Very slightly saline to slightly saline (4.0 to 8.0 mmhos/cm)

Sodium adsorption ratio, maximum: 20.0

Available water capacity: Moderate (about 8.6 inches)

Interpretive groups

Land capability classification (irrigated): 3w

Land capability (nonirrigated): 7w

Typical profile

0 to 12 inches: Silty clay loam

12 to 60 inches: Silty clay loam

Description of Glenbar, Wet

Setting

Landform: Basin floors

Landform position (three-dimensional): Talf

Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from mixed

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Moderately well drained
Capacity of the most limiting layer to transmit water
(Ksat): Moderately high (0.20 to 0.57 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Maximum salinity: Nonsaline to slightly saline (2.0 to 8.0 mmhos/cm)
Sodium adsorption ratio, maximum: 15.0
Available water capacity: High (about 10.8 inches)

Interpretive groups

Land capability classification (irrigated): 3w
Land capability (nonirrigated): 7w

Typical profile

0 to 13 inches: Silty clay loam
13 to 60 inches: Clay loam

Minor Components

Holtville

Percent of map unit: 10 percent

Meloland

Percent of map unit: 10 percent

Data Source Information

Soil Survey Area: Imperial County, California, Imperial Valley Area
Survey Area Data: Version 5, Jul 25, 2008

California Revised Storie Index Rating (CA)

The Storie Index is a soil rating based on soil properties that govern a soil's potential for cultivated agriculture in California.

The Storie Index assesses the productivity of a soil from the following four characteristics: Factor A, degree of soil profile development; factor B, texture of the surface layer; factor C, slope; and factor X, manageable features, including drainage, microrelief, fertility, acidity, erosion, and salt content. A score ranging from 0 to 100 percent is determined for each factor, and the scores are multiplied together to derive an index rating.

For simplification, Storie Index ratings have been combined into six grades classes as follows: Grade 1 (excellent), 100 to 80; grade 2 (good), 79 to 60; grade 3 (fair), 59 to 40; grade 4 (poor), 39 to 20; grade 5 (very poor), 19 to 10; and grade 6 (nonagricultural), less than 10.

Report—California Revised Storie Index Rating (CA)

The Storie Index is a soil rating based on soil properties that govern a soil map unit component's potential for cultivated agriculture. [Absence of an entry indicates that a Storie Index rating is not applicable or was not estimated]. For simplification, Storie Index ratings have been combined into six grades as follows: Grade 1 (Excellent): Soils that rate between 80 and 100 and which are suitable for a wide range of crops. Grade 2 (Good) Soils that rate between 60 and 79 and which are suitable for a wide range of crops. Grade 3 (Fair): Soils that range between 40 and 59. Soils in this grade may give good results with certain specialized crops. Grade 4 (Poor): Soils that rate between 20 and 39 and which have a narrow range in their agricultural potential. Grade 5 (Very Poor): Soil that rate between 10 and 19 and are of very limited agricultural use except for pasture because of adverse soil conditions. Grade 6 (Nonagricultural): Soils that rate less than 10. [The numbers in the "Limiting feature value" column range from 0.01 to 1.00. Soils with a smaller the value have a lower potential for cultivated agriculture. The table shows each of the sub-factors used to generate the Storie Index rating for each soil component].

California Revised Storie Index Rating (CA)— Imperial County, California, Imperial Valley Area				
Map symbol and soil name	Pct. of map unit	California Revised Storie Index (CA)		
		Storie index rating	Storie index grade and limiting features	Limiting feature value
114—IMPERIAL SILTY CLAY, WET				
Imperial, wet	85	42	Grade Three - Fair	
			Rated Soil Order	1.00
			Profile Group	1.00
			Nearly level to gently sloping	0.98
			Wetness, flooding, ponding, drainage, erosion	0.90
			Toxicity	0.80

