

December 10, 2013

Anthony A. Klecha Principal Environmental Scientist Southern California Gas Company P.O. Box 30777 Los Angeles, CA 90030

Subject: Jurisdictional Delineation Report

Potential Well Sites, Playa del Rey Storage Facility

Dear Mr. Klecha:

This letter report documents the findings of a routine jurisdictional delineation conducted by ICF International (ICF) for the Southern California Gas Company (SoCalGas) at the Potential Well Sites at the Playa del Rey Storage Facility (project). The purpose of the delineation is to assess the limits of potential features subject to the jurisdiction of the U.S. Army Corps of Engineers (USACE), Regional Water Quality Control Board (RWQCB), California Department of Fish and Wildlife (CDFW), and the California Coastal Commission (CCC) pursuant to Sections 404 and 401 of the Clean Water Act, Section 13260 of the Porter-Cologne Water Quality Control Act (California Water Code 13260[a]), Section 1602 of the California Fish and Game Code, and the California Coastal Act. Specifically, the delineation was conducted for the purpose of providing SoCalGas the location of potential jurisdictional resources within seven separate potential project footprints.

Project Location

The project site is located at an existing SoCalGas facility in Playa del Rey in Los Angeles County, California (Figure 1). The facility is found on the U.S. Geological Survey (USGS) 7.5-minute topographical map Venice quadrangle (dated 1964 and photorevised in 1981) within an unsectioned portion of Township 2 South and Range 15 West (Figure 2). It is generally located northeast of the intersection of Falmouth Avenue and West 83rd Street (Figure 3).

Within the existing facility, the study area consists of seven separate potential project footprints. Sites 1 and 2 are located at the upper portion of the existing facility, located north of the intersection of Gulana Avenue and West 29th Street, and are approximately 150 feet above mean sea level (msl). Sites 3–7 are located at the lower portion of the existing facility, approximately 300 feet northwest of the upper facility, at the western terminus of Falmouth Street. These sites are located approximately 5 feet above msl. The coordinates for the approximate centerpoint for each of the seven potential sites are listed below (Table 1).

Table 1. Project Location on USGS 7.5 Minute Quadrangles

Site	Latitude	Longitude
1	33.962914°	-118.436739°
2	33.962875°	-118.437491°
3	33.963281°	-118.439935°
4	33.962849°	-118.440713°
5	33.964415°	-118.438851°
6	33.964864°	-118.436117°
7	33.965152°	-118.435449°

Methodology

The study area consisted of the seven separate potential project footprints, plus a 50-foot buffer around each footprint. However, where the potential project footprint or buffer extended into an area that had previously been subject to jurisdictional delineation by WRA Environmental Consultants (WRA), the study area for this delineation was reduced so that no overlap occurred. The findings for the previous delineation are documented in the Ballona Creek Wetlands Ecological Reserve Preliminary Delineation of Wetlands and Non-Wetland Waters, prepared by WRA and dated August 2011.

ICF senior biologist Paul Schwartz and senior regulatory specialist Megan Jameson conducted a routine jurisdictional delineation at the site on December 2, 2013, and Paul Schwartz conducted a follow-up visit on December 6, 2013. Prior to beginning the field delineation, a 200-scale color aerial photograph was analyzed to determine the locations of potential areas of USACE, RWQCB, CDFW and/or CCC jurisdiction. During the fieldwork, the study area was surveyed on foot. Jurisdictional limits were recorded onto a 200-scale color aerial photograph using visible landmarks and were mapped using a Trimble Yuma global positioning system (GPS) unit with a Trimble Pro XT receiver, which provided sub-meter accuracy. Common plant species observed were identified by visual characteristics and morphology in the field. Taxonomic nomenclature for plants follows *The Jepson Manual: Higher Plants of California*, 2nd edition (Baldwin et al. 2012).

Potentially jurisdictional features within the study area were evaluated for the presence of a definable channel and/or wetland vegetation, soils, and hydrology. The project area was analyzed for potential wetlands using the methodology set forth in the USACE 1987 Wetland Delineation Manual (Wetland Manual) (Environmental Laboratory 1987) and the 2008 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region Version 2.0 (Arid West Supplement) (USACE 2008a). Lateral limits of non-wetland waters were identified using field indicators of an Ordinary High Water Mark (OHWM) (USACE 2008b). Wetland indicator status for plants was determined using the Arid West 2013 Regional Wetland Plant List (USACE 2013).

For features potentially subject to USACE and RWQCB jurisdiction, non-wetland waters were delineated based on the presence of OHWM indicators. At each evaluation area, three criteria were considered to determine whether the sample point was within a wetland. The three criteria that

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must be fulfilled in order to classify an area as a jurisdictional USACE wetland (in normal conditions) are: (1) a predominance of hydrophytic vegetation, (2) the presence of hydric soils, and (3) the presence of wetland hydrology.

CDFW jurisdiction typically includes water features with a defined bed and bank and extent of associated riparian or wetland vegetation. Evaluation of potentially jurisdictional areas followed the guidance of relevant standard practices by CDFW personnel. Briefly, CDFW jurisdiction was delineated by measuring the outer width and length boundaries of potentially jurisdictional areas, consisting of the greater of either the top of bank measurement or the extent of associated riparian or wetland vegetation.

To identify CCC jurisdiction, the study areas were first evaluated for inclusion within the coastal zone. Sites 1 and 2 were not within the coastal zone; however, Sites 3–7 were within the coastal zone. Subsequently, CCC jurisdiction is identified using the same parameters listed above for USACE and RWQCB wetland determinations. However, while the USACE determines a feature to be a wetland only if it exhibits all three criteria (in normal conditions), the CCC determines a feature to be a wetland if it exhibits any of the three criteria. Therefore, any features within Sites 3–7 that exhibited any of the three USACE criteria listed above are considered a CCC wetland.

Environmental Setting

Sites 1 and 2 are located on top of the bluffs overlooking the Ballona Creek Wetland Ecological Reserve, approximately 150 feet above msl, and Sites 3–7 are located on the southern edge of the Ballona Reserve, approximately 5 feet above msl. Average annual rainfall for the study area (Santa Monica Pier, California) totals 12.62 inches per year (Western Regional Climate Center 2013).

The lower sites receive flows primarily through runoff from the adjacent bluffs and residential areas, both from rainfall and from nuisance flows such as irrigation. Furthermore, the lower sites are south of and adjacent to a low-lying, undeveloped area known as the Ballona Creek Wetlands, and north of the Ballona Creek Wetlands are the Ballona Channel and the Marina del Rey Marina. The upper facility is bounded on the north by a steep slope leading down to the lower facility and by residential properties to the south, east, and west. The lower facility is bounded by slopes along the southern side and the Ballona Creek Wetlands to the north, east, and west. The slope along the southern side of the lower facility supports the upper SoCalGas facility as well as residential properties at the east and west ends. The lower facility is adjacent to open areas mapped by the USFWS National Wetlands Inventory as Freshwater Emergent, Freshwater Forested/Shrub, and Estuarine and Marine, but the study areas specific to this delineation were not mapped as wetlands (USFWS 2013).

The SoCalGas facility has been in use since approximately the 1940s. Within the limits of the upper facility vegetation is limited to low-growing grasses such as Bermuda grass (*Cynodon dactylon;* FACU) and iceplant (*Carpobrotus edulis;* UPL) and intermittent trees such as eucalyptus (*Eucalyptus* sp.). Within the limits of the lower facility, vegetation is also limited to low growing grasses consisting chiefly of Bermuda grass, dallis grass (*Paspalum dilatatum;* FAC), and iceplant, with the exception of the southeast end of the facility. Within the southeast end of the lower facility, large stands of pampas grass (*Cortaderia selloana;* FACU) and arroyo willow (*Salix lasiolepis;* FACW) are

found, as well as leafy spurge (*Euphorbia esula*; UPL), western goldentop (*Euthamnia occidentalis*; FACW), fennel (*Foeniculum vulgare*; UPL), and iceplant. Additional detail on the vegetation species identified at each site is provided below.

Results

Within the study areas for Sites 1, 2, and 3, no potential jurisdictional features were noted. Within Sites 4, 5, 6, and 7, features subject only to the jurisdiction of the CCC were identified based on the presence of hydrology and/or vegetation indicators (Table 2). Within Sites 4 and 6, the identified CCC jurisdiction was located within the 50-foot buffer; within Sites 5 and 7, the identified CCC jurisdiction was located within the proposed project footprint (Table 3). The findings for the study area at each site are listed, described in greater detail below, and shown in photos (attached Figures 4a–d and photo log).

The information and results presented herein document the investigation, best professional judgment, and conclusions of ICF. It is correct and complete to the best of our knowledge. However, all jurisdictional determinations should be considered preliminary until reviewed and approved by the regulatory agencies. In addition, it should be noted that the CCC generally requires 100-foot buffers to protect wetlands from effects of disturbance and to provide necessary habitat for species associated with wetlands (CCC 1994).

Table 2. Potential Agency Jurisdiction Within Study Area

Study Area Site #	USACE/RWQCB	CDFW	CCC Wetland
1	None	None	N/A
2	None	None	N/A
3	None	None	None
4	None	None	0.049 acre
5	None	None	0.012 acre
6	None	None	0.003 acre
7	None	None	0.088 acre

Table 3. Potential CCC Jurisdiction Within Proposed Project Footprint and Buffer Area

Study Area Site #	Proposed Project Footprint	Buffer Area	Total
4	N/A	0.049 acre	0.049 acre
5	0.012 acre	N/A	0.012 acre
6	N/A	0.003 acre	0.003 acre
7	0.004 acre	0.084 acre	0.088 acre

Site 1

The study area for Site 1 consists of a large open storage area, existing paved road, and surrounding disturbed, vegetated area. In addition to the open area, two structures are located within the study area: a tank and a brick building. The site slopes gently from east to west. The open storage area is

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covered with small rocks and is currently being used to store materials and equipment. Vegetation found in the study area consists of ruderal species such as iceplant, telegraph weed (*Heterotheca grandifolia*; UPL), rattlesnake weed (*Chamaesyce* sp.), acacia (*Acacia* sp.), castor bean (*Ricinus communis*; FACU), bermuda grass, fennel, and two eucalyptus trees.

No jurisdictional features were observed within the Site 1 study area (Figure 4a).

Site 2

The study area for Site 2 is located almost entirely within a developed portion of the existing gas facility that is already used for operations. The study area is mostly paved, except for small vegetated areas adjacent to roads and gates that support the same ruderal herbaceous species discussed above for Site 1.

No jurisdictional features were observed within the Site 2 study area (Figure 4a).

Site 3

The study area for Site 3 consists of an existing paved access road and two vegetated areas, one north and one south of the road. Each of the vegetated areas is occupied primarily by iceplant.

No jurisdictional features were observed within the Site 3 study area (Figure 4b; Wetland Data Form 3A).

Site 4

The study area for Site 4 consists of a paved, gravel and dirt access road and several adjacent vegetated open areas. The vegetated open areas within the fenced SoCalGas property consist primarily of ruderal species that include iceplant, pampas grass, bermuda grass, red-stemmed filaree (*Erodium cicutarium*; UPL), and telegraph weed. To the south of the SoCalGas property, within the study area, is an area with multiple slopes primarily covered in iceplant.

The east side of Site 4 is bound by a culvert and corrugated steel pipe that accepts flows from Falmouth Street and the adjacent residential neighborhood. The culvert is located between two headwalls, on a concrete pad, at the northern terminus of Falmouth Street, which is an asphalt road on a hill. The culvert opens into a large (18- to 24-inch) corrugated steel pipe that extends approximately 200 feet to the north, beyond the limits of the SoCalGas property. The corrugated steel pipe is located above the grade of the adjacent vegetated areas (between Sites 3 and 4) but is covered in vegetation and is not readily apparent without close examination.

At the time of the field visit, nuisance flows were running down Falmouth Street into the culvert and approximately 1–4 inches of sediment deposition was present, both at the initial debris blockers and at the entrance to the culvert. The deposited sediment was heavily vegetated with herbaceous species that can grow in one season. Species observed included dallis grass, umbrella sedge (*Cyperus esculentus*; FACW), leafy spurge, field mustard (*Hirschfeldia incana*; UPL), perennial ryegrass (*Festuca perenne*; UPL), wild radish (*Raphanus sativa*; UPL), horseweed (*Erigeron Canadensis*; FACU), and willow herb (*Epilobium ciliatum*; FACW). Although the vegetated areas met the hydrophytic vegetation requirements, the vegetation was growing atop of a few inches of sediment

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that was completely underlined by concrete. This area is generally considered a previously impacted area and would be scalped during a storm event. In addition, the immature form of the vegetation indicated that this wetland has only been established for one growing season, as no older, mature vegetation was observed and as any sediment and vegetation are probably regularly displaced by heavy flows following storm events. As such, this area was not determined to be a CCC jurisdictional wetland (Figure 4b; Wetland Data Form 4A). However, as noted previously in this report, all jurisdictional determinations should be considered preliminary until reviewed and approved by the regulatory agencies.

Along the south side of the Site 4 study area, outside the fenced limits of SoCalGas property, a low point that supports a large arroyo willow was identified at the bottom of the converging slopes. This area was mapped as an area of potential CCC jurisdiction based on the presence of hydrophytic vegetation (Figure 4b; Wetland Data Forms 4A-D) and is located entirely within the buffer area.

Site 5

The study area for Site 5 consists of a paved area currently being used for material storage and a flat vegetated area. The vegetated area consists primarily of ruderal species such as Bermuda grass and dallis grass.

