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PHASE II ENVIRONMENTAL SITE ASSESSMENT PROPOSED RESIDENTIAL DEVELOPMENT 2260 SAN PASQUAL VALLEY ROAD ESCONDIDO, CALIFORNIA

PREPARED FOR:

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PREPARED BY:

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> SDC PDS RCVD 12-07-18 TM5620

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GENERAL SITE INFORMATION

Project Information: Proposed Residential Development, APN 234-261-23-00, 234-440-05-00

and 234-430-21-00, 2260 San Pasqual Valley Road, San Diego County, California

SCST Project Number: 180155N-2

Site Information:

Assessor's Parcel Numbers (APN's): 234-261-23-00, 234-440-05-00, and 234-430-21-00

Site Access Contact: Mr. Don MacLean (760) 846-9760

Consultant Information:

SCST, Inc.

6280 Riverdale Street San Diego, California 92120 **Phone:** 619.280.4321

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E-mail Address: dskinner@scst.com

Fieldwork Date: July 17, 2018 Report Date: August 5, 2018

Client Information:

Mr. Jeff Lundstrom Lundstrom Engineering and Surveying, Inc. 5333 Mission Center Road, Suite 115 San Diego, California 92108

E-mail Address: jeff@lundstrom.cc

Site Assessor:

Douglas A. Skinner – Senior Engineering Geologist

EP Certification:

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in 40 CFR 312.10.

Douglas A. Skinner, CEG 2472 Project Geologist

No. 2472 m CERTIFIED ENGINEERING

CERTIFIED SENGINEERING

AAI Certification:

WE have the specific qualifications based on education, training, and experience to assess a property of the nature, history and setting of the subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Douglas A. Skinner, CEG 2472 Project Geologist



EXECUTIVE SUMMARY

At the request and authorization of the Client (Mr. Jeff Lundstrom, Lundstrom Engineering and Surveying, Inc.), SCST, Inc. (SCST) conducted a Phase II Environmental Site Assessment (ESA) for the subject property. The purpose of the Phase II ESA was to provide information relevant to identifying, defining, and evaluating property conditions associated with target analytes that may pose risk to human health or the environment based on historic land use as delineated in ASTM E1903-11. The Phase II ESA was prompted by the finding of the Phase I ESA conducted by SCST in March 2018. Additionally, SCST conducted a Preliminary Pre-Demolition Hazardous Materials Survey on the existing onsite structures.

The subject property consists of three parcels and comprises of approximately 18.4 acres. Currently, the site is developed with two structures, a partially paved road, and parking area. The majority of the site is currently undeveloped. We understand the project will consist of the demolition of the existing structures and construction of the proposed residential development.

In general, the subject property is located within an agricultural area bounded by residential properties to the north and east, by San Pasqual Valley Road to the south, and by an undeveloped area to the west (Figure 1). According to the County of San Diego Zoning Map, the site is zoned Agriculture (A).

Based on historical records such as aerial photographs and topographic maps, the subject property, and adjacent properties, have been developed since sometime prior to 1939. The subject property and adjacent properties have historically been used for agricultural purposes. Additionally, a review of regulatory agency databases indicates that a leaking underground storage tank (UST) was historically located on the site. Structures or other improvements are apparent on the subject site in the aerial photographs and topographic maps reviewed.

On July 17, 2018, SCST personnel collected a total of 8 composite soil samples from 8 locations across the subject property for agricultural chemical residue analyses. The sample locations were selected to sufficiently characterize the site. In order to create each composite sample, SCST personnel collected a total of 3 discrete soil samples within a radius of 25 feet from each sample location at depths of 1 inch to 6 inches below existing grade. Each of the 3 discrete samples were thoroughly homogenized to produce a single composite sample. Each composite soil sample was analyzed for organochlorine pesticides (OCP's) in accordance with EPA Test Method 8081A and California Title 22 Metals (T22) in accordance with EPA Method 6010B. Additionally, SCST personnel collected discrete soil samples from the area judged to be the most likely area the UST was located for Total Petroleum Hydrocarbon residue. Two soil samples were collected from two separate borings within the UST area of concern. Each of these four samples were analyzed for TPH by EPA Method 8015M.



We have performed the Phase II ESA in conformance with the scope and limitations of ASTM E1903-11 for the property identified as a portion of Assessor's Parcel Numbers (APN) 234-261-23-00, 234-440-05-00, and 234-430-21-00, located at 2260 San Pasqual Valley Road, in the County of San Diego, California.

Based on the results of the soil sampling and analyses, OCP residue, T22 metals, and soils impacted with petroleum hydrocarbons are present on site. However, the reported concentrations of these chemicals of concerns does not exceed published screening levels or are within normal background ranges. The concentrations detected do not represent a significant concern to human health or the environment, and no immediate action or cleanup is required. The results of our preliminary pre-demolition hazardous materials survey indicate that asbestos containing materials and lead-based paint are likely present in the onsite structures. However, the onsite structures are currently occupied and quantitative samples could not be collected. SCST recommends that once the structures have been vacated, SCST personnel return to the site to perform destructive sampling and a quantitative analysis. Based on the results of this quantitative survey, SCST will prepare a report that will identify and specify hazardous materials that will be encountered during building demolition.



1. INTRODUCTION

1.1 PURPOSE

The purpose of the Phase II ESA was to provide information relevant to identifying, defining, and evaluating property conditions associated with target analytes that may pose risk to human health or the environment based on historic land use as delineated in ASTM E1903-11. The Phase II ESA was prompted by the finding of the Phase I ESA conducted by SCST in March 2018.

1.2 BACKGROUND

SCST conducted a Phase I ESA at the subject property in March 2018 (Reference 13). Based on historical records such as aerial photographs and topographic maps, the subject property, and adjacent properties, have been developed since sometime prior to 1939. The subject property and adjacent properties have historically been used for agricultural purposes. Additionally, a review of regulatory agency databases indicates that a leaking underground storage tank (UST) was historically located on the site. Structures or other improvements are apparent on the subject site in the aerial photographs and topographic maps reviewed. SCST, Inc. concluded that the historical use of the subject property was considered a recognized environmental condition (REC).

1.3 SCOPE OF SERVICES

The following scope of services was conducted by SCST:

- A review of readily available documents, which included previous environmental reports by SCST, topographic, geologic, and hydrogeologic conditions associated with the subject site.
- A review of readily available maps, aerial photographs, and other documents relative to historical subject site usage and development.
- A review of readily available federal, state, county, and city documents and database files concerning hazardous material storage, generation and disposal, active and inactive landfills, existing environmental concerns, and associated permits related to the subject property and/or immediately adjacent sites.
- A site reconnaissance to ascertain current conditions of the subject property.
- Interviews with person(s) knowledgeable of the subject property.
- Collection of 8 composite soil samples from locations across the subject property for agricultural chemical residue analyses.



- Collection of 4 discrete soil samples for Total Petroleum Hydrocarbon (TPH) residue analyses from the area judged to be the most likely to be the area where the UST was located.
- The preparation of this report, which presents our findings, opinions, and conclusions.