California Revised Storie Index Rating (CA)– Imperial County, California, Imperial Valley Area				
Map symbol and soil name	Pct. of map unit	California Revised Storie Index (CA)		
		Storie index rating	Storie index grade and limiting features	Limiting feature value
115—IMPERIAL-GLENBAR SILTY CLAY LOAMS, WET, 0 TO 2 PERCENT SLOPES				
Glenbar, wet	40	72	Grade Two - Good	
			Rated Soil Order	1.00
			Profile Group	1.00
			Nearly level to gently sloping	0.98
			USDA Texture	0.95
			Wetness, flooding, ponding, drainage, erosion	0.90
Imperial, wet	40	67	Grade Two - Good	
			Rated Soil Order	1.00
			Profile Group	1.00
			Nearly level to gently sloping	0.98
			USDA Texture	0.95
			Wetness, flooding, ponding, drainage, erosion	0.90

Data Source Information

Soil Survey Area: Imperial County, California, Imperial Valley Area

Survey Area Data: Version 5, Jul 25, 2008

**LESA ASSESSMENT
CALEXICO SOLAR FARM II
PHASE B PROJECT AREA**

CALEXICO SOLAR FARM II PHASE B PROJECT

**(NW/4 Section 12, W/2 NE/4 Section 12,
E/2 NE/4 (portion) Section 12, SE/4 Section 12, T17S R13E SBB&M)**

IMPERIAL COUNTY, CALIFORNIA

April 2011

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ENVIRONMENTAL MANAGEMENT ASSOCIATES

LAND EVALUATION AND SITE ASSESSMENT MODEL

CALEXICO SOLAR FARM II PHASE B PROJECT

**(NW/4 Section 12, W/2 NE/4 Section 12,
E/2 NE/4 (portion) Section 12, SE/4 Section 12, T17S R13E SBB&M)**

IMPERIAL COUNTY, CALIFORNIA

The Land Evaluation and Site Assessment (LESA) model is an approach for rating the relative quality of land resources based upon specific measurable features. The LESA model was first developed by the federal Natural Resources Conservation Service (NRCS) in 1981. It was subsequently adapted in 1990 by the California Department of Conservation to evaluate land use decisions that affect the conversion of agriculture lands in California. The formulation of the California LESA Model is intended to provide lead agencies under the California Environmental Quality Act (CEQA) with an optional methodology to ensure that significant effects on the environment of agricultural land conversions are quantitatively and consistently considered in the environmental review process.

For determining the potential CEQA significance resulting from the conversion of agricultural lands to some other purpose, the California Agricultural LESA Model has developed Scoring Thresholds which are used to compare the Final LESA Score and the Weighted Factor Scores for the Project with suggested Scoring Decisions. These LESA Scores do not take into consideration any proposed mitigation measures or other factors that might affect a lead agency's determination of the significance of the agricultural lands conversion impact under CEQA.

The information provided on the following pages present documentation of the LESA assessment prepared using the California Agricultural LESA Model for the proposed Calexico Solar Farm II Phase B Project (Project) (APN 052-180-022-000; 052-180-043-000 [portion]; 052-180-044-000; 052-180-050-000; and 052-180-051-000). The proposed Project would be constructed on approximately 528 acres of privately owned land located about six miles west of the city of Calexico, California (Figure 1). The Project is bounded on the south by California State Highway 98, bounded on the east by Ferrell Road and bounded on the north by Kubler Road, which are Imperial County roads (Figure 1).