Within the Site 5 study area, a low wet spot was identified that exhibited indicators of hydrology. As no OHWM was evident in this site and this low spot did not exhibit all three wetland criteria, it was determined to be a wetland only subject to CCC jurisdiction, based on the presence of hydrology indicators and hydric soil indicators (Figure 4c; Wetland Data Forms 5A and 5B) and is located entirely within the proposed project footprint.

Site 6

The study area for Site 6 consists of an existing gravel and dirt road and adjacent vegetated areas. Vegetation within this area consists primarily of iceplant, western goldentop, acacia, eucalyptus, and fennel.

A small area of potential CCC jurisdiction was mapped along the northeast corner of the Site 6 study area based on the presence of hydrophytic vegetation (western goldentop) (Figure 4d) and is located entirely within the buffer area.

Site 7

The study area for Site 7 consists of an existing gravel and dirt road and adjacent vegetated areas. Vegetation within this study area consists primarily of western goldentop, leafy spurge, arroyo willow, pampas grass, horseweed, and fennel.

Within the Site 7 study area, three polygons of potential CCC jurisdiction were mapped based on the presence of hydrophytic vegetation and/or hydric soils (Figure 4d; Wetland Data Forms 7A-C). At this site the features subject to CCC jurisdiction were located both in the proposed project footprint and the buffer area.

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Conclusion

Four of the seven study areas assessed during this jurisdictional delineation were found to support one or more features subject to the jurisdiction of the CCC. No potential features that exhibited any indicators of USACE/RWQCB and/or CDFW jurisdiction were identified. Of those four sites, two sites had features subject to CCC jurisdiction within the proposed project footprint and three sites had features subject to CCC jurisdiction within the buffer area. As noted above, the information and results presented herein document the investigation, best professional judgment, and conclusions of ICF and are correct and complete to the best of our knowledge. However, all jurisdictional determinations should be considered preliminary until reviewed and approved by the regulatory agencies.

If you have any questions about the information in this report, please contact me at (949) 333-6633 or megan.jameson@icfi.com.

Sincerely,

Megan Jameson

Senior Regulatory Specialist

Figures:

Figure 1: Regional Vicinity Map

Figure 2: USGS Map

Figure 3: Local Vicinity Map

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Figure 4a: Sites 1 & 2 – Jurisdictional Delineation Results Figure 4b: Sites 3 & 4 – Jurisdictional Delineation Results Figure 4c: Site 5 – Jurisdictional Delineation Results Figure 4d: Sites 6 & 7 – Jurisdictional Delineation Results

Attachments:

Photo Log

Wetland Determination Data Forms

References

- Baldwin, B. G., D. H. Goldman, D. J. Keil, R. Patterson, T. J. Rosatti, and D. H. Wilken, editors (Baldwin). 2012. The Jepson manual: Vascular Plants of California, second edition. University of California Press, Berkeley.
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- U.S. Fish and Wildlife Service (USFWS). 2013. National Wetlands Inventory. http://www.fws.gov/wetlands/Data/Mapper.html. Accessed: December 2013.
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- Western Regional Climate Center. 2013. Period of Record Monthly Climate Summary: Santa Monica Pier, California. Available: < http://www.wrcc.dri.edu/cgi-bin/cliMAIN.pl?ca7953 > Accessed: December 2013.
- WRA Environmental Consultants (WRA), 2011. Ballona Creek Wetlands Ecological Reserve Preliminary Delineation of Wetlands and Non-Wetland Waters, Los Angeles County, California. Prepared for California State Coastal Conservancy.

Figures





Figure 1 Regional Vicinity Map SoCal Gas Potential Well Sites, Playa del Rey

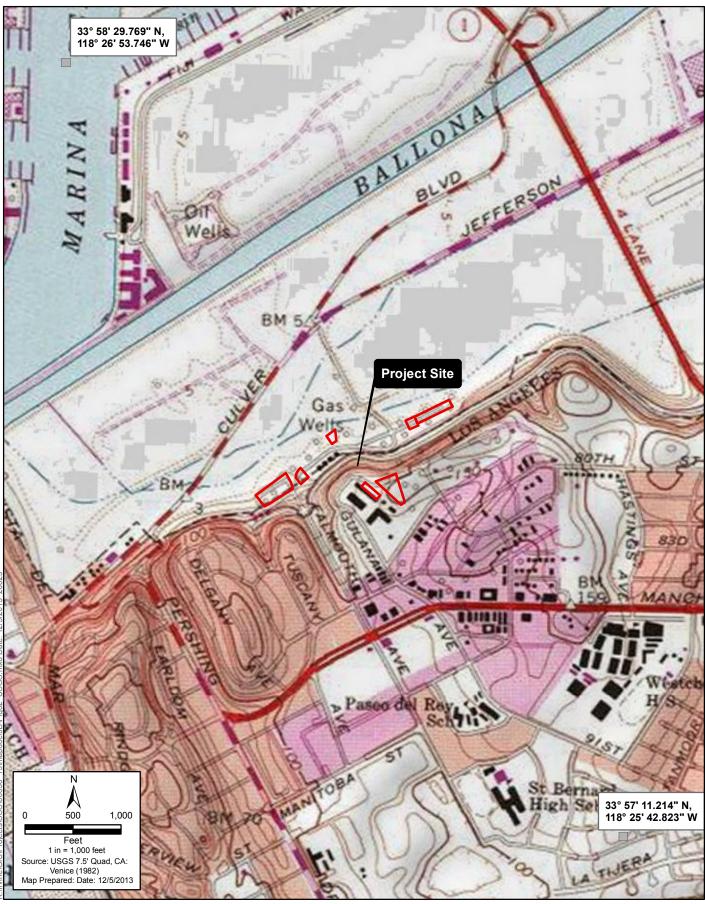




Figure 2 USGS Map SoCal Gas Potential Well Sites, Playa del Rey





Figure 3 Local Vicinity Map SoCal Gas Potential Well Sites, Playa del Rey





Figure 4a: Sites 1 & 2
Jurisdictional Delineation Results
SoCal Gas Potential Well Sites, Playa del Rey





Figure 4b: Sites 3 & 4
Jurisdictional Delineation Results
SoCal Gas Potential Well Sites, Playa del Rey

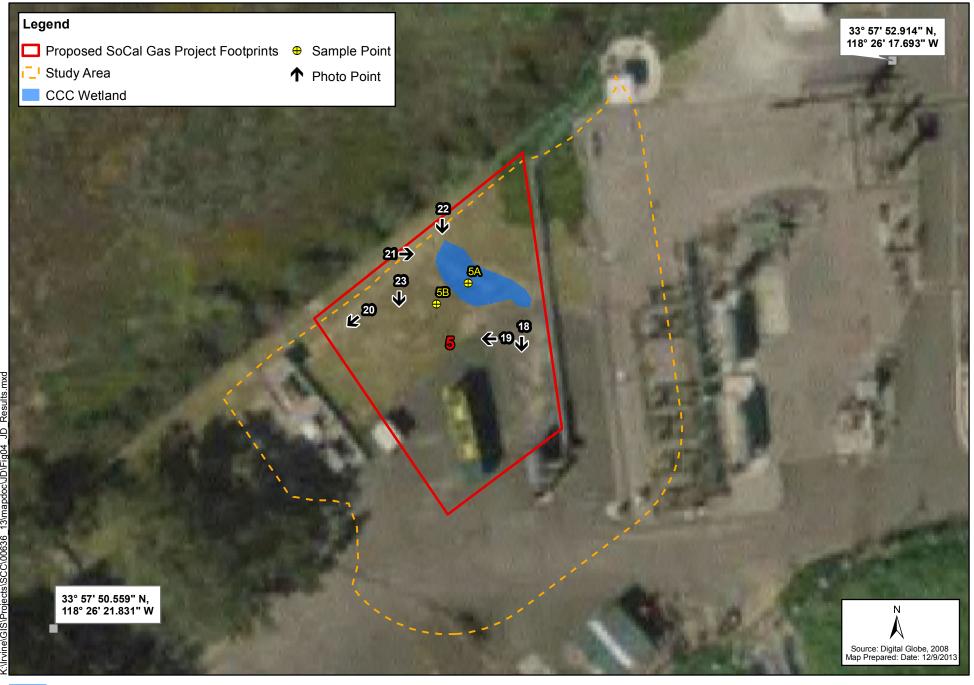




Figure 4c: Site 5
Jurisdictional Delineation Results
SoCal Gas Potential Well Sites, Playa del Rey





Figure 4d: Sites 6 & 7
Jurisdictional Delineation Results
SoCal Gas Potential Well Sites, Playa del Rey

Photo Log



Photo Date 12/2/13

Location Site 1

Direction East

Comment Gravel storage yard



Photograph # 2

Photo Date 12/2/13

Location Site 1

Direction West

Comment Gravel storage yard



Photograph # 3

Photo Date 12/2/13

Location Site 1

Direction Southwest

Comment Open area



Photo Date 12/2/13

Location Site 2

Direction Northwest

Comment Paved, already-used part

of the facility



Photograph # 5

Photo Date 12/2/13

Location Site 2

Direction West

Comment Paved, already-used part

of the facility



Photograph # 6

Photo Date 12/2/13

Location Site 2

Direction Southeast

Comment Paved, already-used part

of the facility



Photo Date 12/2/13

Location Site 3

Direction Northeast

Vegetated area south of Comment

access road, at toe of

slopes



Photograph #

Photo Date 12/2/13

Location Site 3

Direction East

Vegetated area north of Comment

access road



Photograph #

Photo Date 12/6/13

Location Site 3

Comment

Direction Northwest

> Wetland data point 3A (non-wetland); vegetated

area south of access road,

at toe of slope



Photo Date 12/2/13

Location Site 4

Direction North

Comment

Deposited sediment and

associated vegetation on asphalt road at mouth of

culvert



Photograph # 11

Photo Date 12/2/13

Location Site 4

Direction North

Comment

Deposited sediment and

associated vegetation on asphalt road at base of

hill, outside culvert



Photograph # 12

Photo Date 12/2/13

Location Site 4

Comment

Direction North

Deposited sediment and

associated vegetation on asphalt road at base of

hill, outside culvert; wetland data point 4A

(non-wetland)



Photo Date 12/2/13

Location Site 4

Direction East

Gravel and dirt access

Comment road and open, vegetated

area



Photograph # 14

Photo Date 12/2/13

Location Site 4

Direction South

Gravel and dirt access

Comment road and open, vegetated

area



Photograph # 15

Photo Date 12/6/13

Location Site 4

Comment

Direction Southwest

Vegetated area adjacent

to arroyo willow; wetland

data point 4D (non-

wetland)



Photo Date 12/6/13

Location Site 4

Direction Northeast

> Vegetated area adjacent to arroyo willow; wetland

Comment data point 4C (non-

wetland)



Photograph # 17

Photo Date 12/6/13

Location Site 4

Direction Northeast

CCC wetland located at

toe of slope; arroyo Comment

willow; wetland data

point 4B (CCC wetland)



Photograph # 18

Photo Date 12/2/13

Site 5 Location

Direction South

Comment Paved storage area



Photo Date 12/2/13

Location Site 5

Direction Northwest

Comment

Vegetated area adjacent

to paved facility



Photograph # 20

Photo Date 12/2/13

Location Site 5

Direction Southwest

Comment Vegetated area adjacent

to paved facility



Photograph # 21

Photo Date 12/2/13

Location Site 5

Direction South

CCC wetland feature in vegetated area adjacent to

1 C :::



Photo Date 12/2/13

Location Site 5

Direction South

Comment Wetland data point 5A

(CCC wetland)



Photograph # 23

Photo Date 12/2/13

Location Site 5

Direction South

Comment Wetland data point 5B

(non-wetland point)



Photograph # 24

Photo Date 12/2/13

Location Site 6

Direction Southeast

Gravel and dirt access

Comment road and adjacent

vegetated area



Photo Date 12/2/13

Location Site 6

Direction North

Comment roa

Gravel and dirt access road and adjacent

vegetated area



Photograph # 26

Photo Date 12/2/13

Location Site 6 (and Site 7 beyond)

Direction Northeast

Comment Gravel and dirt access

road



Photograph # 27

Photo Date 12/2/13

Location Site 6 (Feature 6-1)

Direction North

Comment CCC wetland feature

adjacent to fence



Photo Date 12/2/13

Location Site 7

Direction Northwest

Asphalt access road and Comment

adjacent unvegetated,

dirt open area



Photograph # 29

Photo Date 12/2/13

Location Site 7

Direction South

Comment

Vegetated area adjacent

to unvegeted, dirt open

area



Photograph # 30

Photo Date 12/2/13

Location Site 7

Direction Northeast

Vegetated area adjacent Comment to existing access road

and bare dirt area



Photograph # 31

Photo Date 12/2/13

Location Site 7

Direction Northeast

Comment Wetland data point 7A

(non-wetland)



Photograph # 32

Photo Date 12/2/13

Location Site 7

Direction South

Comment Wetland data point 7B

(CCC wetland)



Photograph # 33

Photo Date 12/2/13

Location Site 7

Direction North

Comment Wetland data point 7C

(non-wetland)

