

DOCKETED

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Attachment 4 – Biological Resources

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Subject **Stanton Energy Reliability Center (16-AFC-1)
Biological Resources Monthly Compliance Report
April 2019**

To: Tim Bofman, SERC, LLC

From: Ava Edens, Jacobs
SERC CEC Designated Biologist

Date: May 3, 2019

Copies: Greg Lamberg, WPower, LLC
Sharon Stureman, SERC, LLC
Doug Davy, Jacobs
Karen Parker, Jacobs

1. Introduction

This April 2019 Monthly Compliance Report (MCR) summarizes biological resources monitoring activities conducted and documentation prepared from April 1 through April 30, 2019 at the Stanton Energy Reliability Center (SERC) (16-AFC-1C) site located at 10711 Dale Avenue, Stanton, Orange County, California. The MCR is in accordance with the current (October 2018) Biological Resources Mitigation Implementation and Monitoring Plan (BRMIMP). The following biological resources Conditions of Certification (COCs) pertaining to monitoring activities covered by this MCR include, but are not limited to:

- BIO-2: Designated Biologist Duties
- BIO-5: Worker Environmental Awareness Program (WEAP)
- BIO-6: Biological Resources Mitigation Implementation and Monitoring Plan (BRMIMP)
- BIO-7: General Impact Avoidance Mitigation Measures
- BIO-8: Pre-construction Nest Surveys and Impact Avoidance and Minimization Measures for Breeding Birds

2. Monitoring Summary

This section summarizes biological monitoring activities conducted during the April 2019 reporting period. Construction started on February 19, 2019 after the Energy Commission issued the Notice to Proceed.

Biological monitoring was conducted daily. There were no active bird nests observed within the SERC site or the additional project parking area at the Bethel Romanian Pentecostal Church; however, an active nest was observed off site. Per COC BIO-8, a no-disturbance buffer zone was established to protect this nest from disturbance. The size of the buffer zone was determined by the Designated Biologist in consultation with the CPM (in coordination with CDFW and USFWS). The Active Nest Notification is

provided in Appendix A. Daily Biological Resources Compliance Monitoring Logs are provided in Appendix B. A list of wildlife species observed during the nest survey and monitoring events is included in Appendix C.

2.1 Activities Monitored

SERC construction activities from April 1 through April 30, 2019 included excavation for, foundations, and construction of bridges (pedestrian and utility) across Stanton Storm Channel and the sump/storage pit. These construction activities included excavation, trenching, and pouring concrete.

2.2 Nesting Birds

No active nests were observed within the SERC site during the April 2019 reporting period. An active killdeer (*Charadrius vociferous*) nest was identified on April 4, 2019 on the adjacent Southern California Edison- (SCE-) owned property north of the eastern SERC parcel. The nest location is at approximately 33°48'25.45"N latitude and 117°59'9.47"W longitude. The nest is approximately 36 feet from the project fence line.

A 35-foot no-disturbance buffer zone was coordinated per Condition of Certification BIO-8 and the SERC fence line closest to the nest was marked with an ESA sign and flagging. The buffer did not extend into the project area and so it was not fenced by the Designated Biologist. The Active Nest Notification is provided in Appendix A.

Nesting behaviors observed during monitoring at the SERC site are described in further detail in the Biological Resources Compliance Monitoring Logs, which are provided in Appendix B.

2.3 Special-Status Species

No special status species were observed in the project vicinity or on the project site during April 2019. A list of wildlife species observed during nest surveys and monitoring in April 2019 is included in Appendix C.

2.4 Wildlife Injuries and Mortalities

No injured or dead wildlife species were observed within the SERC boundary. A list of wildlife species observed during the nest surveys and monitoring events are included in Appendix C.

2.5 Hazardous Material Spills

No hazardous material spills occurred at the project site during the April 2019 reporting period.

2.6 Non-Compliance Report

No formal non-compliance notifications or incident reports were issued during the April 2019 reporting period.

3. WEAP Training

All on-site staff received WEAP training prior to starting work on site. A total of 57 persons completed the SERC WEAP training in April 2019. The hardcopy sign-in training logs for the April 2019 reporting period are included in Appendix D.

Appendix A
Active Nest Notification

From: Heiser, John@Energy
To: [Edens, Ava/SCO](#); [Valand, Andrew@Wildlife](#); [Christine_Medak@fws.gov](#)
Cc: [Ashford, Jake/SCO](#); [Davy, Doug/SAC](#); [Parker, Karen/SAC](#); [Tim Bofman](#); [Greg Lamberg](#); [Levenstein, Ken/SCO](#)
Subject: [EXTERNAL] RE: Active Nest Notification for the Stanton Energy Reliability Center (16-AFC-1)
Date: Thursday, April 04, 2019 3:06:47 PM

Ava, thank you for sending in this report. Being forwarded to staff for review.

John

From: Edens, Ava/SCO <Ava.Edens@jacobs.com>
Sent: Thursday, April 04, 2019 2:53 PM
To: Heiser, John@Energy <john.heiser@energy.ca.gov>; Valand, Andrew@Wildlife <Andrew.Valand@wildlife.ca.gov>; Christine_Medak@fws.gov
Cc: Ashford, Jake/SCO <Jake.Ashford@jacobs.com>; Davy, Doug/SAC <Doug.Davy@jacobs.com>; Parker, Karen/SAC <Karen.Parker@jacobs.com>; Tim Bofman <tbofman@wellhead.com>; Greg Lamberg <glamberg@wpowerllc.com>; Levenstein, Ken/SCO <Ken.Levenstein@jacobs.com>
Subject: Active Nest Notification for the Stanton Energy Reliability Center (16-AFC-1)

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Dear John,

An active kill deer (*Charadrius vociferous*) nest was identified today (4/4/19) off-site on the SCE property north of the eastern Stanton Energy Reliability Center (SERC) parcel. The nest location is at approximately 33°48'25.45"N latitude and 117°59'9.47"W longitude. It is estimated that the nest is approximately 36 feet from the project fence line (see attached photo pages, Photo 1). The killdeer pair has been documented in the adjacent SCE parcel for the past couple weeks while construction activities (including excavation, hauling, and bridge construction) have occurred daily (excluding weekends) on the SERC eastern parcel. Active nesting of the kill deer was not observed until today (Photos 2-4). The project has implemented a 35 foot no-disturbance buffer zone and flagged the SERC fence line for avoidance per Condition of Certification BIO-8. There is a foot path that is approximately 10 feet wide on the SERC project side, adjacent to the fence line (Photo 5). Excavation is actively occurring beyond that foot path. The nest is being monitored by the on-site biological monitor for any signs of distress, and will continue to be monitored daily by the on-site biological monitor while the nest is active.

Please let me know if you have any questions or concerns.

Thank you,

Ava

Ava Edens | Jacobs | SERC Designated Biologist | 949.404.2046 desk | 949.466.5178 mobile |
Ava.Edens@jacobs.com | www.jacobs.com

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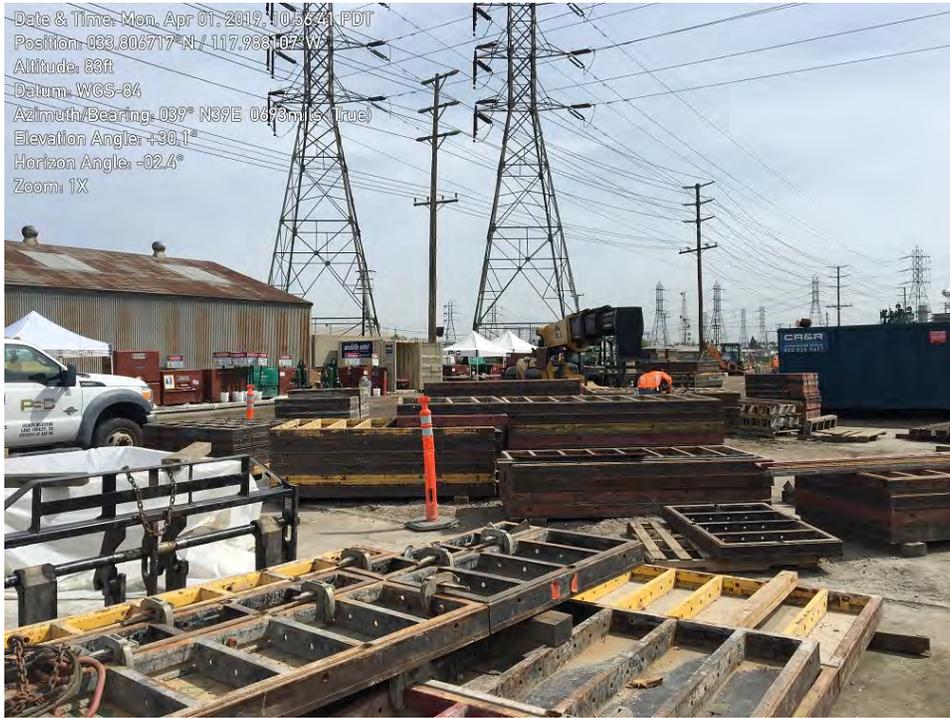
Appendix B
Biological Resources Compliance
Monitoring Logs

Stanton Energy Reliability Center (SERC)

BIOLOGICAL RESOURCES COMPLIANCE MONITORING LOG

Date	Monitor			Time (Begin-End)
April 1, 2019	Ken Levenstein			06:30 - 15:00
Temperature (°F)	Wind (mph)	Precipitation amount	Visibility	Weather Comment
59 - 82	0 – 7 SW	0 inches	Good	Sunny
Location(s) of Work Site Activities Monitored				
<p>SERC – Bio-monitoring during Project construction.</p> <p>Western Parcel – Bio-monitored. Checked for potential bird/wildlife/Project interactions, compliance with COCs, SWPPP, ongoing vehicle bridge construction activities, building forms for water treatment tank, reporting (see Photos in Photo Log).</p> <p>Eastern Parcel – Bio-monitored. Checked for potential bird/wildlife/Project interactions, compliance with COCs, SWPPP, ongoing activities related to construction of the vehicle bridge, building of forms for south wall of Parcel foundation and ductwork, reporting (see Photos in Photo Log).</p> <p>Church Parking Lot – Bio-monitored. Surveyed church parking lot and surrounding area (as accessible) for nesting activity.</p>				
Summary of Biological Resources Monitoring Observations				
<p>Bio-monitoring for special status species, nesting birds, fossorial mammals, and other wildlife.</p> <p>Special-Status Species Observed:</p> <ul style="list-style-type: none"> • None <p>Nesting Bird Observations:</p> <ul style="list-style-type: none"> • Northern mockingbird (<i>Mimus polyglottos</i>) pairs potentially nesting nearby; no nests visible. <p>Other Biological Resources Observations:</p> <ul style="list-style-type: none"> • Killdeers (<i>Charadrius vociferus</i>) present adjacent to and north of Eastern Parcel. Cassin’s kingbird (<i>Tyrannus vociferans</i>) pairs on and around Eastern and Western Parcels and adjacent SCE lots. • <p>Other Observations/Comments:</p> <ul style="list-style-type: none"> • No project personnel/equipment-wildlife interactions occurred. 				
Items Requiring Action/Follow-up				
<ul style="list-style-type: none"> • No specific items to follow up on. Monitoring of work will continue during Project construction activities. 				
Wildlife Species Observed:				
<p>Birds: great blue heron (<i>Ardea herodias</i>), killdeer, western gull (<i>Larus occidentalis</i>), Eurasian collared dove (<i>Streptopelia decaocto</i>), mourning dove (<i>Zenaida macroura</i>), rock pigeon (<i>Columba livia</i>), Cassin’s kingbird, common raven (<i>Corvus corax</i>), barn swallow (<i>Hirundo rustica</i>), northern mockingbird, European starling (<i>Sturnus vulgaris</i>), house finch (<i>Haemorhous mexicanus</i>), western meadowlark (<i>Sturnella neglecta</i>), house sparrow (<i>Passer domesticus</i>).</p>				

Photo 1



Location	SERC – Western Parcel	Description	View northeast from center portion of the Western Parcel at forms being moved for construction of the vehicle bridge foundation.
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Photo 2



Location	SERC – Western Parcel	Description	View northeast from eastern portion of the Western Parcel at forms awaiting pouring of concrete for creating the foundation of a water treatment tank.
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Photo 3



Location	SERC – Western Parcel	Description	View northeast from eastern portion of the Western Parcel at ongoing vehicle bridge construction work.
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Photo 4



Location	SERC – Eastern Parcel	Description	View north-northwest from western portion of the Eastern Parcel at the vehicle bridge foundation.
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Photo 5



Date & Time: Mon, Apr 01, 2019, 11:04:53 PDT
 Position: 033.806621°N / 117.986562°W
 Altitude: 70ft
 Datum: WGS-84
 Azimuth/Bearing: 057° N57E 1013mils (True)
 Elevation Angle: +25.8°
 Horizon Angle: -02.5°
 Zoom: 1X

Location	SERC – Eastern Parcel	Description	View east from western portion of the Eastern Parcel at contractors constructing ductwork along the southern side of the Parcel.
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Photo 6



Date & Time: Mon, Apr 01, 2019, 11:10:02 PDT
 Position: 033.806643°N / 117.984798°W
 Altitude: 76ft
 Datum: WGS-84
 Azimuth/Bearing: 026° N26E 0462mils (True)
 Elevation Angle: +30.7°
 Horizon Angle: -03.1°
 Zoom: 1X

Location	SERC – Eastern Parcel	Description	View north-northeast from eastern end of the Eastern Parcel at a materials storage area.
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Photo 7



Location	SERC – Eastern Parcel	Description	View west from eastern portion of the Eastern Parcel at piles of base and spoils.
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Stanton Energy Reliability Center (SERC)

BIOLOGICAL RESOURCES COMPLIANCE MONITORING LOG

Date	Monitor			Time (Begin-End)
April 2, 2019	Ken Levenstein			06:30 - 15:00
Temperature (°F)	Wind (mph)	Precipitation amount	Visibility	Weather Comment
58 - 68	0 – 10 SSW	0 inches	Good	Partly to mostly cloudy
Location(s) of Work Site Activities Monitored				
<p>SERC – Bio-monitoring during Project construction.</p> <p>Western Parcel – Bio-monitored. Checked for potential bird/wildlife/Project interactions, compliance with COCs, SWPPP, ongoing vehicle bridge construction activities, building forms for water treatment tank, reporting (see Photos in Photo Log).</p> <p>Eastern Parcel – Bio-monitored. Checked for potential bird/wildlife/Project interactions, compliance with COCs, SWPPP, ongoing activities related to construction of the vehicle bridge, building of forms for south wall of Parcel foundation and ductwork, work on Parcel foundation, excavator loading dump trucks with spoils, reporting (see Photos in Photo Log).</p> <p>Church Parking Lot – Bio-monitored. Surveyed church parking lot and surrounding area (as accessible) for nesting activity.</p>				
Summary of Biological Resources Monitoring Observations				
<p>Bio-monitoring for special status species, nesting birds, fossorial mammals, and other wildlife.</p> <p>Special-Status Species Observed:</p> <ul style="list-style-type: none"> • None <p>Nesting Bird Observations:</p> <p>Northern mockingbird (<i>Mimus polyglottos</i>) pairs potentially nesting nearby; nests not visible.</p> <p>Other Biological Resources Observations:</p> <ul style="list-style-type: none"> • Killdeers (<i>Charadrius vociferus</i>) present adjacent to and north of Eastern Parcel. Cassin’s kingbird (<i>Tyrannus vociferans</i>) pairs on and around Eastern and Western Parcels and adjacent SCE lots. <p>Other Observations/Comments:</p> <ul style="list-style-type: none"> • No project personnel/equipment-wildlife interactions occurred. 				
Items Requiring Action/Follow-up				
<ul style="list-style-type: none"> • No specific items to follow up on. Monitoring of work will continue during Project construction activities. 				
Wildlife Species Observed:				
<p>Birds: killdeer, western gull (<i>Larus occidentalis</i>), Eurasian collared dove (<i>Streptopelia decaocto</i>), mourning dove (<i>Zenaida macroura</i>), rock pigeon (<i>Columba livia</i>), Cassin’s kingbird, common raven (<i>Corvus corax</i>), barn swallow (<i>Hirundo rustica</i>), northern mockingbird, European starling (<i>Sturnus vulgaris</i>), house finch (<i>Haemorhous mexicanus</i>), western meadowlark (<i>Sturnella neglecta</i>), house sparrow (<i>Passer domesticus</i>).</p>				

Photo 1



Location	SERC – Eastern Parcel	Description	View southwest from eastern portion of the Eastern Parcel at excavator loading a dump truck with dirt from the spoils pile.
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Photo 2



Location	SERC – Eastern Parcel	Description	View southwest from center portion of the Eastern Parcel at forklift delivering rebar for ongoing construction of ammonia tank foundation. Ductwork construction is visible at left of photo.
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Photo 3



Location	SERC – Eastern Parcel	Description	A closer view southwest from center portion of the Eastern Parcel at rebar following delivery. Pipes for ongoing construction of ductwork visible in foreground.
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Photo 4



Location	SERC – Eastern Parcel	Description	View southwest from western portion of the Eastern Parcel at contractors adding rebar to the ammonia tank foundation.
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Photo 5



Location	SERC – Eastern Parcel	Description	View southwest from western portion of the Eastern Parcel at ongoing Parcel foundation work. Deeper level where loader is located is for thicker level of concrete to support heavier infrastructure components.
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Photo 6



Location	SERC – Eastern Parcel	Description	View northwest from western end of the Eastern Parcel at cement forms in place for ongoing vehicle bridge construction work.
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Photo 7



Location	SERC – Western Parcel	Description	View west-northwest from eastern end of the Western Parcel at cement forms in place for ongoing construction of water treatment tank foundation.
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Photo 8



Location	SERC – Western Parcel	Description	View northeast from eastern portion of the Western Parcel at cement forms in place for ongoing vehicle bridge construction work.
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Stanton Energy Reliability Center (SERC)

BIOLOGICAL RESOURCES COMPLIANCE MONITORING LOG

Date	Monitor	Time (Begin-End)		
April 3, 2019	Ken Levenstein	06:30 - 15:00		
Temperature (°F)	Wind (mph)	Precipitation amount	Visibility	Weather Comment
58 - 68	0 – 8 SW	0 inches	Good	Mostly to partly cloudy

Location(s) of Work Site Activities Monitored

SERC – Bio-monitoring during Project construction.

Western Parcel – Bio-monitored. Checked for potential bird/wildlife/Project interactions, compliance with COCs, SWPPP, ongoing vehicle bridge construction activities, building forms for water treatment tank, reporting (see Photos in Photo Log).

Eastern Parcel – Bio-monitored. Checked for potential bird/wildlife/Project interactions, compliance with COCs, SWPPP, ongoing activities related to construction of the vehicle bridge, building of forms for south wall of Parcel foundation and ductwork, work on Parcel foundation, excavator loading dump trucks with spoils, reporting (see Photos in Photo Log).

Church Parking Lot – Bio-monitored. Surveyed church parking lot and surrounding area (as accessible) for nesting activity.

Summary of Biological Resources Monitoring Observations

Bio-monitoring for special status species, nesting birds, fossorial mammals, and other wildlife.

Special-Status Species Observed:

- None

Nesting Bird Observations:

- Killdeers (*Charadrius vociferus*) mating and appear to be initiating nesting activity adjacent to and north of Eastern Parcel.
- Cassin’s kingbird (*Tyrannus vociferans*) pairs on and around Eastern and Western Parcels and adjacent SCE lots.
- Northern mockingbird (*Mimus polyglottos*) pairs potentially nesting nearby; no nests visible.

Other Biological Resources Observations:

- None

Other Observations/Comments:

- No project personnel/equipment-wildlife interactions occurred.

Items Requiring Action/Follow-up

- No specific items to follow up on. Monitoring of work will continue during Project construction activities.

Wildlife Species Observed:

Birds: killdeer, red-tailed hawk (*Buteo jamaicensis*), American kestrel (*Falco sparverius*), western gull (*Larus occidentalis*), Eurasian collared dove (*Streptopelia decaocto*), mourning dove (*Zenaidura macroura*), rock pigeon (*Columba livia*), Cassin’s kingbird, western kingbird (*Tyrannus verticalis*), barn swallow (*Hirundo rustica*), northern mockingbird, European starling (*Sturnus vulgaris*), house finch (*Haemorrhous mexicanus*), house sparrow (*Passer domesticus*).

Photo 1



Location	SERC – Eastern Parcel	Description	View southeast from eastern portion of the Eastern Parcel at remaining spoils piles and base following yesterday's work removing dirt from site.
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Photo 2



Location	SERC – Eastern Parcel	Description	Another view (southwest) from eastern portion of the Eastern Parcel at remaining spoils piles and base following yesterday's work removing dirt from site.
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Photo 3



Date & Time: Wed, Apr 03, 2019, 09:55:15 PDT
 Position: 033.806930°N / 117.986571°W
 Altitude: 74ft
 Datum: WGS-84
 Azimuth/Bearing: 052° N52E 0924mils (True)
 Elevation Angle: +27.4°
 Horizon Angle: -02.8°
 Zoom: 1X

Location	SERC – Eastern Parcel	Description	View east from western portion of the Eastern Parcel at ongoing Parcel excavation work.
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Photo 4



Date & Time: Wed, Apr 03, 2019, 10:11:16 PDT
 Position: 033.807007°N / 117.985738°W
 Altitude: 76ft
 Datum: WGS-84
 Azimuth/Bearing: 097° S83E 1724mils (True)
 Elevation Angle: +30.0°
 Horizon Angle: -03.6°
 Zoom: 1X

Location	SERC – Eastern Parcel	Description	View south-southeast from central portion of the Eastern Parcel at excavator loading a dump truck with dirt from excavation.
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Photo 5



Date & Time: Wed, Apr 03, 2019, 10:17:50 PDT
 Position: 033.806867°N / 117.985962°W
 Altitude: 89ft
 Datum: WGS-84
 Azimuth/Bearing: 358° N02W 6364mils (True)
 Elevation Angle: +23.9°
 Horizon Angle: -00.6°
 Zoom: 1X

Location	SERC – Eastern Parcel	Description	View southwest from central portion of the Eastern Parcel at ongoing Parcel foundation work.
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Photo 6



Date & Time: Wed, Apr 03, 2019, 13:28:43 PDT
 Position: 033.806798°N / 117.986130°W
 Altitude: 67ft
 Datum: WGS-84
 Azimuth/Bearing: 310° N50W 5511mils (True)
 Elevation Angle: +27.5°
 Horizon Angle: -01.9°
 Zoom: 1X

Location	SERC – Eastern Parcel	Description	View southwest from central portion of the Eastern Parcel at ongoing construction of ductwork.
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Photo 7



Date & Time: Wed, Apr 03, 2019, 13:30:42 PDT
 Position: 033.804337°N / 117.986763°W
 Altitude: 69ft
 Datum: WGS-84
 Azimuth/Bearing: 042° N44E 0782mils (True)
 Elevation Angle: +23.7°
 Horizon Angle: -02.5°
 Zoom: 1X

Location	SERC – Eastern Parcel	Description	View east from western portion of the Eastern Parcel at ongoing construction of ductwork and ammonia tank foundation.
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Photo 8



Date & Time: Wed, Apr 03, 2019, 13:32:42 PDT
 Position: 033.804632°N / 117.987134°W
 Altitude: 74ft
 Datum: WGS-84
 Azimuth/Bearing: 049° N49E 0871mils (True)
 Elevation Angle: +25.8°
 Horizon Angle: -02.3°
 Zoom: 1X

Location	SERC – Western Parcel	Description	View east-northeast from eastern portion of the Western Parcel at ongoing vehicle bridge construction work.
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Stanton Energy Reliability Center (SERC)

BIOLOGICAL RESOURCES COMPLIANCE MONITORING LOG

Date	Monitor	Time (Begin-End)		
April 4, 2019	Jake Ashford	06:30 - 15:30		
Temperature (°F)	Wind (mph)	Precipitation amount	Visibility	Weather Comment
54 - 75	0 – 7 SW	0 inches	Good	Mostly to partly cloudy

Location(s) of Work Site Activities Monitored

SERC – Bio-monitoring during Project construction.

Western Parcel – Bio-monitored. Checked for potential bird/wildlife/Project interactions, compliance with COCs, SWPPP, ongoing vehicle bridge construction activities, building forms for water treatment tank, reporting (see Photos in Photo Log).

Eastern Parcel – Bio-monitored. Reported and monitored an off-site active nest for signs of disturbance and marked buffer with flagging and signage. Checked for potential bird/wildlife/Project interactions, compliance with COCs, SWPPP, ongoing activities related to construction of the vehicle bridge, building of forms for south wall of Parcel foundation and ductwork, work on Parcel foundation, excavator loading dump trucks with spoils, reporting (see Photos in Photo Log).

Church Parking Lot – Bio-monitored. Surveyed church parking lot and surrounding area (as accessible) for nesting activity.

Summary of Biological Resources Monitoring Observations

Bio-monitoring for special status species, nesting birds, fossorial mammals, and other wildlife.

Special-Status Species Observed:

- None

Nesting Bird Observations:

- A killdeer (*Charadrius vociferous*) nest observed off-site, on SCE property north of the Eastern Parcel. Biological monitor identified a 35-foot no-disturbance buffer and monitored the nest. The nesting bird findings were reported to the CPM, USFWS, and CDFW (per BIO-8) by the Designated Biologist. The no-disturbance buffer was marked for avoidance with flagging and signs. The nesting pair shows no sign of distress due to construction activities.
- Cassin’s kingbird (*Tyrannus vociferans*) pairs on and around Eastern and Western Parcels and adjacent SCE lots.
- Northern mockingbird (*Mimus polyglottos*) pairs potentially nesting nearby; no nests visible.

Other Biological Resources Observations:

- None

Other Observations/Comments:

- No project personnel/equipment-wildlife interactions occurred.

Items Requiring Action/Follow-up

- No specific items to follow up on. Monitoring of work will continue during Project construction activities.

Wildlife Species Observed:

Birds: killdeer, red-tailed hawk (*Buteo jamaicensis*), western gull (*Larus occidentalis*), Eurasian collared dove (*Streptopelia decaocto*), mourning dove (*Zenaida macroura*), rock pigeon (*Columba livia*), Cassin’s kingbird, barn swallow (*Hirundo rustica*), northern mockingbird, European starling (*Sturnus vulgaris*), house finch (*Haemorhous mexicanus*), house sparrow (*Passer domesticus*).

Photo 1



Location	SERC – Eastern Parcel (Parcel 1)	Description	View southeast of continued excavation activities in the Eastern Parcel.
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Photo 2



Location	SERC – Eastern Parcel (Parcel 1)	Description	View southeast of dirt moving and dust control activities in the Eastern Parcel.
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Photo 3



Location	SERC – Western Parcel (Parcel 2)	Description	View northwest of trenching activities through the middle of the Western Parcel.
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Photo 4



Location	SERC – Eastern Parcel	Description	View north onto SCE property of Killdeer nest. Pair was incubating throughout the day showing no signs of disturbance due to construction activities.
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Photo 5



Location	SERC – Western Parcel (Parcel 2)	Description	View northeast of continued foundation laying activities for the vehicle bridge on the Western Parcel.
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Photo 6



Location	SERC – Eastern Parcel (Parcel 1)	Description	View southeast of continued excavation and ground moving activities on the Eastern Parcel.
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Stanton Energy Reliability Center (SERC)

BIOLOGICAL RESOURCES COMPLIANCE MONITORING LOG

Date	Monitor	Time (Begin-End)		
April 5, 2019	Jake Ashford	06:30 - 15:30		
Temperature (°F)	Wind (mph)	Precipitation amount	Visibility	Weather Comment
54 - 78	0 – 9 SW	0 inches	Good	Mostly to partly cloudy

Location(s) of Work Site Activities Monitored

SERC – Bio-monitoring during Project construction.