LESA ASSESSMENT
89MA 8ME, LLC
CALEXICO SOLAR FARM II PHASE B PROJECT
IMPERIAL COUNTY, NEVADA

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APPENDIX A: CALEXICO SOLAR FARM II PHASE B PROJECT SOILS DETAILS

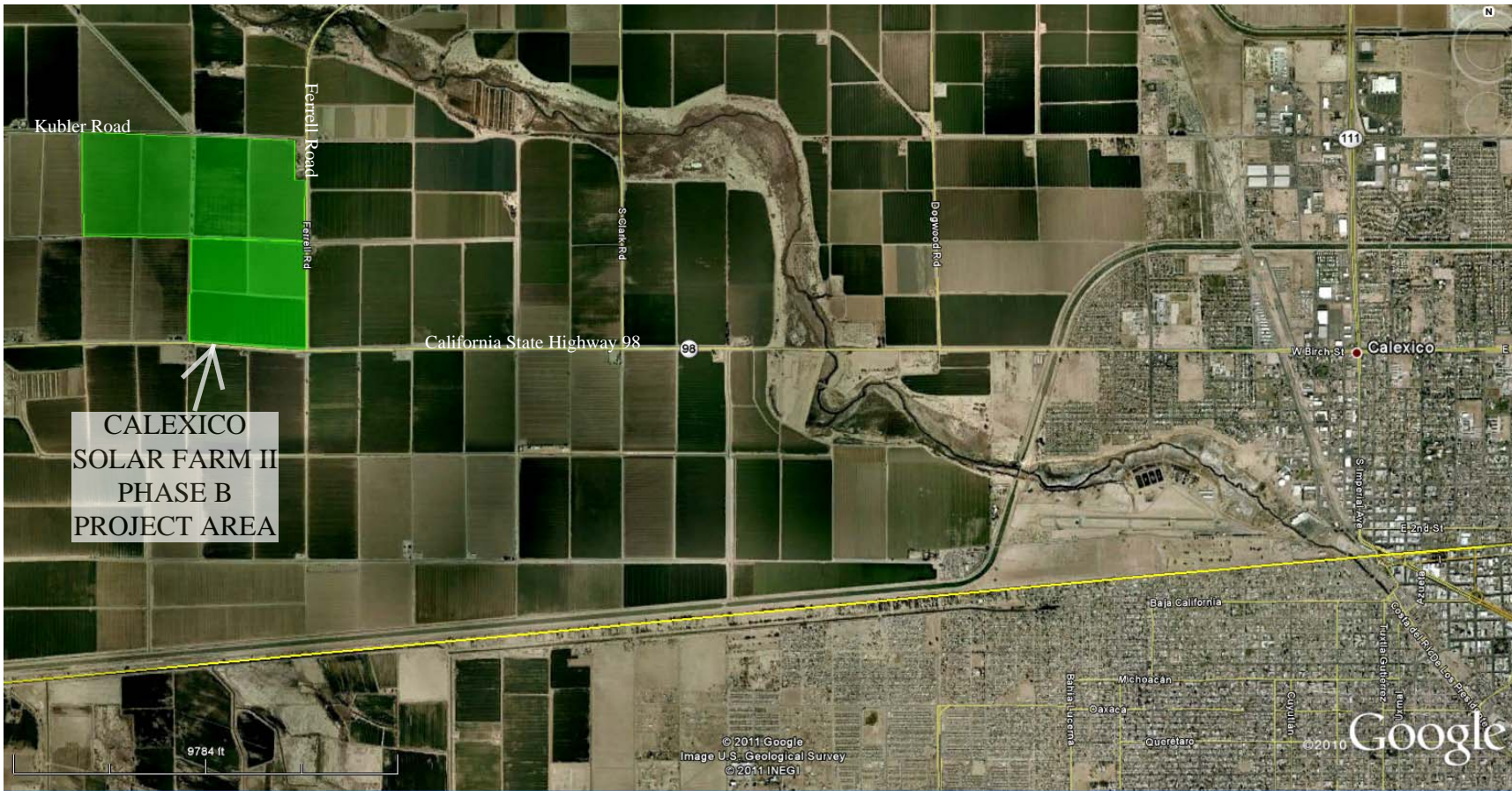


Figure 1 : Location Map

Land Evaluation Worksheet							
A	B	C	D	E	F	G	H
Soil Map Unit*	Project Acres	Proportion of Project Area	LCC** (irrigated)	LCC Rating (irrigated)***	LCC Score (C x E)	Storie Index**	Storie Index Score (C x G)
110	6.87	0.013	IIw	80	1.04	45	0.59
114	231.85	0.439	IIIw	60	26.34	42	18.44
115	289.42	0.548	IIIw	60	32.88	67	36.72
Totals	528	1.000		LCC Total Score	60	Storie Index Total Score	56
Total Project Area (acres)=	528						
* The Soil Map Unit information and acreage were determined from the current soil survey information available at the USDA Natural Resources Conservation Service website: http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx (Figure 2).							
** The Land Capability Classification and Storie Index information was obtained from the current soil survey information available at the USDA Natural Resources Conservation Service website: http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx (Appendix A).							
*** The LCC Rating for irrigated land was determined from the LCC Point Rating Table 2 from the LESA Instruction Manual (California Department of Conservation 1997).							



Figure 2 : Project Area Soils Map

	Site Assessment Worksheet 1		
	Project Size Score*		
	I	J	K
	LCC Class I-II	LCC Class III	LCC Class IV-VIII
<i>Project Acres per LCC Class</i>	6.87	231.85	
<i>Project Acres per LCC Class</i>		289.42	
<i>Project Acres per LCC Class</i>			
<i>Project Acres per LCC Class</i>			
<i>Project Acres per LCC Class</i>			
Total Project Acres per LCC Class	7	521.27	0
* Project Size Scores	0	100	0
Highest Project Size Score			
	100		
* Project Size Score was determined from the Project Size Scoring Table from the LESA Instruction Manual (California Department of Conservation 1997).			

Site Assessment Worksheet 2				
Water Resources Availability				
A	B	C	D	E
Project Portion	Water Source	Proportion of Project Area	Water Availability Score*	Weighted Availability Score (C x D)
1	Irrigation District Only	1.0	100	100
2				
3				
4				
5				
6				
		(Must Sum to 1.0)	Total Water Resource Score	100

* The Water Availability Score was determined using the Water Resources Availability Scoring Table from the LESA Instruction Manual (California Department of Conservation 1997).