Wetland Determination Data Forms

Project/Site: Potential Well Sites	City/County: Playa De	el Rey, Los Angeles	Sampling Date:12/6/13
Applicant/Owner: Southern California Gas Co.		State: CA	Sampling Point:3A
Investigator(s): Paul Schwartz, Megan Jameson	Section, Township, Ra	ange: Unsectioned, T29	S, R15W
Landform (hillslope, terrace, etc.): toe of slope	Local relief (concave,	convex, none): none	Slope (%):~1%
Subregion (LRR): Mediterranean CA	Lat: _33.963132	Long: -118.439735	Datum: NAD 83
Soil Map Unit Name: Not Available			cation: Not mapped as wetland
Are climatic / hydrologic conditions on the site typical for			
Are Vegetation, Soil, or Hydrology	A CONTRACTOR OF THE CONTRACTOR		present? Yes ✓ No
Are Vegetation, Soil, or Hydrology		eeded, explain any answe	Typicological a Challant III and an area of the second
SUMMARY OF FINDINGS – Attach site ma			25%
2000 18 19 19 19 19 19 19 19 19 19 19 19 19 19			,,,,,,
	No / Is the Sampled	d Area	
Hydric Soil Present? Yes Wetland Hydrology Present? Yes		ind? Yes	No <u>√</u>
Remarks:			
Looking to ID presence/absence of CCC	wetland only. No evidence	of OHWM No CO	'C wetland present
Leading to 12 presenter, assente of eee	Wedana only. No evidence		to Wedana presenti
VEGETATION – Use scientific names of pl	lante		
VEGETATION – Use scientific flames of pr	Absolute Dominant Indicator	Dominance Test wor	ksheet.
Tree Stratum (Plot size:)		Number of Dominant S	
1			or FAC:0 (A)
2		Total Number of Domin	
3		Species Across All Stra	ata:1 (B)
4		Percent of Dominant S	
Sapling/Shrub Stratum (Plot size:)	= Total Cover	That Are OBL, FACW,	or FAC:0 (A/B)
1		Prevalence Index wo	rksheet:
2		Total % Cover of:	Multiply by:
3		71	x 1 =
4		91	x 2 =
5		FOR DESCRIPTION OF THE PROPERTY OF THE PROPERT	x 3 =
Herb Stratum (Plot size:5')	= Total Cover	UPL species	x 4 =
1. Carpobrotus edulis	<u>20 Yes UPL</u>	MANAGEMENT AND AN ADVANCED TO STORY	(A) (B)
2		61	
3			x = B/A =
4		Hydrophytic Vegetati	
5		Dominance Test is	
6		Prevalence Index	is ≤3.0° aptations¹ (Provide supporting
7		data in Remark	ks or on a separate sheet)
8	20 = Total Cover	Problematic Hydro	ophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)	= Total Cover		
1			oil and wetland hydrology must
2		be present, unless dist	urbed or problematic.
	0 = Total Cover	Hydrophytic Vegetation	
% Bare Ground in Herb Stratum60	over of Biotic Crust0		es No
Remarks:		-	
20% litter in herb stratum			

SOIL

Sampling Point: 3A

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redo	x Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-16"	10YR 5/4	100					Sand	
A04000 1700 170	Line Section April 100 at 100	40 00 0000000 000	47 MI 1000004 CMM (14900		Sec. 10.000 Sec. 10.00			er one one promite enceptions
	oncentration, D=Dep					d Sand Gr		ation: PL=Pore Lining, M=Matrix.
500 B 10	Indicators: (Applic	able to all Li			ed.)			for Problematic Hydric Soils ³ :
Histosol			Sandy Redo					uck (A9) (LRR C)
	pipedon (A2)		Stripped Ma					uck (A10) (LRR B)
	istic (A3)		Loamy Muc					ed Vertic (F18)
	en Sulfide (A4)	C/	Loamy Gley Depleted Ma		(F2)			rent Material (TF2)
	d Layers (A5) (LRR uck (A9) (LRR D)	C)	Redox Dark		(F6)		Other (i	Explain in Remarks)
	d Below Dark Surfac	-e (Δ11)	Depleted Da					
	ark Surface (A12)	C (A11)	Redox Depr				3Indicators o	of hydrophytic vegetation and
	Aucky Mineral (S1)		Vernal Pool		,			lydrology must be present,
	Gleyed Matrix (S4)							sturbed or problematic.
Restrictive	Layer (if present):							
Type: No	one		_					
Depth (in	ches):						Hydric Soil F	Present? Yes No ✓
Remarks:), — — — — — — — — — — — — — — — — — — —
HYDROLO	GY							
Wetland Hy	drology Indicators:							
Primary India	cators (minimum of	one required;	check all that apply	y)			Second	dary Indicators (2 or more required)
Surface	Water (A1)		Salt Crust	(B11)			Wa	ater Marks (B1) (Riverine)
	ater Table (A2)		Biotic Crus					ediment Deposits (B2) (Riverine)
Saturation			Aquatic Inv		s (B13)		0	ift Deposits (B3) (Riverine)
	larks (B1) (Nonrive	rine)	Hydrogen					ainage Patterns (B10)
	nt Deposits (B2) (No				COLUMN TO PROPERTY.	Livina Roc		y-Season Water Table (C2)
	posits (B3) (Nonrive		Presence					ayfish Burrows (C8)
	Soil Cracks (B6)		Recent Iro					aturation Visible on Aerial Imagery (C9)
	on Visible on Aeria	Imagery (B7)						nallow Aquitard (D3)
	stained Leaves (B9)		Other (Exp					AC-Neutral Test (D5)
Field Obser					marno	7		
Surface Wat		os No	Depth (inc	chae).				
Water Table		81 - 81	Depth (inc	200		_		
								Description Van
Saturation P (includes car		es No	Depth (inc	cnes):		_ weti	and Hydrology	Present? Yes No _✓
	corded Data (stream	gauge, moni	itoring well, aerial p	ohotos, pr	evious ins	pections),	if available:	
Remarks:								

Project/Site: Potential Well Sites	(Citv/Co	untv: F	Plava Del	Rev, Los Angeles Sa	ampling Date:	12/2/13
Applicant/Owner: Southern California Gas Co.							
Investigator(s): Paul Schwartz, Megan Jameson						esertebraso Eli	
Landform (hillslope, terrace, etc.): terrace of floodplain							
Subregion (LRR): Mediterranean CA							
			,		NWI classification		d as wetland
Are climatic / hydrologic conditions on the site typical for this							(Shame) n
Are Vegetation, Soil, or Hydrology si				Are "I	Normal Circumstances" pres	sent? Yes	No <u></u> ✓
Are Vegetation, Soil, or Hydrology na	aturally pro	blemati	ic?	(If ne	eded, explain any answers i	n Remarks.)	
SUMMARY OF FINDINGS - Attach site map s	howing	samp	oling	point lo	ocations, transects, i	mportant fea	tures, etc.
Hudsonhudia Vanatatian Brasanta	v						
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No		100		Sampled		,	
Wetland Hydrology Present? Yes ✓ No		'	within	a Wetlan	d? Yes	_ No <u> </u>	
Remarks:							
Looking to ID presence/absence of CCC wetland only. Site consis	ts of sedime	ent depo	osited o	on top of a	sphalt and concrete in front of	culvert entrance t	that has
accumulated from neighborhood nuisance flows. Deposited sed		- 100 II-				resent, bc it overla	ays a
concrete/asphalt area, considered already impacted and is also r	egulariy disi	piaced b	by flows	s tollowing	storm events.		
VEGETATION – Use scientific names of plant	s.						
Tree Stratum (Diet size:	Absolute			ndicator	Dominance Test worksho	eet:	
	% Cover				Number of Dominant Spec That Are OBL, FACW, or F		(4)
1 2					That Are OBL, FACW, or I	AC	(^)
3					Total Number of Dominant Species Across All Strata:		(B)
4					Species Across Ali Strata.		(D)
"-		= Tota	I Cove	er	Percent of Dominant Spec That Are OBL, FACW, or F		(A/D)
Sapling/Shrub Stratum (Plot size:)			0010		That Are OBL, FACVV, or F	-AC:	(A/B)
1					Prevalence Index worksh	neet:	
2				a	Total % Cover of:		100
3					OBL species		
4					FACW species 30		
5				T.	FAC species 15		50 San
Herb Stratum (Plot size: _limits of veg_)		= Tota	I Cove	er	FACU species 5 UPL species 50	0.00	250
1. Cyperus esculentis	25	Yes	S	FACW	UPL species 50 Column Totals: 100		75 (B)
2. Euphorbia esula	20	Yes		UPL	Column Totals	(A)3	<u>/3</u> (b)
3. Festuca perenne	15	Ye	s	UPL	Prevalence Index =	B/A =3.7	5
4. Paspalum dalatatum	15	Yes	s	FAC	Hydrophytic Vegetation	Indicators:	
5. Raphanus sativa	10	No		UPL	✓ Dominance Test is >5	0%	
6. Erigeron canadensis	5	No		FACU	Prevalence Index is ≤		2242
7. Hirshfeldia incana	5	Nc		UPL	Morphological Adapta data in Remarks or	tions ¹ (Provide s	upporting
8. Epilobium ciliatum	5	No		FACW	Problematic Hydrophy		3000000000
Woody Vine Stratum (Plot size:	100	= Tota	I Cove	er	1 Toblematic Hydrophy	tic vegetation (LAPIAIII)
1					¹ Indicators of hydric soil ar	nd wetland hydro	ology must
2					be present, unless disturbe		
		= Tota	I Cove	or.	Hydrophytic		
					Vegetation		
ABOOT TO THE ALAS ASSUMED TO A MILITER AND A CONTRACT OF THE TOTAL TO THE TOTAL AND TH	of Biotic Ci	rust	0		Present? Yes _	No	
Remarks:							
Veg cover is limited to where sediment has							
Remainder of area is asphalt or concrete. A	_	ation	is in	nmatur	e herbaceous, indica	iting the site	is
probably new and regularly is washed away	/-						