1.4 RELIANCE

This ESA has been prepared for the use of Mr. Jeff Lundstrom, Lundstrom Engineering and Surveying, Inc. This assessment should not be relied upon by other parties without the express written consent of SCST and the above-named entities. Any use or reliance upon this assessment by a party other than the above-named entities, therefore shall be solely at the risk of such third party and without legal recourse against SCST, its employees, officers, or directors, regardless of whether the action in which recovery of damages is brought or based upon contract, tort, statute or otherwise.

This assessment should not be interpreted as a statistical evaluation of the subject site, but rather is intended to provide a preliminary indication of on-site impacts from previous site usage and/or the release of hazardous materials. If no significant indicators of the presence of hazardous materials and/or petroleum contamination are encountered during this search, this does not preclude their presence. The findings in this report are based upon published geologic and hydrogeologic information, and information (both documentary and oral) provided by the County of San Diego, Environmental Records Search, (ERS®) (i.e., agency database search), various state and federal agencies, and SCST's field observations. Some of this data is subject to change overtime and is based on information not currently observable or measurable, but recorded by documents or orally reported by individuals.

2. PHYSIOGRAPHIC SETTING

2.1 SITE DESCRIPTION

The subject property is identified as Assessor's Parcel Numbers (APN) 234-261-23-00, 234-440-05-00, and 234-430-21-00, and is located at 2260 San Pasqual Valley Road, in the County of San Diego, California. The subject property comprises of approximately 18.4 acres. In general, the subject property is located within a rural agricultural area bounded by residential properties to the north and east, by San Pasqual Valley Road to the south, and by an undeveloped area to the west (Figure 1). According to the County of San Diego Zoning Map, the site is zoned Agricultural (A).



2.2 TOPOGRAPHY

The subject property is located on the United States Geologic Survey (USGS) 7.5 Minute Escondido Quadrangle map (USGS, 2015). The map indicates the elevation of the subject property ranges from approximately 660 to 760 feet above mean sea level (msl). The subject property is located on the south and southwest flank of a small hill. The property generally slopes towards the southwest.

2.3 REGIONAL AND LOCAL GEOLOGY

The subject property lies within the Peninsular Ranges Geomorphic Province. The Peninsular Ranges Geomorphic Province, one of the largest geomorphic units in western North America, extends from the Transverse Ranges Geomorphic Province and the Los Angeles Basin, south to the southern tip of Baja California, Mexico. It is bound on the west by the Pacific Ocean, on the south by the Gulf of California and Pacific Ocean, and on the east by the Colorado Desert Province. The Peninsular Ranges are essentially a series of northwest-southeast oriented fault blocks (CDMG, 2002). A review of the Preliminary Geologic Map of the Oceanside 30' x 60' Quadrangle (Kennedy and Tan, 2007) indicates the subject property is underlain by Cretaceousage Woodson Mountain Granodiorite.

The subject property is not within a Fault-Rupture Hazard Zone (Hart & Bryant, 2007; CDMG, 2000) or within a known Active Fault Near-Source Zone (CDMG, 1988). Three (3) major fault zones and some subordinate fault zones are found in this province. The Elsinore Fault zone and the San Jacinto Fault zones trend northwest-southeast and are found near the middle of the province. The San Andreas Fault zone borders the northeasterly margin of the province, whereas a fault related to the San Andreas Transform Fault System, the Newport-Inglewood-Rose Canyon Fault zone, exists near the western margin and Continental Borderland Geomorphic Province (Jennings, 1994). The possibility of ground acceleration or ground shaking at the site may be considered similar to the Southern California region as a whole.

Soil in the vicinity of the site has been identified by the United States Department of Agriculture – Soil Conservation Service as a sandy loam within the Fallbrook Soil Series (USDA, 2011). Soils on site are considered well drained and have moderate infiltration rates.

2.4 REGIONAL AND LOCAL HYDROGEOLOGY

According to the California Regional Water Quality Control Board – San Diego Region 9 (RWQCB, 1995), the subject site is located within the Lomas Los Muertas Hydrologic Subarea (HSA 5.324), of the San Pasqual Hydrologic Area (5.3), of the San Dieguito Hydrologic Unit. Groundwater in this subarea has been classified as having no existing beneficial uses. Surface



water within this hydrologic subarea has been classified as having existing non-contact water recreation, warm fresh water habitat, and wildlife habitat.

The California Department of Water Resources Water Data Library (WDL) website and information provided in the ERS® report indicates that there are no Public Water Supply Wells located within 1 mile of the subject property. There are no known water supply wells within the immediate vicinity of the subject property.

Additionally, SCST reviewed data on the GeoTracker Website regarding depth to groundwater for properties located near the subject site. No groundwater monitoring wells are reported to be within 1 mile of the subject property. Estimated groundwater depths are greater than 30 feet below the existing ground surface. Reported ground water flow direction is unknown.

2.5 HYDROLOGIC FLOOD PLAIN INFORMATION

SCST reviewed the Federal Emergency Management Agency (FEMA) Flood Hazard Map online database (2012) to determine if the subject property was located within an area designated as a Flood Hazard Zone. According to the information reviewed on the Flood Insurance Rate Map (FIRM), Map No. FM06073C1910G (effective May 2012), the subject property is located within Zone X. Zone X designates areas with minimal flood hazard above the 500-year flood level.

3. SITE BACKGROUND

3.1 SITE HISTORY

SCST reviewed readily available information sources to evaluate historic land use in and around the subject site. These information sources include aerial photographs, USGS maps, and files maintained by the County of San Diego.

Based on our research, the subject property, and adjacent properties, have been developed since sometime prior to 1939. The subject property and adjacent properties have historically been used for agricultural purposes. Additionally, a review of regulatory agency databases indicates that a leaking underground storage tank (UST) was historically located on the site. Maps indicating the location of the UST were not included in the regulatory database files. No information regarding the removal of the UST or assessment activities were documented in the files.

3.2 FIELD ACTIVITIES AND METHODOLOGY

Based on the findings made during the original Phase I ESA, SCST concluded the project site was utilized for agricultural purposes from at least 1939 until the present, and that a leaking UST



was located at the site. In order to evaluate the potential presence of agricultural chemical and TPH residue at the subject property, SCST performed a limited site assessment.

3.3 SOIL SAMPLING

Agricultural Chemical Residue

On July 17, 2018, SCST personnel collected a total of 8 composite soil samples from 8 locations across the subject property for agricultural chemical residue analyses. The sample locations were selected to sufficiently characterize the site. In order to create each composite sample, SCST personnel collected a total of 3 discrete soil samples within a radius of 25 feet from each sample location at depths of 1 inch to 6 inches below existing grade. Each of the 3 discrete samples were thoroughly homogenized to produce a single composite sample. Sampling equipment was cleaned between each sample using a trisodium phosphate solution with two potable and one distilled water rinse. The composite soil samples were placed into certified-clean, four-ounce glass jars provided by the laboratory. The glass jars were immediately capped with Teflon coated lids, appropriately labeled, and placed in a chilled cooler pending delivery to a California State Certified Laboratory. Appropriate chain-of-custody procedures were followed. Figure 3 presents a site plan depicting the approximate sampling locations.