Western Parcel – Bio-monitored. Checked for potential bird/wildlife/Project interactions, compliance with COCs, SWPPP, ongoing vehicle bridge construction activities, building forms for water treatment tank, reporting (see Photos in Photo Log).

Eastern Parcel – Bio-monitored. Monitored the off-site active nest for signs of disturbance and checked that buffer flagging and signage were in place. Checked for potential bird/wildlife/Project interactions, compliance with COCs, SWPPP, ongoing activities related to construction of the vehicle bridge, building of forms for south wall of Parcel foundation and ductwork, work on Parcel foundation, excavator loading dump trucks with spoils, reporting (see Photos in Photo Log).

Church Parking Lot – Bio-monitored. Surveyed church parking lot and surrounding area (as accessible) for nesting activity.

Summary of Biological Resources Monitoring Observations

Bio-monitoring for special status species, nesting birds, fossorial mammals, and other wildlife.

Special-Status Species Observed:

- None

Nesting Bird Observations:

- A killdeer (*Charadrius vociferous*) nest is present on SCE property north of the Eastern Parcel. The nesting pair shows no sign of disturbance due to construction activities.
- A Cassin's kingbird (*Tyrannus vociferans*) pair is bringing fine nesting material to an SCE utility tower adjacent to the Western Parcel. The potential nest location is obscured by the tower and not visible.
- Northern mockingbird (*Mimus polyglottos*) pairs potentially nesting nearby; no nests visible.

Other Biological Resources Observations:

- None

Other Observations/Comments:

- No project personnel/equipment-wildlife interactions occurred.

Items Requiring Action/Follow-up

- No specific items to follow up on. Monitoring of work will continue during Project construction activities.

Wildlife Species Observed:

Birds: killdeer, red-tailed hawk (*Buteo jamaicensis*), western gull (*Larus occidentalis*), Eurasian collared dove (*Streptopelia decaocto*), mourning dove (*Zenaida macroura*), rock pigeon (*Columba livia*), Cassin's kingbird, barn swallow (*Hirundo rustica*), northern mockingbird, European starling (*Sturnus vulgaris*), house finch (*Haemorhous mexicanus*), house sparrow (*Passer domesticus*), Scaly-breasted munia (*Lonchura punctulate*), American kestrel (*Falco sparverius*).

Photo 1



Location	SERC – Eastern Parcel (Parcel 1)	Description	View south of concrete pouring preparations for the ammonia tank on the western portion of Parcel 1.
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Photo 2



Location	SERC – Western Parcel (Parcel 2)	Description	View northwest of placement of shoring and foundation building for the vehicle bridge in Parcel 2.
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Photo 3



Location	SERC – Eastern Parcel (Parcel 1)	Description	View east of continued excavation activities in middle of Parcel 2 outside of the ESA buffer.
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Photo 4



Location	SERC – Eastern Parcel (Parcel 1)	Description	View north onto SCE property of Killdeer nest. Pair was incubating throughout the day showing no signs of disturbance due to construction activities.
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Photo 5



Location	SERC – Eastern Parcel (Parcel 1)	Description	View south of compaction activities in the excavated area within Parcel 1. Soil is wet from a water truck was actively spraying to mitigate fugitive dust.
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Photo 6



Location	SERC – Eastern Parcel (Parcel 1)	Description	View southeast of continued excavation and ground moving activities on the Eastern Parcel. Excavation ended for the day shortly after this photo was taken.
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Stanton Energy Reliability Center (SERC)

BIOLOGICAL RESOURCES COMPLIANCE MONITORING LOG

Date	Monitor			Time (Begin-End)
April 8, 2019	Ken Levenstein			06:30 - 15:00
Temperature (°F)	Wind (mph)	Precipitation amount	Visibility	Weather Comment
60 - 88	0 – 8 SW	0 inches	Good	Sunny
Location(s) of Work Site Activities Monitored				
<p>SERC – Bio-monitoring during Project construction.</p> <p>Western Parcel – Bio-monitored. Checked for potential bird/wildlife/Project interactions, compliance with COCs, SWPPP, ongoing vehicle bridge construction activities, reporting (see Photos in Photo Log).</p> <p>Eastern Parcel – Bio-monitored. Monitored the off-site active nest for signs of disturbance and checked that buffer flagging and signage were in place. Checked for potential bird/wildlife/Project interactions, compliance with COCs, SWPPP, ongoing activities related to construction of the vehicle bridge, building of forms for south wall of Parcel foundation and ductwork, excavation of, and other work on, Parcel foundation, excavator loading dump trucks with spoils, reporting (see Photos in Photo Log).</p> <p>Church Parking Lot – Bio-monitored. Surveyed church parking lot and surrounding area (as accessible) for nesting activity.</p>				
Summary of Biological Resources Monitoring Observations				
<p>Bio-monitoring for special status species, nesting birds, fossorial mammals, and other wildlife.</p> <p>Special-Status Species Observed:</p> <ul style="list-style-type: none"> • None <p>Nesting Bird Observations:</p> <ul style="list-style-type: none"> • A killdeer (<i>Charadrius vociferous</i>) nest is present on SCE property north of the Eastern Parcel. The nesting pair shows no sign of disturbance due to construction activities. • A Cassin’s kingbird (<i>Tyrannus vociferans</i>) pair is bringing fine nesting material to an SCE utility tower adjacent to the Western Parcel. The potential nest location is obscured by the tower and not visible. • Northern mockingbird (<i>Mimus polyglottos</i>) pairs possibly nesting nearby; no nests visible. <p>Other Biological Resources Observations:</p> <ul style="list-style-type: none"> • None <p>Other Observations/Comments:</p> <ul style="list-style-type: none"> • No project personnel/equipment-wildlife interactions occurred. 				
Items Requiring Action/Follow-up				
<ul style="list-style-type: none"> • No specific items to follow up on. Monitoring of work will continue during Project construction activities. 				
Wildlife Species Observed:				
<p>Birds: killdeer, red-tailed hawk (<i>Buteo jamaicensis</i>), American kestrel (<i>Falco sparverius</i>), western gull (<i>Larus occidentalis</i>), Eurasian collared dove (<i>Streptopelia decaocto</i>), mourning dove (<i>Zenaidura macroura</i>), rock pigeon (<i>Columba livia</i>), black phoebe (<i>Sayornis nigricans</i>), Cassin’s kingbird, barn swallow (<i>Hirundo rustica</i>), northern mockingbird, European starling (<i>Sturnus vulgaris</i>), house finch (<i>Haemorhous mexicanus</i>), house sparrow (<i>Passer domesticus</i>).</p>				

Photo 1

Date & Time: Mon, Apr 08, 2019, 08:05:32 PDT
 Position: 033.807008° N / 117.985502° W
 Altitude: 71ft
 Datum: WGS-84
 Azimuth/Bearing: 308° N52W 5476mils (True)
 Elevation Angle: +27.1°
 Horizon Angle: -00.4°
 Zoom: 1X



Location	SERC – Eastern Parcel	Description	View southwest from eastern portion of the Eastern Parcel at ongoing Parcel excavation and foundation stabilization work.
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Photo 2

Date & Time: Mon, Apr 08, 2019, 08:21:14 PDT
 Position: 033.806990° N / 117.985536° W
 Altitude: 86ft
 Datum: WGS-84
 Azimuth/Bearing: 299° N61W 5316mils (True)
 Elevation Angle: +23.5°
 Horizon Angle: -01.0°
 Zoom: 1X



Location	SERC – Eastern Parcel	Description	Another view southwest from eastern portion of the Eastern Parcel at ongoing Parcel excavation and foundation stabilization work.
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Photo 3



Location	SERC – Eastern Parcel	Description	View southwest from central portion of the Eastern Parcel at ongoing construction of ductwork and ammonia tank foundation.
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Photo 4



Location	SERC – Western Parcel	Description	View east from eastern portion of the Western Parcel at vehicle bridge construction work.
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Photo 5

Date & Time: Mon, Apr 08, 2019, 10:13:03 PDT
 Position: 033.806800°N / 117.985591°W
 Altitude: 145ft
 Datum: WGS-84
 Azimuth/Bearing: 090° N90E 1600mils (True)
 Elevation Angle: +30.1°
 Horizon Angle: -01.6°
 Zoom: 1X



Location	SERC – Eastern Parcel	Description	View south-southeast from central portion of the Eastern Parcel at ongoing Parcel excavation work. Worker in background is spraying water for dust suppression.
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Photo 6

Date & Time: Mon, Apr 08, 2019, 10:13:12 PDT
 Position: 033.806800°N / 117.985591°W
 Altitude: 90ft
 Datum: WGS-84
 Azimuth/Bearing: 059° N59E 1049mils (True)
 Elevation Angle: +29.6°
 Horizon Angle: -01.5°
 Zoom: 1X



Location	SERC – Eastern Parcel	Description	View east from central portion of the Eastern Parcel at ongoing Parcel excavation work. Work is being overseen by paleontological and archeological monitors (foreground) and soils engineer (at left).
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Photo 7



Location	SERC – Between Eastern and Western Parcels	Description	View north from pedestrian bridge spanning the Stanton Storm Channel at new privacy/security fencing and ongoing vehicle bridge construction activity at left in background. Fiber rolls weighted down with sandbags to prevent runoff from project visible at left and right along the channel lip.
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Photo 8



Location	SERC – Eastern Parcel	Description	View southwest from eastern portion of the Eastern Parcel at ongoing Parcel excavation. Parcel excavation is progressing rapidly.
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Stanton Energy Reliability Center (SERC)

BIOLOGICAL RESOURCES COMPLIANCE MONITORING LOG

Date	Monitor			Time (Begin-End)
April 9, 2019	Ken Levenstein			06:30 - 15:00
Temperature (°F)	Wind (mph)	Precipitation amount	Visibility	Weather Comment
61 - 76	0 – 12 SW	0 inches	Good	Sunny
Location(s) of Work Site Activities Monitored				
<p>SERC – Bio-monitoring during Project construction.</p> <p>Western Parcel – Bio-monitored. Checked for potential bird/wildlife/Project interactions, compliance with COCs, SWPPP, ongoing vehicle bridge construction activities, reporting (see Photos in Photo Log).</p> <p>Eastern Parcel – Bio-monitored. Monitored the off-site active nest for signs of disturbance and checked that buffer flagging and signage were in place. Checked for potential bird/wildlife/Project interactions, compliance with COCs, SWPPP, ongoing activities related to construction of the vehicle bridge, building of forms for south wall of Parcel foundation and ductwork, excavation of, and other work on, Parcel foundation, reporting (see Photos in Photo Log).</p> <p>Church Parking Lot – Bio-monitored. Surveyed church parking lot and surrounding area (as accessible) for nesting activity.</p>				
Summary of Biological Resources Monitoring Observations				
<p>Bio-monitoring for special status species, nesting birds, fossorial mammals, and other wildlife.</p> <p>Special-Status Species Observed:</p> <ul style="list-style-type: none"> • None <p>Nesting Bird Observations:</p> <ul style="list-style-type: none"> • A killdeer (<i>Charadrius vociferous</i>) nest is present on SCE property north of the Eastern Parcel. The nesting pair shows no sign of disturbance due to construction activities. • A Cassin’s kingbird (<i>Tyrannus vociferans</i>) pair is bringing fine nesting material to an SCE utility tower adjacent to the Western Parcel. The potential nest location is obscured by the tower and not visible. • Northern mockingbird (<i>Mimus polyglottos</i>) pairs possibly nesting nearby; no nests visible. <p>Other Biological Resources Observations:</p> <ul style="list-style-type: none"> • Cassin’s kingbird observed attacking pair of common ravens (<i>Corvus corax</i>) as they flew over the Project. <p>Other Observations/Comments:</p> <ul style="list-style-type: none"> • No project personnel/equipment-wildlife interactions occurred. 				
Items Requiring Action/Follow-up				
<ul style="list-style-type: none"> • No specific items to follow up on. Monitoring of work will continue during Project construction activities. 				
Wildlife Species Observed:				
<p>Birds: killdeer, red-tailed hawk (<i>Buteo jamaicensis</i>), American kestrel (<i>Falco sparverius</i>), Eurasian collared dove (<i>Streptopelia decaocto</i>), mourning dove (<i>Zenaida macroura</i>), rock pigeon (<i>Columba livia</i>), Cassin’s kingbird, common raven, barn swallow (<i>Hirundo rustica</i>), northern mockingbird, European starling (<i>Sturnus vulgaris</i>), house finch (<i>Haemorhous mexicanus</i>), house sparrow (<i>Passer domesticus</i>), scaly-breasted munia (<i>Lonchura punctulata</i>).</p>				

Photo 1



Location	SERC – Eastern Parcel	Description	View southwest from eastern portion of the Eastern Parcel at ongoing Parcel excavation and foundation stabilization work.
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Photo 2



Location	SERC – Eastern Parcel	Description	Another view southwest from eastern portion of the Eastern Parcel at ongoing Parcel excavation and foundation stabilization work.
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Photo 3



Location	SERC – Eastern Parcel	Description	View south-southwest from western portion of the Eastern Parcel at trenching in Parcel foundation. Board visible at left center of photo is a wildlife escape ramp still in place from the previous night.
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Photo 4



Location	SERC – Eastern Parcel	Description	View north-northwest from western portion of the Eastern Parcel at vehicle bridge undergoing construction. Photo taken following pouring of concrete (boom from concrete pump truck is visible above workers).
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Photo 5



Location	SERC – Eastern Parcel	Description	View south from western portion of the Eastern Parcel at forklift holding a cement form aloft as workers maneuver it into place alongside ductwork.
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Photo 6



Location	SERC – Western Parcel	Description	View northeast from eastern portion of the Western Parcel at vehicle bridge construction on either side of the Stanton Storm Channel.
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Stanton Energy Reliability Center (SERC)

BIOLOGICAL RESOURCES COMPLIANCE MONITORING LOG

Date	Monitor			Time (Begin-End)
April 10, 2019	Ken Levenstein			06:30 - 15:00
Temperature (°F)	Wind (mph)	Precipitation amount	Visibility	Weather Comment
61 - 77	0 – 11 W	0 inches	Good	Sunny
Location(s) of Work Site Activities Monitored				
<p>SERC – Bio-monitoring during Project construction.</p> <p>Western Parcel – Bio-monitored. Checked for potential bird/wildlife/Project interactions, compliance with COCs, SWPPP, ongoing vehicle bridge construction activities, reporting (see Photos in Photo Log).</p> <p>Eastern Parcel – Bio-monitored. Monitored the off-site active nest for signs of disturbance and checked that buffer flagging and signage were in place. Checked for potential bird/wildlife/Project interactions, compliance with COCs, SWPPP, ongoing activities related to construction of the vehicle bridge, sump overflow and ammonia tank foundations, building of forms and placement of ductwork, work on Parcel foundation, reporting (see Photos in Photo Log).</p> <p>Church Parking Lot – Bio-monitored. Surveyed church parking lot and surrounding area (as accessible) for nesting activity.</p>				
Summary of Biological Resources Monitoring Observations				
<p>Bio-monitoring for special status species, nesting birds, fossorial mammals, and other wildlife.</p> <p>Special-Status Species Observed:</p> <ul style="list-style-type: none"> • None <p>Nesting Bird Observations:</p> <ul style="list-style-type: none"> • A killdeer (<i>Charadrius vociferous</i>) nest is present on SCE property north of the Eastern Parcel. The nesting pair shows no sign of disturbance due to construction activities. • A Cassin’s kingbird (<i>Tyrannus vociferans</i>) has been seen bringing fine nesting material to an SCE utility tower adjacent to the Western Parcel. The potential nest location is obscured by the tower and not visible. • Northern mockingbird (<i>Mimus polyglottos</i>) pairs possibly nesting nearby; no nests visible. <p>Other Biological Resources Observations:</p> <ul style="list-style-type: none"> • A Cassin’s kingbird was observed attacking a red-tailed hawk (<i>Buteo jamaicensis</i>) as it flew over the SCE lot adjacent to and north of the Eastern Parcel. <p>Other Observations/Comments:</p> <ul style="list-style-type: none"> • No project personnel/equipment-wildlife interactions occurred. 				
Items Requiring Action/Follow-up				
<ul style="list-style-type: none"> • No specific items to follow up on. Monitoring of work will continue during Project construction activities. 				
Wildlife Species Observed:				
<p>Birds: killdeer, red-tailed hawk, American kestrel (<i>falco sparverius</i>), Eurasian collared dove (<i>Streptopelia decaocto</i>), mourning dove (<i>Zenaida macroura</i>), rock pigeon (<i>Columba livia</i>), Cassin’s kingbird, barn swallow (<i>Hirundo rustica</i>), northern mockingbird, European starling (<i>Sturnus vulgaris</i>), house finch (<i>Haemorhous mexicanus</i>), lesser goldfinch (<i>Carduelis psaltria</i>), house sparrow (<i>Passer domesticus</i>), scaly-breasted munia (<i>Lonchura punctulata</i>).</p>				

Photo 1

Date & Time: Wed, Apr 10, 2019, 08:11:21 PDT
 Position: 033.806966°N / 117.984918°W
 Altitude: 77ft
 Datum: WGS-84
 Azimuth/Bearing: 256° S76W 4551mils (True)
 Elevation Angle: +28.3°
 Horizon Angle: -02.5°
 Zoom: 1X



Location	SERC – Eastern Parcel	Description	View south-southwest from eastern portion of the Eastern Parcel at dump truck delivering base for Parcel foundation stabilization work.
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Photo 2

Date & Time: Wed, Apr 10, 2019, 08:12:25 PDT
 Position: 033.807153°N / 117.985171°W
 Altitude: 80ft
 Datum: WGS-84
 Azimuth/Bearing: 301° N59W 5351mils (True)
 Elevation Angle: +28.1°
 Horizon Angle: -02.9°
 Zoom: 1X



Location	SERC – Eastern Parcel	Description	View west-southwest from eastern portion of the Eastern Parcel at ongoing Parcel foundation stabilization work.
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Photo 3

Date & Time: Wed, Apr 10, 2019, 08:14:35 PDT
 Position: 033.806963°N / 117.986262°W
 Altitude: 74ft
 Datum: WGS-84
 Azimuth/Bearing: 308° N52W 5476mils (True)
 Elevation Angle: +27.1°
 Horizon Angle: -02.1°
 Zoom: 1X



Location	SERC – Eastern Parcel	Description	View south-southwest from western portion of the Eastern Parcel at ongoing construction of ductwork and ammonia tank foundation.
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Photo 4

Date & Time: Wed, Apr 10, 2019, 08:15:08 PDT
 Position: 033.807001°N / 117.986479°W
 Altitude: 74ft
 Datum: WGS-84
 Azimuth/Bearing: 307° N53W 5458mils (True)
 Elevation Angle: +27.1°
 Horizon Angle: -02.7°
 Zoom: 1X



Location	SERC – Eastern Parcel	Description	View southwest from western portion of the Eastern Parcel at trenching for laying of ductworks. In background, workers engaged in ongoing vehicle bridge construction activities are visible.
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Photo 5



Date & Time: Wed, Apr 10, 2019, 12:27:03 PDT
 Position: 033.806970° N / 117.985259° W
 Altitude: 75ft
 Datum: WGS-84
 Azimuth/Bearing: 300° N60W 5333mils (True)
 Elevation Angle: +27.7°
 Horizon Angle: -03.2°
 Zoom: 1X

Location	SERC – Eastern Parcel	Description	View west-southwest from eastern portion of the Eastern Parcel at dump truck delivering base for Parcel foundation stabilization work.
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Photo 6



Location	SERC – Eastern Parcel	Description	View north from western portion of the Eastern Parcel at sign and yellow rope in place to warn workers to avoid disturbing nesting killdeer pair. A killdeer sitting on the nest is visible as a brown dot to right of sign.
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Photo 7



Date & Time: Wed, Apr 10, 2019, 12:29:11 PDT
 Position: 033.806905°N / 117.986131°W
 Altitude: 80ft
 Datum: WGS-84
 Azimuth/Bearing: 272° N88W 4836mils (True)
 Elevation Angle: +26.5°
 Horizon Angle: -02.1°
 Zoom: 1X

Location	SERC – Eastern Parcel	Description	View south from western portion of the Eastern Parcel at ongoing construction of ductwork and ammonia tank foundation.
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Photo 8



Date & Time: Wed, Apr 10, 2019, 12:31:35 PDT
 Position: 033.806751°N / 117.986673°W
 Altitude: 65ft
 Datum: WGS-84
 Azimuth/Bearing: 351° N09W 6240mils (True)
 Elevation Angle: +26.5°
 Horizon Angle: -02.6°
 Zoom: 1X

Location	SERC – Eastern Parcel	Description	View southwest from western portion of the Eastern Parcel at workers laying ductwork in the Parcel foundation.
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Stanton Energy Reliability Center (SERC)

BIOLOGICAL RESOURCES COMPLIANCE MONITORING LOG

Date	Monitor	Time (Begin-End)		
April 11, 2019	Jake Ashford	06:30 - 15:15		
Temperature (°F)	Wind (mph)	Precipitation amount	Visibility	Weather Comment
59 - 78	0 – 7 W	0 inches	Good	Sunny to partly cloudy

Location(s) of Work Site Activities Monitored

SERC – Bio-monitoring during Project construction.

Western Parcel – Bio-monitored. Checked for potential bird/wildlife/Project interactions, compliance with COCs, SWPPP, ongoing vehicle bridge construction activities, reporting (see Photos in Photo Log).

Eastern Parcel – Bio-monitored. Monitored the off-site active nest for signs of disturbance and checked that buffer flagging and signage were in place. Checked for potential bird/wildlife/Project interactions, compliance with COCs, SWPPP, ongoing activities related to construction of the vehicle bridge, sump overflow and ammonia tank foundations, building of forms and placement of ductwork, work on Parcel foundation, reporting (see Photos in Photo Log).

Church Parking Lot – Bio-monitored. Surveyed church parking lot and surrounding area (as accessible) for nesting activity.

Summary of Biological Resources Monitoring Observations

Bio-monitoring for special status species, nesting birds, fossorial mammals, and other wildlife.

Special-Status Species Observed:

- None

Nesting Bird Observations:

- A killdeer (*Charadrius vociferous*) nest is present on SCE property north of the Eastern Parcel. The nesting pair shows no sign of disturbance due to construction activities.
- A Cassin's kingbird (*Tyrannus vociferans*) has been seen bringing fine nesting material to an SCE utility tower adjacent to the Western Parcel. The potential nest location is obscured by the tower and not visible.
- Northern mockingbird (*Mimus polyglottos*) pairs possibly nesting nearby; no nests visible.

Other Biological Resources Observations:

- A Cassin's kingbird was observed mobbing a red-tailed hawk (*Buteo jamaicensis*) as it flew over the SCE lot adjacent to and north of the Eastern Parcel.
- A Cassin's kingbird pair was observed mobbing another Cassin's kingbird as it flew over the SCE lot adjacent to and north of the Eastern Parcel.

Other Observations/Comments:

- No project personnel/equipment-wildlife interactions occurred.

Items Requiring Action/Follow-up

- Food trash including water bottles observed on site and trenches without wildlife ramps were observed. Crews will be reminded that all food trash should be thrown away and wildlife ramps should be placed daily at the end of work.

Wildlife Species Observed:

Birds: killdeer, red-tailed hawk, Eurasian collared dove (*Streptopelia decaocto*), mourning dove (*Zenaida macroura*), rock pigeon (*Columba livia*), Cassin's kingbird, barn swallow (*Hirundo rustica*), northern mockingbird, European starling (*Sturnus vulgaris*), house finch (*Haemorrhous mexicanus*), house sparrow (*Passer domesticus*), scaly-breasted munia (*Lonchura punctulata*).