US Army Corps of Engineers

SOIL Sampling Point: 4A

Donth							
Depth (inches)	Color (moist)	% C	Redox Fea		Loc ²	Texture	Remarks
(IIICHES)	COIOI (IIIOISI)		Joiot (moist)	<u> </u>		Texture	Remarks
<u>-</u>							
¹ Type: C=Co	oncentration, D=Deple	etion, RM=Red	uced Matrix, CS=Cov	ered or Coate	ed Sand Grain	ns. ² Loca	tion: PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators: (Applica	ble to all LRR	s, unless otherwise	noted.)		Indicators f	or Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy Redox (S5)		1 cm M	uck (A9) (LRR C)
Histic Ep	ipedon (A2)		Stripped Matrix (S	66)		2 cm Mi	uck (A10) (LRR B)
Black His	stic (A3)		Loamy Mucky Mir	neral (F1)		Reduce	d Vertic (F18)
Hydroge	n Sulfide (A4)		Loamy Gleyed Ma	atrix (F2)		Red Pa	rent Material (TF2)
Stratified	Layers (A5) (LRR C) .	Depleted Matrix (F3)		Other (E	explain in Remarks)
1 cm Mu	ck (A9) (LRR D)		Redox Dark Surfa	ice (F6)			
Depleted	Below Dark Surface	(A11)	Depleted Dark Su	rface (F7)			
Thick Da	rk Surface (A12)	-	Redox Depressio	ns (F8)		³ Indicators o	f hydrophytic vegetation and
	ucky Mineral (S1)		Vernal Pools (F9)				ydrology must be present,
	leyed Matrix (S4)					unless dis	turbed or problematic.
Restrictive L	.ayer (if present):						
Type:							
Depth (inc	ches):					Hydric Soil F	Present? Yes No
Remarks:						250	N N
	8 9 9 3	2 93	2 2 2	22	20	126 727	
No soils to	aken. Only 1-4'	' sediment	deposited on to	p of conc	rete and a	asphalt.	
HYDROLO	01/						
	GY						
Wetland Hyd	0.00						
	Irology Indicators:	ne required: ch	ack all that apply)			Second	lany Indicators (2 or more required)
Primary Indic	Irology Indicators: ators (minimum of or	ne required; che					lary Indicators (2 or more required)
Primary Indic	Irology Indicators: ators (minimum of or Water (A1)	ne required; che	Salt Crust (B11)			Wa	ater Marks (B1) (Riverine)
Primary Indic	Irology Indicators: ators (minimum of or Water (A1) ter Table (A2)	ne required; che	Salt Crust (B11) Biotic Crust (B12	2)		Wa Se	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine)
Primary Indic Surface High Wa ✓ Saturation	Irology Indicators: ators (minimum of or Water (A1) ter Table (A2) on (A3)		Salt Crust (B11) Biotic Crust (B12 Aquatic Inverteb	2) rates (B13)		Wa Se Dri	direction direction (All Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine)
Primary Indic Surface High Wa ✓ Saturatio Water Ma	Irology Indicators: ators (minimum of or Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriveria	ne)	Salt Crust (B11) Biotic Crust (B12 Aquatic Inverteb Hydrogen Sulfid	2) rates (B13) e Odor (C1)		Wa Se Dri	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10)
Primary Indic Surface High Wa ✓ Saturatio Water Ma	Irology Indicators: ators (minimum of or Water (A1) ter Table (A2) on (A3)	ne)	Salt Crust (B11) Biotic Crust (B12 Aquatic Inverteb Hydrogen Sulfid	2) rates (B13) e Odor (C1)	Living Roots	Wa Se Dri	direction direction (All Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine)
Primary Indic Surface High Wa Saturatio Water M. Sedimen	Irology Indicators: ators (minimum of or Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriveria	ne) riverine)	Salt Crust (B11) Biotic Crust (B12 Aquatic Inverteb Hydrogen Sulfid	2) rates (B13) e Odor (C1) pheres along		Wa Se Dri Dri (C3) Dr	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10)
Primary Indic Surface High Wa ✓ Saturatic Water M ✓ Sedimen Drift Dep	Irology Indicators: ators (minimum of or Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverin t Deposits (B2) (Non	ne) riverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Inverteb Hydrogen Sulfid Oxidized Rhizos	2) rates (B13) e Odor (C1) pheres along duced Iron (C4	4)	Wa Se Dri Dri Cri	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2)
Primary Indic Surface High Wa ✓ Saturatic Water M ✓ Sedimen Drift Dep	Arology Indicators: ators (minimum of or Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriveria t Deposits (B2) (Non osits (B3) (Nonriveria	ne) rriverine) ine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Inverteb Hydrogen Sulfid Oxidized Rhizos Presence of Rec	2) rates (B13) e Odor (C1) pheres along duced Iron (C ² uction in Tille	4)	Wa Se Dri Dri Cri Sa	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8)
Primary Indic Surface of High Wa Saturation Water Mark Sediment Drift Dep Surface of Inundation	Arology Indicators: ators (minimum of or Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriveria t Deposits (B2) (Non oosits (B3) (Nonriveria Soil Cracks (B6)	ne) rriverine) ine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Inverteb Hydrogen Sulfid Oxidized Rhizos Presence of Rec	rates (B13) e Odor (C1) pheres along duced Iron (C4 uction in Tiller ce (C7)	4)	Wa Se Dri Dri Cri Sa Sh	atter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9)
Primary Indic Surface of High Wa Saturation Water Mark Sediment Drift Dep Surface of Inundation	Arology Indicators: ators (minimum of or Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriveria t Deposits (B2) (Non cosits (B3) (Nonriveria Soil Cracks (B6) on Visible on Aerial In tained Leaves (B9)	ne) rriverine) ine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Inverteb Hydrogen Sulfid Oxidized Rhizos Presence of Rec Recent Iron Rec	rates (B13) e Odor (C1) pheres along duced Iron (C4 uction in Tiller ce (C7)	4)	Wa Se Dri Dri Cri Sa Sh	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) allow Aquitard (D3)
Primary Indic Surface High Wa ✓ Saturatic Water M ✓ Sedimen Drift Dep Surface Inundatic Water-St Field Observ	Arology Indicators: ators (minimum of or Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrivering the Deposits (B2) (Nonrivering the Deposits (B3) (Nonrivering the Deposits (B6)) on Visible on Aerial Interial Interial Leaves (B9) arations:	ne) iriverine) ine) nagery (B7)	Salt Crust (B11) Biotic Crust (B12) Aquatic Inverteb Hydrogen Sulfid Oxidized Rhizos Presence of Rec Recent Iron Rec Thin Muck Surfa Other (Explain in	rates (B13) e Odor (C1) pheres along duced Iron (C4 duction in Tilled ce (C7) n Remarks)	4) d Soils (C6)	Wa Se Dri Dri Cri Sa Sh	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) allow Aquitard (D3)
Primary Indice Surface V High Wa ✓ Saturatio Water M ✓ Sedimen Drift Dep Surface S Inundatio Water-St Field Observ Surface Water	Arology Indicators: ators (minimum of or Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriveria t Deposits (B2) (Non iosits (B3) (Nonriveria Soil Cracks (B6) on Visible on Aerial In tained Leaves (B9) vations:	ne) rriverine) rine) magery (B7) es No _	Salt Crust (B11) Biotic Crust (B12) Aquatic Inverteb Hydrogen Sulfid Oxidized Rhizos Presence of Rec Recent Iron Rec Thin Muck Surfa Other (Explain in	rates (B13) e Odor (C1) pheres along duced Iron (C4 uction in Tiller ce (C7) n Remarks)	4) d Soils (C6)	Wa Se Dri Dri Cri Sa Sh	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) allow Aquitard (D3)
Primary Indic Surface of High Wa Saturation Water Many Sediment Drift Dep Surface of Inundation Water-St Field Observ Surface Water Water Table	Arology Indicators: ators (minimum of or Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriveria tt Deposits (B2) (Non osits (B3) (Nonriveria Soil Cracks (B6) on Visible on Aerial In tained Leaves (B9) vations: er Present? Yes	ne) priverine) priverine) magery (B7) priverine) magery (B7) privering No	Salt Crust (B11) Biotic Crust (B12) Aquatic Inverteb Hydrogen Sulfid Oxidized Rhizos Presence of Rec Recent Iron Rec Thin Muck Surfa Other (Explain in	rates (B13) e Odor (C1) pheres along duced Iron (C4 uction in Tilled ce (C7) n Remarks)	4) d Soils (C6)	Wa Se Dri Dri Cri Sa Sh FA	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) allow Aquitard (D3) C-Neutral Test (D5)
Primary Indic Surface V High Wa Saturatio Water M Sedimen Drift Dep Surface S Inundatio Water-Si Field Observ Surface Water Surface Water Surface Water Table Saturation Pr	Arology Indicators: ators (minimum of or Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriveria t Deposits (B2) (Non rosits (B3) (Nonriveria Soil Cracks (B6) on Visible on Aerial In tained Leaves (B9) vations: er Present? Present? Ye esent? Ye esent?	ne) priverine) priverine) magery (B7) priverine) magery (B7) privering No	Salt Crust (B11) Biotic Crust (B12) Aquatic Inverteb Hydrogen Sulfid Oxidized Rhizos Presence of Rec Recent Iron Rec Thin Muck Surfa Other (Explain in	rates (B13) e Odor (C1) pheres along duced Iron (C4 uction in Tilled ce (C7) n Remarks)	4) d Soils (C6)	Wa Se Dri Dri Cri Sa Sh FA	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) allow Aquitard (D3)
Primary Indice Surface V High Wa Saturatio Water M Sedimen Drift Dep Surface Surface Surface Water Surface Water Table Saturation Pr (includes cap	Arology Indicators: ators (minimum of or Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriveria tt Deposits (B2) (Non osits (B3) (Nonriveria Soil Cracks (B6) on Visible on Aerial In tained Leaves (B9) vations: er Present? Present? Ye esent? Ye esent? Ye esent?	ne) priverine) priverine) magery (B7) priverine) magery (B7) priverine priverine priverine	Salt Crust (B11) Biotic Crust (B12) Aquatic Inverteb Hydrogen Sulfid Oxidized Rhizos Presence of Rec Recent Iron Rec Thin Muck Surfa Other (Explain in	rates (B13) e Odor (C1) pheres along duced Iron (C4 uction in Tiller ce (C7) n Remarks)	4) d Soils (C6)	Wa Se Dri Cri Sa Sh FA	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) allow Aquitard (D3) C-Neutral Test (D5)
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Primary Indic Surface N High Wa ✓ Saturatio Water M ✓ Sedimen Drift Dep Surface N Inundatio Water-St Field Observ Surface Water Surface Water Water Table Saturation Pr (includes cap Describe Rec	Arology Indicators: ators (minimum of or Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrivering to Deposits (B2) (Nonrivering to Deposits (B3) (Nonrivering to Deposits (B3) (Nonrivering to Deposits (B3) (Nonrivering to Deposits (B4) (Nonriveri	ne) riverine) ine) magery (B7) es No _ es No _ gauge, monitor g water rur	Salt Crust (B11) Biotic Crust (B12) Aquatic Inverteb Hydrogen Sulfid Oxidized Rhizos Presence of Rec Recent Iron Rec Thin Muck Surfa Other (Explain in Depth (inches): Depth (inches): Depth (inches):	rates (B13) e Odor (C1) pheres along duced Iron (C4 duction in Tilled ce (C7) n Remarks) s, previous ins	Wetland	Wa Se Se Dri Cro Cro Sa Sh FA	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) allow Aquitard (D3) C-Neutral Test (D5)
Primary Indic Surface N High Wa ✓ Saturatio Water M ✓ Sedimen Drift Dep Surface N Inundatio Water-St Field Observ Surface Water Surface Water Water Table Saturation Pr (includes cap Describe Rec	Arology Indicators: ators (minimum of or Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrivering to Deposits (B2) (Nonrivering to Deposits (B3) (Nonrivering to Deposits (B3) (Nonrivering to Deposits (B3) (Nonrivering to Deposits (B4) (Nonriveri	ne) riverine) ine) magery (B7) es No _ es No _ gauge, monitor g water rur	Salt Crust (B11) Biotic Crust (B12) Aquatic Inverteb Hydrogen Sulfid Oxidized Rhizos Presence of Rec Recent Iron Rec Thin Muck Surfa Other (Explain in Depth (inches): Depth (inches): Depth (inches):	rates (B13) e Odor (C1) pheres along duced Iron (C4 duction in Tilled ce (C7) n Remarks) s, previous ins	Wetland	Wa Se Se Dri Cro Cro Sa Sh FA	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) allow Aquitard (D3) C-Neutral Test (D5)

Project/Site: Potential Well Sites	City/County: Playa De	el Rey, Los Angeles	Sampling Date:12/6/13
Applicant/Owner: Southern California Gas Co.		State: CA	Sampling Point: 4B
Investigator(s): Paul Schwartz, Megan Jameson	Section, Township, Ra	ange: Unsectioned, T2S	, R15W
Landform (hillslope, terrace, etc.): toe of slope	Local relief (concave,	convex, none): concave	Slope (%):<1%
Subregion (LRR): Mediterranean CA	Lat: 33.962628	Long: -118.440552	Datum: NAD 83
Soil Map Unit Name: Not Available			ation: Not mapped as wetland
Are climatic / hydrologic conditions on the site typical for ti	,		
Are Vegetation, Soil, or Hydrology	THE LIGHT CONTROL OF THE PARTY		oresent? Yes _ ✓ No
Are Vegetation, Soil, or Hydrology		eeded, explain any answer	70 Aug (404 0 5 5 1 6 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
SUMMARY OF FINDINGS – Attach site map			
Hydrophytic Vegetation Present? Yes ✓		d Area	
Hydric Soil Present? Yes Wetland Hydrology Present? Yes		nd? Yes <u>√</u>	No
Remarks:	NO		
Looking to ID presence/absence of CCC we	etland only. No evidence o	of OHWM CCC wet	land present based on
hydrophytic vegetation.	stiana omy. No evidence o	onvivi. eee weti	and present based on
VEGETATION – Use scientific names of pla	0.00 10 10 100 100 100 100	Daminana Tashusuk	ab a st
Tree Stratum (Plot size:30')	Absolute Dominant Indicator <u>% Cover Species? Status</u>	Number of Dominant Sp	
1. Salix lasiolepsis			or FAC:1 (A)
2		Total Number of Domina	ant
3		Species Across All Stra	200 CTA
4		Percent of Dominant Sp	pecies
Sapling/Shrub Stratum (Plot size:)	65 = Total Cover		or FAC:50 (A/B)
1		Prevalence Index worl	ksheet:
2		Total % Cover of:	Multiply by:
3		OBL species	x 1 =
4		N N N N N N N N N N N N N N N N N N N	x 2 = <u>130</u>
5		TO CONTRACTOR OF THE PARTY OF T	x 3 =
Herb Stratum (Plot size:5')	= Total Cover	No. Committee of the Co	x 4 =
1. Carpobrotus edulis	25 Yes UPL	Column Totals: 90	x = 5 = 125 0 (A) 255 (B)
2.		Column Totals	0 (A) <u>255</u> (B)
3		Prevalence Index	= B/A = <u>2.8</u>
4		Hydrophytic Vegetation	on Indicators:
5		✓ Dominance Test is	
6		✓ Prevalence Index is	
7		Morphological Adap data in Remarks	ptations ¹ (Provide supporting s or on a separate sheet)
8		Problematic Hydror	phytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)	= Total Cover		
1			I and wetland hydrology must
2		be present, unless distu	irbed or problematic.
	0 = Total Cover	Hydrophytic Vegetation	
% Bare Ground in Herb Stratum 0	ver of Biotic Crust0	Present? Yes	s✓ No
Remarks:		1	
Lots of leaf litter under willow.			