Total Petroleum Hydrocarbon Residue

Research conducted by SCST did not reveal maps or other documents identifying the location or disposition of the UST reported at the site. In order to define an area of concern, SCST reviewed historic aerial imagery and maps to locate any evidence of chemical storage or equipment maintenance and repair. In aerial photographs taken of the site between 1936 and 1995, a shed/workshop is visible approximately 250 feet southeast of the residential structure adjacent to the driveway. In our opinion, this structure and the surrounding area is the most likely place a UST would have been located at the site. SCST personnel collected two discrete soil samples from two separate borings within this area for TPH residue analysis. The samples were collected at depths of 1 foot and 3 feet from each boring using hand tools. Sampling equipment was cleaned between each sample using a trisodium phosphate solution with two potable and one distilled water rinse. The composite soil samples were placed into certified-clean, four-ounce glass jars provided by the laboratory. The glass jars were immediately capped with Teflon coated lids, appropriately labeled, and placed in a chilled cooler pending delivery to a California State Certified Laboratory. Appropriate chain-of-custody procedures were followed. Figure 2 presents a site plan depicting the approximate sampling locations.



3.4 SAMPLE ANALYSIS

Agricultural Chemical Residue

Each of the composite soil samples were analyzed for Organochlorine Pesticides (OCP's) in accordance with EPA Test Method 8081A and California Title 22 (T22) in accordance with EPA Method 6010B. The OCP and T22 analytical results are presented on Tables 1 and 2, respectively.

Total Petroleum Hydrocarbon Residue

Each of the discrete soil samples were analyzed for Total Petroleum Hydrocarbons (TPH) in accordance with EPA Test Method 8015M. The TPH analytical results are presented on Table 3.

3.5 DATA EVALUATION

Laboratory reported detectable concentrations of analytes from the soil samples collected during this investigation were evaluated using California Human Health Screening Levels (CHHSL's) established by the California Environmental Protection Agency (CalEPA, [Reference 4]) and Environmental Screening Levels (ESL's) developed by the California State Water Resources Control Board (SFRWQCB [Reference 16]).

These screening levels represent a combination of standard assumptions regarding exposure of residents and workers to contaminants in soil and outdoor toxicity factors for each of the specific chemicals listed (CalEPA, 2005). For site characterization such as this one, screening levels are used as a general screening guide to determine whether additional investigation, remedial actions, or risk assessment may be warranted. These screening levels are not regulatory cleanup standards, and the presence of an analyte at a concentration above the screening levels does not necessarily indicate that adverse effects to human health or the environment are occurring, but rather, indicate that a potential for adverse risk may exist and that additional investigation may be necessary.

4. RESULTS AND DISCUSSION

4.1 SUBSURFACE CONDITIONS

Subsurface conditions encountered during the sampling activities at the subject property consisted primarily of silty and clayey sand. SCST personnel did not observe soil staining or orders indicative of contamination during the field work. Ground water was not encountered in any of the hand auger borings.



4.2 SOIL ANALYTICAL LABORATORY DATA AND DISCUSSION

OCP's were detected in five of the eight composite soils samples analyzed. Concentrations of T22 metals were detected in all of the soil samples. With the exception of arsenic, none of the detected T22 concentrations were above the regulatory screening levels. The detected arsenic concentrations are within the limits of the normal range for arsenic concentrations in soils of the western United States (Reference 12).

4.3 PRELIMINARY PRE-DEMOLITION HAZARDOUS MATERIALS SURVEY

On July 11, 2018, an SCST representative conducted a preliminary pre-demolition hazardous materials survey at the subject property. The survey included a visual assessment of suspected asbestos containing materials (ACM's), lead-based paint, and other potential regulated materials within the onsite structures. However, the on-site structures are currently occupied and quantitative samples could not be collected. The results of the visual assessment indicate that ACM's and lead based paints are present in the on-site structures.

5. FINDINGS AND OPINIONS

Based upon the scope of work completed, SCST concludes that the potential for on-site hazardous concentrations of OCP, T22 metals, and TPH impacted soils is very low. It is our opinion that further studies or action are not warranted from an environmental viewpoint at this time.

It is possible that petroleum hydrocarbon impacted soils will be encountered during mass grading operations at the site. If impacted soils are encountered, these soils should be managed in accordance with all applicable regulations.

6. CONCLUSIONS

We have performed the Phase II ESA in conformance with the scope and limitations of ASTM E1903-11 for the property identified as a portion of Assessor's Parcel Numbers (APN) 234-261-23-00, 234-440-05-00, and 234-430-21-00, located at 2260 San Pasqual Valley Road, in the County of San Diego, California.

Based on the results of the soil sampling and analyses, OCP residue, T22 metals, and soils impacted with petroleum hydrocarbons are present on site. However, the reported concentrations of these chemicals of concern does not exceed published screening levels or are within normal background ranges. The concentrations detected do not represent a significant concern to human health or the environment, and no immediate action or cleanup is required. The results of our preliminary pre-demolition hazardous materials survey indicate that asbestos containing materials and lead-based paint are likely present in the onsite structures. However, the onsite structures are currently occupied and quantitative samples could not be collected. SCST recommends that once



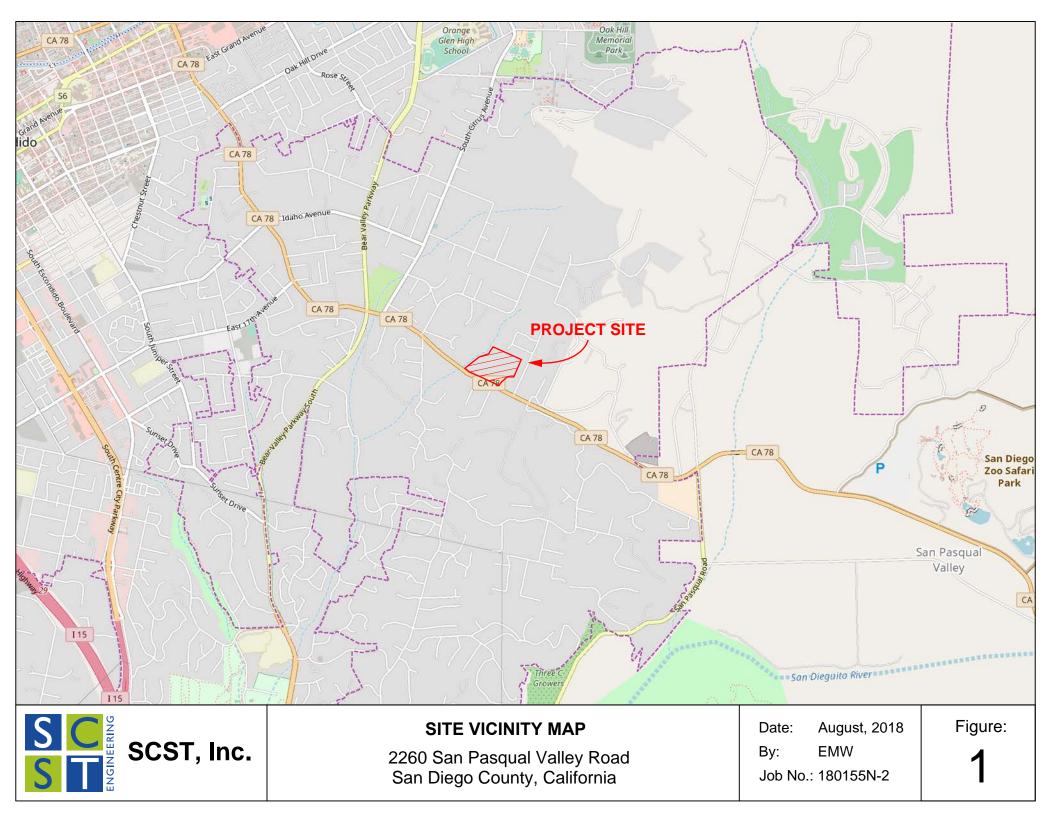
the structures have been vacated, SCST personnel return to the site to perform destructive sampling and a quantitative analysis. Based on the results of this quantitative survey, SCST will prepare a report that will identify and specify hazardous materials that will be encountered during building demolition.