Photo 1



Location	SERC – Eastern Parcel	Description	View south from northern portion of Eastern Parcel at earth moving and dust suppression activities during continued foundation construction.
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Photo 2



Location	SERC – Eastern Parcel	Description	View southwest from northern portion of Eastern Parcel at concrete pouring activities during continued ductwork and foundation laying.
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Photo 3



Location	SERC – Eastern Parcel	Description	View northwest of electrical work and trenching occurring in the eastern portion of the Eastern Parcel.
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Photo 4



Location	SERC – Eastern Parcel	Description	View west from western portion of the Eastern Parcel at continued delivery of gravel and fill material.
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Photo 5



Location	SERC – Western Parcel	Description	View west from eastern portion of the Western Parcel at earth moving and dust suppression activities as part of vehicle bridge construction.
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Photo 6



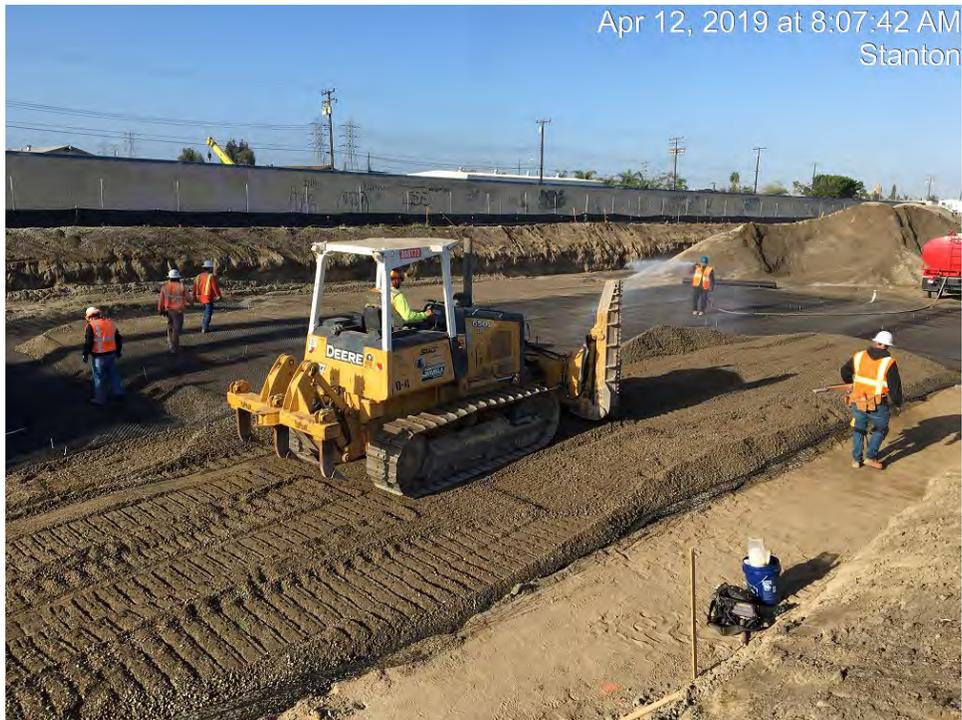
Location	SERC – Eastern Parcel	Description	View north from northern portion of the Eastern Parcel at killdeer incubating on SCE property. The pair shows no sign of disturbance.
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Stanton Energy Reliability Center (SERC)

BIOLOGICAL RESOURCES COMPLIANCE MONITORING LOG

Date	Monitor			Time (Begin-End)
April 12, 2019	Jake Ashford			06:30 - 15:30
Temperature (°F)	Wind (mph)	Precipitation amount	Visibility	Weather Comment
58 - 80	0 – 5 W	0 inches	Good	Sunny to Partly Cloudy
Location(s) of Work Site Activities Monitored				
<p>SERC – Bio-monitoring during Project construction.</p> <p>Western Parcel – Bio-monitored. Checked for potential bird/wildlife/Project interactions, compliance with COCs, SWPPP, ongoing vehicle bridge construction activities, reporting (see Photos in Photo Log).</p> <p>Eastern Parcel – Bio-monitored. Monitored the off-site active nest for signs of disturbance and checked that buffer flagging and signage were in place. Checked for potential bird/wildlife/Project interactions, compliance with COCs, SWPPP, ongoing activities related to construction of the vehicle bridge, sump overflow and ammonia tank foundations, building of forms and placement of ductwork, work on Parcel foundation, reporting (see Photos in Photo Log).</p> <p>Church Parking Lot – Bio-monitored. Surveyed church parking lot and surrounding area (as accessible) for nesting activity.</p>				
Summary of Biological Resources Monitoring Observations				
<p>Bio-monitoring for special status species, nesting birds, fossorial mammals, and other wildlife.</p> <p>Special-Status Species Observed:</p> <ul style="list-style-type: none"> • None <p>Nesting Bird Observations:</p> <ul style="list-style-type: none"> • A killdeer (<i>Charadrius vociferous</i>) nest is present on SCE property north of the Eastern Parcel. The nesting pair shows no sign of disturbance due to construction activities. <p>Other Biological Resources Observations:</p> <ul style="list-style-type: none"> • None. <p>Other Observations/Comments:</p> <ul style="list-style-type: none"> • No project personnel/equipment-wildlife interactions occurred. 				
Items Requiring Action/Follow-up				
<ul style="list-style-type: none"> • No specific items to follow up on. Monitoring of work will continue during Project construction activities. 				
Wildlife Species Observed:				
<p>Birds: killdeer, red-tailed hawk (<i>Buteo jamaicensis</i>), American kestrel (<i>Falco sparverius</i>), Eurasian collared dove (<i>Streptopelia decaocto</i>), mourning dove (<i>Zenaida macroura</i>), rock pigeon (<i>Columba livia</i>), Cassin’s kingbird (<i>Tyrannus vociferans</i>), barn swallow (<i>Hirundo rustica</i>), northern mockingbird (<i>Mimus polyglottos</i>), European starling (<i>Sturnus vulgaris</i>), house finch (<i>Haemorrhous mexicanus</i>), house sparrow (<i>Passer domesticus</i>).</p>				

Photo 1



Location	SERC – Eastern Parcel	Description	View southwest from northern portion of the Eastern Parcel at grading and foundation laying activities.
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Photo 2



Location	SERC – Eastern Parcel	Description	View southeast from northern portion of the Eastern Parcel at gravel fill delivery and foundation laying activities.
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Photo 3



Location	SERC – Eastern Parcel	Description	View southwest from portion portion of the Eastern Parcel at ongoing construction of ammonia tank foundation.
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Photo 4



Location	SERC – Eastern Parcel	Description	View north from northern portion of the Eastern Parcel at killdeer incubating on nest. Killdeer showed no signs of disturbance due to construction activities.
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Photo 5



Location	SERC – Eastern Parcel	Description	View southeast from northern portion of the Eastern Parcel at earth moving activities for foundation stabilization work.
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Photo 6



Location	SERC – Eastern Parcel	Description	View northwest from southern portion of the Eastern Parcel water truck conducting dust abatement activities.
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Stanton Energy Reliability Center (SERC)

BIOLOGICAL RESOURCES COMPLIANCE MONITORING LOG

Date	Monitor			Time (Begin-End)
April 15, 2019	Ken Levenstein			06:30 - 15:00
Temperature (°F)	Wind (mph)	Precipitation amount	Visibility	Weather Comment
52 - 65	0 – 7 SW	0 inches	Good	Cloudy early to Sunny
Location(s) of Work Site Activities Monitored				
<p>SERC – Bio-monitoring during Project construction.</p> <p>Western Parcel – Bio-monitored. Checked for potential bird/wildlife/Project interactions, compliance with COCs, SWPPP, ongoing vehicle bridge and water storage tank construction activities, reporting (see Photos in Photo Log).</p> <p>Eastern Parcel – Bio-monitored. Monitored the off-site active nest for signs of disturbance and checked that buffer flagging and signage were in place. Checked for potential bird/wildlife/Project interactions, compliance with COCs, SWPPP, ongoing activities related to construction of the vehicle bridge, sump overflow and ammonia tank foundations, building of forms and placement of ductwork, work on Parcel foundation, reporting (see Photos in Photo Log).</p> <p>Church Parking Lot – Bio-monitored. Surveyed church parking lot and surrounding area (as accessible) for nesting activity.</p>				
Summary of Biological Resources Monitoring Observations				
<p>Bio-monitoring for special status species, nesting birds, fossorial mammals, and other wildlife.</p> <p>Special-Status Species Observed:</p> <ul style="list-style-type: none"> • None <p>Nesting Bird Observations:</p> <ul style="list-style-type: none"> • A killdeer (<i>Charadrius vociferous</i>) nest is present on SCE property north of the Eastern Parcel. The nesting pair shows no sign of disturbance due to construction activities. <p>Other Biological Resources Observations:</p> <ul style="list-style-type: none"> • A Cassin’s kingbird (<i>Tyrannus vociferans</i>) and a killdeer were observed attacking a red-tailed hawk (<i>Buteo jamaicensis</i>) as it flew over the SCE lot adjacent to and north of the Eastern Parcel. <p>Other Observations/Comments:</p> <ul style="list-style-type: none"> • No project personnel/equipment-wildlife interactions occurred. 				
Items Requiring Action/Follow-up				
<ul style="list-style-type: none"> • No specific items to follow up on. Monitoring of work will continue during Project construction activities. 				
Wildlife Species Observed:				
<p>Birds: killdeer, red-tailed hawk, Eurasian collared dove (<i>Streptopelia decaocto</i>), mourning dove (<i>Zenaida macroura</i>), rock pigeon (<i>Columba livia</i>), Cassin’s kingbird, barn swallow (<i>Hirundo rustica</i>), northern mockingbird (<i>Mimus polyglottos</i>), European starling (<i>Sturnus vulgaris</i>), house finch (<i>Haemorhous mexicanus</i>), house sparrow (<i>Passer domesticus</i>).</p>				

Photo 1

Date & Time: Mon, Apr 15, 2019, 07:34:15 PDT
 Position: 033.806858°N / 117.985448°W
 Altitude: 79ft
 Datum: WGS-84
 Azimuth/Bearing: 071° N71E 1262mils (True)
 Elevation Angle: +27.9°
 Horizon Angle: -03.1°
 Zoom: 1X



Location	SERC – Eastern Parcel	Description	View southeast from eastern portion of the Eastern Parcel at ongoing Parcel foundation buildup and stabilization work.
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Photo 2

Date & Time: Mon, Apr 15, 2019, 07:46:58 PDT
 Position: 033.806961°N / 117.986086°W
 Altitude: 87ft
 Datum: WGS-84
 Azimuth/Bearing: 277° N83W 4924mils (True)
 Elevation Angle: +27.9°
 Horizon Angle: -01.7°
 Zoom: 1X



Location	SERC – Eastern Parcel	Description	View southwest from eastern portion of the Eastern Parcel at ongoing ductworks construction.
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Photo 3



Location	SERC – Eastern Parcel	Description	View west-northwest from western portion of the Eastern Parcel at concrete pump truck pouring into vehicle bridge cement forms.
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Photo 4



Location	SERC – Western Parcel	Description	View northwest from eastern portion of the Western Parcel at ongoing addition of rebar for the water treatment tank.
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Photo 5



Location	SERC – Eastern Parcel	Description	View east-southeast from eastern portion of the Eastern Parcel at ongoing excavation work for ductworks being constructed along the south wall of the Parcel from west to east.
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Photo 6



Location	SERC – Western Parcel	Description	View southeast from eastern portion of the Western Parcel at worker engaged in replacing a section of the chain-link fence running along the southern border of the Parcel.
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Stanton Energy Reliability Center (SERC)

BIOLOGICAL RESOURCES COMPLIANCE MONITORING LOG

Date	Monitor			Time (Begin-End)
April 16, 2019	Ken Levenstein			06:30 - 15:00
Temperature (°F)	Wind (mph)	Precipitation amount	Visibility	Weather Comment
57 - 65	0 – 7 SW	0 inches	Good	Cloudy
Location(s) of Work Site Activities Monitored				
<p>SERC – Bio-monitoring during Project construction.</p> <p>Western Parcel – Bio-monitored. Checked for potential bird/wildlife/Project interactions, compliance with COCs, SWPPP, ongoing vehicle bridge and water de-mineralization tank construction activities, reporting (see Photos in Photo Log).</p> <p>Eastern Parcel – Bio-monitored. Monitored the off-site active nest for signs of disturbance and checked that buffer flagging and signage were in place. Checked for potential bird/wildlife/Project interactions, compliance with COCs, SWPPP, ongoing activities related to construction of the vehicle bridge, sump overflow and ammonia tank foundations, building of forms and placement of ductwork, work on Parcel foundation, reporting (see Photos in Photo Log).</p> <p>Church Parking Lot – Bio-monitored. Surveyed church parking lot and surrounding area (as accessible) for nesting activity.</p>				
Summary of Biological Resources Monitoring Observations				
<p>Bio-monitoring for special status species, nesting birds, fossorial mammals, and other wildlife.</p> <p>Special-Status Species Observed:</p> <ul style="list-style-type: none"> • None <p>Nesting Bird Observations:</p> <ul style="list-style-type: none"> • A killdeer (<i>Charadrius vociferous</i>) nest is present on SCE property north of the Eastern Parcel. The nesting pair shows no sign of disturbance due to construction activities. <p>Other Biological Resources Observations:</p> <ul style="list-style-type: none"> • A Cassin’s kingbird (<i>Tyrannus vociferans</i>) was observed attacking a red-tailed hawk (<i>Buteo jamaicensis</i>) as it flew over the SCE lot adjacent to and north of the Eastern Parcel. <p>Other Observations/Comments:</p> <ul style="list-style-type: none"> • No project personnel/equipment-wildlife interactions occurred. 				
Items Requiring Action/Follow-up				
<ul style="list-style-type: none"> • No specific items to follow up on. Monitoring of work will continue during Project construction activities. 				
Wildlife Species Observed:				
<p>Birds: killdeer, red-tailed hawk, Eurasian collared dove (<i>Streptopelia decaocto</i>), mourning dove (<i>Zenaida macroura</i>), rock pigeon (<i>Columba livia</i>), Cassin’s kingbird, barn swallow (<i>Hirundo rustica</i>), northern mockingbird (<i>Mimus polyglottos</i>), European starling (<i>Sturnus vulgaris</i>), house finch (<i>Haemorhous mexicanus</i>), house sparrow (<i>Passer domesticus</i>).</p>				

Photo 1



Location	SERC – Eastern Parcel	Description	View southeast from eastern portion of the Eastern Parcel at ongoing ductworks construction.
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Photo 2



Location	SERC – Eastern Parcel	Description	View southwest from eastern portion of the Eastern Parcel at ongoing Parcel foundation buildup and stabilization work.
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Photo 3



Location	SERC – Eastern Parcel	Description	View southwest from central portion of the Eastern Parcel at ongoing Parcel foundation buildup and stabilization work.
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Photo 4



Location	SERC – Eastern Parcel	Description	View southwest from in the pit, western portion of the Eastern Parcel at worker tamping down base adjacent to the overflow tank foundation. South wall of Parcel encasing ductwork at left.
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Photo 5



Location	SERC – Eastern Parcel	Description	View east-southeast from western portion of the Eastern Parcel at ongoing construction activity associated with ductworks fabrication and installation.
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Photo 6



Location	SERC – Eastern Parcel	Description	View northwest from western portion of the Eastern Parcel at transformer foundation following installation of base over ductworks. Vehicle bridge foundation in background.
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Photo 5



Location	SERC – Western Parcel	Description	View east-northeast from eastern portion of the Western Parcel at base stabilization work adjacent to vehicle bridge foundation.
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Photo 6



Location	SERC – Western Parcel	Description	View south-southeast from eastern portion of the Western Parcel at worker engaged in welding a portion of the water de-mineralization tank's foundation.
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Stanton Energy Reliability Center (SERC)

BIOLOGICAL RESOURCES COMPLIANCE MONITORING LOG

Date	Monitor			Time (Begin-End)
April 17, 2019	Ken Levenstein			06:30 - 15:00
Temperature (°F)	Wind (mph)	Precipitation amount	Visibility	Weather Comment
53 - 73	0 – 7 SW	0 inches	Good	Sunny
Location(s) of Work Site Activities Monitored				
<p>SERC – Bio-monitoring during Project construction.</p> <p>Western Parcel – Bio-monitored. Checked for potential bird/wildlife/Project interactions, compliance with COCs, SWPPP, ongoing vehicle bridge and water de-mineralization tank construction activities, reporting (see Photos in Photo Log).</p> <p>Eastern Parcel – Bio-monitored. Monitored the off-site active nest for signs of disturbance and checked that buffer flagging and signage were in place. Checked for potential bird/wildlife/Project interactions, compliance with COCs, SWPPP, ongoing activities related to construction of the vehicle bridge, transformer foundation, building of forms and placement of ductwork, work on Parcel foundation, reporting (see Photos in Photo Log).</p> <p>Church Parking Lot – Bio-monitored. Surveyed church parking lot and surrounding area (as accessible) for nesting activity.</p>				
Summary of Biological Resources Monitoring Observations				
<p>Bio-monitoring for special status species, nesting birds, fossorial mammals, and other wildlife.</p> <p>Special-Status Species Observed:</p> <ul style="list-style-type: none"> • None <p>Nesting Bird Observations:</p> <ul style="list-style-type: none"> • A killdeer (<i>Charadrius vociferus</i>) nest is present on SCE property north of the Eastern Parcel. The nesting pair shows no sign of disturbance due to construction activities. <p>Other Biological Resources Observations:</p> <ul style="list-style-type: none"> • None <p>Other Observations/Comments:</p> <ul style="list-style-type: none"> • No project personnel/equipment-wildlife interactions occurred. 				
Items Requiring Action/Follow-up				
<ul style="list-style-type: none"> • No specific items to follow up on. Monitoring of work will continue during Project construction activities. 				
Wildlife Species Observed:				
<p>Birds: killdeer, red-tailed hawk (<i>Buteo jamaicensis</i>), Eurasian collared dove (<i>Streptopelia decaocto</i>), mourning dove (<i>Zenaida macroura</i>), rock pigeon (<i>Columba livia</i>), black phoebe (<i>Sayornis nigricans</i>), Cassin’s kingbird (<i>Tyrannus vociferans</i>), barn swallow (<i>Hirundo rustica</i>), northern mockingbird (<i>Mimus polyglottos</i>), European starling (<i>Sturnus vulgaris</i>), house finch (<i>Haemorhous mexicanus</i>), house sparrow (<i>Passer domesticus</i>).</p>				

Photo 1

Date & Time: Wed, Apr 17, 2019, 09:09:19 PDT
 Position: 033.806627°N / 117.985661°W
 Altitude: 70ft
 Datum: WGS-84
 Azimuth/Bearing: 320° N40W 5689mils (True)
 Elevation Angle: +28.5°
 Horizon Angle: -01.7°
 Zoom: 1X



Location	SERC – Eastern Parcel	Description	View west from central portion of the Eastern Parcel at ductworks construction.
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Photo 2

Date & Time: Wed, Apr 17, 2019, 09:17:49 PDT
 Position: 033.806717°N / 117.984877°W
 Altitude: 76ft
 Datum: WGS-84
 Azimuth/Bearing: 034° N34E 0604mils (True)
 Elevation Angle: +24.8°
 Horizon Angle: -03.1°
 Zoom: 1X



Location	SERC – Eastern Parcel	Description	View northeast from eastern portion of the Eastern Parcel at trenching for installation of Parcel's temporary electrical connections.
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Photo 3

Date & Time: Wed, Apr 17, 2019, 09:22:09 PDT
 Position: 033.806962°N / 117.985501°W
 Altitude: 73ft
 Datum: WGS-84
 Azimuth/Bearing: 308° N52W 5476mils (True)
 Elevation Angle: +28.4°
 Horizon Angle: -01.6°
 Zoom: 1X



Location	SERC – Eastern Parcel	Description	View west-southwest from central portion of the Eastern Parcel at ongoing Parcel foundation buildup and stabilization work.
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Photo 4

Date & Time: Wed, Apr 17, 2019, 09:25:18 PDT
 Position: 033.806818°N / 117.986211°W
 Altitude: 62ft
 Datum: WGS-84
 Azimuth/Bearing: 306° N54W 5440mils (True)
 Elevation Angle: +28.3°
 Horizon Angle: -02.0°
 Zoom: 1X



Location	SERC – Eastern Parcel	Description	View southwest from central portion of the Eastern Parcel at ongoing Parcel foundation buildup and stabilization work.
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Photo 5

Date & Time: Wed, Apr 17, 2019, 09:28:09 PDT
 Position: 033.806798°N / 117.986503°W
 Altitude: 79ft
 Datum: WGS-84
 Azimuth/Bearing: 272° N88W 4836mils (True)
 Elevation Angle: +28.1°
 Horizon Angle: -01.3°
 Zoom: 1X



Location	SERC – Eastern Parcel	Description	View southwest from western portion of the Eastern Parcel at rebar delivery for installation in transformer foundation. Initial construction of forms for transformer foundation visible at center of photo just beyond flatbed loaded with rebar.
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Photo 6

Date & Time: Wed, Apr 17, 2019, 12:53:41 PDT
 Position: 033.806613°N / 117.987319°W
 Altitude: 75ft
 Datum: WGS-84
 Azimuth/Bearing: 037° N37E 0658mils (True)
 Elevation Angle: +29.6°
 Horizon Angle: -02.5°
 Zoom: 1X



Location	SERC – Western Parcel	Description	View northeast from eastern portion of the Western Parcel at ongoing de-mineralization tank foundation construction. Vehicle bridge foundation visible in background.
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Photo 5



Location	SERC – Western Parcel	Description	View northeast from eastern portion of the Western Parcel at vehicle bridge foundation.
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Photo 6



Location	SERC – Western Parcel	Description	View east-northeast from central portion of the Western Parcel at a small portion of materials stored onsite prior to utilization on the Project.
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Stanton Energy Reliability Center (SERC)

BIOLOGICAL RESOURCES COMPLIANCE MONITORING LOG

Date	Monitor			Time (Begin-End)
April 18, 2019	Jake Ashford			06:30 - 15:30
Temperature (°F)	Wind (mph)	Precipitation amount	Visibility	Weather Comment
58 - 85	0 – 4 W	0 inches	Good	Sunny to Partly Cloudy
Location(s) of Work Site Activities Monitored				
<p>SERC – Bio-monitoring during Project construction.</p> <p>Western Parcel – Bio-monitored. Checked for potential bird/wildlife/Project interactions, compliance with COCs, SWPPP, ongoing vehicle bridge construction activities, reporting (see Photos in Photo Log).</p> <p>Eastern Parcel – Bio-monitored. Monitored the off-site active nest for signs of disturbance and checked that buffer flagging and signage were in place. Checked for potential bird/wildlife/Project interactions, compliance with COCs, SWPPP, ongoing activities related to construction of the vehicle bridge, sump overflow and ammonia tank foundations, building of forms and placement of ductwork, work on Parcel foundation, reporting (see Photos in Photo Log).</p> <p>Church Parking Lot – Bio-monitored. Surveyed church parking lot and surrounding area (as accessible) for nesting activity.</p>				
Summary of Biological Resources Monitoring Observations				
<p>Bio-monitoring for special status species, nesting birds, fossorial mammals, and other wildlife.</p> <p>Special-Status Species Observed:</p> <ul style="list-style-type: none"> • None <p>Nesting Bird Observations:</p> <ul style="list-style-type: none"> • A killdeer (<i>Charadrius vociferous</i>) nest is present on SCE property north of the Eastern Parcel. The nesting pair shows no sign of disturbance due to construction activities. <p>Other Biological Resources Observations:</p> <ul style="list-style-type: none"> • None. <p>Other Observations/Comments:</p> <ul style="list-style-type: none"> • No project personnel/equipment-wildlife interactions occurred. 				
Items Requiring Action/Follow-up				
<ul style="list-style-type: none"> • No specific items to follow up on. Monitoring of work will continue during Project construction activities. 				
Wildlife Species Observed:				
<p>Birds: killdeer, red-tailed hawk (<i>Buteo jamaicensis</i>), Eurasian collared dove (<i>Streptopelia decaocto</i>), mourning dove (<i>Zenaida macroura</i>), rock pigeon (<i>Columba livia</i>), Cassin’s kingbird (<i>Tyrannus vociferans</i>), barn swallow (<i>Hirundo rustica</i>), northern mockingbird (<i>Mimus polyglottos</i>), European starling (<i>Sturnus vulgaris</i>), house finch (<i>Haemorhous mexicanus</i>), house sparrow (<i>Passer domesticus</i>).</p>				

Photo 1



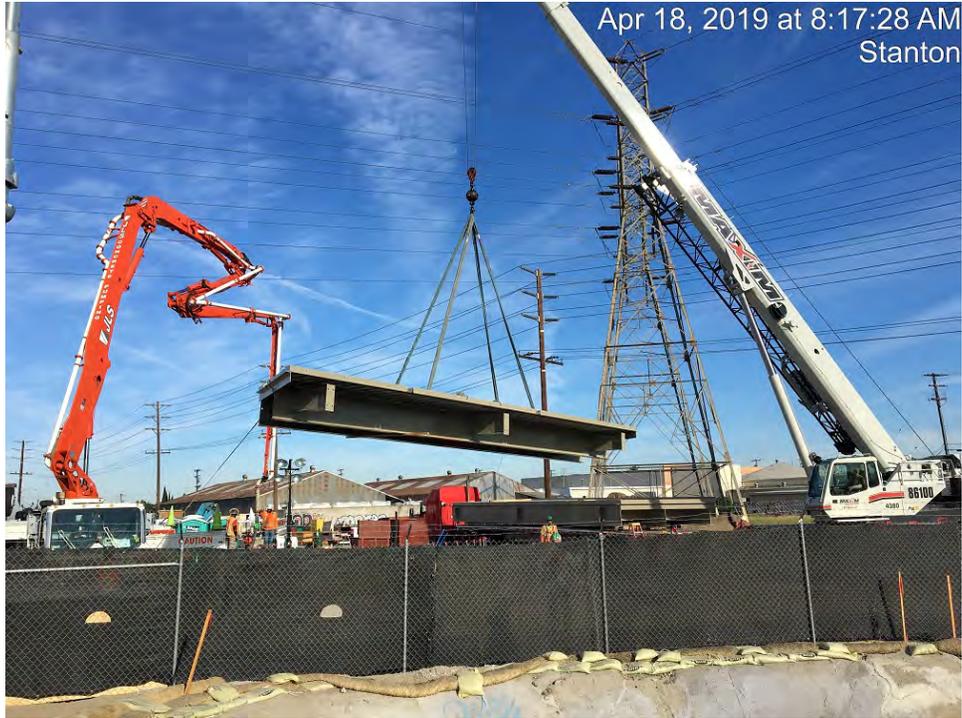
Location	SERC – Eastern Parcel	Description	View southwest from northern portion of the Eastern Parcel at grading activities and foundation fill material delivery.
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Photo 2



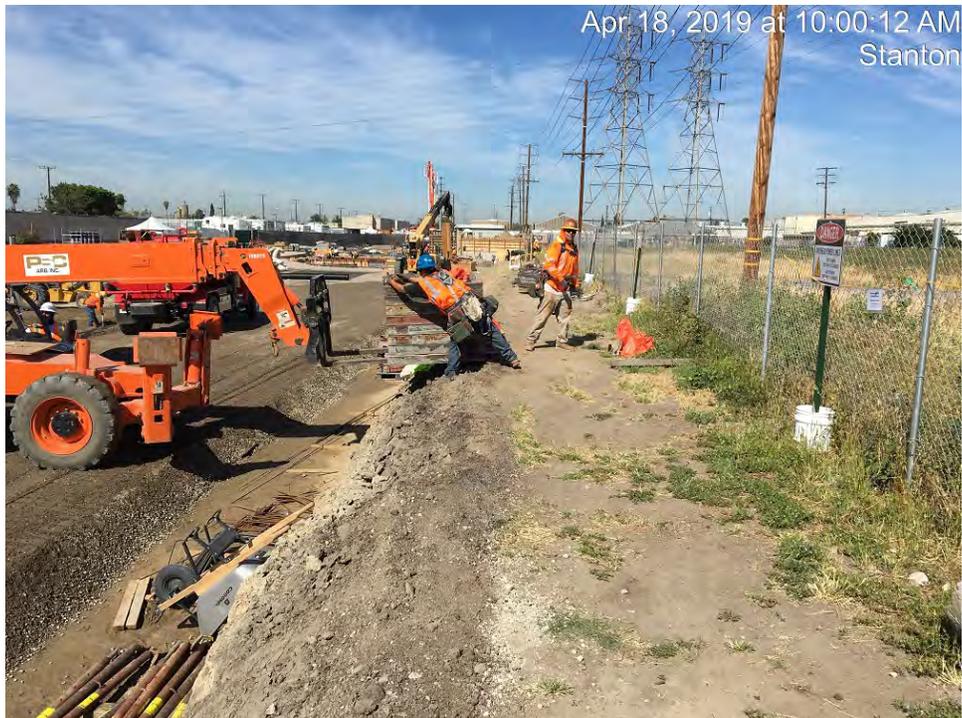
Location	SERC – Eastern Parcel	Description	View north from northern portion of the Eastern Parcel at killdeer incubating on nest. Killdeer showed no signs of disturbance due to construction activities.
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Photo 3



Location	SERC – Western Parcel	Description	View west from western portion of the Eastern Parcel at delivery and staging of vehicle bridge materials.
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Photo 4



Location	SERC – Eastern Parcel	Description	View west from northern portion of the Eastern Parcel at crews moving and staging material. Crews stayed outside of the 35-foot Environmentally Sensitive Area buffer.
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Photo 5



Location	SERC – Western Parcel	Description	View north from southeast portion of Western Parcel at concrete foundation pouring activities.
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Photo 6



Location	SERC – Eastern Parcel	Description	View southwest from northern portion of the Eastern Parcel water truck conducting dust abatement activities.
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Stanton Energy Reliability Center (SERC)