SOIL Sampling Point: 4B

Profile Description: (Describe to the dep	oth needed to docur	nent the	indicator	or confirm	the absence o	f indicators.)
Depth Matrix		x Feature				
(inches) Color (moist) %	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-16" 10YR 3/2 96	7YR 4/6	4	<u>C</u>	PL/M	SCL	
		· ——	. ——			
	20 100 10 20	5 50			. 2.	a 2012 SON TOTAL
¹ Type: C=Concentration, D=Depletion, RM				ed Sand Gr		ation: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all			ed.)			or Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Red					uck (A9) (LRR C)
Histic Epipedon (A2)	Stripped Ma Loamy Mud		1/54)			uck (A10) (LRR B)
Black Histic (A3)Hydrogen Sulfide (A4)	Loamy Gley	(5)	- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10			d Vertic (F18) rent Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted M		([2)			Explain in Remarks)
1 cm Muck (A9) (LRR D)	Redox Dark		(F6)			explain in Normanio)
Depleted Below Dark Surface (A11)	Depleted D					
Thick Dark Surface (A12)	Redox Dep				3Indicators o	f hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Vernal Poo	s (F9)			wetland h	ydrology must be present,
Sandy Gleyed Matrix (S4)					unless dis	turbed or problematic.
Restrictive Layer (if present):						
Type: None						
Depth (inches):					Hydric Soil F	Present? Yes No
Remarks:					0.00	01 2 2
Approximately 10" of leaf litter under	willow					
SCL=Sandy Clay Loam	willow.					
Almost meets F6.						
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of one require	d; check all that appl	y)			Second	lary Indicators (2 or more required)
Surface Water (A1)	Salt Crust	(B11)			Wa	ater Marks (B1) (Riverine)
High Water Table (A2)	Biotic Crus	st (B12)			Se	diment Deposits (B2) (Riverine)
Saturation (A3)	Aquatic In		es (B13)			ft Deposits (B3) (Riverine)
Water Marks (B1) (Nonriverine)	Hydrogen	Sulfide O	dor (C1)			ainage Patterns (B10)
Sediment Deposits (B2) (Nonriverine)	Oxidized F	Rhizosphe	res along	Living Roo	ots (C3) Dry	y-Season Water Table (C2)
Drift Deposits (B3) (Nonriverine)	Presence	of Reduce	ed Iron (Ca	4)	Cra	ayfish Burrows (C8)
Surface Soil Cracks (B6)	Recent Iro					turation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B	(7) Thin Muck	Surface	(C7)	N	Sh	allow Aquitard (D3)
Water-Stained Leaves (B9)	Other (Ex	olain in Re	emarks)		FA	C-Neutral Test (D5)
Field Observations:						
Surface Water Present? Yes	No _✓ Depth (in	ches):				
	No ✓ Depth (in			I .		
	No ✓ Depth (in				and Hydrology	Present? Yes No✓_
(includes capillary fringe)	THO Deptil (III			_ ***	and Hydrology	11050IR: 165 NO
Describe Recorded Data (stream gauge, m	onitoring well, aerial	ohotos, pr	evious ins	spections),	if available:	
Remarks:						

Project/Site: Potential Well Sites City/County: Playa Del Rey, Los Angeles Sampling Del Rey	Date:12/6/13
Applicant/Owner: Southern California Gas Co. State: CA Sampling F	Point: 4C
Investigator(s): Paul Schwartz, Megan Jameson Section, Township, Range: Unsectioned, T2S, R15W	
Landform (hillslope, terrace, etc.): toe of slope Local relief (concave, convex, none): concave	_ Slope (%): _ <1%
Subregion (LRR): Mediterranean CA Lat: 33.962580 Long: -118.440634	Datum: NAD 83
Soil Map Unit Name: Not Available NWI classification: Not	
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)	
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes	es ✓ No
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remark	37 S. 78 S. 38 S.
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, importa	151
Hydrophytic Vegetation Present? Yes No Is the Sampled Area	
Hydric Soil Present? Yes No ✓ Wetland Hydrology Present? Yes No ✓ Wetland Hydrology Present? Yes No ✓	<u>✓</u>
Remarks:	
Looking to ID presence/absence of CCC wetland only. No evidence of OHWM. No CCC wetland	d present
Looking to 10 presence/absence of ecc wetland only. No evidence of offwivi. No ecc wetland	u present.
VEGETATION II I I''	
VEGETATION – Use scientific names of plants.	
Absolute Dominant Indicator Tree Stratum (Plot size:)	
1 That Are OBL, FACW, or FAC:	0 (A)
2 Total Number of Dominant	
	(B)
4 Percent of Dominant Species	
Sapling/Shrub Stratum (Plot size:) = Total Cover That Are OBL, FACW, or FAC:	0 (A/B)
1 Prevalence Index worksheet:	
2	Multiply by:
3 OBL species x 1 =	transvilland Samilar - h
4 FACW species x 2 =	=
5 FAC species x 3 =	
= Total Cover FACU species x 4 =	
Herb Stratum (Plot size: 5) 1. Chrysanthemum coranatum 35 Yes UPL Column Totals: (A)	
2. Carpobrotus edulis 25 Yes UPL Column Totals: (A)	(B)
3. <u>Bromus diandrus</u> 5 <u>No</u> <u>UPL</u> Prevalence Index = B/A =	
4. Hydrophytic Vegetation Indicator	rs:
5 Dominance Test is >50%	
6 Prevalence Index is ≤3.0 ¹	
7 Morphological Adaptations ¹ (Pr	rovide supporting
8 Problematic Hydrophytic Veget	parameter filterature region
<u>— 65 = Total Cover</u> <u>Woody Vine Stratum</u> (Plot size:)	(Explain)
1 Indicators of hydric soil and wetlan	d hydrology must
be present, unless disturbed or prol	blematic.
0 = Total Cover Hydrophytic	
% Bare Ground in Herb Stratum 35 % Cover of Biotic Crust 0 Present? Yes	No ✓
Remarks:	

SOIL Sampling Point: 4C

Depth	Matrix	to the depth	Redox Features	confirm the abse	ence of indicators.)
(inches)	Color (moist)	%	Color (moist) % Type ¹	Loc ² Textur	e Remarks
0-16"	10YR 3/2	100		SL	
					<u> </u>
¹Type: C=Cc	ncentration, D=De	pletion, RM=F	Reduced Matrix, CS=Covered or Coated S	Sand Grains.	² Location: PL=Pore Lining, M=Matrix.
			RRs, unless otherwise noted.)		tors for Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy Redox (S5)	1	cm Muck (A9) (LRR C)
Histic Ep	ipedon (A2)		Stripped Matrix (S6)	2	cm Muck (A10) (LRR B)
Black His	25 25		Loamy Mucky Mineral (F1)		educed Vertic (F18)
	n Sulfide (A4)	C)	Loamy Gleyed Matrix (F2)		ed Parent Material (TF2)
- 19 1 1	Layers (A5) (LRR ck (A9) (LRR D)	C)	Depleted Matrix (F3) Redox Dark Surface (F6)	_ 0	ther (Explain in Remarks)
- 14 	Below Dark Surface	ce (A11)	Depleted Dark Surface (F7)		
	rk Surface (A12)	,	Redox Depressions (F8)	³ Indica	ators of hydrophytic vegetation and
	ucky Mineral (S1)		Vernal Pools (F9)	wetl	and hydrology must be present,
	leyed Matrix (S4)			unle	ess disturbed or problematic.
	.ayer (if present):				
Type: No			_		
Depth (inc	ches):		_	Hydric	Soil Present? Yes No✓
Remarks:					
SL=Sandy	Loam				
or oama,	200111				
HYDROLO	GY				
Wetland Hyd	Irology Indicators	:			
Primary Indic	ators (minimum of	one required;	check all that apply)	<u>s</u>	secondary Indicators (2 or more required)
Surface \	Water (A1)		Salt Crust (B11)	_	_ Water Marks (B1) (Riverine)
High Wa	ter Table (A2)		Biotic Crust (B12)	===	_ Sediment Deposits (B2) (Riverine)
Saturation	on (A3)		Aquatic Invertebrates (B13)	_	_ Drift Deposits (B3) (Riverine)
Water M	arks (B1) (Nonrive	rine)	Hydrogen Sulfide Odor (C1)	22-	Drainage Patterns (B10)
Sedimen	t Deposits (B2) (No	onriverine)	Oxidized Rhizospheres along Liv	ing Roots (C3) _	Dry-Season Water Table (C2)
- Interest	osits (B3) (Nonrive	erine)	Presence of Reduced Iron (C4)		_ Crayfish Burrows (C8)
	Soil Cracks (B6)	. (57)	Recent Iron Reduction in Tilled S	_	Saturation Visible on Aerial Imagery (C9)
- Commence	on Visible on Aerial				_ Shallow Aquitard (D3)
Field Observ	ained Leaves (B9)	<u>}</u>	Other (Explain in Remarks)		FAC-Neutral Test (D5)
		/ N	/ Death (lashes)		
Surface Water			Depth (inches):		
Water Table			Depth (inches):		
Saturation Pr (includes cap		Yes No	Depth (inches):	Wetland Hydro	ology Present? Yes No _✓
		n gauge, mon	itoring well, aerial photos, previous inspec	ctions), if available	e:
Remarks:					

Project/Site: Potential Well Sites	City/County: Playa De	el Rey, Los Angeles	Sampling Date: 12/6/13
Applicant/Owner: Southern California Gas Co.		State: CA	Sampling Point: 4D
Investigator(s): Paul Schwartz, Megan Jameson	Section, Township, Ra	ange: Unsectioned, T2S	, R15W
Landform (hillslope, terrace, etc.): toe of slope	Local relief (concave,	convex, none): concave	Slope (%): _ ~1%
Subregion (LRR): Mediterranean CA			
Soil Map Unit Name: Not Available			cation: Not mapped as wetlar
Are climatic / hydrologic conditions on the site typical for			
Are Vegetation, Soil, or Hydrology			present? Yes✓_ No
Are Vegetation, Soil, or Hydrology		eeded, explain any answe	900 august 20 30 august 20 4 20 4 20 4 20 4 20 4 20 4 20 4 20
SUMMARY OF FINDINGS – Attach site ma			350 100
2002 18 19 19 19 10 10 10 10 10 10 10 10 10 10 10 10 10		,	,,
The state of the s	No ✓ Is the Sample	d Area	
Hydric Soil Present? Yes Wetland Hydrology Present? Yes		nd? Yes	No <u>√</u>
Remarks:	, , , , , , , , , , , , , , , , , , ,		
Looking to ID presence/absence of CCC v	wetland only. No evidence	of OHWM No CC	C wetland present
Leoning to 15 presente, assence or each	redana omy. No evidence	. 01 0111111111111111111111111111111111	e wedana presenti
VEGETATION – Use scientific names of pla	ante		
VEGETATION – Use scientific flames of pie	Absolute Dominant Indicator	Dominance Test work	(sheet:
Tree Stratum (Plot size:)		Number of Dominant S	
1			or FAC:0 (A)
2		Total Number of Domir	
3		Species Across All Stra	ata:1 (B)
4		Percent of Dominant S	
Sapling/Shrub Stratum (Plot size:)	= Total Cover	That Are OBL, FACW,	or FAC:0 (A/B)
1		Prevalence Index wor	ksheet:
2		Total % Cover of:	Multiply by:
3			x 1 =
4		91	x 2 =
5		POSSESSE PROPERTY OF THE PROPE	x 3 =
Herb Stratum (Plot size:5')	= Total Cover	UPL species	x 4 =
1. Carpobrotus edulis		MANAGEMENT AND ADDRESS OF THE PARTY OF THE P	(A)(B)
2		61	
3			c = B/A =
4		Hydrophytic Vegetation	
5		Dominance Test is	
6		Prevalence Index i	s ≤3.0° uptations¹ (Provide supporting
7		data in Remark	s or on a separate sheet)
8		Problematic Hydro	phytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)			
1			il and wetland hydrology must
2		be present, unless distr	urbed or problematic.
	0 = Total Cover	Hydrophytic Vegetation	
% Bare Ground in Herb Stratum60	over of Biotic Crust0		es No
Remarks:		1	
15% litter in herb stratum			

SOIL Sampling Point: 4D

Depth	ription: (Describe Matrix	to the deptr	n needed to document the indicator or Redox Features	confirm the abs	sence of indicators.)
(inches)	Color (moist)	%	Color (moist) % Type ¹	Loc ² Text	ure Remarks
0-16"	10YR 3/2	100		SL	
¹Type: C=C	oncentration D=De	oletion RM=F	Reduced Matrix, CS=Covered or Coated	Sand Grains	² Location: PL=Pore Lining, M=Matrix.
			RRs, unless otherwise noted.)		cators for Problematic Hydric Soils ³ :
Histosol			Sandy Redox (S5)		1 cm Muck (A9) (LRR C)
Histic Ep	pipedon (A2)		Stripped Matrix (S6)		2 cm Muck (A10) (LRR B)
Black Hi	stic (A3)		Loamy Mucky Mineral (F1)	<u></u>	Reduced Vertic (F18)
	en Sulfide (A4)		Loamy Gleyed Matrix (F2)	7	Red Parent Material (TF2)
	Layers (A5) (LRR	C)	Depleted Matrix (F3)		Other (Explain in Remarks)
	ick (A9) (LRR D) d Below Dark Surfa	co (Δ11)	Redox Dark Surface (F6)Depleted Dark Surface (F7)		
	ark Surface (A12)	c (ATT)	Redox Depressions (F8)	3Indi	cators of hydrophytic vegetation and
	fucky Mineral (S1)		Vernal Pools (F9)		etland hydrology must be present,
Sandy G	Sleyed Matrix (S4)				nless disturbed or problematic.
Restrictive	Layer (if present):				
Type: No	one		_		
Depth (in	ches):			Hydri	ic Soil Present? Yes No _ ✓
Remarks:					
SL= Sandy	Loam				
SL- Sallu	LUaiii				
HYDROLO	GY				
Wetland Hy	drology Indicators	:			
Primary India	cators (minimum of	one required;	check all that apply)		Secondary Indicators (2 or more required)
Surface	Water (A1)		Salt Crust (B11)		Water Marks (B1) (Riverine)
High Wa	ater Table (A2)		Biotic Crust (B12)		Sediment Deposits (B2) (Riverine)
Saturation			Aquatic Invertebrates (B13)		Drift Deposits (B3) (Riverine)
Water M	larks (B1) (Nonrive	rine)	Hydrogen Sulfide Odor (C1)		Drainage Patterns (B10)
Sedimer	nt Deposits (B2) (No	nriverine)	Oxidized Rhizospheres along Live	ving Roots (C3)	Dry-Season Water Table (C2)
Drift Dep	oosits (B3) (Nonrive	erine)	Presence of Reduced Iron (C4)		Crayfish Burrows (C8)
Surface	Soil Cracks (B6)		Recent Iron Reduction in Tilled S	Soils (C6)	Saturation Visible on Aerial Imagery (C9)
Inundati	on Visible on Aerial	Imagery (B7)	Thin Muck Surface (C7)		Shallow Aquitard (D3)
Water-S	tained Leaves (B9)		Other (Explain in Remarks)	20	FAC-Neutral Test (D5)
Field Obser			101		
Surface Wat	er Present?	/es N	o Depth (inches):	.	
Water Table	Present?	/es N	o Depth (inches):		
Saturation P		res N	o Depth (inches):	Wetland Hyd	Irology Present? Yes No _ ✓
(includes cap Describe Re		n gauge mon	itoring well, aerial photos, previous inspe	ections) if availal	ble:
Describe No	corded Data (Stream	r gauge, mon	intorning well, aeriai priotos, previous irispe	ctions), ii availai	oie.
Remarks:					
nemarks.					