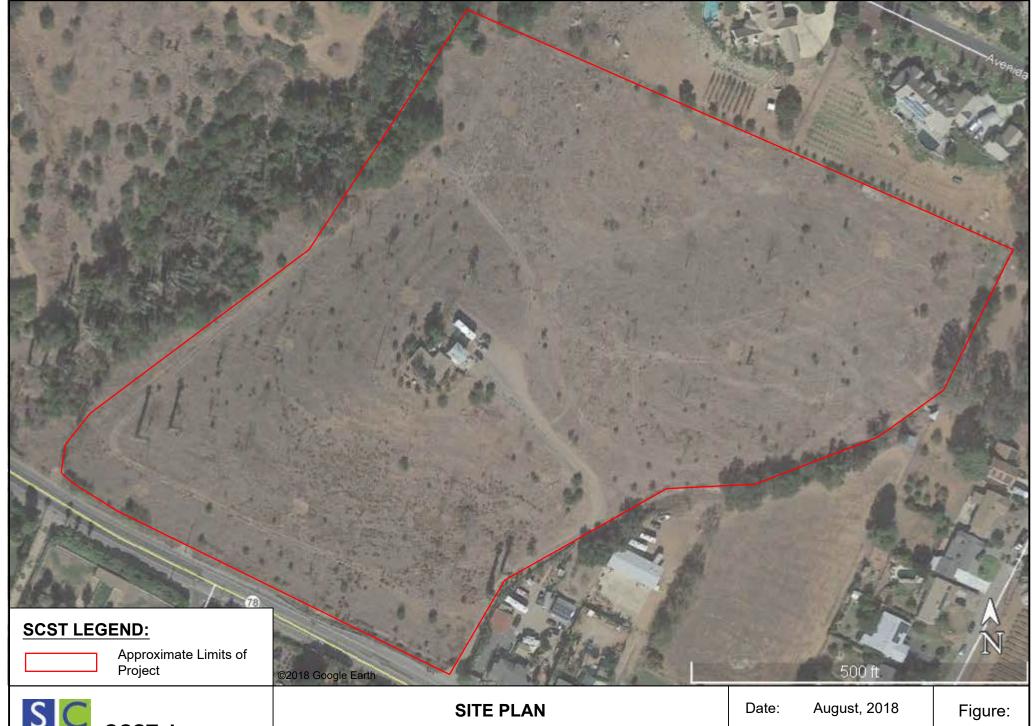


7. REFERENCES

- 1) California Department of Water Resources, Water Data Library (WDL), Website (http://www.water.ca.gov/waterdatalibrary), accessed July 2018.
- California Department of Conservation, Division of Mines and Geology (CDMG), 2000, Digital Images of Official Maps of Alquist-Priolo Earthquake Fault Zones of California, Southern Region, DMG CD 2000-003.
- 3) California Department of Conservation Division of Mines and Geology (CDMG), 1998, Maps of Known Active Fault Near-Source Zones in California and Adjacent Portions of Nevada, published by International Conference of Building Officials.
- 4) California Environmental Protection Agency, 2005, Use of California Human Health Screening Levels (CHHSLs) in Evaluation of Contaminated Properties
- 5) California State Water Resources Control Board, 2016, *Environmental Screening Levels, San Francisco Bay Regional Water Quality Control Board, Tier 1 ESL's, Revision 3,* dated February.
- 6) Department of Toxic Substances (DTSC), Website (http://www.envirostor.dtsc.ca.gov/public/), EnviroStor database, accessed July 2018.
- 7) Federal Emergency Management Agency (FEMA) website, accessed July 2018 (www.fema.gov).
- 8) Hart, E.W., and Bryant, W.A., 2007, *Fault-Rupture Hazard Zones in California*, California Department of Conservation, Division of Mines and Geology, Special Publication 42.
- 9) Jennings, Charles W., 1994 Fault Activity Map of California and Adjacent Areas, California Division of Mines and Geology, California Geologic Data Map Series, Map Number 6.
- 10) Kennedy, Michael P. and Tan, Siang S., (2007), Geologic Map of the Oceanside 30'x60' Quadrangle, California, California Geological Survey, Regional Geologic Map No. 2, Scale 1:100.000.
- 11) San Diego Regional Water Quality Control Board –Region 9, 1995, (SARWQCB): California State Water Resources Control Board Publication.
- 12) Shacklette, H.T., Boerngen, J.G., 1984, "Element Concentrations in Soils and other Surficial Materials of the Conterminous United States".
- 13) SCST, Inc. (SCST), 2018, Phase 1 Environmental Site Assessment, Proposed Residential Development, 2260 San Pasqual Valley Road, Escondido, California, dated March 23.
- 14) State Water Resources Control Board, Website, GeoTracker database, (http://www.geotracker.swrcb.ca.gov/), accessed July 2018.
- 15) United States Department of Agriculture (USDA), Natural Resources Conservation Service, Website (http://www.websoilsurvey.nrcs.usda.gov/app/) Web Soil Survey, accessed July 2018.