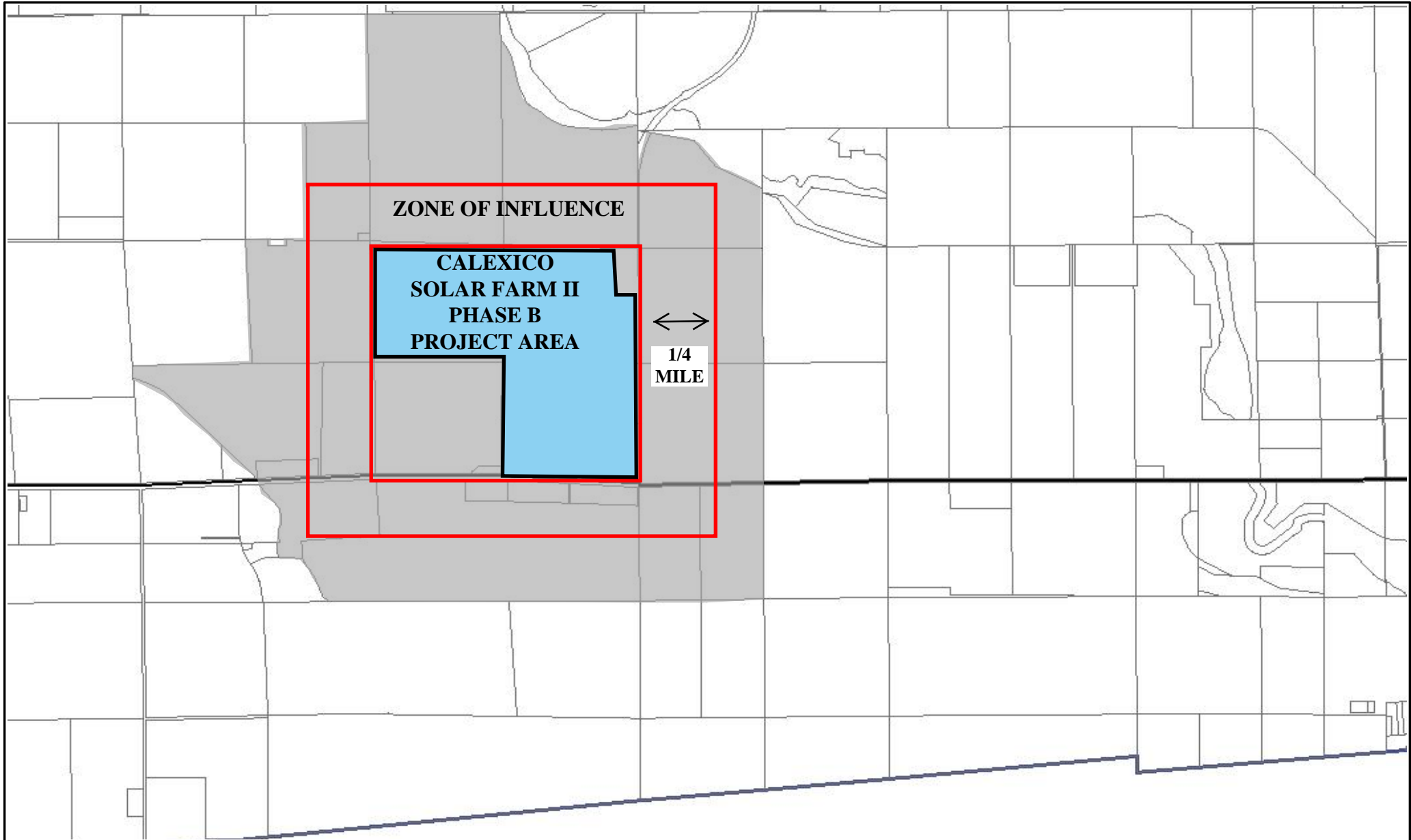
Site Assessment Worksheet 3						
Surrounding Agricultural Land & Surrounding Protected Resource Land						
A	B	C	D	E	F	G
Zone of Influence*					Surrounding Agricultural Land Score (From LESA Manual Table 6)	Surrounding Protected Resource Land Score (From LESA Manual Table 7)**
Total Acres	Acres in Agriculture	Acres of Protected Resource Land	Percent in Agriculture (B/A)	Percent Protected Resource Land (C/A)		
2297.2	2206	0	96	0	100	0

* In conformance with the instructions in the LESA Instruction Manual (California Department of Conservation 1997), the Zone of Influence was determined by drawing the smallest rectangle that could completely encompass the entire Project Area. A second rectangle was then drawn which extended one quarter mile on all sides beyond the first rectangle. The Zone of Influence is represented by the entire area of all parcels with any lands inside the outer rectangle, less the area of the proposed project (Figure 3).


** The LESA Instruction Manual (California Department of Conservation 1997) describes *Protected Resource Land* as those lands with long term use restrictions that are compatible with or supportive of agricultural uses of land. Included among them are the following: Williamson Act contracted lands; Publicly owned lands maintained as park, forest, or watershed resources; and Lands with agricultural, wildlife habitat, open space, or other natural resource easements that restrict the conversion of such land to urban or industrial uses.

Surrounding Parcels***	Acres	Protected Resource Land?	Percent Protected Resource Land	Acres in Protected Land	Agricultural Land?	Percent Agricultural Land	Acres of Agriculture
052-180-040	67.9	N	0	0	Y	100	67.9
052-180-048	170.7	N	0	0	Y	100	170.7
052-180-054	82.7	N	0	0	Y	100	82.7
052-180-055	1.1	N	0	0	Y	100	1.1
052-180-018	346.3	N	0	0	Y	100	346.3
052-180-042	204.0	N	0	0	Y	100	204.0
059-040-013	128.4	N	0	0	Y	90	115.6
052-180-064	157.7	N	0	0	Y	100	157.7
052-180-065	2.2	N	0	0	Y	100	2.2
052-210-033	10.3	N	0	0	N	0	0.0
052-210-034	14.3	N	0	0	Y	100	14.3
052-210-035	14.6	N	0	0	Y	100	14.6
059-050-001	163.1	N	0	0	Y	100	163.1
059-120-001	167.2	N	0	0	Y	100	167.2
059-120-002	78.7	N	0	0	Y	100	78.7