BIOLOGICAL RESOURCES COMPLIANCE MONITORING LOG

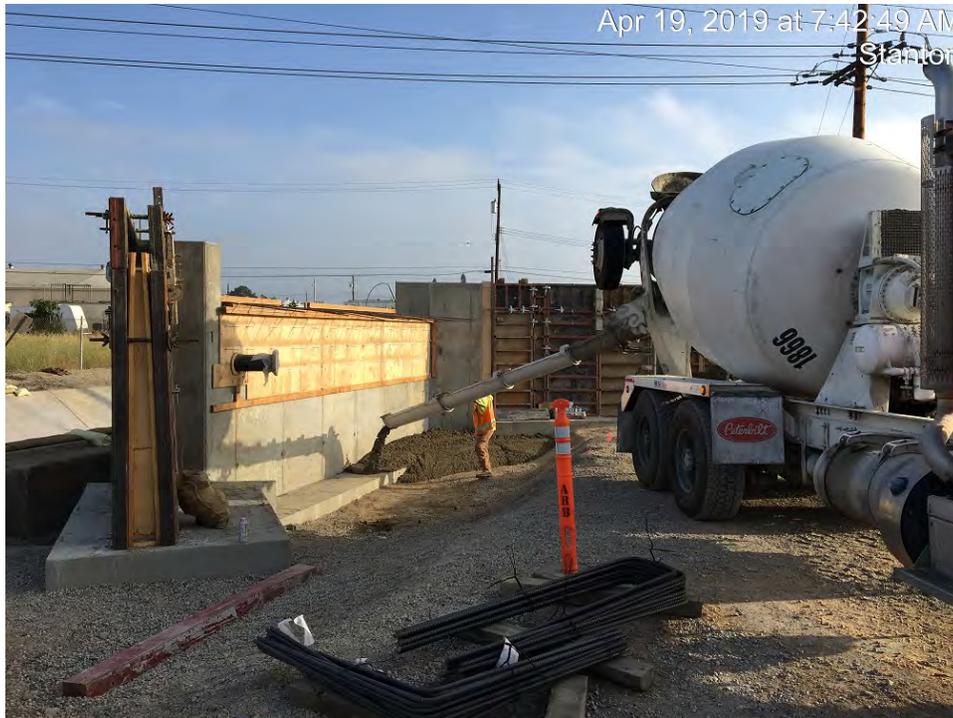
Date	Monitor			Time (Begin-End)
April 19, 2019	Jake Ashford			06:30 - 15:30
Temperature (°F)	Wind (mph)	Precipitation amount	Visibility	Weather Comment
55 - 76	0 – 5 W	0 inches	Good	Overcast to Partly Cloudy
Location(s) of Work Site Activities Monitored				
<p>SERC – Bio-monitoring during Project construction.</p> <p>Western Parcel – Bio-monitored. Checked for potential bird/wildlife/Project interactions, compliance with COCs, SWPPP, ongoing vehicle bridge construction activities, reporting (see Photos in Photo Log).</p> <p>Eastern Parcel – Bio-monitored. Monitored the off-site active nest for signs of disturbance and checked that buffer flagging and signage were in place. Checked for potential bird/wildlife/Project interactions, compliance with COCs, SWPPP, ongoing activities related to construction of the vehicle bridge, sump overflow and ammonia tank foundations, building of forms and placement of ductwork, work on Parcel foundation, reporting (see Photos in Photo Log).</p> <p>Church Parking Lot – Bio-monitored. Surveyed church parking lot and surrounding area (as accessible) for nesting activity.</p>				
Summary of Biological Resources Monitoring Observations				
<p>Bio-monitoring for special status species, nesting birds, fossorial mammals, and other wildlife.</p> <p>Special-Status Species Observed:</p> <ul style="list-style-type: none"> • None <p>Nesting Bird Observations:</p> <ul style="list-style-type: none"> • A killdeer (<i>Charadrius vociferous</i>) nest is present on SCE property north of the Eastern Parcel. The nesting pair shows no sign of disturbance due to construction activities. <p>Other Biological Resources Observations:</p> <ul style="list-style-type: none"> • None. <p>Other Observations/Comments:</p> <ul style="list-style-type: none"> • A Southern California Edison (SCE) affiliated employee drove through the SCE parcel north of the SERC Eastern Parcel which contains the killdeer nest. Although the nest was avoided, the killdeer left the nest due to the proximity of the vehicle. The killdeer returned to incubation shortly after the vehicle pulled away. The SCE affiliated employee was notified of the presence of the nest and proceeded to leave the area. Follow-up observations showed the killdeer incubating on the nest for the remainder of the day showing no signs of stress. 				
Items Requiring Action/Follow-up				
<ul style="list-style-type: none"> • No specific items to follow up on. Monitoring of work will continue during Project construction activities. 				
Wildlife Species Observed:				
<p>Birds: killdeer, red-tailed hawk (<i>Buteo jamaicensis</i>), American kestrel (<i>Falco sparverius</i>), Eurasian collared dove (<i>Streptopelia decaocto</i>), mourning dove (<i>Zenaida macroura</i>), rock pigeon (<i>Columba livia</i>), Cassin’s kingbird (<i>Tyrannus vociferans</i>), barn swallow (<i>Hirundo rustica</i>), northern mockingbird (<i>Mimus polyglottos</i>), European starling (<i>Sturnus vulgaris</i>), house finch (<i>Haemorhous mexicanus</i>), house sparrow (<i>Passer domesticus</i>).</p>				

Photo 1



Location	SERC – Western Parcel	Description	View west from eastern portion of the Western Parcel of trenching activities near the southern fenceline.
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Photo 2



Location	SERC – Eastern Parcel	Description	View northwest from northern portion of the Eastern Parcel at crews using slurry to backfill the vehicle bridge foundation.
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Photo 3



Location	SERC – Eastern Parcel	Description	View southwest from northern portion of the Eastern Parcel at ongoing grading and foundation laying activities.
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Photo 4



Location	SERC – Eastern Parcel	Description	View north from northern portion of the Eastern Parcel at water truck conducting dust abatement activities.
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Photo 5



Location	SERC – Eastern Parcel	Description	View north from northern portion of the Eastern Parcel at killdeer incubating on nest after disturbance from SCE affiliated vehicle driving within the 35-foot buffer.
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Photo 6



Location	SERC – Eastern Parcel	Description	View south from northern portion of the Eastern Parcel earth moving activities and framing activities in preparation for concrete.
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Stanton Energy Reliability Center (SERC)

BIOLOGICAL RESOURCES COMPLIANCE MONITORING LOG

Date	Monitor			Time (Begin-End)
April 22, 2019	Ken Levenstein			06:30 - 15:00
Temperature (°F)	Wind (mph)	Precipitation amount	Visibility	Weather Comment
54 - 70	0 – 8 SW	0 inches	Good	Sunny
Location(s) of Work Site Activities Monitored				
<p>SERC – Bio-monitoring during Project construction.</p> <p>Western Parcel – Bio-monitored. Checked for potential bird/wildlife/Project interactions, compliance with COCs, SWPPP, ongoing vehicle bridge construction activities, reporting (see Photos in Photo Log).</p> <p>Eastern Parcel – Bio-monitored. Monitored the off-site active nest for signs of disturbance and checked that buffer flagging and signage were in place. Checked for potential bird/wildlife/Project interactions, compliance with COCs, SWPPP, ongoing activities related to construction of the vehicle bridge, transformer foundation, building of forms and placement of ductwork, work on Parcel foundation, reporting (see Photos in Photo Log).</p> <p>Church Parking Lot – Bio-monitored. Surveyed church parking lot and surrounding area (as accessible) for nesting activity.</p>				
Summary of Biological Resources Monitoring Observations				
<p>Bio-monitoring for special status species, nesting birds, fossorial mammals, and other wildlife.</p> <p>Special-Status Species Observed:</p> <ul style="list-style-type: none"> • None <p>Nesting Bird Observations:</p> <ul style="list-style-type: none"> • A killdeer (<i>Charadrius vociferus</i>) nest is present on SCE property north of the Eastern Parcel. The nesting pair shows no sign of disturbance due to construction activities. <p>Other Biological Resources Observations:</p> <ul style="list-style-type: none"> • None <p>Other Observations/Comments:</p> <ul style="list-style-type: none"> • No project personnel/equipment-wildlife interactions occurred. 				
Items Requiring Action/Follow-up				
<ul style="list-style-type: none"> • No specific items to follow up on. Monitoring of work will continue during Project construction activities. 				
Wildlife Species Observed:				
<p>Birds: killdeer, red-tailed hawk (<i>Buteo jamaicensis</i>), Eurasian collared dove (<i>Streptopelia decaocto</i>), mourning dove (<i>Zenaida macroura</i>), rock pigeon (<i>Columba livia</i>), Cassin’s kingbird (<i>Tyrannus vociferans</i>), barn swallow (<i>Hirundo rustica</i>), northern mockingbird (<i>Mimus polyglottos</i>), European starling (<i>Sturnus vulgaris</i>), house finch (<i>Haemorhous mexicanus</i>), house sparrow (<i>Passer domesticus</i>).</p>				

Photo 1

Date & Time: Mon, Apr 22, 2019, 12:35:05 PDT
 Position: 033.806895° N / 117.985432° W
 Altitude: 91ft
 Datum: WGS-84
 Azimuth/Bearing: 096° S84E 1707mils (True)
 Elevation Angle: +28.7°
 Horizon Angle: -02.6°
 Zoom: 1X



Location	SERC – Eastern Parcel	Description	View south from eastern portion of the Eastern Parcel at bulldozer working on roadway for dump truck turnaround.
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Photo 2

Date & Time: Mon, Apr 22, 2019, 12:36:34 PDT
 Position: 033.806876° N / 117.985737° W
 Altitude: 83ft
 Datum: WGS-84
 Azimuth/Bearing: 073° N73E 1298mils (True)
 Elevation Angle: +27.9°
 Horizon Angle: -02.3°
 Zoom: 1X



Location	SERC – Eastern Parcel	Description	Another view (southeast from east-central portion of the Eastern Parcel) at bulldozer, in middle of photo behind roller, working on roadway for dump truck turnaround. Spoils pile awaiting removal from site evident in middle of photo.
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Photo 3



Location	SERC – Eastern Parcel	Description	View southwest from western portion of the Eastern Parcel transformer foundation. Forklift visible in background is assisting in the removal of cement forms from the vehicle bridge foundation which is still under construction.
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Photo 4



Location	SERC – Eastern Parcel	Description	View southwest from central portion of the Eastern Parcel at ongoing Parcel foundation buildup and stabilization work.
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Photo 5



Location	SERC – Western Parcel	Description	View northeast from eastern portion of the Western Parcel at large prefabricated portions (in foreground) of the vehicle bridge awaiting installation on to the bridge foundation (in background).
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Photo 6



Location	SERC – Western Parcel	Description	View northeast from eastern portion of the Western Parcel at ongoing de-mineralization tank foundation construction.
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Photo 7



Location	SERC – Western Parcel	Description	View east from southeastern portion of the Western Parcel at new temporary privacy fencing along the southeastern perimeter of the Parcel.
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Photo 8



Location	SERC – Western Parcel	Description	View east from eastern portion of the Western Parcel at vehicle bridge foundation (left) and de-mineralization tank foundation (right).
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Stanton Energy Reliability Center (SERC)

BIOLOGICAL RESOURCES COMPLIANCE MONITORING LOG

Date	Monitor			Time (Begin-End)
April 23, 2019	Ken Levenstein			06:30 - 15:00
Temperature (°F)	Wind (mph)	Precipitation amount	Visibility	Weather Comment
56 - 73	0 – 9 SW	0 inches	Good	Sunny
Location(s) of Work Site Activities Monitored				
<p>SERC – Bio-monitoring during Project construction.</p> <p>Western Parcel – Bio-monitored. Checked for potential bird/wildlife/Project interactions, compliance with COCs, SWPPP, ongoing vehicle bridge construction activities, reporting (see Photos in Photo Log).</p> <p>Eastern Parcel – Bio-monitored. Monitored the off-site active nest for signs of disturbance and checked that buffer flagging and signage were in place. Checked for potential bird/wildlife/Project interactions, compliance with COCs, SWPPP, ongoing activities related to construction of the vehicle bridge, pouring of concrete into ductwork forms and ammonia sump foundation, reporting (see Photos in Photo Log).</p> <p>Church Parking Lot – Bio-monitored. Surveyed church parking lot and surrounding area (as accessible) for nesting activity.</p>				
Summary of Biological Resources Monitoring Observations				
<p>Bio-monitoring for special status species, nesting birds, fossorial mammals, and other wildlife.</p> <p>Special-Status Species Observed:</p> <ul style="list-style-type: none"> • None <p>Nesting Bird Observations:</p> <ul style="list-style-type: none"> • A killdeer (<i>Charadrius vociferus</i>) nest is present on SCE property north of the Eastern Parcel. The nesting pair shows no sign of disturbance due to construction activities. <p>Other Biological Resources Observations:</p> <ul style="list-style-type: none"> • None <p>Other Observations/Comments:</p> <ul style="list-style-type: none"> • No project personnel/equipment-wildlife interactions occurred. 				
Items Requiring Action/Follow-up				
<ul style="list-style-type: none"> • No specific items to follow up on. Monitoring of work will continue during Project construction activities. 				
Wildlife Species Observed:				
<p>Birds: killdeer, red-tailed hawk (<i>Buteo jamaicensis</i>), Eurasian collared dove (<i>Streptopelia decaocto</i>), mourning dove (<i>Zenaida macroura</i>), rock pigeon (<i>Columba livia</i>), Cassin’s kingbird (<i>Tyrannus vociferans</i>), barn swallow (<i>Hirundo rustica</i>), northern mockingbird (<i>Mimus polyglottos</i>), European starling (<i>Sturnus vulgaris</i>), house finch (<i>Haemorhous mexicanus</i>), lesser goldfinch (<i>Spinus psaltria</i>), house sparrow (<i>Passer domesticus</i>), scaly-breasted munia (<i>Lonchura punctulata</i>).</p>				

Photo 1

Date & Time: Tue, Apr 23, 2019, 07:30:05 PDT
 Position: 033.806989°N / 117.986158°W
 Altitude: 81ft
 Datum: WGS-84
 Azimuth/Bearing: 303° N57W 5387mils (True)
 Elevation Angle: +32.5°
 Horizon Angle: -01.6°
 Zoom: 1X



Location	SERC – Eastern Parcel	Description	View west-southwest from central portion of the Eastern Parcel at pump truck pouring concrete into ammonia sump tank forms.
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Photo 2

Date & Time: Tue, Apr 23, 2019, 07:32:56 PDT
 Position: 033.806823°N / 117.985882°W
 Altitude: 83ft
 Datum: WGS-84
 Azimuth/Bearing: 290° N70W 5156mils (True)
 Elevation Angle: +27.9°
 Horizon Angle: -01.6°
 Zoom: 1X



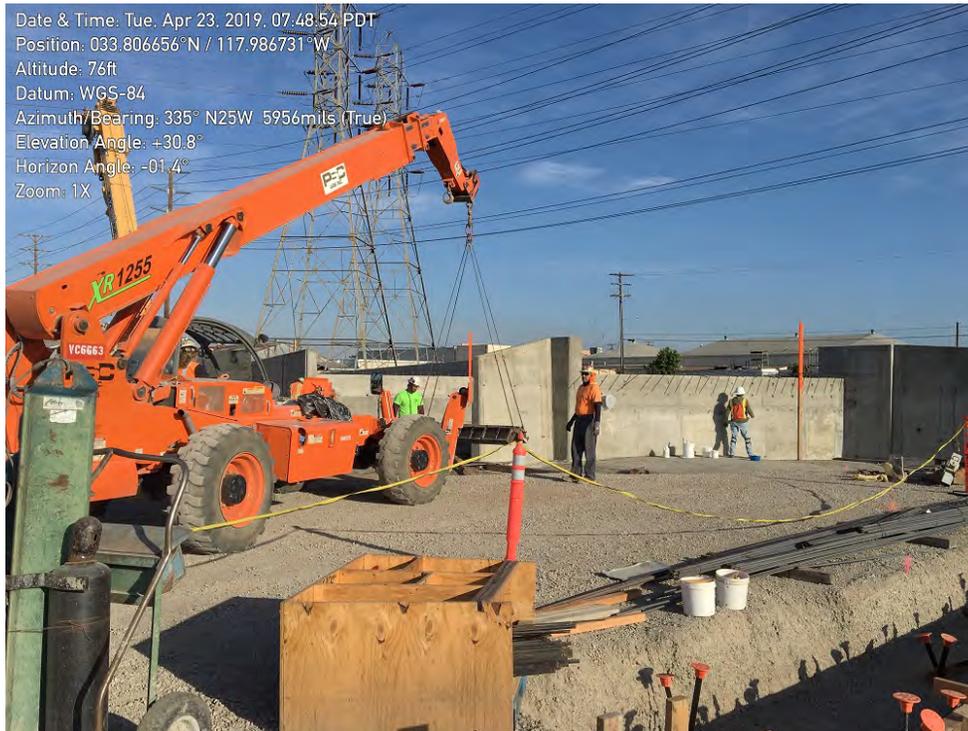
Location	SERC – Eastern Parcel	Description	View south-southwest from central portion of the Eastern Parcel at “cement” (actually, concrete) truck providing material to concrete pump truck. Large plastic sheet on the ground is for containment in the event that any of the material should spill.
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Photo 3



Location	SERC – Eastern Parcel	Description	Another view (southwest) from central portion of the Eastern Parcel at pump truck pouring concrete into ammonia sump tank forms.
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Photo 4



Location	SERC – Eastern Parcel	Description	View northwest from western portion of the Eastern Parcel at forklift removing forms from the area around the vehicle bridge foundation.
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Photo 5



Date & Time: Tue, Apr 23, 2019, 10:50:30 PDT
 Position: 033.806787°N / 117.986505°W
 Altitude: 72ft
 Datum: WGS-84
 Azimuth/Bearing: 332° N28W 5902mils (True)
 Elevation Angle: +31.4°
 Horizon Angle: -01.7°
 Zoom: 1X

Location	SERC – Eastern Parcel	Description	View northwest from western portion of the Eastern Parcel at large prefabricated portion of the vehicle bridge being hoisted into place on top of the foundation. Transformer foundation visible in foreground.
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Photo 6



Date & Time: Tue, Apr 23, 2019, 10:50:57 PDT
 Position: 033.806756°N / 117.986765°W
 Altitude: 74ft
 Datum: WGS-84
 Azimuth/Bearing: 342° N18W 6080mils (True)
 Elevation Angle: +31.8°
 Horizon Angle: -02.1°
 Zoom: 1X

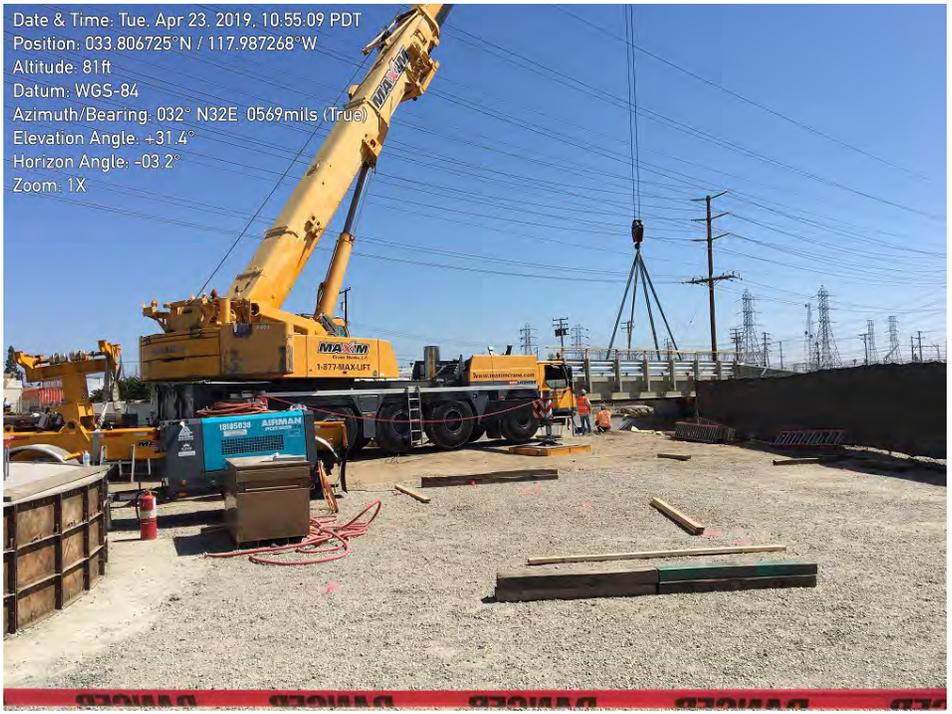
Location	SERC – Eastern Parcel	Description	Another view northwest from western portion of the Eastern Parcel at large prefabricated portion of the vehicle bridge being hoisted into place on top of the foundation.
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Photo 7



Location	SERC – Between Parcels	Description	Another view (north) from pedestrian bridge over the Stanton Storm Channel at large prefabricated portion of the vehicle bridge being hoisted into place on top of the foundation.
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Photo 8



Location	SERC – Western Parcel	Description	Another view (northeast) from eastern portion of the Western Parcel at large prefabricated portion of the vehicle bridge being hoisted into place on top of the foundation.
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Stanton Energy Reliability Center (SERC)

BIOLOGICAL RESOURCES COMPLIANCE MONITORING LOG

Date	Monitor			Time (Begin-End)
April 24, 2019	Ken Levenstein			06:30 - 15:00
Temperature (°F)	Wind (mph)	Precipitation amount	Visibility	Weather Comment
58 - 74	0 – 8 SW	0 inches	Good	Overcast early, clearing mid-morning, sunny
Location(s) of Work Site Activities Monitored				
<p>SERC – Bio-monitoring during Project construction.</p> <p>Western Parcel – Bio-monitored. Checked for potential bird/wildlife/Project interactions, compliance with COCs, SWPPP, ongoing vehicle bridge construction activities, reporting (see Photos in Photo Log).</p> <p>Eastern Parcel – Bio-monitored. Monitored the off-site active nest for signs of disturbance and checked that buffer flagging and signage were in place. Checked for potential bird/wildlife/Project interactions, compliance with COCs, SWPPP, ongoing activities related to construction of the vehicle bridge, ductwork, ammonia tank and sump, pouring of concrete into utility rack foundation, reporting (see Photos in Photo Log).</p> <p>Church Parking Lot – Bio-monitored. Surveyed church parking lot and surrounding area (as accessible) for nesting activity.</p>				
Summary of Biological Resources Monitoring Observations				
<p>Bio-monitoring for special status species, nesting birds, fossorial mammals, and other wildlife.</p> <p>Special-Status Species Observed:</p> <ul style="list-style-type: none"> • None <p>Nesting Bird Observations:</p> <ul style="list-style-type: none"> • A killdeer (<i>Charadrius vociferus</i>) nest is present on SCE property north of the Eastern Parcel. The nesting pair shows no sign of disturbance due to construction activities. <p>Other Biological Resources Observations:</p> <ul style="list-style-type: none"> • None <p>Other Observations/Comments:</p> <ul style="list-style-type: none"> • No project personnel/equipment-wildlife interactions occurred. 				
Items Requiring Action/Follow-up				
<ul style="list-style-type: none"> • No specific items to follow up on. Monitoring of work will continue during Project construction activities. 				
Wildlife Species Observed:				
<p>Birds: killdeer, red-tailed hawk (<i>Buteo jamaicensis</i>), Eurasian collared dove (<i>Streptopelia decaocto</i>), mourning dove (<i>Zenaida macroura</i>), rock pigeon (<i>Columba livia</i>), Cassin’s kingbird (<i>Tyrannus vociferans</i>), barn swallow (<i>Hirundo rustica</i>), northern mockingbird (<i>Mimus polyglottos</i>), European starling (<i>Sturnus vulgaris</i>), house finch (<i>Haemorhous mexicanus</i>), house sparrow (<i>Passer domesticus</i>).</p>				

Photo 1

Date & Time: Wed, Apr 24, 2019, 07:33:28 PDT
 Position: 033.806916°N / 117.986207°W
 Altitude: 75ft
 Datum: WGS-84
 Azimuth/Bearing: 080° N80E 1422mils (True)
 Elevation Angle: +29.5°
 Horizon Angle: -02.4°
 Zoom: 1X



Location	SERC – Eastern Parcel	Description	View southeast from central portion of the Eastern Parcel at truck delivering shoring for ductwork trench.
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Photo 2

Date & Time: Wed, Apr 24, 2019, 07:43:33 PDT
 Position: 033.807561°N / 117.985477°W
 Altitude: 83ft
 Datum: WGS-84
 Azimuth/Bearing: 336° N24W 5973mils (True)
 Elevation Angle: +26.5°
 Horizon Angle: -02.4°
 Zoom: 1X



Location	SERC – Eastern Parcel	Description	View northwest from western portion of the Eastern Parcel at workers continuing to add rebar for the transformer foundation.
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Photo 3



Location	SERC – Western Parcel	Description	View northeast from eastern portion of the Western Parcel at water de-mineralization tank foundation following removal of forms.
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Photo 4



Location	SERC – Eastern Parcel	Description	View northwest from western portion of the Eastern Parcel at workers smoothing concrete from first truckload that was poured for the utility rack foundation a few minutes earlier.
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Photo 5



Location	SERC – Eastern Parcel	Description	View southwest from central portion of the Eastern Parcel at large shoring components for ductwork trench following offloading from delivery truck.
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Photo 6



Location	SERC – Eastern Parcel	Description	View southwest from central portion of the Eastern Parcel at ongoing ductwork construction along the southern perimeter of the Parcel.
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Photo 7



Date & Time: Wed, Apr 24, 2019, 13:16:23 PDT
 Position: 033.806786°N / 117.986869°W
 Altitude: 67ft
 Datum: WGS-84
 Azimuth/Bearing: 046° N46E 0818mils (True)
 Elevation Angle: +30.1°
 Horizon Angle: -03.5°
 Zoom: 1X

Location	SERC – Eastern Parcel	Description	View northwest from western portion of the Eastern Parcel at workers adding another truckload of concrete to the utility rack foundation.
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Photo 8



Date & Time: Wed, Apr 24, 2019, 13:18:16 PDT
 Position: 033.806817°N / 117.988120°W
 Altitude: 71ft
 Datum: WGS-84
 Azimuth/Bearing: 065° N65E 1156mils (True)
 Elevation Angle: +31.5°
 Horizon Angle: -02.4°
 Zoom: 1X

Location	SERC – Western Parcel	Description	View east-southeast from central portion of the Western Parcel at workers busy fabricating portions of ductwork for addition to ongoing construction in the Eastern Parcel.
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Stanton Energy Reliability Center (SERC)

BIOLOGICAL RESOURCES COMPLIANCE MONITORING LOG

Date	Monitor			Time (Begin-End)
April 25, 2019	Ken Levenstein			06:30 - 15:00
Temperature (°F)	Wind (mph)	Precipitation amount	Visibility	Weather Comment
58 - 73	0 – 8 SW	0 inches	Good	Overcast early, clearing mid-morning, sunny
Location(s) of Work Site Activities Monitored				
<p>SERC – Bio-monitoring during Project construction.</p> <p>Western Parcel – Bio-monitored. Checked for potential bird/wildlife/Project interactions, compliance with COCs, SWPPP, reporting (see Photos in Photo Log).</p> <p>Eastern Parcel – Bio-monitored. Monitored the off-site active nest for signs of disturbance and checked that buffer flagging and signage were in place. Checked for potential bird/wildlife/Project interactions, compliance with COCs, SWPPP, hauling spoils offsite, ongoing activities related to construction of the vehicle bridge, ductwork, ammonia tank, and utility rack and transformer foundations, reporting (see Photos in Photo Log).</p> <p>Church Parking Lot – Bio-monitored. Surveyed church parking lot and surrounding area (as accessible) for nesting activity.</p>				
Summary of Biological Resources Monitoring Observations				
<p>Bio-monitoring for special status species, nesting birds, fossorial mammals, and other wildlife.</p> <p>Special-Status Species Observed:</p> <ul style="list-style-type: none"> • None <p>Nesting Bird Observations:</p> <ul style="list-style-type: none"> • A killdeer (<i>Charadrius vociferus</i>) nest is present on SCE property north of the Eastern Parcel. The nesting pair shows no sign of disturbance due to construction activities. <p>Other Biological Resources Observations:</p> <ul style="list-style-type: none"> • None <p>Other Observations/Comments:</p> <ul style="list-style-type: none"> • No project personnel/equipment-wildlife interactions occurred. 				
Items Requiring Action/Follow-up				
<ul style="list-style-type: none"> • No specific items to follow up on. Monitoring of work will continue during Project construction activities. 				
Wildlife Species Observed:				
<p>Birds: killdeer, red-tailed hawk (<i>Buteo jamaicensis</i>), Eurasian collared dove (<i>Streptopelia decaocto</i>), mourning dove (<i>Zenaida macroura</i>), rock pigeon (<i>Columba livia</i>), Cassin’s kingbird (<i>Tyrannus vociferans</i>), barn swallow (<i>Hirundo rustica</i>), northern mockingbird (<i>Mimus polyglottos</i>), European starling (<i>Sturnus vulgaris</i>), vesper sparrow (<i>Pooecetes gramineus</i>), house finch (<i>Haemorhous mexicanus</i>), house sparrow (<i>Passer domesticus</i>).</p>				