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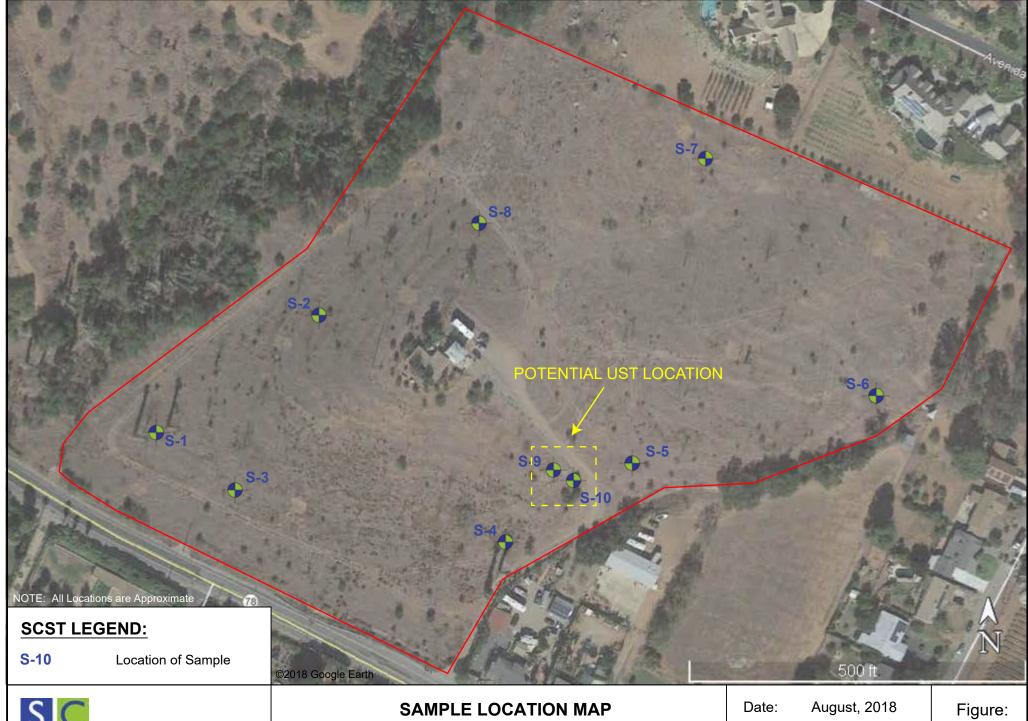
SCST, Inc.

2260 San Pasqual Valley Road Escondido, California

By: EMW

Job No.: 180155N-2

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SCST, Inc.

2260 San Pasqual Valley Road Escondido, California

EMW By:

Job No.: 180155N-2

TABLE 1 - SOIL SAMPLE ANALYTICAL RESULTS ORGANOCHLORINE PESTICIDES by EPA METHODS 8081A Proposed Residential Development 2260 San Pasqual Valley Road Escondido, California

									Α	NALYTE (res	sults in ug/k	(g)								
	Aldrin	Alpha-BHC	Beta-BHC	Chlordane	4,4'-DDD	4,4'-DDE	4,4'-DDT	Delta-BHC	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin Aldehyde	Endrin Keytone	Gamma-BHC	Heptachlor	Heptachlor Epoxide	Methoxychlor	Toxaphene
CHHSL's	36*	NL	NL	480*	2,700*	1,900*	1,900*	NL	35	NL	NL	NL	21,000	NL	NL	500	130	NL	340,000	460
Sample ID																				
SP-1	ND	ND	ND	350	ND	ND	ND	ND	30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	100
SP-2	ND	ND	ND	340	ND	ND	ND	ND	26	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SP-3	ND	ND	ND	100	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	110
SP-4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SP-5	ND	ND	ND	67	ND	10	ND	ND	35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SP-6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SP-7	ND	ND	ND	110	ND	ND	ND	ND	33	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SP-8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND - Not

NL - Not listed in published screening level tables.

CHHSLs - California Human Health Screening Levels (2005).

* - Published in SF Bay Area RWQCB Screening Tables (2016).

BOLD -

ug/kg - micrograms per kilogram.

Table 2 - Soil Sample Analytical Results Title 22 Metals by EPA Method 6010B and EPA 1311 Proposed Residential Development 2260 San Pasqual Valley Road Escondido, California

Sample Identification	Total Concentration - Results in milligrams per kilogram (mg/kg)																
Sample Identification	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
SP-1	ND	3.6	89.8	0.26	ND	9.31	9.02	14.90	10.1	ND	ND	3.07	ND	ND	ND	40.6	101.0
SP-2	ND	2.11	122	ND	ND	11.50	10.50	20.00	8.28	ND	ND	3.60	3.52	ND	ND	44.0	87.4
SP-3	ND	ND	91	ND	ND	10.6	9.49	17.30	6.10	ND	ND	3.23	ND	ND	ND	40.0	63.0
SP-4	ND	0.83	89.10	ND	ND	12.50	9.05	23.30	6.06	ND	ND	3.31	ND	ND	ND	37.4	88.2
SP-5	ND	2.76	98.80	ND	ND	12.60	9.80	19.90	9.58	ND	ND	3.75	ND	ND	ND	43.9	210.0
SP-6	ND	1.46	96.40	ND	ND	7.21	8.53	18.90	6.90	ND	ND	3.51	ND	ND	ND	36.0	43.9
SP-7	ND	2.49	85.50	0.25	0.492	8.90	9.19	19.00	7.72	ND	ND	2.60	ND	ND	ND	45.2	139.0
SP-8	ND	1.83	113.00	ND	ND	9.52	11.80	14.60	3.18	ND	ND	3.27	ND	ND	ND	45.8	51.7
ESL	140	0.98	3,000	42	43.0	##	28	140,000	160	44.0	180	9	1,700	1,800	3.5	470	110,000

Notes:

mg/kg - milligrams per kilogram

ND - Not detected at or above the laboratory reporting limit

BOLD - Indicates concentration exceeds ESL

- ESL not wstablished

ESL - Environmental Screening Levels published by the San Fransico Regional Water Quality Control Board Direct Exposure Human Health Risk Levels Table S-1 (Interim Final, February 2016, Revision 3)

Table 3 - Soil Sample Analytical Results Totla Petroleum Hydrocarbons (TPH) by EPA 8015M Proposed Residential Development 2260 San Pasqual Valley Road Escondido, California

		(= = =)	TotalPetroleum Hydrocarbons (TPH) by EPA Method 8015M in mg/kg									
Sample Designation	Boring	Depth (BGS)	Gasoline (C4-C12)	Diesel (C13-C24)	Motor Oil (C25-C40)	Total TPH						
SP-9@1FT	SP-9	1 foot	ND	ND	ND	15						
SP-9@3FT	SP-9	3 feet	ND	ND	ND	12						
SP-10@1FT	SP-10	1 foot	ND	ND	80	85						
SP-10@3FT	SP-10	3 feet	ND	ND	82	100						
ESL			100 mg/kg	230 mg/kg	5,100 mg/kg							

Notes:

mg/kg = milligrams per kilogram

ND = Not Detected at or above laboratory reporting limits

ESL = Environmental Screening Levels published by the San Francisco Bay Regional Water Quality Control Board Direct Exposure Human Health Risk Levels Table S-1 (Interim Final, February 2016, Revision 3)

APPENDIX A

LABORATORY ANALYTICAL DATA





Calscience



WORK ORDER NUMBER: 18-07-1307

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: SCST, Inc.

Client Project Name: San Pasqual Phase II

Attention: Doug Skinner

6280 Riverdale Street San Diego, CA 92120-3308

Tempur

Approved for release on 07/26/2018 by:

Terri Chang Project Manager

ResultLink >

Email your PM >

Eurofins Calscience (Calscience) certifies that the test results provided in this report meet all NELAC Institute requirements for parameters for which accreditation is required or available. Any exceptions to NELAC Institute requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.