Project/Site: Potential Well Sites	(City/County	: Playa Del	Rey, Los Angel	es Sai	mpling Date:	12/2/13
Applicant/Owner: Southern California Gas Co.				State:	CA Sar	mpling Point: _	5A
Investigator(s): Paul Schwartz, Megan Jameson		Section, To	wnship, Ran	nge: <u>Unsectione</u>	d, T2S, R1	5W	
Landform (hillslope, terrace, etc.): terrace of floodplain		Local relief	(concave, c	convex, none): No	one	Slope	e (%):<1%
Subregion (LRR): Mediterranean CA							
Soil Map Unit Name: Not Available	19			NWI o			
Are climatic / hydrologic conditions on the site typical for this t	time of ves						
Are Vegetation, Soil, or Hydrology sig	LOS AND			Normal Circumsta			No 🗸
Are Vegetation ✓ , Soil ✓ , or Hydrology ✓ na				eded, explain any	Secretary Section 1994 Sec. Section 1995	DEMON STREET	110
SUMMARY OF FINDINGS – Attach site map si			350	W A 31		35	tures, etc.
7 Action on the map of	owg		g point ic	Journal of their	00010, 111	iportant rou	
Hydrophytic Vegetation Present? Yes No		Is th	e Sampled	Area			
Hydric Soil Present? Yes No		with	in a Wetlan	d? Ye	s	No	
Wetland Hydrology Present? Yes ✓ No Remarks:					×		
1			NI	damas of OUN			
CCC wetland only based on presence of wet	land ny	arology	. No evic	dence of OHV	VIVI.		
VEGETATION – Use scientific names of plants	3.	1000 To 1000					
Tree Stratum (Plot size:)		Dominant Species?		Dominance Tes			
1				Number of Dom That Are OBL, F			(A)
2				100 00 00 02 100 000 00000 00 00 00			
3				Total Number of Species Across		0	(B)
4				(a)			
		= Total Co		Percent of Domi That Are OBL, F			(A/B)
Sapling/Shrub Stratum (Plot size:)				Prevalence Ind			
1				Total % Cov			bv:
2				OBL species			
3				FACW species			
5			: · · · · · · · · · · · · · · · · · · ·	FAC species			
		= Total Co	ver	FACU species	65	x 4 =2	60
Herb Stratum (Plot size:5')	-0.00400			UPL species	5	x5=2	25
1. Cynodon dactylon		Yes	_FACU_	Column Totals:	77	(A) 3	04 (B)
2. Paspalum dilatatum		No_	FAC_	Dravalana	o ladov = F	3/A =3.9	1
3. Chamaesyce albomarginata	2	No_	UPL_	Hydrophytic Ve	and the second second		
Medicago polymorpha Euthamnia occidentalis	_	No	FACU FACW	Dominance			
Eutnamnia occidentalis Erigeron canadensis			FACU	Prevalence			
7		111.20		Morphologic			upporting
8			1	data in R	Remarks or	on a separate s	sheet)
		= Total Co	ver	Problemation	Hydrophyt	ic Vegetation¹ (I	Explain)
Woody Vine Stratum (Plot size:)				1			NO 000 049
1				¹ Indicators of hy be present, unle			
2							1000
	September 1900 August 1900 Aug	= Total Co	THE SALES	Hydrophytic Vegetation			
% Bare Ground in Herb Stratum 23 % Cover of	of Biotic Cr	ust()	Present?	Yes	No <u></u>	_
Remarks:							

SOIL Sampling Point: 5A

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix	0/		ox Features	12		D
(inches)	Color (moist)	%	Color (moist)	%Type ¹ _	Loc ²	Texture	Remarks
0-6"	10YR 3/2	100	(600.0	 			Sandy clay loam
6-14"	10YR 4/4	95	7.5YR 4/6	5			Sandy loam
2010 NO. 100 NO.	to teste Acres stout	20 100 100 100 100			1200 CO. 100 CO.	AV 9920.5	WE ONE ON THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADD
				S=Covered or Coated	d Sand Gra		cation: PL=Pore Lining, M=Matrix.
5-70 St. 104	Indicators: (Applic	able to all					for Problematic Hydric Soils ³ :
Histosol			Sandy Red				Muck (A9) (LRR C)
	oipedon (A2) stic (A3)		Stripped M	cky Mineral (F1)			Muck (A10) (LRR B) ced Vertic (F18)
	n Sulfide (A4)			eyed Matrix (F2)		-	earent Material (TF2)
	Layers (A5) (LRR	C)	Depleted N				(Explain in Remarks)
	ick (A9) (LRR D)	88	Redox Dar	k Surface (F6)			▼C35
Depleted	d Below Dark Surfac	e (A11)	Depleted D	Dark Surface (F7)			
	ark Surface (A12)			pressions (F8)			of hydrophytic vegetation and
(2)	lucky Mineral (S1)		Vernal Poo	ols (F9)			hydrology must be present,
107 170	Gleyed Matrix (S4)					unless o	disturbed or problematic.
	Layer (if present):						
Type:	-L \.					Hardela Oali	Description No.
Depth (inc	ches):					Hydric Soil	Present? Yes No
HYDROLO	GY						
Wetland Hy	drology Indicators:	;					
Primary India	cators (minimum of	one required	d; check all that app	oly)		Seco	ndary Indicators (2 or more required)
Surface	Water (A1)		Salt Crus	t (B11)		V	Vater Marks (B1) (Riverine)
High Wa	iter Table (A2)		Biotic Cru			_ s	Sediment Deposits (B2) (Riverine)
Saturation	on (A3)		Aquatic Ir	nvertebrates (B13)		[Orift Deposits (B3) (Riverine)
	larks (B1) (Nonrive	rine)	Hydrogen	Sulfide Odor (C1)			Orainage Patterns (B10)
Sedimer	nt Deposits (B2) (No	nriverine)	Oxidized	Rhizospheres along L	iving Root	s (C3) [Ory-Season Water Table (C2)
Drift Dep	oosits (B3) (Nonrive	rine)	Presence	of Reduced Iron (C4)	_ 0	Crayfish Burrows (C8)
✓ Surface	Soil Cracks (B6)		Recent Ire	on Reduction in Tilled	Soils (C6)	8	Saturation Visible on Aerial Imagery (C9)
Inundation	on Visible on Aeria	Imagery (B	7) Thin Mucl	k Surface (C7)		_ 8	Shallow Aquitard (D3)
	tained Leaves (B9)		Other (Ex	plain in Remarks)		F	AC-Neutral Test (D5)
Field Obser	vations:		127.5				
Surface Water				nches):			
Water Table				nches):	400000000000000000000000000000000000000		
Saturation P		'es	No <u></u> ✓ Depth (ir	nches):	_ Wetla	nd Hydrolog	y Present? Yes ✓ No
(includes cap Describe Re		gauge, mo	onitoring well, aerial	photos, previous insp	pections), if	available:	
	.3	E 85000	3 2 7 (5)	3 65 111 5	550		
Remarks:							
	ing in area slic	htly love	or than surre	nding vegetates	d area		
Soil crack	ing in area silg	illy lowe	er trian surrou	nding vegetated	a area.		

Project/Site: Potential Well Sites	(City/County	y: <u>Playa Del</u>	Rey, Los Angeles	Sampling Date:	12/2/13
Applicant/Owner: Southern California Gas Co.				State:C/	A Sampling Point:	5B
Investigator(s): Paul Schwartz, Megan Jameson		Section, To	ownship, Rar	nge: <u>Unsectioned</u>	, T2S, R15W	
Landform (hillslope, terrace, etc.): <u>terrace of floodplain</u>		Local relie	f (concave, c	convex, none): Nor	ne Slo	pe (%): <1%
Subregion (LRR): Mediterranean CA						
Soil Map Unit Name: Not Available				NWI cla	assification: Not mapp	ped as wetland
Are climatic / hydrologic conditions on the site typical for this	time of vea	ar? Yes				
Are Vegetation, Soil, or Hydrology si					ces" present? Yes	No ✓
Are Vegetation, Soil, or Hydrology na					answers in Remarks.)	
SUMMARY OF FINDINGS – Attach site map s			353	10 A STA	3.50	eatures, etc.
2002 10 00 70 000 00 000 000			01			
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Moderate No.		ls ti	he Sampled	Area		
Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No		with	hin a Wetlan	id? Yes	No	_
Remarks:						
Looking to ID presence/absence of CCC we	tland on	ly No e	vidence c	of OHWM No	CCC wetland nre	scant
Looking to 10 presence/absence of ecc we	tiariu ori	iy. NO E	vidence c	of Offwivi. No	ccc wetland pre	:30111.
VEGETATION – Use scientific names of plant	Control of the last					
Tree Stratum (Plot size:)			t Indicator Status	Dominance Test		
1				Number of Domin That Are OBL, FA	ACW, or FAC:) (A)
2.				Total Number of D		
3				Species Across A	TI-TI-III	<u>O</u> (B)
4				Percent of Domina	ant Species	
Scaling/Shrub Stratum /Blat size:		= Total Co	over		CW, or FAC:	0 (A/B)
Sapling/Shrub Stratum (Plot size:) 1				Prevalence Index	x worksheet:	
2					er of: Multipl	lv bv:
3				El ntour history ver move.	x 1 =	
4			1000		x 2 =	
5.				FAC species 2	2 x 3 =	6
		= Total Co	over	FACU species 6	58 x 4 =	272
Herb Stratum (Plot size: 5')	60	Voc	FACIL		x 5 =	
Cynodon dactylon Cortaderia selloana		Yes No	<u>FACU</u> FACU	Column Totals:	(A)	278 (B)
Erigeron canadensis		No	FACU	Prevalence	Index = B/A =3	.97
4. Paspalum dilatatum		No		11/12/09/11/09/11/20/09/09/09	etation Indicators:	
5			2.35	Dominance T	est is >50%	
6			8575	Prevalence Ir		
7				Morphologica	al Adaptations ¹ (Provide	supporting
8				4 824 4 535 5 5 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6	emarks or on a separate	
	70	= Total Co	over	Problematic F	Hydrophytic Vegetation	(Explain)
Woody Vine Stratum (Plot size:)				¹ Indicators of hydi	ric soil and wetland hyd	trology must
1					s disturbed or problema	
2		= Total Co	over	Hydrophytic		
N Para Constant in Hart Startum 30 N Constant			MCMCMASA13	Vegetation	V N-	,
% Bare Ground in Herb Stratum30 % Cover	of Blotic Cr	ust	<u> </u>	Present?	Yes No	<u> </u>
Remarks:						

SOIL Sampling Point: 5B

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the	indicator	or confirm	the absence	e of indicators.)	_
Depth	Matrix			x Feature			<u> </u>	~~	
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	-1
0-3"	10YR 3/2	100						Sandy clay loam	
3-12"	7.5YR 4/4	100						Sand	
1Tuno: C=Co	noontration D=Dor	lotion DM-F	Paduaad Matrix Co	C-Covere	d or Coots	d Cond Cr		nection: DI = Devo Lining M=Metrix	
	ncentration, D=Dep ndicators: (Applic					d Sand Gra		s for Problematic Hydric Soils ³ :	_
		able to all L			eu.,			5,400 \$ 4 × 14,200 \$ 0 × 14,00 \$ 0 × 14,00 \$ 1,00	
Histosol	ipedon (A2)		Sandy Red Stripped Ma					Muck (A9) (LRR C) Muck (A10) (LRR B)	
Black His			Loamy Muc		l (F1)			ced Vertic (F18)	
	n Sulfide (A4)		Loamy Gley					Parent Material (TF2)	
	Layers (A5) (LRR	C)	Depleted M		(12)			r (Explain in Remarks)	
	ck (A9) (LRR D)	-,	Redox Dark		(F6)		— 8800	(
- Paris	Below Dark Surface	e (A11)	Depleted D		300000000				
	rk Surface (A12)		Redox Dep				3Indicators	s of hydrophytic vegetation and	
Sandy M	ucky Mineral (S1)		Vernal Poo	s (F9)			wetland	d hydrology must be present,	
Sandy G	leyed Matrix (S4)						unless	disturbed or problematic.	
Restrictive L	ayer (if present):								
Туре:									
Depth (inc	hes):		_				Hydric Soi	il Present? Yes No✓_	
Remarks:							1.50	<u> </u>	-
Very hard	, compact soil	but no co	ncrete chunk	s or lay	ers as ii	n other a	areas.		
HYDROLO	GY								
Wetland Hyd	Irology Indicators:								_
Primary Indic	ators (minimum of	one required;	check all that appl	y)			Seco	ondary Indicators (2 or more required)	
Surface \			Salt Crust	Day o				Water Marks (B1) (Riverine)	
	ter Table (A2)		Biotic Crus					Sediment Deposits (B2) (Riverine)	
Saturatio			Aquatic In		s (B13)			Drift Deposits (B3) (Riverine)	
	arks (B1) (Nonrive	rine)	Hydrogen					Drainage Patterns (B10)	
	t Deposits (B2) (No				COLUMN STOCKHOLE	Living Root		Dry-Season Water Table (C2)	
	osits (B3) (Nonrive		Presence					Crayfish Burrows (C8)	
	Soil Cracks (B6)	ille)	Recent Iro					Saturation Visible on Aerial Imagery (C9)	
	on Visible on Aeria	Imageny (B7)				a Solis (Co	_	Shallow Aquitard (D3)	
		illiagery (br)							
Field Observ	ained Leaves (B9)		Other (Exp	Diairi III Ke	emarks)	1	6 <u>1——6</u>	FAC-Neutral Test (D5)	_
		/ N	/ 5						
Surface Water			o _ ✓ Depth (in						
Water Table I			o _ ✓ Depth (in			2010 VC CC		200 1 1000 1000 1000 1000 1000 1000 100	
Saturation Pr		'es No	o _✓_ Depth (in	ches):		_ Wetla	and Hydrolog	gy Present? Yes No _✓	
(includes cap Describe Rec	illary fringe) orded Data (stream	gauge mon	itoring well, aerial	photos pr	evious ins	pections) i	f available		_
200011001100	Sala (Sirodii	gaage, mon				F 00.10110), 1	. L. Gildbio.		
Remarks:									_
No indicat	ors noted.								