Photo 1



Location	SERC – Eastern Parcel	Description	View southwest from eastern portion of the Eastern Parcel at excavator loading dump truck with spoils to be hauled offsite.
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Photo 2



Location	SERC – Eastern Parcel	Description	View east-southeast from eastern portion of the Eastern Parcel at excavator loading dump truck with spoils to be hauled offsite. In foreground, roadway for dump trucks is being stabilized.
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Photo 3



Location	SERC – Eastern Parcel	Description	View south from central portion of the Eastern Parcel at ongoing construction of ductwork and work on Parcel infrastructure.
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Photo 4



Location	SERC – Eastern Parcel	Description	View southwest from western portion of the Eastern Parcel at pumper truck pouring concrete into ammonia tank foundation forms. Concrete truck providing material for pumper visible in foreground, obscuring view of pump truck.
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Photo 5



Location	SERC – Eastern Parcel	Description	View north-northwest from western portion of the Eastern Parcel at ongoing construction of utility rack foundation.
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Photo 6



Location	SERC – Eastern Parcel	Description	View northwest from western portion of the Eastern Parcel at ongoing addition of rebar for transformer foundation.
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Photo 7



Date & Time: Thu, Apr 25, 2019, 10:15:02 PDT
 Position: 033.806751°N / 117.985419°W
 Altitude: 87ft
 Datum: WGS-84
 Azimuth/Bearing: 333° N27W 5920mils (True)
 Elevation Angle: +23.1°
 Horizon Angle: +00.8°
 Zoom: 1X

Location	SERC – Eastern Parcel	Description	View west from central portion of the Eastern Parcel at ongoing ductwork construction along the southern perimeter of the Parcel.
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Photo 8



Date & Time: Thu, Apr 25, 2019, 13:17:04 PDT
 Position: 033.806802°N / 117.986610°W
 Altitude: 81ft
 Datum: WGS-84
 Azimuth/Bearing: 319° N41W 5671mils (True)
 Elevation Angle: +30.6°
 Horizon Angle: -02.4°
 Zoom: 1X

Location	SERC – Eastern Parcel	Description	View southwest from western portion of the Eastern Parcel at construction of forms for additional utility rack foundation.
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Stanton Energy Reliability Center (SERC)

BIOLOGICAL RESOURCES COMPLIANCE MONITORING LOG

Date	Monitor			Time (Begin-End)
April 26, 2019	Ken Levenstein			06:30 - 15:00
Temperature (°F)	Wind (mph)	Precipitation amount	Visibility	Weather Comment
58 - 70	0 – 7 SW	0 inches	Good	Overcast early, clearing mid-morning, sunny
Location(s) of Work Site Activities Monitored				
<p>SERC – Bio-monitoring during Project construction.</p> <p>Western Parcel – Bio-monitored. Checked for potential bird/wildlife/Project interactions, compliance with COCs, SWPPP, receiving of construction materials, work on water de-mineralization system master control foundation, reporting (see Photos in Photo Log).</p> <p>Eastern Parcel – Bio-monitored. Monitored the off-site active nest for signs of disturbance and checked that buffer flagging and signage were in place. Checked for potential bird/wildlife/Project interactions, compliance with COCs, SWPPP, hauling spoils offsite, resumption of Parcel excavation, ongoing activities related to construction of the vehicle bridge, ductwork, ammonia tank, and utility rack and transformer foundations, reporting (see Photos in Photo Log).</p> <p>Church Parking Lot – Bio-monitored. Surveyed church parking lot and surrounding area (as accessible) for nesting activity.</p>				
Summary of Biological Resources Monitoring Observations				
<p>Bio-monitoring for special status species, nesting birds, fossorial mammals, and other wildlife.</p> <p>Special-Status Species Observed:</p> <ul style="list-style-type: none"> • None <p>Nesting Bird Observations:</p> <ul style="list-style-type: none"> • A killdeer (<i>Charadrius vociferus</i>) nest is present on SCE property north of the Eastern Parcel. The nesting pair shows no sign of disturbance due to construction activities. Nest was first verified on April 4th and on that date had four eggs being incubated by one of the adults. Eggs should be approaching hatch date if fertile as incubation typically lasts approximately 23 – 29 days (Jackson and Jackson, 2000). <p>Other Biological Resources Observations:</p> <ul style="list-style-type: none"> • None <p>Other Observations/Comments:</p> <ul style="list-style-type: none"> • No project personnel/equipment-wildlife interactions occurred. 				
Items Requiring Action/Follow-up				
<ul style="list-style-type: none"> • No specific items to follow up on. Monitoring of work will continue during Project construction activities. 				
Wildlife Species Observed:				
<p>Birds: killdeer, red-tailed hawk (<i>Buteo jamaicensis</i>), Eurasian collared dove (<i>Streptopelia decaocto</i>), mourning dove (<i>Zenaida macroura</i>), rock pigeon (<i>Columba livia</i>), Cassin’s kingbird (<i>Tyrannus vociferans</i>), barn swallow (<i>Hirundo rustica</i>), northern mockingbird (<i>Mimus polyglottos</i>), European starling (<i>Sturnus vulgaris</i>), Bullock’s oriole (<i>Icterus bullockii</i>), house finch (<i>Haemorhous mexicanus</i>), house sparrow (<i>Passer domesticus</i>).</p>				

Literature Cited

Jackson, B. J. and J. A. Jackson. 2000. Killdeer (*Charadrius vociferus*), version 2.0. In The Birds of North America (A. F. Poole and F. B. Gill, Editors). Cornell Lab of Ornithology, Ithaca, NY, USA. Retrieved from: <https://doi.org/10.2173/bna.517>

Photo 1

Date & Time: Fri, Apr 26, 2019, 07:10:04 PDT
 Position: 033.806905°N / 117.985067°W
 Altitude: 87ft
 Datum: WGS-84
 Azimuth/Bearing: 263° S83W 4676mils (True)
 Elevation Angle: +33.9°
 Horizon Angle: -01.8°
 Zoom: 1X



Location	SERC – Eastern Parcel	Description	View southwest from eastern portion of the Eastern Parcel at excavator loading dump truck with spoils to be hauled offsite.
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Photo 2

Date & Time: Fri, Apr 26, 2019, 07:53:14 PDT
 Position: 033.806790°N / 117.987373°W
 Altitude: 77ft
 Datum: WGS-84
 Azimuth/Bearing: 055° N55E 0978mils (True)
 Elevation Angle: +29.6°
 Horizon Angle: -01.6°
 Zoom: 1X



Location	SERC – Western Parcel	Description	View east-southeast from eastern portion of the Western Parcel at forklift offloading rebar from delivery truck.
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Photo 3



Location	SERC – Eastern Parcel	Description	View north from central portion of the Eastern Parcel at killdeer nest with adult in incubating posture. Eggs should be approaching hatch date.
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Photo 4



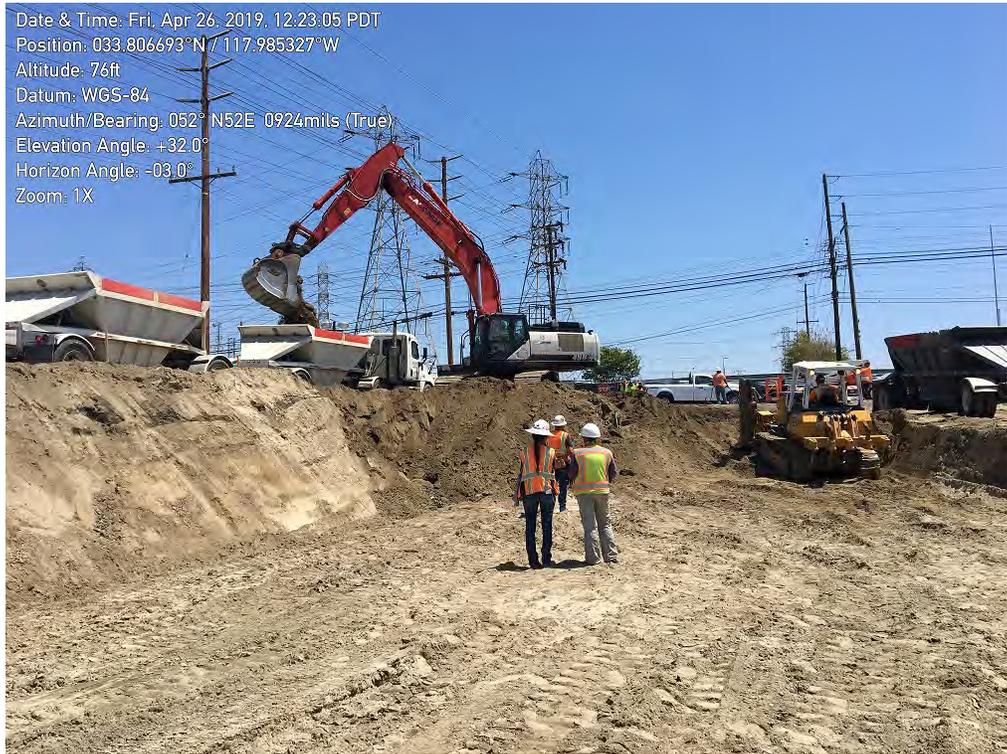
Location	SERC – Western Parcel	Description	View southwest from eastern portion of the Western Parcel at contractors working on water de-mineralization system master control foundation.
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Photo 5



Location	SERC – Eastern Parcel	Description	View east-southeast from central portion of the Eastern Parcel at trench-boxes in place for ongoing construction of ductwork.
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Photo 6



Location	SERC – Eastern Parcel	Description	View northeast from eastern portion of the Eastern Parcel at excavator, dump trucks, bulldozer, and archeological and paleontological monitors at work following resumption of Parcel excavation.
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Photo 7

Date & Time: Fri, Apr 26, 2019, 12:38:31 PDT
 Position: 033.806712°N / 117.985057°W
 Altitude: 66ft
 Datum: WGS-84
 Azimuth/Bearing: 326° N34W 5796mils (True)
 Elevation Angle: +29.5°
 Horizon Angle: -02.7°
 Zoom: 1X



Location	SERC – Eastern Parcel	Description	View west from eastern portion of the Eastern Parcel at forklift carrying trench-box for ongoing ductwork construction along the southern perimeter of the Parcel.
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Photo 8

Date & Time: Fri, Apr 26, 2019, 12:42:19 PDT
 Position: 033.806610°N / 117.987074°W
 Altitude: 75ft
 Datum: WGS-84
 Azimuth/Bearing: 048° N48E 0853mils (True)
 Elevation Angle: +28.7°
 Horizon Angle: -03.5°
 Zoom: 1X



Location	SERC – Eastern Parcel	Description	View northwest from western portion of the Eastern Parcel at ongoing construction of forms for utility rack foundations.
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Stanton Energy Reliability Center (SERC)

BIOLOGICAL RESOURCES COMPLIANCE MONITORING LOG

Date	Monitor			Time (Begin-End)
April 29, 2019	Ken Levenstein			06:30 - 15:00
Temperature (°F)	Wind (mph)	Precipitation amount	Visibility	Weather Comment
57 - 68	0 – 7 SW	0.125 inches	Good	Cloudy
Location(s) of Work Site Activities Monitored				
<p>SERC – Bio-monitoring during Project construction.</p> <p>Western Parcel – Bio-monitored. Checked for potential bird/wildlife/Project interactions, compliance with COCs, SWPPP, receiving of construction materials, work on water de-mineralization system master control foundation, reporting (see Photos in Photo Log).</p> <p>Eastern Parcel – Bio-monitored. Monitored the off-site active nest for signs of disturbance and checked that buffer flagging and signage were in place. Checked for potential bird/wildlife/Project interactions, compliance with COCs, SWPPP, hauling spoils offsite, Parcel excavation, ongoing activities related to construction of the vehicle bridge, ductwork, ammonia tank, and utility rack and transformer foundations, reporting (see Photos in Photo Log).</p> <p>Church Parking Lot – Bio-monitored. Surveyed church parking lot and surrounding area (as accessible) for nesting activity.</p>				
Summary of Biological Resources Monitoring Observations				
<p>Bio-monitoring for special status species, nesting birds, fossorial mammals, and other wildlife.</p> <p>Special-Status Species Observed:</p> <ul style="list-style-type: none"> • None <p>Nesting Bird Observations:</p> <ul style="list-style-type: none"> • A killdeer (<i>Charadrius vociferus</i>) nest is present on SCE property north of the Eastern Parcel. The nesting pair shows no sign of disturbance due to construction activities. Nest was first verified on April 4th and on that date had four eggs being incubated by one of the adults. Eggs should be approaching hatch date if fertile as incubation typically lasts approximately 23 – 29 days (Jackson and Jackson, 2000). <p>Other Biological Resources Observations:</p> <ul style="list-style-type: none"> • None <p>Other Observations/Comments:</p> <ul style="list-style-type: none"> • No project personnel/equipment-wildlife interactions occurred. 				
Items Requiring Action/Follow-up				
<ul style="list-style-type: none"> • No specific items to follow up on. Monitoring of work will continue during Project construction activities. 				
Wildlife Species Observed:				
<p>Birds: killdeer, red-tailed hawk (<i>Buteo jamaicensis</i>), Eurasian collared dove (<i>Streptopelia decaocto</i>), mourning dove (<i>Zenaida macroura</i>), rock pigeon (<i>Columba livia</i>), Cassin’s kingbird (<i>Tyrannus vociferans</i>), barn swallow (<i>Hirundo rustica</i>), northern mockingbird (<i>Mimus polyglottos</i>), European starling (<i>Sturnus vulgaris</i>), house finch (<i>Haemorhous mexicanus</i>), house sparrow (<i>Passer domesticus</i>).</p>				

Literature Cited

Jackson, B. J. and J. A. Jackson. 2000. Killdeer (*Charadrius vociferus*), version 2.0. In The Birds of North America (A. F. Poole and F. B. Gill, Editors). Cornell Lab of Ornithology, Ithaca, NY, USA. Retrieved from: <https://doi.org/10.2173/bna.517>

Photo 1



Location	SERC – Eastern Parcel	Description	View west from eastern portion of the Eastern Parcel at trench boxes in place for ongoing ductwork construction.
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Photo 2



Location	SERC – Eastern Parcel	Description	View southwest from central portion of the Eastern Parcel at ongoing ductwork construction.
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Photo 3



Location	SERC – Eastern Parcel	Description	View west from western portion of the Eastern Parcel at ongoing addition of rebar for reinforcement of concrete transformer foundation.
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Photo 4



Location	SERC – Eastern Parcel	Description	View southeast from western portion of the Eastern Parcel at pouring of slurry in area surrounding ammonia sump tank foundation.
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Photo 5



Date & Time: Mon, Apr 29, 2019, 12:33:00 PDT
 Position: 033.806868° N / 117.985302° W
 Altitude: 66ft
 Datum: WGS-84
 Azimuth/Bearing: 060° N60E 1067mils (True)
 Elevation Angle: +32.0°
 Horizon Angle: -02.1°
 Zoom: 1X

Location	SERC – Eastern Parcel	Description	View east from central portion of the Eastern Parcel at ongoing Parcel excavation and removal of spoils.
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Photo 6



Date & Time: Mon, Apr 29, 2019, 13:14:47 PDT
 Position: 033.806709° N / 117.987122° W
 Altitude: 67ft
 Datum: WGS-84
 Azimuth/Bearing: 321° N39W 5707mils (True)
 Elevation Angle: +23.6°
 Horizon Angle: -03.0°
 Zoom: 1X

Location	SERC – Western Parcel	Description	View west from eastern portion of the Western Parcel at excavation for water de-mineralization master control unit foundation. Wildlife exit ramp from trench is visible at right center of photo.
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Stanton Energy Reliability Center (SERC)

BIOLOGICAL RESOURCES COMPLIANCE MONITORING LOG

Date	Monitor			Time (Begin-End)
April 30, 2019	Ken Levenstein			06:30 - 15:00
Temperature (°F)	Wind (mph)	Precipitation amount	Visibility	Weather Comment
59 - 66	0 – 6 SW	0	Good	Cloudy, very light rain shower in morning
Location(s) of Work Site Activities Monitored				
<p>SERC – Bio-monitoring during Project construction.</p> <p>Western Parcel – Bio-monitored. Checked for potential bird/wildlife/Project interactions, compliance with COCs, SWPPP, receiving of construction materials, work on vehicle bridge and water de-mineralization system master control foundation, reporting (see Photos in Photo Log).</p> <p>Eastern Parcel – Bio-monitored. Monitored the off-site active nest for signs of disturbance and checked that buffer flagging and signage were in place. Checked for potential bird/wildlife/Project interactions, compliance with COCs, SWPPP, hauling spoils offsite, Parcel excavation, ongoing activities related to construction of the vehicle bridge, ductwork, ammonia tank, and utility rack and transformer foundations, reporting (see Photos in Photo Log).</p> <p>Church Parking Lot – Bio-monitored. Surveyed church parking lot and surrounding area (as accessible) for nesting activity.</p>				
Summary of Biological Resources Monitoring Observations				
<p>Bio-monitoring for special status species, nesting birds, fossorial mammals, and other wildlife.</p> <p>Special-Status Species Observed:</p> <ul style="list-style-type: none"> • None <p>Nesting Bird Observations:</p> <ul style="list-style-type: none"> • killdeer (<i>Charadrius vociferus</i>) eggs hatched and four young being attended by adults. The nesting pair shows no sign of disturbance due to construction activities. Nest was first verified on April 4th and on that date had four eggs being incubated by one of the adults. <p>Other Biological Resources Observations:</p> <ul style="list-style-type: none"> • None <p>Other Observations/Comments:</p> <ul style="list-style-type: none"> • No project personnel/equipment-wildlife interactions occurred. 				
Items Requiring Action/Follow-up				
<ul style="list-style-type: none"> • No specific items to follow up on. Monitoring of work will continue during Project construction activities. 				
Wildlife Species Observed:				
<p>Birds: killdeer, red-tailed hawk (<i>Buteo jamaicensis</i>), Eurasian collared dove (<i>Streptopelia decaocto</i>), mourning dove (<i>Zenaida macroura</i>), rock pigeon (<i>Columba livia</i>), black phoebe (<i>Sayornis nigricans</i>), Cassin’s kingbird (<i>Tyrannus vociferans</i>), common raven (<i>Corvus corax</i>), cliff swallow (<i>Petrochelidon pyrrhonota</i>), barn swallow (<i>Hirundo rustica</i>), northern mockingbird (<i>Mimus polyglottos</i>), European starling (<i>Sturnus vulgaris</i>), Bullock’s oriole (<i>Icterus bullockii</i>), house finch (<i>Haemorhous mexicanus</i>), house sparrow (<i>Passer domesticus</i>).</p>				

Photo 1



Location

SERC – SCE Parcel north of Eastern Parcel

Description

View north from central portion of the Eastern Parcel at killdeer adult and three of four young visible within red oval. Young are precocial (i.e., downy and active), capable of leaving nest soon after down dries.

Photo 2



Location

SERC – SCE Parcel north of Eastern Parcel

Description

Same photo as previous. Wider view north from central portion of the Eastern Parcel at killdeer adult and three of four young visible at left and second adult visible at right.

Photo 3



Location	SERC – SCE Parcel north of Eastern Parcel	Description	Same photo as two previous photos. Wider view north from central portion of the Eastern Parcel at area on SCE Parcel where killdeer adults and young were seen by biologist after eggs hatched.
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Photo 4



Location	SERC – Eastern Parcel	Description	View northwest from eastern portion of the Eastern Parcel at ongoing and almost completed Parcel excavation.
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Photo 5



Location	SERC – Eastern Parcel	Description	View southeast from central portion of the Eastern Parcel at ongoing ductwork construction.
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Photo 6



Location	SERC – Eastern Parcel	Description	View southwest from central portion of the Eastern Parcel at ongoing ductwork construction.
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Appendix C Wildlife Species List

**Observed Wildlife Species List
April 1 - April 30, 2019
Stanton Energy Reliability Center**

Common Name	Scientific Name	Status Federal/State/Other
Birds		
American crow	<i>Corvus brachyrhynchos</i>	--/--/--
American kestrel	<i>Falco sparverius</i>	--/--/--
Barn swallow	<i>Hirundo rustica</i>	--/--/--
Black phoebe	<i>Sayornis nigricans</i>	--/--/--
Bullock's oriole	<i>(Icterus bullockii)</i>	--/--/--
Cassin's kingbird	<i>Tyrannus vociferans</i>	--/--/--
Cliff swallow	<i>(Petrochelidon pyrrhonota)</i>	--/--/--
Common raven	<i>Corvus corax</i>	--/--/--
Eurasian collared dove	<i>Streptopelia decaocto</i>	--/--/NP
European starling	<i>Sturnus vulgaris</i>	--/--/NP
Great blue heron	<i>Ardea herodias</i>	--/--/--
House finch	<i>Haemorhous mexicanus</i>	--/--/--
House sparrow	<i>Passer domesticus</i>	--/--/NP
Killdeer	<i>Charadrius vociferus</i>	--/--/--
Lesser goldfinch	<i>Spinus psaltria</i>	--/--/--
Mourning dove	<i>Zenaida macroura</i>	--/--/--
Northern mockingbird	<i>Mimus polyglottos</i>	--/--/--
Red-tailed hawk	<i>Buteo jamaicensis</i>	--/--/--
Rock pigeon	<i>Columba livia</i>	--/--/NP
Scaly-breasted munia	<i>Lonchura punctulate</i>	--/--/NP
Vesper sparrow	<i>Pooecetes gramineus</i>	--/--/--
Western gull	<i>Larus occidentalis</i>	--/--/--
Western kingbird	<i>Tyrannus verticalis</i>	--/--/--
Western meadowlark	<i>Sturnella neglecta</i>	--/--/--

Status Codes:

If status codes are not provided, the species is not a special-status species.

Federal:

FE = Federally listed Endangered: species in danger of extinction throughout a significant portion of its range

FT = Federally listed Threatened: species likely to become endangered within the foreseeable future

BCC = Birds of Conservation Concern

State:

SE = State listed as Endangered

ST = State listed as Threatened

FP = Fully Protected

SSC = Species of Special Concern - Species of special concern to California Department of Fish and Wildlife (CDFW) due to declining population levels, limited ranges, and/or continuing threats have made them vulnerable to extinction.

S = Sensitive

WL = Watch List

SP = Special Animals List

Other:

Bureau of Land Management (BLM), United States Department of Interior - Sensitive (S)

California Department of Forestry and Fire Protection (CDF) classifies "sensitive species" as those species that warrant special protection during timber operations.

United States Forest Service (USFS) - Sensitive (S)

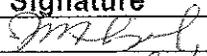
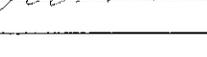
NP = Not Protected (Introduced Species)

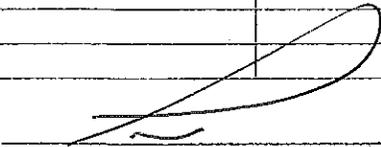
Appendix D
WEAP Training Logs

Certification of Completion of Worker Environmental Awareness Education Program

Stanton Energy Reliability Center (SERC) Project, Orange County, California
Cultural, Paleontological, and Biological Resources Education Program Verification
All On-Site Employees

This is to certify the below-mentioned individuals have completed a mandatory California Energy Commission-approved Cultural, Paleontological, and Biological Resources Education (Environmental Awareness) Program for Employees on site at the SERC Project. By signing below, the participants indicate that they understand and shall abide by the guidelines set forth in the Program materials.

No.	Employee Name	Company	Signature	Date
1.	JESUS MADRIGAL	ALCORN FENCE		4/2/19
2.	JOSE IBARRA	ALCORN FENCE		4/2/19
3.	HARVEY	ORTEZ		4-2-19
4.	Hector Biscano	Alcorn		4/3/19
5.	ANTHONY SANDOVAL	NEUTRON		4-3-19
6.	Ricardo Alvarez	NEUTRON		4-3-19
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Trainer: TIM DRAPER Signature:  Date: 4/2/19

Certification of Completion of Worker Environmental Awareness Education Program

Stanton Energy Reliability Center (SERC) Project, Orange County, California
Cultural, Paleontological, and Biological Resources Education Program Verification
All On-Site Employees

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No.	Employee Name	Company	Signature	Date
1.	BOB DAVIS	ARB	<i>Robert Davis</i>	4/8/19
2.	Nick Seckington	ARB	<i>Nick Seckington</i>	4-8-19
3.	RIGGO JIMENEZ	ARB	<i>Riggo Jimenez</i>	04/05/19
4.	Matt Northrup	Newton	<i>Matt Northrup</i>	4/8/19
5.	William Thompson	Newton	<i>William Thompson</i>	4/8/19
6.	JACK MARTIN	ARB	<i>Jack Martin</i>	4-8-19
7.	Jaine Maldonado	ORTIZ	<i>Jaine Maldonado</i>	4-8-19
8.	CARMEN GRATIAS	WELHEAD	<i>Carmen Gratias</i>	4-8-19
9.	Jon Kim Bie	WELHEAD	<i>Jon Kim Bie</i>	11-8-14
10.	CADEN WENNER	NEUTRON	<i>Caden Wenner</i>	4/9/19
11.	Michael Todd	NEUTRON	<i>Michael Todd</i>	4/9/19
12.	KAM BISCARD	NEUTRON	<i>Kam Biscard</i>	04/09/19
13.	DAVID MOORE	NEUTRON	<i>David Moore</i>	4/10/19
14.	Raul Villarruel	CMC	<i>Raul Villarruel</i>	4-10/19
15.	Ezra Meza	CMC	<i>Ezra Meza</i>	4/10/19
16.	Hector Davalos	CMC	<i>Hector Davalos</i>	4/10/19
17.	Brett Braden	SAVALA	<i>Brett Braden</i>	4/10/19
18.	TANTE PRINCEWILL	Allied National	<i>Tante Princewill</i>	4/10/19
19.	VICTOR URIBE OR	ORTIZ	<i>Victor Uribe</i>	4/11/19
20.	Alfredo Garcia	ORTIZ	<i>Alfredo Garcia</i>	4/11/19
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Trainer: T. DRAPER Signature: *T. Draper* Date: 4/8/19

Certification of Completion of Worker Environmental Awareness Education Program

Stanton Energy Reliability Center (SERC) Project, Orange County, California
Cultural, Paleontological, and Biological Resources Education Program Verification
All On-Site Employees

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No.	Employee Name	Company	Signature	Date
1.	Francisco Sandoval		<i>[Signature]</i>	
2.	EDUARDO NEGRETE		E. Negrete	4-15-19
3.	Luis AGREDANO.	ORTIZ-LALONDE	Luis Ag	4-15-19
4.	THOMAS ALLEN	ABB	<i>[Signature]</i>	4-15-19
5.	Charlet Sparks	ARB	<i>[Signature]</i>	4-15-19
6.	Jose Pagan	ARB	<i>[Signature]</i>	4-16-19
7.	Jess Perce	ARB	<i>[Signature]</i>	4-17-19
8.	Dan Furlong	ARB	<i>[Signature]</i>	4-17-19
9.	Enrique Flores	BMD	<i>[Signature]</i>	4-17-19
10.	WILLIS COOPER	MAXIM	<i>[Signature]</i>	4-18-19
11.	Johnny Melendez	maxim	<i>[Signature]</i>	4-18-19
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Trainer: Tim DRAPER

Signature: _____

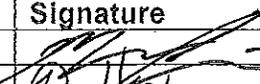
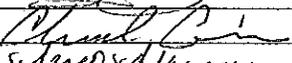
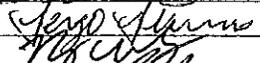
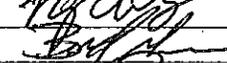
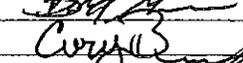
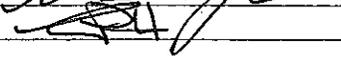
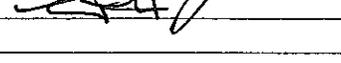
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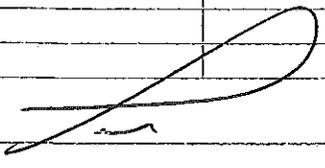
Date: 4/15/19

Certification of Completion of Worker Environmental Awareness Education Program

Stanton Energy Reliability Center (SERC) Project, Orange County, California
Cultural, Paleontological, and Biological Resources Education Program Verification
All On-Site Employees

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No.	Employee Name	Company	Signature	Date
1.	Marquell Kimbrick	ARB		4-22
2.	Dennis Hatterstedt	ARB		4-22-19
3.	JAMES TIFFIE	ARB		4-22-19
4.	Charlie Giovanni	MAXIM		4-23-19
5.	SERGIO GYERREDO	MAXIM		4-23-19
6.	Ramy Larson	MAXIM		4/23/19
7.	Bud Graves	RMMA		4/23/19
8.	Cory Braker	NVS		4-23-19
9.	Vic Geruber	NVS		4-25-19
10.	ED PUCETTI	NVS		4-25-19
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Trainer: T. DRAPER Signature:  Date: 4/22/19

Certification of Completion of Worker Environmental Awareness Education Program

Stanton Energy Reliability Center (SERC) Project, Orange County, California
Cultural, Paleontological, and Biological Resources Education Program Verification
All On-Site Employees

This is to certify the below-mentioned individuals have completed a mandatory California Energy Commission-approved Cultural, Paleontological, and Biological Resources Education (Environmental Awareness) Program for Employees on site at the SERC Project. By signing below, the participants indicate that they understand and shall abide by the guidelines set forth in the Program materials.