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Client Project Name:	San Pasqual Phase II
Work Order Number:	18-07-1307

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3	Client Sample Data. 3.1 EPA 8015B (M) C6-C44 (Solid). 3.2 EPA 6010B/7471A CAC Title 22 Metals (Solid). 3.3 EPA 7471A Mercury (Solid). 3.4 EPA 8081A Organochlorine Pesticides (Solid).	5 10 19 21
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Work Order Narrative

Work Order: 18-07-1307 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 07/18/18. They were assigned to Work Order 18-07-1307.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

DoD Projects:

The test results contained in this report are accredited under the laboratory's ISO/IEC 17025:2005 and DoD-ELAP accreditation issued by the ANSI-ASQ National Accreditation Board. Refer to certificate and scope of accreditation ADE-1864.

18-07-1307



Sample Summary

Client: SCST, Inc. Work Order:

6280 Riverdale Street Project Name: San Pasqual Phase II

San Diego, CA 92120-3308 PO Number:

Date/Time 07/18/18 19:45

Received:

Number of 12

Containers:

Attn: Doug Skinner

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
SP-1	18-07-1307-1	07/17/18 10:45	1	Solid
SP-2	18-07-1307-2	07/17/18 11:29	1	Solid
SP-3	18-07-1307-3	07/17/18 11:13	1	Solid
SP-4	18-07-1307-4	07/17/18 12:41	1	Solid
SP-5	18-07-1307-5	07/17/18 12:29	1	Solid
SP-6	18-07-1307-6	07/17/18 12:16	1	Solid
SP-7	18-07-1307-7	07/17/18 12:00	1	Solid
SP-8	18-07-1307-8	07/17/18 11:42	1	Solid
SP-9@1FT	18-07-1307-9	07/17/18 12:58	1	Solid
SP-9@3FT	18-07-1307-10	07/17/18 13:13	1	Solid
SP-10@1FT	18-07-1307-11	07/17/18 13:27	1	Solid
SP-10@3FT	18-07-1307-12	07/17/18 13:41	1	Solid



Analytical Report

 SCST, Inc.
 Date Received:
 07/18/18

 6280 Riverdale Street
 Work Order:
 18-07-1307

 San Diego, CA 92120-3308
 Preparation:
 EPA 3550B

 Method:
 EPA 8015B (M)

 Units:
 mg/kg

Project: San Pasqual Phase II Page 1 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SP-9@1FT	18-07-1307-9-A	07/17/18 12:58	Solid	GC 46	07/23/18	07/24/18 08:24	180723B01
Parameter		Result	<u>R</u>	<u>L</u>	<u>DF</u>	Qua	lifiers
C6		ND	5.	2	1.00		
C7		ND	5.	2	1.00		
C8		ND	5.	2	1.00		
C9-C10		ND	5.	2	1.00		
C11-C12		ND	5.	2	1.00		
C13-C14		ND	5.	2	1.00		
C15-C16		ND	5.	2	1.00		
C17-C18		ND	5.	2	1.00		
C19-C20		ND	5.	2	1.00		
C21-C22		ND	5.	2	1.00		
C23-C24		ND	5.	2	1.00		
C25-C28		ND	5.	2	1.00		
C29-C32		ND	5.	2	1.00		
C33-C36		ND	5.	2	1.00		
C37-C40		ND	5.	2	1.00		
C41-C44		ND	5.	2	1.00		
C6-C44 Total		15	5.	2	1.00		
Surrogate		Rec. (%)	С	ontrol Limits	Qualifiers		

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Analytical Report

 SCST, Inc.
 Date Received:
 07/18/18

 6280 Riverdale Street
 Work Order:
 18-07-1307

 San Diego, CA 92120-3308
 Preparation:
 EPA 3550B

 Method:
 EPA 8015B (M)

 Units:
 mg/kg

Project: San Pasqual Phase II Page 2 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SP-9@3FT	18-07-1307-10-A	07/17/18 13:13	Solid	GC 46	07/23/18	07/24/18 08:44	180723B01
Parameter		Result	<u>RI</u>	<u>_</u>	<u>DF</u>	Qua	<u>llifiers</u>
C6		ND	5.	0	1.00		
C7		ND	5.	0	1.00		
C8		ND	5.	0	1.00		
C9-C10		ND	5.	0	1.00		
C11-C12		ND	5.	0	1.00		
C13-C14		ND	5.	0	1.00		
C15-C16		ND	5.	0	1.00		
C17-C18		ND	5.	0	1.00		
C19-C20		ND	5.	0	1.00		
C21-C22		ND	5.	0	1.00		
C23-C24		ND	5.	0	1.00		
C25-C28		ND	5.	0	1.00		
C29-C32		ND	5.	0	1.00		
C33-C36		ND	5.	0	1.00		
C37-C40		ND	5.	0	1.00		
C41-C44		ND	5.	0	1.00		
C6-C44 Total		12	5.	0	1.00		
Surrogate		Rec. (%)	<u>C</u>	ontrol Limits	Qualifiers		

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Analytical Report

 SCST, Inc.
 Date Received:
 07/18/18

 6280 Riverdale Street
 Work Order:
 18-07-1307

 San Diego, CA 92120-3308
 Preparation:
 EPA 3550B

 Method:
 EPA 8015B (M)

 Units:
 mg/kg

Project: San Pasqual Phase II Page 3 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SP-10@1FT	18-07-1307-11-A	07/17/18 13:27	Solid	GC 46	07/23/18	07/24/18 09:05	180723B01
Parameter		Result	RL	.	DF	Qua	lifiers
C6		ND	5.1	1	1.00		
C7		ND	5.1	1	1.00		
C8		ND	5.1	İ	1.00		
C9-C10		ND	5.1	İ	1.00		
C11-C12		ND	5.1	1	1.00		
C13-C14		ND	5.1	1	1.00		
C15-C16		ND	5.1	1	1.00		
C17-C18		ND	5.1	1	1.00		
C19-C20		ND	5.1	1	1.00		
C21-C22		ND	5.1	1	1.00		
C23-C24		ND	5.1	1	1.00		
C25-C28		12	5.1	1	1.00		
C29-C32		25	5.1	1	1.00		
C33-C36		24	5.1	1	1.00		
C37-C40		11	5.1	1	1.00		
C41-C44		8.3	5.1	Í	1.00		
C6-C44 Total		85	5.1	I	1.00		
Surrogate		Rec. (%)	Co	ontrol Limits	Qualifiers		

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Analytical Report

 SCST, Inc.
 Date Received:
 07/18/18

 6280 Riverdale Street
 Work Order:
 18-07-1307

 San Diego, CA 92120-3308
 Preparation:
 EPA 3550B

 Method:
 EPA 8015B (M)