Surrounding Parcels***	Acres	Protected Resource Land?	Percent Protected Resource Land	Acres in Protected Land	Agricultural Land?	Percent Agricultural Land	Acres of Agriculture
059-120-003	82.1	N	0	0	Y	100	82.1
052-180-039	152.4	N	0	0	Y	95	144.8
052-180-049	11.8	N	0	0	N	0	0.0
052-210-028	71.7	N	0	0	Y	40	28.7
052-210-036	364.0	N	0	0	Y	100	364.0
052-180-043 (PORTION)	6.0	N	0	0	N	0	0.0
Total	2297.2		Total	0		Total	2205.6
<p>**The Imperial County Assessors website was accessed to identify the surrounding parcel numbers (http://imperialcounty.net/Assessor/index.html). The percentage of agriculture was determined from a map overlay used to estimate the proportion of land in agriculture and the California Department of Conservation Important Farmland Map Series.</p>							



LEGEND

 PROJECT AREA


 ZONE OF INFLUENCE

Figure 3 : Zone of Influence Map



Imperial County California logo with a compass rose showing North (N), South (S), East (E), and West (W).

This map represents a visual display of related geographic information. Data provided hereon is not a guarantee of actual field conditions. To be sure of complete accuracy, please contact IMPERIALCOUNTY_PUBLIC staff for the most up-to-date information.

Final LESA Score Sheet				California LESA Model Scoring Thresholds	
	Factor Scores	Factor Weight	Weighted Factor Scores	Total LESA Score	Scoring Decision
LE Factors					
Land Capability Classification	60.26	0.25	15.07	0 to 39 Points	Not Considered Significant
Storie Index	55.74	0.25	13.93		
LE subtotal		0.50	29.00		
SA Factors					
Project Size	100	0.15	15.00	40 to 59 Points	Considered Significant <u>only</u> if LE and SA subscores are each <u>greater</u> than or equal to 20 points
Water Resource Availability	100	0.15	15.00		
Surrounding Agricultural Land	100	0.15	15.00	60 to 79 Points	Considered Significant <u>unless</u> either LE <u>or</u> SA subscore is <u>less</u> than 20 points
Protected Resource Land	0	0.05	0.00		
SA Subtotal		0.50	45.00		
		Total LESA Score	74.00	80 to 100 Points	Considered Significant

APPENDIX A: CALEXICO SOLAR FARM II PHASE B PROJECT SOILS DETAILS

Imperial County, California, Imperial Valley Area

110—HOLTVILLE SILTY CLAY, WET

Map Unit Setting

Elevation: -230 to 200 feet

Mean annual precipitation: 0 to 3 inches

Mean annual air temperature: 72 to 75 degrees F

Frost-free period: 300 to 350 days

Map Unit Composition

Holtville, wet, and similar soils: 85 percent

Minor components: 15 percent

Description of Holtville, Wet

Setting

Landform: Basin floors

Landform position (three-dimensional): Talf

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Alluvium derived from mixed sources

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Moderately well drained

Capacity of the most limiting layer to transmit water (Ksat): Very low
to moderately low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Maximum salinity: Nonsaline to slightly saline (2.0 to 8.0 mmhos/cm)

Sodium adsorption ratio, maximum: 10.0

Available water capacity: Moderate (about 7.6 inches)