No.	Employee Name	Company	Signature	Date
1.	ADELIA BALCAZAR	ARB		04-29-19
2.	SHAWN ORR	ARB		4-29-19
3.	Jose Martinez	ARB		4-29-19
4.	Jose De Anda	ARB		4-29-19
5.	SCOTT CHAVERS	LABONDE/ORTIZ		4-29-19
6.	ANGEL ZUNIGA	ARB		5-10-19
7.	Alexandros Oativom	ARB		5-1-19
8.	Fernando De Anda	ARB		5-1-19
9.	JESUS DE ANDA	ARB		5-1-19
10.	Thomas Cendejas	NEUTRON		5-1-19
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Trainer: TIM DRAPER Signature: Date: 4/29/19

Attachment 5 – CIVIL

Attachment 5 has been deliberately left blank in this reporting period

Attachment 6 – Cultural Resources

2600 Michelson Drive, Suite 500
Irvine, CA 92612
United States
www.jacobs.com

**Subject Stanton Energy Reliability Center (16-AFC-1C)
 Cultural Resources Monthly Compliance Report
 April 2019**

To: Tim Bofman, SERC, LLC

From: Phil Reid, Jacobs
 SERC CEC Designated Cultural Resources Specialist

Date: May 2, 2019

Copies: Greg Lamberg, WPower, LLC
 Sharon Stureman, SERC, LLC
 Doug Davy, Jacobs
 Karen Parker, Jacobs

1. Introduction

This April 2019 Monthly Compliance Report (MCR) summarizes cultural resources monitoring activities conducted and documentation prepared from April 1 through April 30, 2019 at the Stanton Energy Reliability Center (SERC) (16-AFC-1C) site located at 10711 Dale Avenue, Stanton, Orange County, California. The MCR is prepared in accordance with the current (November 2018) Cultural Resources Mitigation and Monitoring Plan (CRMMP) and as required by Condition of Certification CUL-6.

2. Personnel Active in Cultural Monitoring This Period

Gena Granger participated as CRMs for this month. Robert Dorame served as Native American Monitor.

3. Number of CRMs and NAMs on a Daily Basis

Table 1 lists the number of CRMs and NAMs on a daily basis for this month.

Table 1. Number of CRMs and NAMs Present, by Date		
Date	CRMs	NAMs
4/1/19	1	1
4/2/19	1	1
4/3/19	1	1
4/4/19	1	1
4/5/19	1	1

Table 1. Number of CRMs and NAMs Present, by Date		
Date	CRMs	NAMs
4/8/19	1	1
4/9/19	1	1
4/10/19	1	1
4/11/19	1	1
4/12/19	1	1
4/15/19	1	1
4/16/19	1	1
4/17/19	1	1
4/18/19	1	1
4/19/19	1	1
4/22/19	1	1
4/23/19	1	1
4/24/19	1	1
4/25/19	1	1
4/26/19	1	1
4/29/19	1	1
4/30/19	1	1
Total CRM/NAM-Days	22	22

4. Overview of Monitoring Work and Any Issues

Project ground disturbance for this period began on Wednesday April 1, 2019. Activities monitored included the mass grading of Parcels 1 and 2, and excavations for the installation of temporary power, bridge abutments on Parcels 1 and 2, duct banks, 15 kV tray, waterline repair and ground rod installation. The grading and excavations occurred to depths of 5 to 10 feet. Observed fill soils included medium brown silty sand with various unsorted gravels to depth in some locations. Potentially intact native soils were observed in the deeper parts of the abutment excavation on Parcel 1 beginning at approximately 5 feet, and approximately 3 feet in the abutment of Parcel 2. Potential native soils were described as light brown sandy loam with some oxidized streaking. There were no cultural resources finds this month. There were no cultural resource issues this month.

5. Fulfillment Requirements of Each Cultural Resources Mitigation Measure

Table 2 describes the fulfillment requirements of each cultural resources mitigation measure (Condition of Certification) and lists the state of compliance with the measure. For complete text of the measures, please see the Commission Decision.

Table 2. Fulfillment Requirements of Each Cultural Resources Mitigation Measure		
Measure	Requirements	State of Compliance
CUL-1: Appointment and Qualifications of Cultural Resources Personnel	<ul style="list-style-type: none"> Owner must appoint a designated Cultural Resources Specialist (CRS) and Alternate CRSs. CRS will manage monitoring and reporting and 	<p>In compliance</p> <ul style="list-style-type: none"> Owner has appointed CRS and Alternate CRS. CRS is directing monitoring and

SERC Monthly Compliance Report for Cultural Resources – April 2019

Table 2. Fulfillment Requirements of Each Cultural Resources Mitigation Measure		
Measure	Requirements	State of Compliance
	<p>make recommendations regarding eligibility of finds for California Register of Historical Resources</p> <ul style="list-style-type: none"> • CRS may obtain services of Cultural Resources Monitors (CRMs) and Native American Monitors (NAMs) • CRS may obtain services of additional technical specialists as needed. 	<p>has made recommendations on eligibility of two finds this month.</p> <ul style="list-style-type: none"> • CRS has obtained services of CRMs and NAMs • No additional technical specialists have been required
CUL-2: Information to be Provided to CRS	<ul style="list-style-type: none"> • Owner must provide CRS with project information including the Application for Certification, cultural resources reports, data request responses, Final Staff Assessment, and Commission Decision, and project designs and maps. • Owner must provide CRS with a weekly construction schedule • Owner must notify CRS of any changes to construction phases. 	<p>In compliance</p> <ul style="list-style-type: none"> • Owner has provided CRS with project information and maps • Owner provides three-week lookahead schedule weekly • There have been no changes to the construction phases.
CUL-3: Cultural Resources Mitigation and Monitoring Plan (CRMMP)	<ul style="list-style-type: none"> • The CRS must prepare a CRMMP, including a research design, implementation schedule, identification of cultural resources personnel, plan for Native American participation, description of impact avoidance measures, plan for curation, and LORS compliance plan for human remains. 	<p>In compliance</p> <ul style="list-style-type: none"> • The CRMMP has been prepared and approved by the CPM
CUL-4: Final Cultural Resources Report	<p>The CRS must prepare a final Cultural Resources Report after construction is complete summarizing all field activities and including copies of all DPR forms and cultural resources reports associated with project construction.</p>	<p>Not applicable – construction is not completed.</p>
CUL-5: Cultural Resources Worker Environmental Awareness Program (WEAP)	<ul style="list-style-type: none"> • The CRS must prepare a WEAP training module and brochure describing the potential for cultural resources discovery, procedures to follow in case of emergency discovery, and penalties for non-compliance. • All workers must receive the training during their first week on on-site employment and must sign a sheet documenting that they have received the training 	<p>In compliance</p> <ul style="list-style-type: none"> • All workers on site have viewed the video/PowerPoint training and signed the documentation sheet (found in the Biological Resources Compliance report).
CUL-6: Cultural Resources Monitoring	<ul style="list-style-type: none"> • The CRS, Alt CRS, or CRMs must be onsite to monitor ground disturbance in native (non-fill) soils. • The CRS must obtain the services of a NAM to monitor ground disturbance in non-fill sediments. • CRMs and NAMs must prepare a daily field report, to be submitted daily by the CRS. • The CRS must prepare a Monthly Compliance Report summarizing activities of CRS, CRMs, and NAMs. • The CRS must report incidents of non-compliance with LORS 	<p>In compliance</p> <ul style="list-style-type: none"> • The CRS or CRM has monitored ground disturbance. • A NAM monitored ground disturbance • The CRS has submitted the daily field reports • The CRS has prepared this Monthly Compliance Report • There have been no incidents of non-compliance with LORS
CUL-7: Powers of CRS/Cultural Resources	<ul style="list-style-type: none"> • The CRS has authority to halt construction in the event of a cultural resource find 	<p>In compliance</p> <ul style="list-style-type: none"> • There were no cultural resources finds

Table 2. Fulfillment Requirements of Each Cultural Resources Mitigation Measure		
Measure	Requirements	State of Compliance
Discovery Protocol	<ul style="list-style-type: none"> The CRS or CRM must record the find on Form DPR-523 and notify the CPM If human remains are found, the CRS must notify the Native American Heritage Commission. If the find would be of interest to Native Americans, the CRS must notify Native American groups that have expressed an interest in notification. 	<p>this month.</p> <ul style="list-style-type: none"> There were no finds this month No human remains have been found No finds of interest to Native Americans have been made
CUL-8: Fill Soils	If the project will use fill from a non-commercial borrow site or deposit sediments in a non-commercial fill site, the CRS must conduct a pre-construction cultural resources survey of the site.	A new location for soil disposal was identified. A cultural resources survey of this area was conducted on 4-23-2019 by the Alternative CRS and reported to the CEC.

6. Summary of the Confidential Appendix – Finds Made this Period

No cultural resources discoveries were made during monitoring activities this month.

7. Concordance Table of Artifacts

No concordance table of artifacts is needed for this month because no finds were made, and no artifacts were collected.

8. WEAP Training This Period

All on-site staff received cultural resources Worker Environmental Awareness Program (WEAP) training prior to starting work on site this month. From the April 1 through April 30, 2019, a total of 57 persons completed the SERC WEAP training. The hardcopy sign-in training logs for the April 2019 reporting period are included the Biological Resources Monthly Compliance Report.

9. Anticipated Changes in the Next Period

Installation and maintenance of site BMPs, facilities footings and grounding grid excavations will continue in the following month. A CRM will be on site to monitoring and respond to discoveries if they occur.

10. Comments, Issues or Concerns

On 4/23/19 the CRS surveyed an additional soil disposal area located at 15000 Kensington Park Drive in Tustin California (APN 430-451-12). The area consisted of a 420-foot by 250-foot (2.4-acre) empty lot that is bounded by paved parking lots on the southwest northeast and northwest and by Tustin Ranch Road on the southeast. Ground visibility was approximately 85 percent. No cultural resources were observed during the survey. A full report of the survey is attached as Appendix A.

Appendix A
Cultural Resources Survey of Alternate
Soil Disposal Site



Date: April 27, 2019

Subject: Stanton Energy Reliability Center (16-AFC-01)
CUL -8 Cultural Resources Pedestrian Survey at Kensington Park Site

From: Phillip Reid, Jacobs, SERC Cultural Resources Specialist

To: Doug Davy, Jacobs

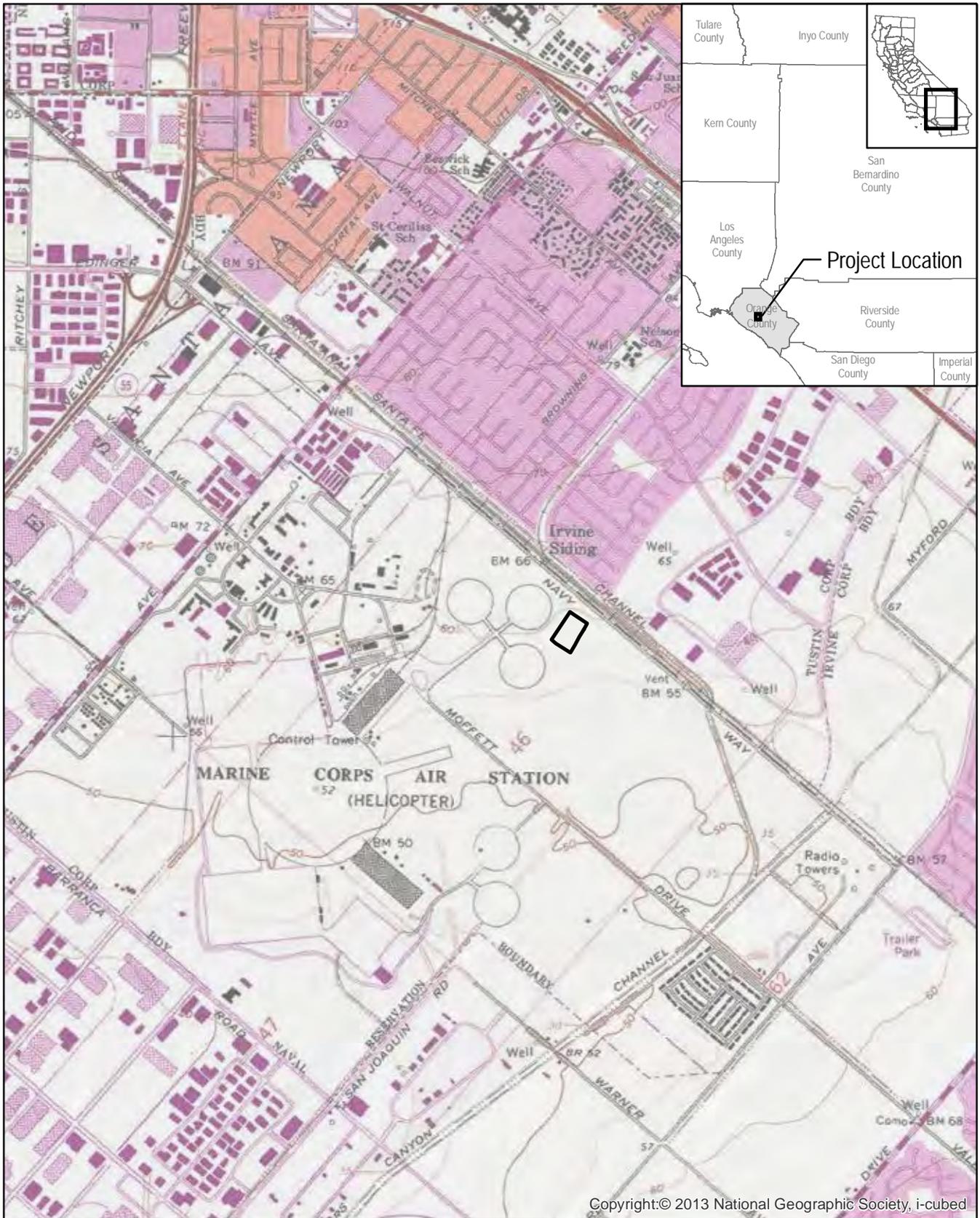
This memorandum report summarizes the Cultural Resources pedestrian survey at the Kensington Park over-excavation soil disposal Site undertaken by Secretary of the Interior- (SOI-) qualified archaeologist Phillip Reid on April 23, 2019 for the Stanton Energy Reliability Center (SERC) (16-AFC-01). The survey was undertaken in compliance with SERC Condition of Certification CUL-8. SERC project owner Stanton Energy Reliability Center, LLC (SERC, LLC) proposes to dispose of over-excavation soils at Kensington Park site located at 15000 Kensington Park Drive in Tustin California (APN 430-451-12) (Figure 1). The disposal site area consists of a 420-foot by 250-foot (2.4-acre) vacant lot that is bounded by paved parking lots on the southwest northeast and northwest and by Tustin Ranch Road on the southeast.

Field Methods:

Prior to performing the pedestrian survey, historic maps and aerials of the project site were reviewed. The project site was surveyed by walking closely spaced transects (approximately 10 meters apart) in the across the project site. All exposed dirt areas were inspected closely for archaeological features and artifacts, and representative photographs documenting the current condition of the project site were taken.

Results:

The project site is heavily disturbed and located within a new mixed use (residential-retail) development area. The site is currently an active construction area surrounded on three sides by recently constructed parking lots and retail spaces and bounded on one side by the Tustin Ranch Road embankment (photo 2). A review of aerial photographs shows that the site, until 2016, was a fallow field that was once part of the Marine Air Corps Station Tustin. The site is fully graded (photo 3). In the northeast portion of the site, a large excavation, possibly for building footings, was begun but has been abandoned (photo 1). The site is fenced off and graded. Ground surface visibility was approximately 85 percent. Observed soils were highly disturbed gray sandy loam. Modern trash and construction debris is visible throughout the site. The site was surveyed in its entirety. There are a few locations around the periphery of the site that were obscured by ruderal weeds and grasses (see photo 4). **No cultural resources were observed during the survey.**



LEGEND
 [Black Rectangle] Area Surveyed
 USGS Quadrangle: Tustin

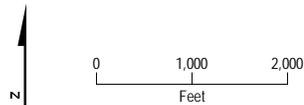


Figure 1
 Kensington Park Disposal Site
 Tustin, California



Photo 1: Looking northeast portion of site (showing active construction)



Photo 2: Looking northeast across fill dumping area



Photo 3: Looking east across northeastern portion of property



Photo 4: view of ground cover and modern trash facing southwest

Attachment 7 - Paleontology

**Monthly Report of Paleontological Resources Monitoring
Stanton Energy Reliability Center
Condition of Certification PAL-6**

Prepared For: Doug Davy, Program Manager
Karen Parker, Senior Project Manager

Prepared By: Niranjala Kottachchi, PRS

Reporting for Period: April, 2019

This report covers paleontological resources monitoring activities at the Stanton Energy Reliability Center Project for the month of April 2019, as required by Condition of Certification PAL-6.

Personnel Active in Paleontological Monitoring This Period

Jeanette Maldonado was the primary Paleontological Resources Monitor (PRM) for this month. Blake Bufford (PRM) assisted during the absence of the primary monitor.

Monitoring of construction activities at the Project site has been consistent throughout the month of April. Excavations continued in Parcel 1 in addition to activities in Parcel 2. Table 1 below depicts the activities which took place within each parcel, week by week. Daily monitoring logs are found in Attachment A.

Paleontological Resources Discoveries This Period

No paleontological resources were discovered during the month of April 2019.

Anticipated Work and/or Changes in the Next Period

Over-excavations will continue in Parcel 1.

Comments, Issues or Concerns

None to report.

Table 1. Monitoring and Associated Activities This Period

Week	Location	Activity	Stratigraphy	Paleontological Resources
1	Parcel 1	1. Grading for north road to 4 feet below ground surface (bgs) 2. Over-ex east of the ammonia pit down 6.5 feet bgs	1. Dark brown sandy loam 2. Upper 3-4 feet thick, disturbed, dark brown sandy loam followed by 2.5 feet of poorly indurated, sub-rounded, light gray to buff sand with orange/beige laminae staining. A dark gray silt was observed at the bottom of the grade	No paleontological resources were observed

Week	Location	Activity	Stratigraphy	Paleontological Resources
2	Parcel 1	<ol style="list-style-type: none"> 1. Over-ex in middle of parcel to a depth of 10 feet bgs. An additional foot was excavated to meet compaction. Excavations also took place for the 480V auxiliary transformer and grading for the 50kV conduit on the south end at the bottom of the cut 2. Augering to a depth of 4 feet for a temporary pole on the SE corner 3. Grading at 10 feet bgs for a ramp by the ammonia pit along with scraping side wall at about 12-foot depth 4. Excavations along south wall heading east from the ammonia pit for a conduit to a depth of 10 feet bgs 	<ol style="list-style-type: none"> 1. Upper 4 feet was disturbed, dark brown sandy loam followed by poorly-indurated, light gray to buff sand with orange/beige laminae. At 8 feet bgs, a dark gray silt was present at the bottom of the grade. 2. Same stratigraphy as above 3. Same stratigraphy as above 4. Same stratigraphy as above 	No paleontological resources were observed
2	Parcel 2	<ol style="list-style-type: none"> 1. Grading and cutting into side wall with shovel for footing 	<ol style="list-style-type: none"> 1. Same stratigraphy as observed in Parcel 1 	No paleontological resources were observed
3	Parcel 1	<ol style="list-style-type: none"> 1. Excavation to lower the cut down to fill on south end near SE corner; approximately 8 feet bgs followed by grading to add base for compaction 2. Shallow excavation on east end to a depth of 2 feet for a temp electrical line running from the south to north end 	<ol style="list-style-type: none"> 1. Same stratigraphy as observed in Parcel 1 last week 2. Disturbed sediment 	No paleontological resources were observed
3	Parcel 2	<ol style="list-style-type: none"> 1. Excavation of a 20 x 1 x 3-foot-deep trench along the south side perimeter fence 	<ol style="list-style-type: none"> 1. Fill material consisting of concrete and wood possible from adjacent railroad 	No paleontological resources were observed
4	Parcel 1	<ol style="list-style-type: none"> 1. Excavations on west end by bridge footing to a depth of 3 feet bgs. Grading continued on east end at 8 feet bgs 2. Excavation of a 1-foot deep trench (starting at 7-8 feet bgs) for conduit installation along the south end of parcel running east. 3. Jackhammer was used to dig holes all along the perimeter of the parcel to a depth of 1-2 feet bgs for grounding rod installations 4. Mass excavation on east end to a depth of 6-8 feet bgs 	<ol style="list-style-type: none"> 1. Same stratigraphy as weeks 1 and 2 2. Same stratigraphy as weeks 1 and 2 3. Disturbed sediment was observed 4. Same stratigraphy as weeks 1 and 2 	No paleontological resources were observed
5	Parcel 1	<ol style="list-style-type: none"> 1. Mass excavation on east end continued to a depth of 10 feet bgs 	<ol style="list-style-type: none"> 1. Same stratigraphy as week 4 	No paleontological resources were discovered

Attachment A
Daily Monitoring Logs



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Paleontology

Date: 4/1/2019 10:40:02 AM

Project Location: Parcel 1 & 2

Weather:
82 sunny

Monitor(s): jmaldonado

Work Start Time: 0630

Work End Time: 1500

Construction Company: ARB and Ortiz

Contact(s): Tim Bofman

Did the (sub)contractors work more than 8 hours (Y/N)? Yes No

Was the Safety Briefing Attended/Signed: Yes No

Project Description:

N/A

Scope of Construction Work Monitored/Equipment Used:

N/A

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

None of excavations occurred today. Crews mainly back filled the West end portion of Parcel 1.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

N/A

Lithologic Description(s):

Observations of Paleontological Resources:

No paleontological resources were discovered today

Additional Comments:

Onsite on stand-by for any potential digging the crews said would occur.

Plan for tomorrow:

Export of stockpile is planned for tomorrow, which means over-ex is possible for tomorrow in Parcel 1.

Attachments (Y/N): Yes No

Photograph Record:



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Paleontology

Date: 4/2/2019 7:31:36 AM

Project Location: Parcel 1

Weather:

Partly cloudy 70

Monitor(s): jmaldonado

Work Start Time: 0630

Work End Time: 1500

Construction Company: Ortiz

Contact(s): Tim Bofman

Did the (sub)contractors work more than 8 hours (Y/N)?

Yes No

Was the Safety Briefing Attended/Signed:

Yes No

Project Description:

Parcel 1 North road

Scope of Construction Work Monitored/Equipment Used:

Skip loader and front loader

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

Grading for north road in parcel 1 down ~4' bgs.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Parcel 1 excavations showed a top layer of disturbed dark brown sandy loam roughly 3-4' thick

Lithologic Description(s):

Observations of Paleontological Resources:

No paleontological resources were discovered today

Additional Comments:

Stockpile was also mostly hauled off today.

Plan for tomorrow:

More of the stockpile will be hauled off. The north road will continue to be graded down. Over-ex of entire site is also probable.

Attachments (Y/N): Yes No

Photograph Record:



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Paleontology

Date: 4/3/2019 7:36:31 AM

Project Location: Parcel 1

Weather:

Partly cloudy 70 moderate winds

Monitor(s): jmaldonado

Work Start Time: 0630

Work End Time: 1500

Construction Company: Ortiz

Contact(s): Tim bofman

Did the (sub)contractors work more than 8 hours (Y/N)?

Yes No

Was the Safety Briefing Attended/Signed:

Yes No

Project Description:

Parcel 1 north road and over-ex

Scope of Construction Work Monitored/Equipment Used:

Skip loader and front loader; excavator

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

Ortiz crew used an excavator to continue over-ex of the site going east of the ammonia pit. Down to EL~63.5. They also excavated the north road down to about EL65

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Parcel 1 excavations showed a top layer of disturbed dark brown sandy loam roughly 3-4' thick, followed by a poorly-indurated, fine/moderately-sorted, sub-rounded, light gray to buff fine-med sand (quartz-rich) with orange/beige laminae staining exposed at ~4ft bgs. At just about 6.5'bgs a dark grey silt was exposed at the bottom of the grade.

Lithologic Description(s):

Observations of Paleontological Resources:

No paleontological resources were discovered today

Additional Comments:

None

Plan for tomorrow:

Excavations are to continue

Attachments (Y/N): Yes No

Photograph Record:

4/3/2019 7:46:15 AM



North road excavation down road to grade ~EL 62'



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Paleontology

Date: 4/4/2019 9:06:06 AM

Project Location: Parcel 1

Weather:

Partly cloudy 70; PM moderate winds

Monitor(s): jmaldonado

Work Start Time: 0630

Work End Time: 1530

Construction Company: Ortiz and ARB

Contact(s): Tim Bofman

Did the (sub)contractors work more than 8 hours (Y/N)?

Yes No

Was the Safety Briefing Attended/Signed:

Yes No

Project Description:

Parcel 1 east of ammonia pit

Scope of Construction Work Monitored/Equipment Used:

LaLonde excavator, Deere skip loader, CAT front loader

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

Ortiz crew used an excavator to continue over-ex of the site going east of the ammonia pit. Down to EL~63.5.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Parcel 1 excavations showed a top layer of disturbed dark brown sandy loam roughly 3-4' thick, followed by a poorly-indurated, fine/moderately-sorted, sub-rounded, light gray to buff fine-med sand (quartz-rich) with orange/beige laminae staining exposed at ~4ft bgs. At just about 8'bgs a dark grey silt was exposed at the bottom of the grade.

Lithologic Description(s):

Observations of Paleontological Resources:

No paleontological resources were discovered today

Additional Comments:

Gena and I had planned a staggered lunch to accommodate activities working through lunch time (ie excavations and hauling off of sediment). I found out from the Ortiz crew and operators that they were taking a break for lunch after all. Once us monitors were on break, Greg Lamberg informed us shortly after 11:30 that activities were indeed taking place during the lunch break. He accompanied us and told crew and foreman that the activity could not occur without the presence of a monitor: three haul trucks went off site with soil from the cut that was excavated without a

Plan for tomorrow:

Excavations are to continue tomorrow.