 Units:
 mg/kg

Project: San Pasqual Phase II Page 4 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SP-10@3FT	18-07-1307-12-A	07/17/18 13:41	Solid	GC 46	07/23/18	07/24/18 09:25	180723B01
<u>Parameter</u>		Result	RI	=	<u>DF</u>	Qua	<u>llifiers</u>
C6		ND	5.0	0	1.00		
C7		ND	5.0	0	1.00		
C8		ND	5.0	0	1.00		
C9-C10		ND	5.0	0	1.00		
C11-C12		ND	5.0	0	1.00		
C13-C14		ND	5.0	0	1.00		
C15-C16		ND	5.0	0	1.00		
C17-C18		ND	5.0	0	1.00		
C19-C20		ND	5.0	0	1.00		
C21-C22		ND	5.0	0	1.00		
C23-C24		ND	5.0	0	1.00		
C25-C28		9.0	5.0	0	1.00		
C29-C32		26	5.0	0	1.00		
C33-C36		30	5.0	0	1.00		
C37-C40		16	5.0	0	1.00		
C41-C44		9.9	5.0	0	1.00		
C6-C44 Total		100	5.0	0	1.00		
Surrogate		Rec. (%)	Co	ontrol Limits	Qualifiers		

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 SCST, Inc.
 Date Received:
 07/18/18

 6280 Riverdale Street
 Work Order:
 18-07-1307

 San Diego, CA 92120-3308
 Preparation:
 EPA 3550B

 Method:
 EPA 8015B (M)

 Units:
 mg/kg

Project: San Pasqual Phase II Page 5 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-15-490-3192	N/A	Solid	GC 46	07/23/18	07/23/18 15:21	180723B01
Parameter		Result	<u>RL</u>		<u>DF</u>	Qua	<u>llifiers</u>
C6		ND	5.0		1.00		
C7		ND	5.0		1.00		
C8		ND	5.0		1.00		
C9-C10		ND	5.0		1.00		
C11-C12		ND	5.0		1.00		
C13-C14		ND	5.0		1.00		
C15-C16		ND	5.0		1.00		
C17-C18		ND	5.0		1.00		
C19-C20		ND	5.0		1.00		
C21-C22		ND	5.0		1.00		
C23-C24		ND	5.0		1.00		
C25-C28		ND	5.0		1.00		
C29-C32		ND	5.0		1.00		
C33-C36		ND	5.0		1.00		
C37-C40		ND	5.0		1.00		
C41-C44		ND	5.0		1.00		
C6-C44 Total		ND	5.0		1.00		
Surrogate		Rec. (%)	Col	ntrol Limits	Qualifiers		
n-Octacosane		101	61-	145			



 SCST, Inc.
 Date Received:
 07/18/18

 6280 Riverdale Street
 Work Order:
 18-07-1307

 San Diego, CA 92120-3308
 Preparation:
 EPA 3050B

 Method:
 EPA 6010B

 Units:
 mg/kg

Project: San Pasqual Phase II Page 1 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SP-1	18-07-1307-1-A	07/17/18 10:45	Solid	ICP 8300	07/23/18	07/25/18 18:24	180723L04
Parameter		<u>Result</u>	<u> </u>	<u> </u>	<u>DF</u>	Qua	<u>lifiers</u>
Antimony		ND	().714	0.952		
Arsenic		3.60	().714	0.952		
Barium		89.8	().476	0.952		
Beryllium		0.261	().238	0.952		
Cadmium		ND	().476	0.952		
Chromium		9.31	().238	0.952		
Cobalt		9.02	(0.238	0.952		
Copper		14.9	().476	0.952		
Lead		10.1	().476	0.952		
Molybdenum		ND	().238	0.952		
Nickel		3.07	().238	0.952		
Selenium		ND	().714	0.952		
Silver		ND	(0.238	0.952		
Thallium		ND	().714	0.952		
Vanadium		40.6	(0.238	0.952		
Zinc		101	().952	0.952		



 SCST, Inc.
 Date Received:
 07/18/18

 6280 Riverdale Street
 Work Order:
 18-07-1307

 San Diego, CA 92120-3308
 Preparation:
 EPA 3050B

 Method:
 EPA 6010B

 Units:
 mg/kg

Project: San Pasqual Phase II Page 2 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SP-2	18-07-1307-2-A	07/17/18 11:29	Solid	ICP 8300	07/23/18	07/25/18 18:38	180723L04
Parameter		Result	ļ	<u> </u>	<u>DF</u>	Qua	<u>lifiers</u>
Antimony		ND	(0.746	0.995		
Arsenic		2.11	(0.746	0.995		
Barium		122	(0.498	0.995		
Beryllium		ND	(0.249	0.995		
Cadmium		ND	(0.498	0.995		
Chromium		11.5	(0.249	0.995		
Cobalt		10.5	(0.249	0.995		
Copper		20.0	(0.498	0.995		
Lead		8.28	(0.498	0.995		
Molybdenum		ND	(0.249	0.995		
Nickel		3.60	(0.249	0.995		
Selenium		ND	(0.746	0.995		
Silver		ND	(0.249	0.995		
Thallium		ND	(0.746	0.995		
Vanadium		44.0	(0.249	0.995		
Zinc		87.4	(0.995	0.995		



 SCST, Inc.
 Date Received:
 07/18/18

 6280 Riverdale Street
 Work Order:
 18-07-1307

 San Diego, CA 92120-3308
 Preparation:
 EPA 3050B

 Method:
 EPA 6010B

 Units:
 mg/kg

Project: San Pasqual Phase II Page 3 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SP-3	18-07-1307-3-A	07/17/18 11:13	Solid	ICP 8300	07/23/18	07/25/18 18:39	180723L04
Parameter		Result		<u>RL</u>	<u>DF</u>	Qualifiers	
Antimony		ND		0.754	1.01		
Arsenic		ND		0.754	1.01		
Barium		91.0		0.503	1.01		
Beryllium		ND		0.251	1.01		
Cadmium		ND		0.503	1.01		
Chromium		10.6		0.251	1.01		
Cobalt		9.49		0.251	1.01		
Copper		17.3		0.503	1.01		
Lead		6.10		0.503	1.01		
Molybdenum		ND		0.251	1.01		
Nickel		3.23		0.251	1.01		
Selenium		ND		0.754	1.01		
Silver		ND		0.251	1.01		
Thallium		ND		0.754	1.01		
Vanadium		40.0		0.251	1.01		
Zinc		63.0		1.01	1.01		



 SCST, Inc.
 Date Received:
 07/18/18

 6280 Riverdale Street
 Work Order:
 18-07-1307

 San Diego, CA 92120-3308
 Preparation:
 EPA 3050B

 Method:
 EPA 6010B

 Units:
 mg/kg

Project: San Pasqual Phase II Page 4 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SP-4	18-07-1307-4-A	07/17/18 12:41	Solid	ICP 8300	07/23/18	07/25/18 18:40	180723L04
Parameter		Result		<u>RL</u>	<u>DF</u>	Qualifiers	
Antimony		ND	(0.781	1.04		
Arsenic		0.832	(0.781	1.04		
Barium		89.1	(0.521	1.04		
Beryllium		ND	(0.260	1.04		
Cadmium		ND	(0.521	1.04		
Chromium		12.5	(0.260	1.04		
Cobalt		9.05	(0.260	1.04		
Copper		23.3	(0.521	1.04		
Lead		6.06	(0.521	1.04		
Molybdenum		ND	(0.260	1.04		
Nickel		3.31	(0.260	1.04		
Selenium		ND	(0.781	1.04		
Silver		ND	(0.260	1.04		
Thallium		ND	(0.781	1.04		
Vanadium		37.4	(0.260	1.04		
Zinc		88.2		1.04	1.04		