Interpretive groups

Land capability classification (irrigated): 2w

Land capability (nonirrigated): 7w

Typical profile

0 to 17 inches: Silty clay

17 to 24 inches: Clay

24 to 35 inches: Silt loam

35 to 60 inches: Loamy very fine sand

Minor Components

Glenbar

Percent of map unit: 5 percent

Imperial

Percent of map unit: 5 percent

Indio

Percent of map unit: 3 percent

Vint

Percent of map unit: 2 percent

Data Source Information

Soil Survey Area: Imperial County, California, Imperial Valley Area
Survey Area Data: Version 5, Jul 25, 2008

Imperial County, California, Imperial Valley Area

114—IMPERIAL SILTY CLAY, WET

Map Unit Setting

Elevation: -230 to 200 feet

Mean annual precipitation: 0 to 3 inches

Mean annual air temperature: 72 to 75 degrees F

Frost-free period: 300 to 350 days

Map Unit Composition

Imperial, wet, and similar soils: 85 percent

Minor components: 15 percent

Description of Imperial, Wet

Setting

Landform: Basin floors

Landform position (three-dimensional): Talf

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Clayey alluvium derived from mixed sources and/or
clayey lacustrine deposits derived from mixed sources

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Moderately well drained

Capacity of the most limiting layer to transmit water

(Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Maximum salinity: Very slightly saline to slightly saline (4.0 to 8.0
mmhos/cm)

Sodium adsorption ratio, maximum: 20.0

Available water capacity: Moderate (about 8.3 inches)

Interpretive groups

Land capability classification (irrigated): 3w

Land capability (nonirrigated): 7w

Typical profile

0 to 12 inches: Silty clay

12 to 60 inches: Silty clay loam

Minor Components

Glenbar

Percent of map unit: 4 percent

Meloland

Percent of map unit: 4 percent

Holtville

Percent of map unit: 4 percent

Niland

Percent of map unit: 3 percent

Data Source Information

Soil Survey Area: Imperial County, California, Imperial Valley Area
Survey Area Data: Version 5, Jul 25, 2008

Imperial County, California, Imperial Valley Area

115—IMPERIAL-GLENBAR SILTY CLAY LOAMS, WET, 0 TO 2 PERCENT SLOPES

Map Unit Setting

Elevation: -230 to 200 feet

Mean annual precipitation: 0 to 3 inches

Mean annual air temperature: 72 to 75 degrees F

Frost-free period: 300 to 350 days

Map Unit Composition

Glenbar, wet, and similar soils: 40 percent

Imperial, wet, and similar soils: 40 percent

Minor components: 20 percent

Description of Imperial, Wet

Setting

Landform: Basin floors

Landform position (three-dimensional): Talf

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Clayey alluvium derived from mixed sources and/or clayey lacustrine deposits derived from mixed sources

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Moderately well drained

Capacity of the most limiting layer to transmit water

(Ksat): Moderately high (0.20 to 0.57 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Maximum salinity: Very slightly saline to slightly saline (4.0 to 8.0 mmhos/cm)

Sodium adsorption ratio, maximum: 20.0

Available water capacity: Moderate (about 8.6 inches)

Interpretive groups

Land capability classification (irrigated): 3w

Land capability (nonirrigated): 7w

Typical profile

0 to 12 inches: Silty clay loam

12 to 60 inches: Silty clay loam

Description of Glenbar, Wet

Setting

Landform: Basin floors

Landform position (three-dimensional): Talf

Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from mixed

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Moderately well drained
Capacity of the most limiting layer to transmit water
(Ksat): Moderately high (0.20 to 0.57 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Maximum salinity: Nonsaline to slightly saline (2.0 to 8.0 mmhos/cm)
Sodium adsorption ratio, maximum: 15.0
Available water capacity: High (about 10.8 inches)

Interpretive groups

Land capability classification (irrigated): 3w
Land capability (nonirrigated): 7w

Typical profile

0 to 13 inches: Silty clay loam
13 to 60 inches: Clay loam

Minor Components

Holtville

Percent of map unit: 10 percent

Meloland

Percent of map unit: 10 percent

Data Source Information

Soil Survey Area: Imperial County, California, Imperial Valley Area
Survey Area Data: Version 5, Jul 25, 2008

California Revised Storie Index Rating (CA)

The Storie Index is a soil rating based on soil properties that govern a soil's potential for cultivated agriculture in California.