Attachments (Y/N): Yes No

Photograph Record:

4/4/2019 9:06:11 AM



Excavator taking another foot off the grade to meet compaction.



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Paleontology

Date: 4/5/2019 9:11:11 AM

Project Location: Parcel 1

Weather:
Partly cloudy 70

Monitor(s): jmaldonado

Work Start Time: 0630

Work End Time: 1500

Construction Company: Ortiz

Contact(s): Tim Bofman

Did the (sub)contractors work more than 8 hours (Y/N)? Yes No

Was the Safety Briefing Attended/Signed: Yes No

Project Description:

Parcel 1 over-ex located in the middle of the parcel

Scope of Construction Work Monitored/Equipment Used:

LaLonde excavator and haul trucks; skip loader

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

Ortiz crew used an excavator to continue over-ex of the site going east of the ammonia pit to a depth ~8-9'bgs. A skip loader was used to grade along the bottom of the cut.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Parcel 1 excavations showed a top layer of disturbed dark brown sandy loam roughly 3-4' thick, followed by a poorly-indurated, fine/moderately-sorted, sub-rounded, light gray to buff fine-med sand (quartz-rich) with orange/beige laminae staining exposed at ~4ft bgs. At just about 8'bgs a dark grey silt was exposed at the bottom of the grade.

Lithologic Description(s):

Observations of Paleontological Resources:

No paleontological resources were discovered today.

Additional Comments:

At the morning meeting, we informed Ortiz enterprises that we will no longer take staggered lunches and that a proper 30 minute lunch will be taken by all monitors. I contacted the PRS shortly after 12pm about who to contact onsite about receiving our state mandated breaks.

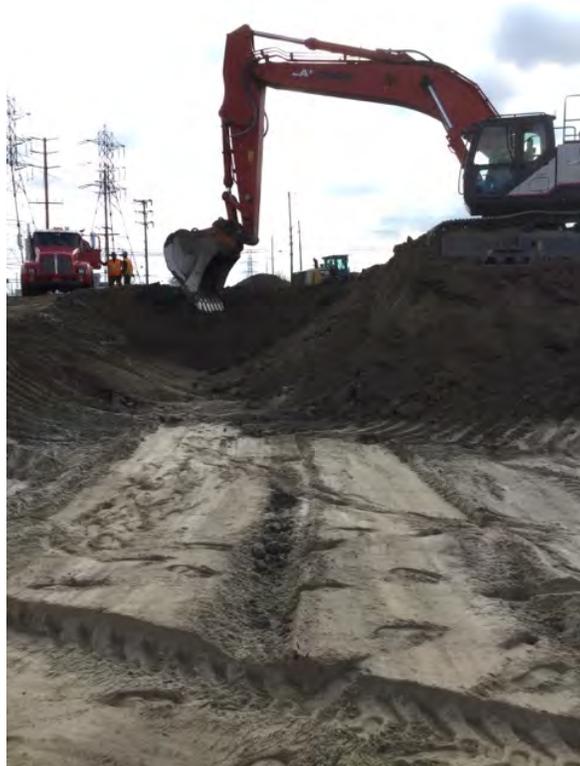
Plan for tomorrow:

Excavations will resume on Monday.

Attachments (Y/N): Yes No

Photograph Record:

4/5/2019 9:11:43 AM



Over-ex and hauling of parcel 1



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Reliability Center

Date: 4/8/2019 9:41:23 AM

Project Location: Parcel 1

Weather:

Hot and sunny 88

Monitor(s): jmaldonado

Work Start Time: 0630

Work End Time: 1500

Construction Company: Ortiz enterprises

Contact(s): Tim Bofman

Did the (sub)contractors work more than 8 hours (Y/N)? Yes No

Was the Safety Briefing Attended/Signed: Yes No

Project Description:

Parcel 1 over-ex located in the middle of the parcel; max depth ~10'bgs

Scope of Construction Work Monitored/Equipment Used:

LaLonde excavator; skip loader and front loader; haul trucks

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

Ortiz crew used an excavator to continue over-ex of the site going east from the middle of the site. A skip loader and front loader were used to grade along the bottom of the cut. ARB also churned the sediment for a 50kv conduit located at the south end at the bottom of the cut.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Parcel 1 excavations showed a top layer of disturbed dark brown sandy loam roughly 3-4' thick, followed by a poorly-indurated, fine/moderately-sorted, sub-rounded, light gray to buff fine-med sand (quartz-rich) with orange/beige laminae staining exposed at ~4ft bgs. At just about 8'bgs a dark grey silt was partially exposed at the bottom of the grade.

Lithologic Description(s):

Observations of Paleontological Resources:

No paleontological resources were discovered today

Additional Comments:

N/A

Plan for tomorrow:

No haul trucks tomorrow, importing base. Excavations to continue at the bottom of the cut.

Attachments (Y/N): Yes No

Photograph Record:

4/8/2019 10:44:35 AM

4/8/2019 1:36:51 PM

4/8/2019 2:30:13 PM



Excavator used during overex of parcel 1



ARB churning up sediment for conduit trench in order for it to dry out.



Ortiz taking the entire grade down another foot into the sandy clay unit



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Reliability Center

Date: 4/9/2019 9:04 AM

Project Location: Parcel 1

Weather:

Sunny 80 high winds

Monitor(s): jmaldonado

Work Start Time: 0630

Work End Time: 1500

Construction Company: Ortiz enterprises and ARB

Contact(s): Tim Bofman

Did the (sub)contractors work more than 8 hours (Y/N)?

Yes No

Was the Safety Briefing Attended/Signed:

Yes No

Project Description:

Parcel 1 over-ex located in the middle of the parcel; max depth ~10'bgs

Scope of Construction Work Monitored/Equipment Used:

LaLonde excavator; skip loader and front loader; haul trucks

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

Ortiz crew used an excavator to excavate another foot off th floor to meet compaction, going east from the middle of the site. The excavator was also used to excavate for the 480V auxiliary transformer. ARB also graded for the 50kv conduit located at the south end at the bottom of the cut.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Parcel 1 excavations showed a top layer of disturbed dark brown sandy loam roughly 3-4' thick, followed by a poorly-indurated, fine/moderately-sorted, sub-rounded, light gray to buff fine-med sand (quartz-rich) with orange/beige laminae staining exposed at ~4ft bgs. At just about 8'bgs a dark grey silty clay was exposed.

Lithologic Description(s):

Observations of Paleontological Resources:

No paleontological resources were discovered today

Additional Comments:

None

Plan for tomorrow:

Excavations will continue tomorrow.

Attachments (Y/N): Yes No

Photograph Record:

4/9/2019 9:09:54 AM

4/9/2019 9:49:49 AM



Excavator stockpiling sediment from cut, ~8bgs



Excavation for 480V Auxiliary transformer depth ~EL61'



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Reliability Center

Date: 4/10/2019 7:18:15 AM

Project Location: Parcel 1

Weather:

Sunny with high winds 75

Monitor(s): jmaldonado

Work Start Time: 0630

Work End Time: 1500

Construction Company: Ortiz enterprises, National

Contact(s): Tim Bofman

Did the (sub)contractors work more than 8 hours (Y/N)?

Yes No

Was the Safety Briefing Attended/Signed:

Yes No

Project Description:

Parcel 1 and Parcel 2

Scope of Construction Work Monitored/Equipment Used:

Front loader; auger; backhoe

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

Ortiz used a loader to grade down a ramp leading into the site in Parcel 1, about 2-6' bgs. National used a 1' auger to drill down 4' for a temporary pole at the SE corner of Parcel 1. ARB had other minor excavations throughout Parcel 1 & 2 which included grading and cutting into side wall with shovel for footing.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Parcel 1 excavations showed a top layer of disturbed dark brown sandy loam roughly 3-4' thick, followed by a poorly-indurated, fine/moderately-sorted, sub-rounded, light gray to buff fine-med sand (quartz-rich) with orange/beige laminae staining exposed at ~4ft bgs.

Lithologic Description(s):

Observations of Paleontological Resources:

No paleontological resources were discovered today.

Additional Comments:

Weekly safety meeting covered slips, trips, and falls.

Plan for tomorrow:

Excavations will continue tomorrow.

Attachments (Y/N): Yes No

Photograph Record:

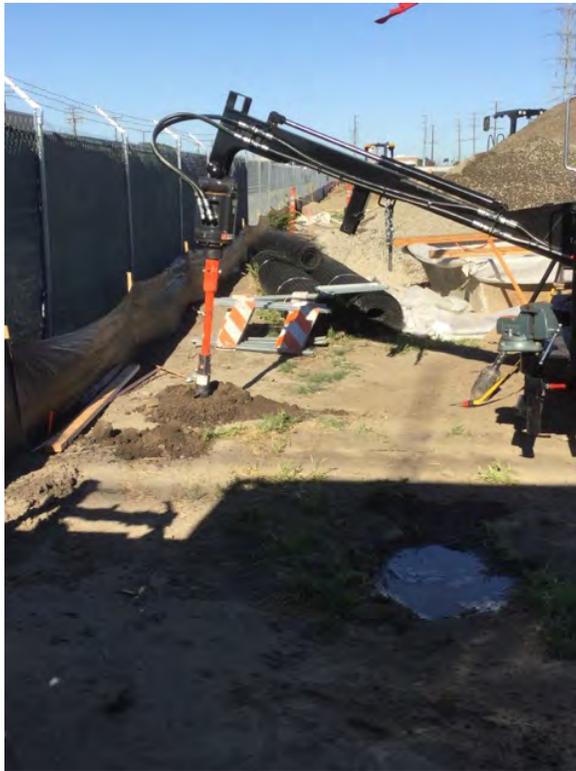
4/10/2019 7:18:41 AM

4/10/2019 8:34:52 AM

4/10/2019 12:48:59 PM



Loader cutting down ramp down into the site in Parcel 1



Auger used to drill 4' depth for temp pole installation



ARB excavating a mound in parcel 2 down to grade



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Reliability Center

Date: 4/11/2019 7:40:18 AM

Project Location: Parcel 2 and 1

Weather:
Overcast 79

Monitor(s): jmaldonado

Work Start Time: 0630

Work End Time: 1500

Construction Company: ARB and Ortiz enterprises

Contact(s): Tim Bofman

Did the (sub)contractors work more than 8 hours (Y/N)? Yes No

Was the Safety Briefing Attended/Signed: Yes No

Project Description:

Parcel 2 east end; Parcel 1 at the ammonia pit

Scope of Construction Work Monitored/Equipment Used:

Case backhoe; skip loader

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

ARB used a backhoe to grade down a mound of sediment in Parcel 2 to compact. Ortiz used a skip loader to grade at about 10' depth for a ramp down by the ammonia pit, and scraped the side wall at about 12' depth.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Parcel 1 excavations showed a top layer of disturbed dark brown sandy loam roughly 3-4' thick, followed by a poorly-indurated, fine/moderately-sorted, sub-rounded, light gray to buff fine-med sand (quartz-rich) with orange/beige laminae staining exposed at ~4ft bgs.

Lithologic Description(s):

Observations of Paleontological Resources:

No paleontological resources were discovered today

Additional Comments:

N/A

Plan for tomorrow:

Excavations will continue tomorrow.

Attachments (Y/N): Yes No

Photograph Record:

4/11/2019 7:40:24 AM



Continuation of grading down mound located at the east end of parcel 2



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Paleontology

Date: 4/12/2019 7:30:27 AM

Project Location: Parcel 1

Weather:

Sunny with moderate winds 75

Monitor(s): jmaldonado

Work Start Time: 0630

Work End Time: 1600

Construction Company: ARB and Ortiz

Contact(s): Tim Bofman

Did the (sub)contractors work more than 8 hours (Y/N)?

Yes No

Was the Safety Briefing Attended/Signed:

Yes No

Project Description:

Parcel 1 total depth of excavations were ~10'bgs

Scope of Construction Work Monitored/Equipment Used:

Backhoe; dozer and skip loader

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

ARB used a backhoe to excavate along the south wall of the parcel going east from the ammonia pit for a conduit. Ortiz used a dozer and skip loader to create 2 ramps which lead down into the cut.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Parcel 1 excavations showed a top layer of disturbed dark brown sandy loam roughly 3-4' thick, followed by a poorly-indurated, fine/moderately-sorted, sub-rounded, light gray to buff fine-med sand (quartz-rich) with orange/beige laminae staining exposed at ~4ft bgs. At just about 8'bgs a dark grey silty clay was exposed.

Lithologic Description(s):

Observations of Paleontological Resources:

No paleontological resources were discovered today

Additional Comments:

N/A

Plan for tomorrow:

Excavations are planned to continue on Monday.

Attachments (Y/N):

Yes No

Photograph Record:

4/12/2019 10:52:13 AM



Backhoe excavating down to EL63 for conduit installation



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Paleontology

Date: 4/15/2019 8:57:25 AM

Project Location: Parcel 1

Weather:
Partly cloudy 69

Monitor(s): jmaldonado

Work Start Time: 0630

Work End Time: 1500

Construction Company: Ortiz

Contact(s): Tim Bofman

Did the (sub)contractors work more than 8 hours (Y/N)? Yes No

Was the Safety Briefing Attended/Signed: Yes No

Project Description:

Parcel 1 South end near SE corner; max depth ~9-10'

Scope of Construction Work Monitored/Equipment Used:

Excavator

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

Excavator lowering the cut further down to fill with base and compact for haul trucks to eventually drive through.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Parcel 1 excavations showed a top layer of disturbed dark brown sandy loam roughly 3-4' thick, followed by a poorly-indurated, fine/moderately-sorted, sub-rounded, light gray to buff fine-med sand (quartz-rich) with orange/beige laminae staining exposed at ~4ft bgs. At just about 8'bgs a dark grey silty clay was exposed.

Lithologic Description(s):

Observations of Paleontological Resources:

No paleontological resources were discovered today

Additional Comments:

N/A

Plan for tomorrow:

Excavations are planned to continue tomorrow

Attachments (Y/N): Yes No

Photograph Record:

4/15/2019 10:33:12 AM



Excavator lowering the cut further down to EL~63, close to the south east corner of parcel 1



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Paleontology

Date: 4/16/2019 1:40:31 PM

Project Location: Parcel 1

Weather:

Cloudy 68

Monitor(s): jmaldonado

Work Start Time: 0630

Work End Time: 1500

Construction Company: Ortiz

Contact(s): Tim Bofman

Did the (sub)contractors work more than 8 hours (Y/N)?

Yes No

Was the Safety Briefing Attended/Signed:

Yes No

Project Description:

Parcel 1 grading ~6inches at around 8-10'bgs

Scope of Construction Work Monitored/Equipment Used:

Skip loader

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

A skip loader was used to grade sediment prior to adding base for compaction, just north of the ammonia pit

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Parcel 1 excavations were in the poorly-indurated, fine/moderately-sorted, sub-rounded, light gray to buff fine-med sand (quartz-rich) with orange/beige laminae staining.

Lithologic Description(s):

Observations of Paleontological Resources:

No paleontological resources were discovered today.

Additional Comments:

N/A

Plan for tomorrow:

Waiting for a dump site to be approved for hauling over-ex materials. Over-ex TBD. Other earth moving activities may occur tomorrow.

Attachments (Y/N):

Yes No

Photograph Record:



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Paleontology

Date: 4/17/2019 1:15:46 PM

Project Location: Parcel 1

Weather:

Sunny 79

Monitor(s): jmaldonado

Work Start Time: 0630

Work End Time: 1500

Construction Company: ARB

Contact(s): Tim Bofman

Did the (sub)contractors work more than 8 hours (Y/N)? Yes No

Was the Safety Briefing Attended/Signed: Yes No

Project Description:

Parcel 1 east end by entrance max depth ~2' bgs

Scope of Construction Work Monitored/Equipment Used:

Backhoe

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

Shallow excavation for a temp electrical line that runs from the south end to the north end

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

All excavations were within the top 3' of disturbed sediment.

Lithologic Description(s):

Observations of Paleontological Resources:

No paleontological resources were discovered today.

Additional Comments:

Safety meeting this morning covered the topic of spotters and blind spots.

Plan for tomorrow:

Excavations are planned for tomorrow.

Attachments (Y/N): Yes No

Photograph Record:



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Paleontology

Date: 4/18/2019 8:22:45 AM

Project Location: Stanton

Weather:
Clear, warm

Monitor(s): bbufford

Work Start Time: 6:30 am

Work End Time: 3:00 pm

Construction Company: ARB, Ortiz

Contact(s): Tim Boffman

Did the (sub)contractors work more than 8 hours (Y/N)? Yes No

Was the Safety Briefing Attended/Signed: Yes No

Project Description:

Parcel 1 and 2

Scope of Construction Work Monitored/Equipment Used:

Skip loader and backhoe.

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

Ortiz Construction spread out and consolidated sediment in parcel 1 with the skip loader and compacted it. In parcel 2 ARB excavated a 20' long by 1' wide by 3' deep trench along the south side perimeter fence. Spoils were stockpiled.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Sediment was light brown sand and silt in parcel 1. Sediment in parcel 2 was dark brown loamy silt fill material containing numerous pieces of concrete and rotten wood possibly from the adjacent railroad.

Lithologic Description(s):

Observations of Paleontological Resources:

No fossils were observed.

Additional Comments:

Construction was not delayed.

Plan for tomorrow:

Continue work.

Attachments (Y/N): Yes No

Photograph Record:

4/18/2019 9:30:04 AM

4/18/2019 1:22:16 PM



Dirt removal east of the Ammonia Pit.



Excavation in phase 2 southern perimeter.



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Paleontology

Date: 4/19/2019 10:05:36 AM

Project Location: Parcel 2

Weather:

Sunny 78

Monitor(s): jmaldonado

Work Start Time: 0630

Work End Time: 1500

Construction Company: ARB

Contact(s): Tim Bofman

Did the (sub)contractors work more than 8 hours (Y/N)?

Yes No

Was the Safety Briefing Attended/Signed:

Yes No

Project Description:

Parcel 2 max depth ~4ft bgs

Scope of Construction Work Monitored/Equipment Used:

Backhoe

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

ARB crew used a backhoe to excavate a trench at the southeast corner of Parcel 2 that ran along the fence line ~50'Lx3'W

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Parcel 2 excavations were within the top 3' of disturbed sediment, a silty loam containing pieces of concrete.

Lithologic Description(s):

Observations of Paleontological Resources:

No paleontological resources were discovered today.

Additional Comments:

N/A

Plan for tomorrow:

Excavations will resume on Monday.

Attachments (Y/N): Yes No

Photograph Record:



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Paleontology

Date: 4/22/2019 10:56:07 AM

Project Location: Parcel 1

Weather:
Partly cloudy 73

Monitor(s): jmaldonado

Work Start Time: 0630

Work End Time: 1500

Construction Company: ARB and Ortiz

Contact(s): Tim Bofman

Did the (sub)contractors work more than 8 hours (Y/N)? Yes No

Was the Safety Briefing Attended/Signed: Yes No

Project Description:

Parcel 1 west end by bridge footing ~3'bgs; Parcel 1 east end grading ~8'bgs

Scope of Construction Work Monitored/Equipment Used:

Backhoe; dozer

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

ARB used a backhoe to clear away sediment by the bridge footing. Ortiz used a dozer to grade down a path for trucks at the east end.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Parcel 1 excavations showed a top layer of disturbed dark brown sandy loam roughly 3-4' thick, followed by a poorly-indurated, fine/moderately-sorted, sub-rounded, light gray to buff fine-med sand (quartz-rich) with orange/beige laminae staining exposed at ~4ft bgs

Lithologic Description(s):

Observations of Paleontological Resources:

No paleontological resources were discovered today

Additional Comments:

N/A

Plan for tomorrow:

Excavations may continue tomorrow.

Attachments (Y/N): Yes No

Photograph Record:

4/22/2019 12:26:33 PM



Ortiz dozer creating a road at ~8' bgs



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Paleontology

Date: 4/23/2019 2:07:35 PM

Project Location: Parcel 1

Weather:

Sunny 80

Monitor(s): jmaldonado

Work Start Time: 0630

Work End Time: 1500

Construction Company: ARB

Contact(s): Tim Bofman

Did the (sub)contractors work more than 8 hours (Y/N)?

Yes No

Was the Safety Briefing Attended/Signed:

Yes No

Project Description:

Parcel 1 max depth ~9' bgs

Scope of Construction Work Monitored/Equipment Used:

Backhoe

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

ARB used a backhoe to excavate a trench for conduit installation along the south end of the parcel running east. Excavations started at ~7-8'bgs and went down about a foot in depth.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Excavations were within a poorly-indurated, fine/moderately-sorted, sub-rounded, light gray to buff fine-med sand. At the bottom of excavations a dark grey silty clay was exposed.

Lithologic Description(s):

Observations of Paleontological Resources:

No paleontological resources were discovered today.

Additional Comments:

N/A

Plan for tomorrow:

Excavations are planned for tomorrow.

Attachments (Y/N): Yes No

Photograph Record:

4/23/2019 2:14:10 PM

ARB digging trench for conduit along the south end of parcel 1



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Paleontology

Date: 4/24/2019 2:00:15 PM

Project Location: Parcel 1

Weather:

Sunny 78

Monitor(s): jmaldonado

Work Start Time: 0630

Work End Time: 1500

Construction Company: Newtron electric

Contact(s): Tim Bofman

Did the (sub)contractors work more than 8 hours (Y/N)?

Yes No

Was the Safety Briefing Attended/Signed:

Yes No

Project Description:

Parcel 1 around the perimeter max depth ~1-2' bgs

Scope of Construction Work Monitored/Equipment Used:

Shovels and jackhammer

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

Newtron electric dug holes all along the perimeter of parcel 1 for grounding rod installations.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Excavations were within the top 3' of disturbed sediment.

Lithologic Description(s):

Observations of Paleontological Resources:

No paleontological resources were discovered today.

Additional Comments:

N/A

Plan for tomorrow:

Mass excavations are planned to resume tomorrow.

Attachments (Y/N): Yes No

Photograph Record:



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Paleontology

Date: 4/25/2019 7:24:52 AM

Project Location: Parcel 1

Weather:

Sunny 80

Monitor(s): jmaldonado

Work Start Time: 0630

Work End Time: 1500

Construction Company: Ortiz enterprises

Contact(s): Tim Bofman

Did the (sub)contractors work more than 8 hours (Y/N)?

Yes No

Was the Safety Briefing Attended/Signed:

Yes No

Project Description:

Parcel 1 mass excavation

Scope of Construction Work Monitored/Equipment Used:

Excavator and haul trucks

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

Ortiz used an excavator to resume mass excavation of parcel 1 at the east end of the site. Max depth ~6-8' bgs

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Parcel 1 excavations showed a top layer of disturbed dark brown sandy loam roughly 3-4' thick, followed by a poorly-indurated, fine/moderately-sorted, sub-rounded, light gray to buff fine-med sand (quartz-rich) with orange/beige laminae staining exposed at ~4ft bgs

Lithologic Description(s):

Observations of Paleontological Resources:

No paleontological resources were discovered today.

Additional Comments:

None

Plan for tomorrow:

Excavations had to stop for today at 12:30pm due to the hydraulic hose of the excavator breaking. If fixed by tomorrow then excavations will resume.

Attachments (Y/N): Yes No

Photograph Record:

4/25/2019 9:30:10 AM



Mass excavation of east end of parcel 1



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Paleontology

Date: 4/26/2019 12:59:57 PM

Project Location: Parcel 1

Weather:

Sunny 74

Monitor(s): jmaldonado

Work Start Time: 0630

Work End Time: 1530

Construction Company: Ortiz

Contact(s): Tim Bofman

Did the (sub)contractors work more than 8 hours (Y/N)?

Yes No

Was the Safety Briefing Attended/Signed:

Yes No

Project Description:

Parcel 1 east end max depth ~8-9' bgs

Scope of Construction Work Monitored/Equipment Used:

Excavator, dozer, and skip loader

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

Ortiz used an excavator to mass excavate at the east end of the parcel.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Parcel 1 excavations showed a top layer of disturbed dark brown sandy loam roughly 3-4' thick, followed by a poorly-indurated, fine/moderately-sorted, sub-rounded, light gray to buff fine-med sand (quartz-rich) with orange/beige laminae staining exposed at ~4ft bgs. At just about 8'bgs a dark grey silty clay was exposed.

Lithologic Description(s):

Observations of Paleontological Resources:

No paleontological resources were discovered today.

Additional Comments:

None

Plan for tomorrow:

Excavations will resume on Monday.

Attachments (Y/N): Yes No

Photograph Record:

4/26/2019 1:00:23 PM



Excavator and dozer used for mass excavation



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Paleontology

Date: 4/29/2019 12:27:48 PM

Project Location: Parcel 1

Weather:

Cloudy; AM showers

Monitor(s): jmaldonado

Work Start Time: 0630

Work End Time: 1500

Construction Company: Ortiz

Contact(s): Tim Bofman

Did the (sub)contractors work more than 8 hours (Y/N)?

Yes No

Was the Safety Briefing Attended/Signed:

Yes No

Project Description:

Parcel 1 east end max depth ~10'

Scope of Construction Work Monitored/Equipment Used:

Excavator, dozer and skip loader

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

Ortiz crew used equipment to mass excavate at the east end of parcel 1.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Parcel 1 excavations showed a top layer of disturbed dark brown sandy loam roughly 3-4' thick, followed by a poorly-indurated, fine/moderately-sorted, sub-rounded, light gray to buff fine-med sand (quartz-rich) with orange/beige laminae staining exposed at ~4ft bgs. At just about 8'bgs a dark grey silty clay was exposed.

Lithologic Description(s):

Observations of Paleontological Resources:

No paleontological resources were discovered today

Additional Comments:

None

Plan for tomorrow:

Excavations will continue

Attachments (Y/N): Yes No

Photograph Record:

4/29/2019 12:27:54 PM



Excavator and dozer used for mass excavation



Daily Monitoring Report - Paleontology

Project Name: Stanton Energy Paleontology

Date: 4/30/2019 12:07:36 PM

Project Location: Parcel 1

Weather:

Cloudy; AM showers

Monitor(s): jmaldonado

Work Start Time: 0630

Work End Time: 1500

Construction Company: Ortiz

Contact(s): Tim Bofman

Did the (sub)contractors work more than 8 hours (Y/N)?

Yes No

Was the Safety Briefing Attended/Signed:

Yes No

Project Description:

Parcel 1 east end max depth ~10'

Scope of Construction Work Monitored/Equipment Used:

Excavator, dozer, and skip loader

Monitoring Methods (spot check, screening, bulk, sample collecting, etc):

Ortiz crew used equipment to mass excavate at the east end of parcel 1.

Approximate Dimensions of Construction Area Monitored/Survey Area:

Geologic Unit(s) Observed:

Parcel 1 excavations showed a top layer of disturbed dark brown sandy loam roughly 3-4' thick, followed by a poorly-indurated, fine/moderately-sorted, sub-rounded, light gray to buff fine-med sand (quartz-rich) with orange/beige laminae staining exposed at ~4ft bgs. At just about 8'bgs a dark grey silty clay was exposed.

Lithologic Description(s):

Observations of Paleontological Resources:

No paleontological resources were discovered today

Additional Comments:

None

Plan for tomorrow:

Excavations will continue tomorrow

Attachments (Y/N): Yes No

Photograph Record:

4/30/2019 2:16:41 PM



East end of excavations

Attachment 8 – ELEC-1

MEMORANDUM – DCBO APPROVAL

DATE: April 5, 2019

TO: Engineering Manager
Stanton Energy Reliability Center, LLC/W Power, LLC

FROM: Alan N. Vallow, P.E., Senior Electrical Engineer
NV5, Inc.
Alan.Vallow@nv5.com
209.329.0765

CC: Eric Rodriguez, Lead Engineer
NV5, Inc.