Project/Site: Potential Well Sites	(City/Cour	nty: Playa I	Del Rey, Los Angeles	Sampling Date:	12/2/13
Applicant/Owner: Southern California Gas Co.				State: CA	Sampling Point:	7A
Investigator(s): Paul Schwartz, Megan Jameson		Section,	Township, F	Range: <u>Unsectioned,</u>	T2S, R15W	
Landform (hillslope, terrace, etc.): terrace of floodplain		Local reli	ief (concav	e, convex, none): None	Slope	e (%): <1%
Subregion (LRR): Mediterranean CA	_ Lat: 33.9	964939		Long: -118.43558	36 Datum	n: NAD 83
Soil Map Unit Name: Not Available				NWI clas		
Are climatic / hydrologic conditions on the site typical for this	time of vea	ar? Yes				
Are Vegetation, Soil, or Hydrology si				re "Normal Circumstance		No ✓
Are Vegetation, Soil, or Hydrology na				needed, explain any an	Hebri II. • Dio Adore di Solubioni	
SUMMARY OF FINDINGS – Attach site map s				10 II	150	itures, etc.
			01			
Hydrophytic Vegetation Present? Yes No		Is	the Sampl	ed Area		
Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No		wi	ithin a Wet	land? Yes _	No <u>√</u>	
Remarks:						
Looking to ID presence/absence of CCC we	tland on	lv No	ovidono	o of OHWM No	CCC wetland pres	ont
Looking to 10 presence/absence of ecc we	tianu on	Iy. NO	evidence	e of Offwivi. No	see wetland pres	ent.
VEGETATION – Use scientific names of plant	Control of the Control					
Tree Stratum (Plot size:)	Absolute % Cover		int Indicato ? Status			
1				- Number of Domina	CW, or FAC:0	(A)
2				Total Number of Do	ominant	
3				_ Species Across All		(B)
4				Percent of Dominar	nt Snecies	
Sapling/Shrub Stratum (Plot size:)		= Total (Cover		CW, or FAC:0	(A/B)
1				Prevalence Index	worksheet:	
2					of: Multiply	bv:
3.					x 1 =	100
4.					x 2 =	
5				FAC species	x 3 =	
51		= Total (Cover		x 4 =2	
Herb Stratum (Plot size:5') 1. Euphorbia esula	65	Voc	LIDI	MANAGEMENT AND AN ADVANCED PROPERTY.	1 x 5 = 4	
Euphorbia esula Foeniculum vulgare		Yes No	UPL UPL	Column Totals:	90 (A) 4	44 (B)
Chrysanthemum coronarium		No	UPL	_	ndex = B/A =4.9	3
4. Cortaderia selloana		No	FACU	Hydrophytic Vege	tation Indicators:	
5. Erigeron canadensis		No	FACU	7 (4)	st is >50%	
6				Prevalence Ind		
7				Morphological	Adaptations ¹ (Provide s	upporting
8				4 1825 4 233 5 23 C C C C C C C C C C C C C C C C C C	narks or on a separate s ydrophytic Vegetation¹ (
West Nies Chature (Blat sies)	90	= Total (Cover	Problematic Hy	diophytic vegetation (Схріаіі і)
Woody Vine Stratum (Plot size:)				¹ Indicators of hydrid	c soil and wetland hydro	ology must
1 2					disturbed or problemation	
		= Total (Cover	Hydrophytic		
% Bare Ground in Herb Stratum 10 % Cover	of Biotic Cr			Vegetation Present?	Yes No	,
Remarks:	Of Blotte Ci	usi		Fresents	165 NO	
Tremans.						

SOIL Sampling Point: 7A

	- A	to the depti	h needed to document the indicator or o	confirm the abse	ence of indicators.)
Depth (inches)	Color (moist)	%	Redox Features Color (moist) % Type ¹ L	oc² Textur	re Remarks
0-12"	10YR 3/2	100			Sandy clay loam
0 12	101113/2	100			Sarray clay rourn
					
1Tuno: C=C	naontration D-Day	alotion DM-I	Reduced Matrix CS=Covered or Costed S	and Crains	21 costion: DI =Doro Lining M=Metrix
			Reduced Matrix, CS=Covered or Coated S .RRs, unless otherwise noted.)		² Location: PL=Pore Lining, M=Matrix. ators for Problematic Hydric Soils ³ :
Histosol		Judio to un L	Sandy Redox (S5)		cm Muck (A9) (LRR C)
	oipedon (A2)		Stripped Matrix (S6)		cm Muck (A10) (LRR B)
Black Hi			Loamy Mucky Mineral (F1)		educed Vertic (F18)
Hydroge	n Sulfide (A4)		Loamy Gleyed Matrix (F2)	R	ed Parent Material (TF2)
Stratified	Layers (A5) (LRR	C)	Depleted Matrix (F3)	_ 0	ther (Explain in Remarks)
1 cm Mu	ck (A9) (LRR D)		Redox Dark Surface (F6)		
	Below Dark Surface	ce (A11)	Depleted Dark Surface (F7)		
	ark Surface (A12)		Redox Depressions (F8)		ators of hydrophytic vegetation and
	lucky Mineral (S1)		Vernal Pools (F9)		land hydrology must be present,
10 10 10	leyed Matrix (S4) ayer (if present):			unie	ess disturbed or problematic.
Type:	Layer (ii present).				
	ches):			Hydric	Soil Present? Yes No _ ✓_
	Jiles)		_	riyuric	Soli Fresent: Tes No
Remarks:					
At 12" hit	impenetrable	surface (concrete?).		
HYDROLO	GY				
Wetland Hyd	drology Indicators	:			
Primary India	ators (minimum of	one required;	check all that apply)	<u>s</u>	Secondary Indicators (2 or more required)
Surface	Water (A1)		Salt Crust (B11)		Water Marks (B1) (Riverine)
High Wa	ter Table (A2)		Biotic Crust (B12)		Sediment Deposits (B2) (Riverine)
Saturation			Aquatic Invertebrates (B13)	_	Drift Deposits (B3) (Riverine)
Water M	arks (B1) (Nonrive	rine)	Hydrogen Sulfide Odor (C1)		Drainage Patterns (B10)
Sedimer	nt Deposits (B2) (No	nriverine)	Oxidized Rhizospheres along Livi	ing Roots (C3)	Dry-Season Water Table (C2)
Drift Dep	osits (B3) (Nonrive	erine)	Presence of Reduced Iron (C4)		Crayfish Burrows (C8)
Surface	Soil Cracks (B6)		Recent Iron Reduction in Tilled So	oils (C6)	Saturation Visible on Aerial Imagery (C9)
Inundation	on Visible on Aerial	Imagery (B7)	Thin Muck Surface (C7)	F - 1	_ Shallow Aquitard (D3)
Water-S	tained Leaves (B9)		Other (Explain in Remarks)	_	FAC-Neutral Test (D5)
Field Observ	vations:				
Surface Water	er Present?	/es N	lo✓ Depth (inches):		
Water Table	Present?	res N	lo Depth (inches):		
Saturation Pr	resent?	res N	lo✓ Depth (inches):	Wetland Hydro	ology Present? Yes No✓_
(includes cap	oillary fringe)				
Describe Rec	corded Data (stream	n gauge, mor	nitoring well, aerial photos, previous inspec	ctions), if available	e:
Remarks:					
No indica	tors noted.				

Project/Site: Potential Well Sites	(City/Count	y: Playa De	Rey, Los Angele	s Sar	mpling Date:	12/2/13
Applicant/Owner: Southern California Gas Co.				State:C	A Sar	mpling Point: _	7B
Investigator(s): Paul Schwartz, Megan Jameson		Section, T	ownship, Rar	nge: <u>Unsectioned</u>	d, T2S, R1	5W	
Landform (hillslope, terrace, etc.): terrace of floodplain		Local relie	ef (concave, o	convex, none): No	ne	Slope	e (%): <1%
Subregion (LRR): Mediterranean CA	_ Lat: 33.9	964858		Long: -118.435	903	Datum	: NAD 83
a waa aa waa Mak Awallahla	- 51 - 52			NWI cl			
Are climatic / hydrologic conditions on the site typical for this							
Are Vegetation, Soil, or Hydrology s	n india			Normal Circumstar			No ✓
Are Vegetation, Soil, or Hydrology n				eded, explain any			
				10 IA STAL		250	
SUMMARY OF FINDINGS – Attach site map	snowing	Sampin	ng point it	ocations, trans	sects, iii	ірогіані теа	tures, etc.
Hydrophytic Vegetation Present? Yes✓ No.		ls t	he Sampled	Area			
Hydric Soil Present? Yes No		wit	hin a Wetlan	d? Yes	s_ √ _	No	
Wetland Hydrology Present? Yes No	o <u> </u>				8		
X 2477 2447 2447 2477 THE REPORT 1	بامم اممار	. No ou	idones of	OLIVAVA CCC		مممط برامم	d a.a
Looking to ID presence/absence of CCC wet presence of hydrophytic vegetation.	iand only	/. No ev	idence of	OHWIVI. CCC	wettand	only, base	a on
VEGETATION – Use scientific names of plan	5-01-17-17	Dawinas	4 ladiantas	Daminana Tar	4a ulsa la a	-4.	
Tree Stratum (Plot size:)	Absolute % Cover		nt Indicator Status	Dominance Test Number of Domin		7.77	
1				That Are OBL, F			(A)
2				Total Number of	Dominant		
3				Species Across A		2	(B)
4				Percent of Domir	ant Specie	ae .	
Sapling/Shrub Stratum (Plot size:)		= Total C	over	That Are OBL, F			(A/B)
				Prevalence Inde	x workshe	et:	
1						Multiply_	bv:
3				OBL species			
4				FACW species _			
5				FAC species			
				FACU species _		_ x 4 =	
Herb Stratum (Plot size:5')			0.0000000000000000000000000000000000000	UPL species _		_ x 5 =	
1. Euthamnia occidentalis		Yes	<u>FACW</u>	Column Totals:		(A)	(B)
2. Euphorbia esula		Yes	UPL	Provolonos	Indox = B	3/A =	
3. Foeniculum vulgare			UPL	Hydrophytic Ve	NAME OF STREET		
4. Helminotheca echioides			FACU	✓ Dominance			
5			85.75	Prevalence I			
6				170 751		ons ¹ (Provide s	upporting
8				data in Re	emarks or	on a separate s	heet)
·		= Total C		Problematic	Hydrophyti	ic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)				•			
1				¹ Indicators of hyd be present, unles			
2					or alotal bot	a or probleman	-
		= Total C	over	Hydrophytic Vegetation			
% Bare Ground in Herb Stratum 0	of Biotic Cr	rust	0	Present?	Yes	<u>√</u> No	_
Remarks:							