The Storie Index assesses the productivity of a soil from the following four characteristics: Factor A, degree of soil profile development; factor B, texture of the surface layer; factor C, slope; and factor X, manageable features, including drainage, microrelief, fertility, acidity, erosion, and salt content. A score ranging from 0 to 100 percent is determined for each factor, and the scores are multiplied together to derive an index rating.

For simplification, Storie Index ratings have been combined into six grades classes as follows: Grade 1 (excellent), 100 to 80; grade 2 (good), 79 to 60; grade 3 (fair), 59 to 40; grade 4 (poor), 39 to 20; grade 5 (very poor), 19 to 10; and grade 6 (nonagricultural), less than 10.

Report—California Revised Storie Index Rating (CA)

The Storie Index is a soil rating based on soil properties that govern a soil map unit component's potential for cultivated agriculture. [Absence of an entry indicates that a Storie Index rating is not applicable or was not estimated]. For simplification, Storie Index ratings have been combined into six grades as follows: Grade 1 (Excellent): Soils that rate between 80 and 100 and which are suitable for a wide range of crops. Grade 2 (Good) Soils that rate between 60 and 79 and which are suitable for a wide range of crops. Grade 3 (Fair): Soils that range between 40 and 59. Soils in this grade may give good results with certain specialized crops. Grade 4 (Poor): Soils that rate between 20 and 39 and which have a narrow range in their agricultural potential. Grade 5 (Very Poor): Soil that rate between 10 and 19 and are of very limited agricultural use except for pasture because of adverse soil conditions. Grade 6 (Nonagricultural): Soils that rate less than 10. [The numbers in the "Limiting feature value" column range from 0.01 to 1.00. Soils with a smaller the value have a lower potential for cultivated agriculture. The table shows each of the sub-factors used to generate the Storie Index rating for each soil component].

California Revised Storie Index Rating (CA)— Imperial County, California, Imperial Valley Area				
Map symbol and soil name	Pct. of map unit	California Revised Storie Index (CA)		
		Storie index rating	Storie index grade and limiting features	Limiting feature value
110—HOLTVILLE SILTY CLAY, WET				
Holtville, wet	85	45	Grade Three - Fair	
			Rated Soil Order	1.00
			Profile Group	1.00
			Nearly level to gently sloping	0.98
			Wetness, flooding, ponding, drainage, erosion	0.90
			Toxicity	0.85

California Revised Storie Index Rating (CA)– Imperial County, California, Imperial Valley Area				
Map symbol and soil name	Pct. of map unit	California Revised Storie Index (CA)		
		Storie index rating	Storie index grade and limiting features	Limiting feature value
114—IMPERIAL SILTY CLAY, WET				
Imperial, wet	85	42	Grade Three - Fair	
			Rated Soil Order	1.00
			Profile Group	1.00
			Nearly level to gently sloping	0.98
			Wetness, flooding, ponding, drainage, erosion	0.90
			Toxicity	0.80
115—IMPERIAL-GLENBAR SILTY CLAY LOAMS, WET, 0 TO 2 PERCENT SLOPES				
Glenbar, wet	40	72	Grade Two - Good	
			Rated Soil Order	1.00
			Profile Group	1.00
			Nearly level to gently sloping	0.98
			USDA Texture	0.95
			Wetness, flooding, ponding, drainage, erosion	0.90
Imperial, wet	40	67	Grade Two - Good	
			Rated Soil Order	1.00
			Profile Group	1.00
			Nearly level to gently sloping	0.98
			USDA Texture	0.95
			Wetness, flooding, ponding, drainage, erosion	0.90

Data Source Information

Soil Survey Area: Imperial County, California, Imperial Valley Area
Survey Area Data: Version 5, Jul 25, 2008