SUBMITTAL: SERC_16-AFC-01_ELEC-1-6.0_AG RCWY, LIGHTNING PROT, & SITE HAZ CLASS
PLANS_190322_PCF

MEMORANDUM:

This memorandum is to inform you that NV5, the Delegate CBO for the **STANTON ENERGY RELIABILITY CENTER (16-AFC-01)**, has reviewed the subject submittal, and deemed it compliant with the 2016 California Building Standards Code (CBSC) and applicable Laws, Ordinances, Regulations and Standards (LORS).

Should you have any questions or need additional information, please feel free to contact me.

SERC_16-AFC-01
--- REVIEWED ---
This review is intended only to verify conformity to the 2016 edition of the California Building Standards. It does not relieve Contractor and Applicant of responsibility for requirements of Project drawings and specifications. No responsibility is assumed for fabrication or construction techniques, correctness of quantities or dimensions, or coordination of work with other trades. Omissions & Errors on documents shall not be valid and all codes and Laws must be complied with.

Digitally signed
by Alan N.
Vallow, PE
Reason:
Reviewed For
Code Compliance
Date: 2019.04.05
11:25:26 -07'00'

MEMORANDUM – DCBO APPROVAL

DATE: April 16, 2019

TO: Engineering Manager
Stanton Energy Reliability Center, LLC/W Power, LLC

FROM: Alan N. Vallow, P.E., Senior Electrical Engineer
NV5, Inc.
Alan.Vallow@nv5.com
209.329.0765

CC: Eric Rodriguez, Lead Engineer
NV5, Inc.

SUBMITTAL: SERC_16-AFC-01_ELEC-1-10.0_66kV GRDNG PLAN, DTLS, RCWY, & CABLE
SCHED_190329_PCF

MEMORANDUM:

This memorandum is to inform you that NV5, the Delegate CBO for the **STANTON ENERGY RELIABILITY CENTER (16-AFC-01)**, has reviewed the subject submittal, and deemed it compliant with the 2016 California Building Standards Code (CBSC) and applicable Laws, Ordinances, Regulations and Standards (LORS).

Should you have any questions or need additional information, please feel free to contact me.

SERC_16-AFC-01
--- REVIEWED ---

This review is intended only to verify conformity to the 2016 edition of the California Building Standards. It does not relieve Contractor and Applicant of responsibility for requirements of Project drawings and specifications. No responsibility is assumed for fabrication or construction techniques, correctness of quantities or dimensions, or coordination of work with other trades. Omissions & Errors on documents shall not be valid and all codes and Laws must be complied with.

Digitally signed by
Alan N. Vallow, PE
Reason: Reviewed
For Code
Compliance
Date: 2019.04.16
16:55:13 -07'00'

Attachment 9 – GEN-2 Master Drawing List

Attachment 9 has been deliberately left blank in this reporting period

Attachment 10 – GEN-3 CBO Payment



Home Accounts Payments Transfers Check Services Tools

Timeout: 0:14:47

View US Wire

Use this page to view a US Wire

[Help](#)

[View Payment History](#)

Payment Information

Status	Confirmed
Confirmation Number	IMAD:0503L4874B1C000460
Payment Number	48942175
Debit Account	SERC OP - *****6538
Debit Amount	141,174.86 USD
Value Date	05/03/2019
Send Date	05/03/2019
Frequency	One-Time Only
Reference for Recipient	SERC
Details of Payment	Invoices# 119976 Project# 550818-0000020.00
Ordering Customer	

Recipient Information

Recipient	NVS Inc. Account Number [REDACTED] 200 S Park Road STE 350 Hollywood, FL 33021-8798
Recipient Bank	BANK OF AMERICA, N.A., NY ABA (Wire) 026009593 NEW YORK NY UNITED STATES

Options

[Intermediary Bank](#)

[Receiving Bank](#)

[Bank to Bank Information](#)

[Cancel](#)

Attachment 11 – GEN-6 Special Inspectors

Attachment 11 has been deliberately left blank in this reporting period

Attachment 12 – Gen-7 Discrepancy

<Attachment 12 has been deliberately left blank in this reporting period>

Attachment 13 – GEN-8 Final Inspections

< Attachment 13 has been deliberately left blank in this reporting period >

Attachment 14 – SOIL&WATER-4 Water Use

MONTHLY WATER USAGE LOG

April 2019

Meter 6917650, 10711 Dale Street, Stanton CA

Date	Reading	Usage CF
4/1/2019	10610	740
4/2/2019	11370	760
4/3/2019	12100	730
4/4/2019	12830	730
4/5/2019	13550	720
4/8/2019	14140	590
4/9/2019	14630	490
4/10/2019	15660	1030
4/11/2019	16280	620
4/12/2019	17020	740
4/15/2019	17770	750
4/16/2019	18520	750
4/17/2019	19250	730
4/18/2019	20170	920
4/19/2019	20680	510
4/22/2019	21060	380
4/23/2019	21110	50
4/24/2019	21370	260
4/25/2019	21770	400
4/26/2019	21830	60
4/29/2019	21840	10
4/30/2019	22510	670
Total		12640

Attachment 15 – SOIL&WATER-8 Encroachment Permit

< Attachment 15 has been deliberately left blank in this reporting period >

Attachment 16 – STRUC-1 CBO Approvals

MEMORANDUM – DCBO APPROVAL

DATE: April 29, 2019

TO: Engineering Manager
Stanton Energy Reliability Center, LLC/W Power, LLC

FROM: Alan Ho, S.E., Senior Structural Engineer
NV5, Inc.
Alan.Ho@nv5.com
916.346.8866

CC: Eric Rodriguez, Lead Engineer
NV5, Inc.

SUBMITTAL: SERC_16-AFC-01_STRUC-1-6.0_FGC, NH3 TANK, & SYS FDN PLAN & CALCS_190417_PCF

MEMORANDUM:

This memorandum is to inform you that NV5, the Delegate CBO for the **STANTON ENERGY RELIABILITY CENTER (16-AFC-01)**, has reviewed the subject submittal, and deemed it compliant with the 2016 California Building Standards Code (CBSC) and applicable Laws, Ordinances, Regulations and Standards (LORS).

Should you have any questions or need additional information, please feel free to contact me.

SERC_16-AFC-01
--- REVIEWED ---

This review is intended only to verify conformity to the 2016 edition of the California Building Standards. It does not relieve Contractor and Applicant of responsibility for requirements of Project drawings and specifications. No responsibility is assumed for fabrication or construction techniques, correctness of quantities or dimensions, or coordination of work with other trades. Omissions & Errors on documents shall not be valid and all codes and Laws must be complied with.

Digitally signed by
Alan Ho
Reason: Reviewed for
Code Compliance.
Date: 2019.04.29
21:10:45 -07'00'

MEMORANDUM – DCBO APPROVAL

DATE: April 29, 2019

TO: Engineering Manager
Stanton Energy Reliability Center, LLC/W Power, LLC

FROM: Alan Ho, S.E., Senior Structural Engineer
NV5, Inc.
Alan.Ho@nv5.com
916.346.8866

CC: Eric Rodriguez, Lead Engineer
NV5, Inc.

SUBMITTAL: SERC_16-AFC-01_STRUC-1-7.0_UTILITY RACK 1 & 2 STEEL FDN PLAN & CALCS_190417_PCF

SERC_16-AFC-01
--- REVIEWED ---
This review is intended only to verify conformity to the 2016 edition of the California Building Standards. It does not relieve Contractor and Applicant of responsibility for requirements of Project drawings and specifications. No responsibility is assumed for fabrication or construction techniques, correctness of quantities or dimensions, or coordination of work with other trades. Omissions & Errors on documents shall not be validated all codes and laws must be complied with.

Digitally signed by Eric Rodriguez, SE
DN: cn=Eric Rodriguez, SE, o=NV5, Inc., ou=Energy, email=eric.rodriguez@nv5.com, c=US
Reason: Reviewed for Code Compliance (by Alan Ho, SE).
Date: 2019.04.29 08:22:08 -07'00'

MEMORANDUM:

This memorandum is to inform you that NV5, the Delegate CBO for the **STANTON ENERGY RELIABILITY CENTER (16-AFC-01)**, has reviewed the subject submittal, and deemed it compliant with the 2016 California Building Standards Code (CBSC) and applicable Laws, Ordinances, Regulations and Standards (LORS).

Should you have any questions or need additional information, please feel free to contact me.

Attachment 17 – TRANS-1 Permits

< Attachment 17 has been deliberately left blank in this reporting period >

Attachment 18 – Safety Inspection Report



SERC – PSC MONTHLY SAFETY INSPECTION COMPLIANCE REPORT

APRIL 2019

The following information for the SERC Project safety inspection and compliance to the site as required by CEC, CBO and Wellhead in the month of April 2019.

We have been in compliance with all safety policies and procedures on the SERC project. Personnel have been participating in our Personal Safety Commitment observation program and stop work responsibility has been a big focus to our constantly changing safety culture.

We have been processing a number of new Personnel for ARB and our Sub-Contractors through the SERC WEAP Orientation and SERC Site specific Safety training. Badges for accountability and security purposes are being issued and parking for all craft workers has been established at the Bethel Church off of Dale Street. Parking there has been good and the effort has been closely coordinated.

We have filed with the FAA for crane operation within Airport or Airfield facilities near project site. Case is pending at this time. We have also revisited the Cal-OSHA permit and request for variance to the personnel elevator they are currently requiring for the project exhaust stacks. That variance is also pending and we should have an answer within a week or two.

We have talked about Personal Protective Equipment, Slips, Trips & Falls, Wildlife, Snakes, Spiders & Critters and Barricades & Barricade Systems as the topics in our all hands safety meetings for the month of April 2019. We have applied special emphasis on staying hydrated as it is starting to warm up and summer is fast approaching. We are also emphasize the use of spotters at all times especially around the overhead power lines.

No Injuries have been observed or reported and no first aids, recordables or loss time Injuries to report for this month.

Tim Draper,

ARB, Inc. Safety Manager,

SERC Project Safety

tdraper@prim.com

(949) 678-1643

Attachment 19 – CIVIL-3 Non-Compliance Reports

<Attachment 19 has been deliberately left blank in this reporting period>

Attachment 20 - COM-6 Filings & Permits to/by Government Agencies



My Cases in ACCEPTED Status

Please refer to the assigned ASN on all inquiries to the FAA

All Cases	Filter by Case Status	Cases Requiring Action
Show All Cases (2)	Draft (1) Accepted (1) Work In Progress (0) Interim (0) Determined (0) Circularized (0) Terminated (0)	Waiting (0) 7460-2 Required (0) Add Letter (0) Cases Due to Expire (0)

Records 1 to 1 of 1

Page 1 of 1

View Folder ▾

Create Folder

Manage Folders

Transfer Cases

Transfer Cases - Desk Reference Guide V_2018.2.0

ASN	Folder Name	Project Name	Structure Name	Status	Date Accepted	Date Determined	7460-2 Received	City	State
<input type="checkbox"/> 2019-AWP-4507-OE		ARB, -000521330-19	275 ton manitowoc 999	Accepted	04/24/2019			Los Alamitos	CA

Move To ▾

Archive

Rows per Page: 20 ▾

Page: 1

Records 1 to 1 of 1

Page 1 of 1

Draft: Cases that have been saved by the user but have not been submitted to the FAA.

Waiting: Wind Turbine/Met Tower (w/WT Farm) cases that have not been submitted to the FAA and are waiting for an action from the user, either to verify the map or attach specific documents

Accepted: Cases that have been submitted to the FAA.

Add Letter: Cases that have been reviewed by the FAA and require additional information from the user.

Work in Progress: Cases that are being evaluated by the FAA.

Interim: Cases that have been reviewed by the FAA and require resolution from the user.

Determined: Cases that have a completed aeronautical study and an FAA determination.

Terminated: Cases that are no longer valid.

Please allow the FAA a minimum of 45 days to complete a study.

Case Transfer:

- Use the check box(es) to select the case(s) you want to transfer.
- Select the "Transfer Cases button" to open the "Manage Transfer Cases" screen.

Note: Drafts and cases in Add and Terminated status can not be transferred.

[Click here to contact the appropriate representative.](#)



Notice of Proposed Construction or Alteration - Off Airport

Add a new Case Off Airport - Desk Reference Guide V_2018.2.1

Add a New Case (Off Airport) for Wind Turbines - Met Towers (with WT Farm) - WT-Barge Crane - Desk Reference Guide V_2018.2.1

Project Name: ARB, -000521330-19

Sponsor: ARB, Inc.

Details for Case : 275 ton manitowoc 999

Show Project Summary

Case Status		Structure Summary	
ASN:	2019-AWP-4507-OE	Date Accepted:	04/24/2019
Status:	Accepted	Date Determined:	
Public Comments:	None	Letters:	None
		Documents:	None
		Project Documents:	None
Construction / Alteration Information		Structure Summary	
Notice Of:	Construction	Structure Type:	Crane
Duration:	Temporary	Structure Name:	275 ton manitowoc 999
<i>if Temporary :</i>	Months: 6 Days: 15	FDC NOTAM:	
Work Schedule - Start:		NOTAM Number:	
Work Schedule - End:		FCC Number:	
*For temporary cranes-Does the permanent structure require separate notice to the FAA? To find out, use the Notice Criteria Tool. If separate notice is required, please ensure it is filed. If it is not filed, please state the reason in the Description of Proposal.		Prior ASN:	
State Filing:			
Structure Details		Proposed Frequency Bands	
Latitude:	33° 48' 24.73" N	Select any combination of the applicable frequencies/powers identified in the Colo Void Clause Coalition, Antenna System Co-Location, Voluntary Best Practices, effective 21 Nov 2007, to be evaluated by the FAA with your filing. If not within one of the frequency bands listed below, manually input your proposed frequency(ies) and power using the Add Specific Frequency link.	
Longitude:	117° 59' 5.58" W		
Horizontal Datum:	NAD83		
Site Elevation (SE):	31 (nearest foot) PASSED		
Structure Height (AGL):	210 (nearest foot)		
Current Height (AGL):	(nearest foot)		
* For notice of alteration or existing provide the current AGL height of the existing structure. Include details in the Description of Proposal			
Minimum Operating Height (AGL):	70 (nearest foot)		
* For aeronautical study of a crane or construction equipment			

the maximum height should be listed above as the Structure Height (AGL). Additionally, provide the minimum operating height to avoid delays if impacts are identified that require negotiation to a reduced height. If the Structure Height and minimum operating height are the same enter the same value in both fields.

Requested Marking/Lighting:

Flag Marker

Other :

Recommended Marking/Lighting:

Current Marking/Lighting:

None

Other :

Nearest City:

Los Alamitos

Nearest State:

California

Description of Location:

On the Project Summary page upload any certified survey.

Available Upon Request

Description of Proposal:

Crane to place Two Exhaust Stacks at said coordinates, Exhaust Stacks according to the Notice Criteria Tool, does not require filing for these structures.

Previous [Back to Search Result](#) Next



Federal Aviation
Administration

<< OE/AAA

Add Letter Response for Case

ADD Letter [View Request-Respond To] - Desk Reference Guide V_2018.2.0

• After uploading necessary documents, please click "Save" to complete your response

Site Elevation: 71 ft

From: noreply@faa.gov <noreply@faa.gov>
Sent: Thursday, May 2, 2019 7:00 AM
To: Timothy Draper <tdraper@prim.com>; Timothy Draper <tdraper@prim.com>
Subject: Status of FAA Filing 2019-AWP-4507-OE

EXTERNAL EMAIL

Your filing is assigned Aeronautical Study Number (ASN): 2019-AWP-4507-OE.

To review your electronic record, go to our website oeaaa.faa.gov and select the Search Archives link to locate your case using the assigned Aeronautical Study Number (ASN).

The FAA verified your filing and an aeronautical study has been initiated. Please allow a minimum 45 days for the FAA to complete the study. Please refer to the assigned ASN on all future inquiries regarding this filing.

To ensure e-mail notifications are delivered to your inbox please add noreply@faa.gov to your address book. Notifications sent from this address are system generated FAA e-mails and replies to this address will NOT be read or forwarded for review. Each system generated e-mail will contain specific FAA contact information in the text of the message.

Note!: This email originated from outside our organization. Be cautious when opening Links and Attachments that you were not expecting.

Attachment 21 - COM-11 Reporting of Complaints, Notices, and Citations

SERC
COMPLAINT REPORT AND RESOLUTION LOG

Incident #	Incidents Occurred this Period	Resolution Actions Taken	Status of Unresolved Actions form Previous MCR's
01	Complaint about Track-out on Dale Ave.	<p>All construction equipment vehicle tires shall be inspected and washed as necessary to be cleaned free of dirt prior to entering Dale Ave.</p> <ol style="list-style-type: none"> 1. Additional gravel was added to the existing ramps at the tire washing/cleaning station 2. Additional laborers were assigned to the Dale Ave entrance when there is a risk of any track-out to scrape and sweep immediately. A Sweeping machine is being kept on location and be used as necessary to clean up all track-out. 3. The assigned laborers will also be sweeping the rumble plates when build-up occurs to maintain the efficiency of the plates. 4. Above and beyond, the contractor added another set of rumble plates and gravel at the Dale Ave. entrance. 	N/A
02	Noise Complaint	<p>SERC received a noise complaint at 9:33am on Friday, April 5, 2019. The complaint came from a Mr. Hill who lives at the Katella Mobile Home Estates located at 10800 Dale Ave, Stanton, CA. Mr. Hill complained about the use of a chainsaw at 3:10 am on Saturday morning (3/30/19) and hearing an air compressor and the hammering of nails at 3:25 am on Monday morning (4/1/19). Representatives from SERC spoke with Mr. Hill at 2:19pm on Friday April 5th to better understand his complaint.</p> <p>SERC investigated the incident with ARB and confirmed that there was no activity on the SERC site during these hours. The Noise Complaint Resolution Form (COC NOISE 2) was submitted to the CPM documenting the complaint.</p>	

Attachment 22 Waste 10 Approval of Alt Soil Disposal Site



**Geotechnical Engineering
Construction Inspection
Materials Testing
Environmental**

OFFICE LOCATIONS

**SAN DIEGO
IMPERIAL COUNTY**
6295 Ferris Square
Suite C
San Diego, CA 92121
Tel: 858.537.3999
Fax: 858.537.3990

**ORANGE COUNTY
CORPORATE BRANCH**
2992 E. La Palma Avenue
Suite A
Anaheim, CA 92806
Tel: 714.632.2999
Fax: 714.632.2974

INLAND EMPIRE
14467 Meridian Parkway
Building 2A
Riverside, CA 92518
Tel: 951.653.4999
Fax: 951.653.4666

INDIO
44917 Golf Center Pkwy
Suite 1
Indio, CA 92201
Tel: 760.342.4677
Fax: 760.342.4525

**OC/LA/INLAND EMPIRE
DISPATCH**
800.491.2990

SAN DIEGO DISPATCH
888.844.5060

www.mtglinc.com

April 22, 2019

Encompass Health
3660 Grandview Parkway, Suite 200
Birmingham, Alabama 35243

MTGL Project No.: 1153A02
MTGL Log No.: 19-1570
MTGL Branch: Anaheim
OSHPD Project No.: H-163228-30-00
OSHPD Facility No.: 18226

Attention: Mr. John R. Tschudin, Jr.
Senior Manager – Design & Construction

Subject: **LABORATORY TEST RESULTS – PROPOSED IMPORT SOIL – LAB #216**
Encompass Health Tustin Rehabilitation Hospital
15120 Kensington Park Drive
Tustin, Orange County, California

Reference: Professional Service Industries, Inc., 2015, "Geotechnical and Geologic Hazard Report, Proposed Health/Rehabilitation Facility, 2446 Edinger Avenue, Tustin, California", PSI Project No. 05591547, dated September 16, 2015

In accordance with the request of your project field representatives, MTGL, Inc. is providing the results of the laboratory testing performed for the subject project. On April 16, 2019, our field representative obtained a sample of proposed import soil from a designated site. The source of the proposed import soils was from 10741 Dale Avenue, Stanton, California. MTGL, Inc. understands that approximately 4,000 cubic yards of import soils are required for this project.

Section 3.3.4 (page 12) of the referenced project Geotechnical Engineering Report states:

"Engineered fill materials at this site should not contain rocks greater than 3-inches in diameter or greater than 30 percent retained on the ¾-inch sieve, and should not contain more than 3 percent (by weight) of organic matter or other unsuitable materials. The Expansion Index (EI) for the materials should not exceed 20."

"Import materials meeting the above requirements should be approved by the Geotechnical Engineer prior to use as Engineered Fill."

The soil sample was transported to our laboratory for geotechnical testing which included: Particle Size Analysis (ASTM C136), Expansion Index Test (ASTM D4829), Liquid Limit, Plastic Limit and Plasticity Index of Soils (ASTM D4318), Moisture, Ash, and Organic Matter of Peat and Other Organic Soils (ASTM D2974) and Laboratory Compaction Characteristics (ASTM D1557).

The requirements for Import Fill, as discussed in the project Geotechnical Engineering Report, are presented on Table 1. The results of the laboratory testing are presented in Table 2. Table 2 also indicates whether or not the soil samples meet the requirements for Import Fill as discussed in the project Geotechnical Engineering Report.

Based upon the results of the laboratory testing conducted for this report, the tested soils meet the project geotechnical engineering criteria for Import Soil and may be used as such. Monitoring and additional geotechnical engineering laboratory testing should be performed during soil import operations in order to review conformance with this report. Soil import and compaction operations should be reviewed by a representative of the geotechnical consultant. **Compaction should be confirmed by testing.**

MTG_L, Inc. appreciates this opportunity to be of continued service to you on this project. Should you have any questions regarding the information contained herein, please contact us at your earliest convenience.

Respectfully submitted,

MTG_L, Inc.

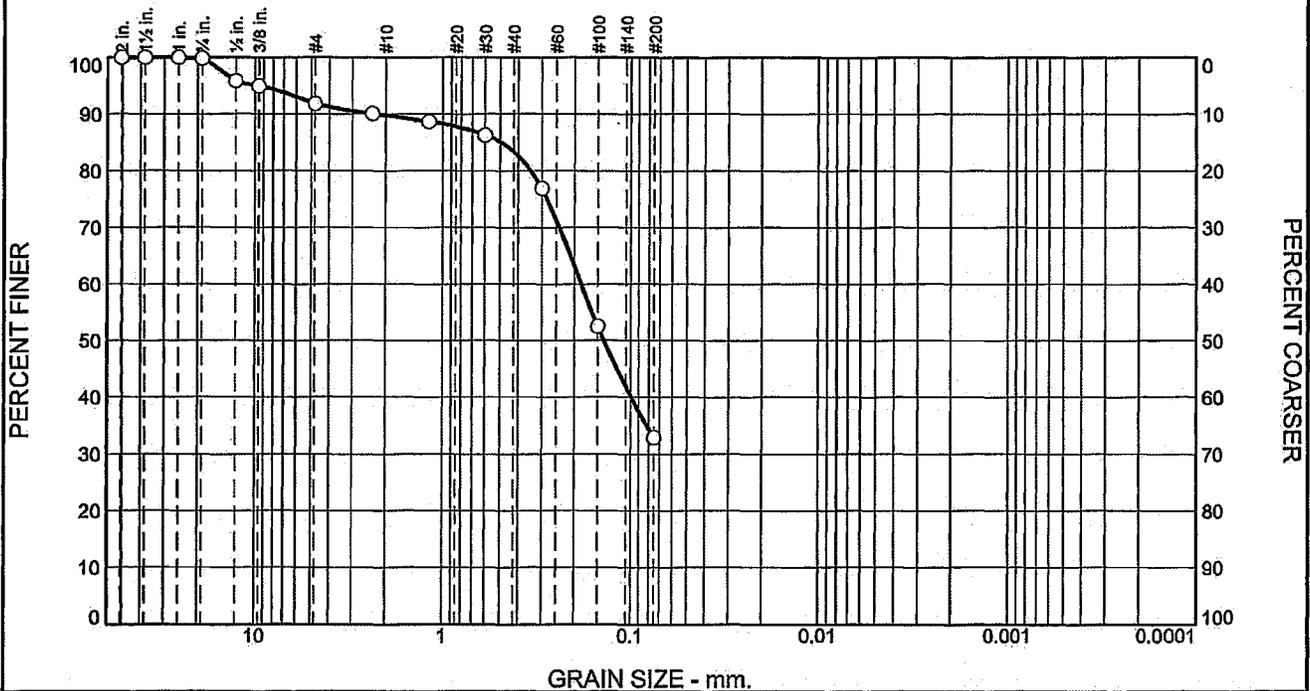

Bruce A. Hick,
R.C.E. 45784, G.E. 2284
Vice President | Engineering Manager



TABLE 1 – SPECIFICATION SUMMARY	
	Import Fill (Sec. 3.3.4, page 12)
Expansion Index (ASTM D4829)	≤ 20
Liquid Limit, Plastic Limit, Plasticity Index (ASTM D4318)	Liquid Limit (LL) – Less Than 35 Plastic Limit (PL) – Less Than 12 Plasticity Index (PI) – Less Than 20
Organic Content (ASTM D4318)	≤ 3 Percent
Other Required Test	Maximum Density/Optimum Moisture Content (ASTM D 1557) Soil Classification (Unified Soil Classification System) (ASTM C136)
Other Requirement	3-inch max size Not More Than 30 Percent Retained on the ¾" Sieve

TABLE 2 – LABORATORY TESTING		
	Lab No. 168	
Sample Description (USCS)	Silty SAND With Gravel And Clay (SM), Light Brown	
Sample Location	10741 Dale Avenue, Stanton, California	
Maximum Particle Size (ASTM C136)	Maximum Size –1" One (1) Percent Retained on ¾" Sieve	Particle Size Analysis Attached
Expansion Index (ASTM D4829)	0	
Liquid Limit, Plastic Limit, Plasticity Index (ASTM D4318)	LL – 0 PL – 0 PI – 0 (Non-Plastic)	
Organic Content (ASTM D4318)	0.3%	
Maximum Dry Density/ Optimum Moisture Content (ASTM D1557)	120.0 p.c.f. at 11.5% Optimum Moisture	
Approved For Import Fill?	Yes	

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.2	7.9	2.1	6.4	50.6		32.8

Test Results (ASTM C 136 & ASTM C 117)			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
2.0	100.0		
1.5	100.0		
1	100.0		
3/4	99.8		
1/2	95.9		
3/8	95.0		
#4	91.9		
#8	90.1		
#16	88.7		
#30	86.3		
#50	76.9		
#100	52.6		
#200	32.8		

* (no specification provided)

Material Description

LT BRN SILTY SAND W GRAVEL AND TRACE CLAY

Atterberg Limits (ASTM D 4318)

PL= LL= PI=

Classification

USCS (D 2487)= (SM) AASHTO (M 145)=

Coefficients

D₉₀= 2.2249 D₈₅= 0.4973 D₆₀= 0.1838
D₅₀= 0.1391 D₃₀= D₁₅=
D₁₀= C_u= C_c=

Remarks

SAMPLED BY: B ANDERSON
F.M.=1.19

Date Received: Date Tested: 4/18/19
Tested By: RS
Checked By: CF
Title: LAB SUPER

Location: 10741 DALE AVE STANTON CA
Sample Number: 216

Date Sampled: 4/16/19

MTGL, Inc. Anaheim, CA	Client: Project: ENCOMPASS HEALTH TUSTIN Project No: 1153A02
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Figure

End Report