SOIL Sampling Point: 7B

	Matrix Color (moist)	%	Color (moist)	dox Features%Type ¹	Loc ² Text	ture Remarks
(inches)			(IIIOISL)			TOTAL TOTAL CONTRACTOR
0-10"	10YR 3/2	_ 100	-			Sandy loam
10-12"	10YR 2/1	99	7.5YR 5/6			Sandy clay loam
				CS=Covered or Coated		² Location: PL=Pore Lining, M=Matrix.
	Indicators: (Appli	cable to all				cators for Problematic Hydric Soils ³ :
Histoso			Sandy Re			1 cm Muck (A9) (LRR C)
	pipedon (A2)			Matrix (S6)		2 cm Muck (A10) (LRR B)
	istic (A3)			ucky Mineral (F1)		Reduced Vertic (F18)
	en Sulfide (A4)	-		leyed Matrix (F2)	7	Red Parent Material (TF2)
	d Layers (A5) (LRR	C)		Matrix (F3)		Other (Explain in Remarks)
	uck (A9) (LRR D)	(844)		ark Surface (F6)		
	d Below Dark Surfa	ce (A11)		Dark Surface (F7)	3	
	ark Surface (A12)			epressions (F8)		icators of hydrophytic vegetation and
	Mucky Mineral (S1) Gleyed Matrix (S4)		Vernal Po	oois (F9)		retland hydrology must be present, nless disturbed or problematic.
	Layer (if present):					meas distarbed of problematio.
Туре:						
Depth (in	iches):				Hydr	ric Soil Present? Yes No _ 🗸
Remarks:						
IYDROLO	OGY					
Wetland Hy	drology Indicators	:				
	drology Indicators		d; check all that ap	oply)		Secondary Indicators (2 or more required)
Primary Indi	cators (minimum of		·			
Primary Indi	cators (minimum of Water (A1)		Salt Cru	ıst (B11)		Water Marks (B1) (Riverine)
Primary Indi Surface High W	cators (minimum of Water (A1) ater Table (A2)		Salt Cru	ust (B11) rust (B12)		Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Primary Indi Surface High W Saturati	cators (minimum of Water (A1) ater Table (A2) ion (A3)	one required	Salt Cru Biotic Ci Aquatic	ust (B11) rust (B12) Invertebrates (B13)		 Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Primary Indi Surface High W Saturati Water N	cators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive	one required	Salt Cru Biotic Ci Aquatic Hydroge	ust (B11) rust (B12) Invertebrates (B13) en Sulfide Odor (C1)	iving Roots (C3)	 Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Primary Indi Surface High W Saturati Water N Sedime	cators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive nt Deposits (B2) (No	one required rine) onriverine)	Salt Cru Biotic Ci Aquatic Hydroge Oxidized	ust (B11) rust (B12) Invertebrates (B13) en Sulfide Odor (C1) d Rhizospheres along L		 Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
Primary Indi Surface High W Saturati Water N Sedime Drift De	cators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive nt Deposits (B2) (Nonrive	one required rine) onriverine)	Salt Cru Biotic Ci Aquatic Hydroge Oxidized	ust (B11) rust (B12) Invertebrates (B13) en Sulfide Odor (C1) d Rhizospheres along L e of Reduced Iron (C4))	 Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Primary Indi Surface High W Saturati Water N Sedime Drift De Surface	cators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive int Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6)	one required rine) onriverine) erine)	Salt Cru Biotic Ci Aquatic Hydroge Oxidized Presend	Ist (B11) rust (B12) Invertebrates (B13) en Sulfide Odor (C1) d Rhizospheres along L ee of Reduced Iron (C4) Iron Reduction in Tilled)	 Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Primary Indi Surface High W. Saturati Water M Sedime Drift De Surface Inundat	cators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial	rine) priverine) erine) Imagery (B	Salt Cru Biotic Ci Aquatic Hydroge Oxidized Presend Recent	rust (B11) rust (B12) Invertebrates (B13) en Sulfide Odor (C1) d Rhizospheres along L ee of Reduced Iron (C4) Iron Reduction in Tilled lick Surface (C7))	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Primary Indi Surface High W Saturati Water N Sedime Drift De Surface Inundat Water-S	cators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9)	rine) priverine) erine) Imagery (B	Salt Cru Biotic Ci Aquatic Hydroge Oxidized Presend Recent	Ist (B11) rust (B12) Invertebrates (B13) en Sulfide Odor (C1) d Rhizospheres along L ee of Reduced Iron (C4) Iron Reduction in Tilled)	 Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Primary Indi Surface High W Saturati Water N Sedime Drift De Surface Inundat Water-S Field Obser	cators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive nt Deposits (B2) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations:	one required rine) onriverine) erine) Imagery (B	Salt Cru Biotic Ci Aquatic Hydroge Oxidized Presend Recent Thin Mu Other (E	rust (B11) rust (B12) Invertebrates (B13) en Sulfide Odor (C1) d Rhizospheres along L e of Reduced Iron (C4) Iron Reduction in Tilled ack Surface (C7) Explain in Remarks)	Soils (C6)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Primary Indi Surface High W Saturati Water N Sedime Drift De Surface Inundat Water-S Field Obser	cators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive int Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present?	one required rine) conriverine) erine) Imagery (B	Salt Cru Biotic Ci Aquatic Hydroge Oxidized Presence Recent Thin Mu Other (E	Inst (B11) Invertebrates (B13) Invertebrates (Soils (C6)	 Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3)
Primary Indi Surface High W Saturati Water N Sedime Drift De Surface Inundat Water-S Field Obser Surface Water Table	cators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive nt Deposits (B2) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations:	rine) pariverine) erine) Imagery (B'	Salt Cru Biotic Ci Aquatic Hydroge Oxidized Presend Recent Thin Mu Other (E	Ist (B11) rust (B12) Invertebrates (B13) en Sulfide Odor (C1) d Rhizospheres along L ee of Reduced Iron (C4) Iron Reduction in Tilled lick Surface (C7) Explain in Remarks) (inches):	Soils (C6)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
Primary Indi Surface High W Saturati Water N Sedime Drift De Surface Inundat Water-S Field Obsel Surface Wa Water Table Saturation F (includes ca	cators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive nt Deposits (B2) (Noposits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present? Present?	one required rine) onriverine) erine) Imagery (B' Yes Yes	Salt Cru Biotic Ci Aquatic Hydroge Oxidized Presend Recent Thin Mu Other (E	Ist (B11) rust (B12) Invertebrates (B13) en Sulfide Odor (C1) d Rhizospheres along L ee of Reduced Iron (C4) Iron Reduction in Tilled lick Surface (C7) Explain in Remarks) (inches): (inches):	Soils (C6) Wetland Hyd	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
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Primary Indi Surface High W Saturati Water N Sedime Drift De Surface Inundat Water-S Field Obser Surface Wa Water Table Saturation F (includes ca	cators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive nt Deposits (B2) (Noposits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present? Present?	one required rine) onriverine) erine) Imagery (B' Yes Yes	Salt Cru Biotic Ci Aquatic Hydroge Oxidized Presend Recent Thin Mu Other (E	Ist (B11) rust (B12) Invertebrates (B13) en Sulfide Odor (C1) d Rhizospheres along L ee of Reduced Iron (C4) Iron Reduction in Tilled lick Surface (C7) Explain in Remarks) (inches): (inches):	Soils (C6) Wetland Hyd	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
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Primary Indi Surface High W Saturati Water N Sedime Drift De Surface Inundat Water-S Field Obser Surface Water Table Saturation F (includes ca Describe Re	cators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive nt Deposits (B2) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present? Present? Present? Present? Present? Present? Present? Present?	one required rine) onriverine) erine) Imagery (B' Yes Yes	Salt Cru Biotic Ci Aquatic Hydroge Oxidized Presend Recent Thin Mu Other (E	Ist (B11) rust (B12) Invertebrates (B13) en Sulfide Odor (C1) d Rhizospheres along L ee of Reduced Iron (C4) Iron Reduction in Tilled lick Surface (C7) Explain in Remarks) (inches): (inches):	Soils (C6) Wetland Hyd	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)

Project/Site: Potential Well Sites		City/County	: Playa Del	Rey, Los Angeles	_ Sampling Date:	12/2/13
Applicant/Owner: Southern California Gas Co.						
Investigator(s): Paul Schwartz, Megan Jameson					e seculiar	
Landform (hillslope, terrace, etc.): terrace of floodplain						
Subregion (LRR): Mediterranean CA						
				NWI classifi		
Are climatic / hydrologic conditions on the site typical for this						
Are Vegetation, Soil, or Hydrology sig	LOUIS CONTRACTOR			Normal Circumstances"		No. ✓
Are Vegetation, Soil, or Hydrology na				eded, explain any answe		_ 110
SUMMARY OF FINDINGS – Attach site map s			1270	90 IA (II)	450	tures, etc.
	,					
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No		Is th	e Sampled			
Wetland Hydrology Present? Yes No		with	in a Wetlan	d? Yes	No	
Remarks:						
Looking to ID presence/absence of CCC wet	land on	ly No e	vidence c	of OHWM No CC	Cwetland prese	ent
Looking to 15 presence/assence of eee wee	iana on	1y. 140 C	viaciice c	or orrevier. No cc	e wetiana prese	
VEGETATION – Use scientific names of plants						
Tree Stratum (Plot size:)		Dominant Species?		Dominance Test work		
1				Number of Dominant S That Are OBL, FACW,		(A)
2				Total Number of Domi		
3				Species Across All Str		(B)
4				Percent of Dominant S	necies	
Seption/Shoule Stratum / Plot size:		= Total Co	ver	That Are OBL, FACW,		(A/B)
Sapling/Shrub Stratum (Plot size:)				Prevalence Index wo	rksheet.	
1				Total % Cover of:		ov:
3				OBL species		
4			57.5	FACW species 5		
5				FAC species 25	x 3 =7	5
51		= Total Co	ver	FACU species		
Herb Stratum (Plot size: 5')	60	Voc	LIDI	UPL species <u>65</u>		25
Euphorbia esula Helminotheca echioides	60 15	YesNo	UPL_ FACU_	Column Totals:	95 (A) <u>41</u>	LO (B)
Cortaderia selloana		No	FACU	Prevalence Index	x = B/A =4.32	2
Euthamnia occidentalis			FACW	Hydrophytic Vegetati	A	
5. Foeniculum vulgare			0.00	Dominance Test is	s >50%	
6			<u>⊗7:</u> ∧	Prevalence Index	is ≤3.0 ¹	
7				Morphological Ada	aptations ¹ (Provide su	pporting
8			sa .	Problematic Hydro	ks or on a separate sh	
	95	= Total Co	ver	Problematic Hydro	phytic vegetation (E	explain)
Woody Vine Stratum (Plot size:)				¹ Indicators of hydric so	oil and wetland hydrol	oav must
1				be present, unless dist		
		= Total Co	ver	Hydrophytic		
Street Access to the control of the	Matter engine and the second		(0.000)	Vegetation	an Na /	
% Bare Ground in Herb Stratum5	DI BIOLIC CI	ust		Present? Ye	es No	
Remarks:						

SOIL Sampling Point: 7C

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the i	ndicator	or confirm	the absence	e of indicators.)
Depth	Matrix		Redo	x Feature				
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-10"	10YR 3/2	100		· · · · · · · ·			-	Sandy loam
10-12"	10YR 2/1	100						Sandy clay loam (alot of concret
Hydric Soil I Histosol			RRs, unless othe	rwise not ox (S5)		d Sand Gra	Indicators 1 cm	ocation: PL=Pore Lining, M=Matrix. s for Problematic Hydric Soils³: Muck (A9) (LRR C)
	nipedon (A2)		Stripped Ma		1/E1)			Muck (A10) (LRR B)
Stratified 1 cm Mu Depleted	n Sulfide (A4) I Layers (A5) (LRR ck (A9) (LRR D) I Below Dark Surfac		Loamy Muc Loamy Gley Depleted M Redox Dark Depleted D	ved Matrix atrix (F3) Surface (ark Surface	(F2) (F6) ee (F7)		Red F	ced Vertic (F18) Parent Material (TF2) (Explain in Remarks)
	rk Surface (A12)		Redox Dep		F8)			s of hydrophytic vegetation and
	lucky Mineral (S1) leyed Matrix (S4)		Vernal Pool	S (F9)				I hydrology must be present, disturbed or problematic.
	ayer (if present):						T T T T T T T T T T T T T T T T T T T	distarbed of problematic.
Type:								
Depth (inc	ches):						Hydric Soi	I Present? Yes No _ ✓
Remarks:							270	<u> </u>
At approx	imately 12" in	npenetrak	ole. Alot of co	ncrete	chunks	through	nout.	
HYDROLO	GY							
Wetland Hyd	drology Indicators	:						
Primary Indic	ators (minimum of	one required;	check all that appl	y)			Seco	ndary Indicators (2 or more required)
Surface \	Water (A1)		Salt Crust	(B11)			\	Water Marks (B1) (Riverine)
High Wa	ter Table (A2)		Biotic Crus	st (B12)			_ ;	Sediment Deposits (B2) (Riverine)
Saturatio	on (A3)		Aquatic In	vertebrate	s (B13)		(Orift Deposits (B3) (Riverine)
Water Ma	arks (B1) (Nonrive	rine)	Hydrogen	Sulfide O	dor (C1)		(Drainage Patterns (B10)
Sedimen	t Deposits (B2) (No	nriverine)	Oxidized F	Rhizosphe	res along l	Living Root	ts (C3) [Dry-Season Water Table (C2)
Drift Dep	osits (B3) (Nonrive	erine)	Presence	of Reduce	ed Iron (C4	-)	_ (Crayfish Burrows (C8)
Surface S	Soil Cracks (B6)		Recent Iro	n Reducti	on in Tilled	Soils (C6) ;	Saturation Visible on Aerial Imagery (C9)
Inundatio	on Visible on Aerial	Imagery (B7)	Thin Muck	Surface (C7)		_ 5	Shallow Aquitard (D3)
	tained Leaves (B9)		Other (Exp	olain in Re	emarks)		!	FAC-Neutral Test (D5)
Field Observ	vations:							
Surface Water			o Depth (in	200		_ ı		
Water Table			o _ ✓ Depth (in			20000000000000		200 (100) 100
Saturation Pr (includes cap		/es N	o _✓_ Depth (in	ches):		_ Wetla	and Hydrolog	gy Present? Yes No _✓
	corded Data (stream	n gauge, mor	itoring well, aerial	photos, pr	evious ins	pections), i	if available:	
Remarks:								
No indicat	tors noted.							