 SCST, Inc.
 Date Received:
 07/18/18

 6280 Riverdale Street
 Work Order:
 18-07-1307

 San Diego, CA 92120-3308
 Preparation:
 EPA 3050B

 Method:
 EPA 6010B

 Units:
 mg/kg

Project: San Pasqual Phase II Page 5 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SP-5	18-07-1307-5-A	07/17/18 12:29	Solid	ICP 8300	07/23/18	07/25/18 18:41	180723L04
Parameter		Result	<u> </u>	<u> </u>	<u>DF</u>	Qua	<u>lifiers</u>
Antimony		ND	(0.769	1.03		
Arsenic		2.76	(0.769	1.03		
Barium		98.8	(0.513	1.03		
Beryllium		ND	(0.256	1.03		
Cadmium		ND	().513	1.03		
Chromium		12.6	(0.256	1.03		
Cobalt		9.80	(0.256	1.03		
Copper		19.9	().513	1.03		
Lead		9.58	().513	1.03		
Molybdenum		ND	(0.256	1.03		
Nickel		3.75	(0.256	1.03		
Selenium		ND	().769	1.03		
Silver		ND	(0.256	1.03		
Thallium		ND	().769	1.03		
Vanadium		43.9	().256	1.03		
Zinc		210		1.03	1.03		



 SCST, Inc.
 Date Received:
 07/18/18

 6280 Riverdale Street
 Work Order:
 18-07-1307

 San Diego, CA 92120-3308
 Preparation:
 EPA 3050B

 Method:
 EPA 6010B

 Units:
 mg/kg

Project: San Pasqual Phase II Page 6 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SP-6	18-07-1307-6-A	07/17/18 12:16	Solid	ICP 8300	07/23/18	07/25/18 18:41	180723L04
Parameter		Result		<u>RL</u>	<u>DF</u>	Qua	<u>llifiers</u>
Antimony		ND		0.758	1.01		
Arsenic		1.46		0.758	1.01		
Barium		96.4		0.505	1.01		
Beryllium		ND		0.253	1.01		
Cadmium		ND		0.505	1.01		
Chromium		7.21		0.253	1.01		
Cobalt		8.53		0.253	1.01		
Copper		18.9		0.505	1.01		
Lead		6.90		0.505	1.01		
Molybdenum		ND		0.253	1.01		
Nickel		3.51		0.253	1.01		
Selenium		ND		0.758	1.01		
Silver		ND		0.253	1.01		
Thallium		ND		0.758	1.01		
Vanadium		36.0		0.253	1.01		
Zinc		43.9		1.01	1.01		





 SCST, Inc.
 Date Received:
 07/18/18

 6280 Riverdale Street
 Work Order:
 18-07-1307

 San Diego, CA 92120-3308
 Preparation:
 EPA 3050B

 Method:
 EPA 6010B

 Units:
 mg/kg

Project: San Pasqual Phase II Page 7 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SP-7	18-07-1307-7-A	07/17/18 12:00	Solid	ICP 8300	07/23/18	07/25/18 18:43	180723L04
Parameter		<u>Result</u>	E	<u>RL</u>	<u>DF</u>	Qua	<u>llifiers</u>
Antimony		ND	C	0.728	0.971		
Arsenic		2.49	C	0.728	0.971		
Barium		85.5	C	.485	0.971		
Beryllium		0.253	C	0.243	0.971		
Cadmium		0.492	C	.485	0.971		
Chromium		8.90	C).243	0.971		
Cobalt		9.19	C).243	0.971		
Copper		19.0	C	.485	0.971		
Lead		7.72	C	.485	0.971		
Molybdenum		ND	C).243	0.971		
Nickel		2.60	C	0.243	0.971		
Selenium		ND	C).728	0.971		
Silver		ND	C	0.243	0.971		
Thallium		ND	C).728	0.971		
Vanadium		45.2	C).243	0.971		
Zinc		139	C).971	0.971		



 SCST, Inc.
 Date Received:
 07/18/18

 6280 Riverdale Street
 Work Order:
 18-07-1307

 San Diego, CA 92120-3308
 Preparation:
 EPA 3050B

 Method:
 EPA 6010B

 Units:
 mg/kg

Project: San Pasqual Phase II Page 8 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SP-8	18-07-1307-8-A	07/17/18 11:42	Solid	ICP 8300	07/23/18	07/25/18 18:44	180723L04
Parameter		<u>Result</u>	<u> </u>	<u> </u>	<u>DF</u>	Qua	<u>llifiers</u>
Antimony		ND	().746	0.995		
Arsenic		1.83	().746	0.995		
Barium		113	(0.498	0.995		
Beryllium		ND	().249	0.995		
Cadmium		ND	(0.498	0.995		
Chromium		9.52	().249	0.995		
Cobalt		11.8	().249	0.995		
Copper		14.6	(0.498	0.995		
Lead		3.18	(0.498	0.995		
Molybdenum		ND	().249	0.995		
Nickel		3.27	().249	0.995		
Selenium		ND	().746	0.995		
Silver		ND	().249	0.995		
Thallium		ND	().746	0.995		
Vanadium		45.8	().249	0.995		
Zinc		51.7	().995	0.995		



 SCST, Inc.
 Date Received:
 07/18/18

 6280 Riverdale Street
 Work Order:
 18-07-1307

 San Diego, CA 92120-3308
 Preparation:
 EPA 3050B

 Method:
 EPA 6010B

 Units:
 mg/kg

Project: San Pasqual Phase II Page 9 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	097-01-002-26674	N/A	Solid	ICP 8300	07/23/18	07/25/18 18:21	180723L04
Parameter		Result	<u> </u>	<u>RL</u>	<u>DF</u>	Qua	<u>lifiers</u>
Antimony		ND	0	.750	1.00		
Arsenic		ND	0	.750	1.00		
Barium		ND	0	.500	1.00		
Beryllium		ND	0	.250	1.00		
Cadmium		ND	0	.500	1.00		
Chromium		ND	0	.250	1.00		
Cobalt		ND	0	.250	1.00		
Copper		ND	0	.500	1.00		
Lead		ND	0	.500	1.00		
Molybdenum		ND	0	.250	1.00		
Nickel		ND	0	.250	1.00		
Selenium		ND	0	.750	1.00		
Silver		ND	0	.250	1.00		
Thallium		ND	0	.750	1.00		
Vanadium		ND	0	.250	1.00		
Zinc		ND	1	.00	1.00		



SCST, Inc.			Date Re	eceived:			07/18/18
6280 Riverdale Street		,	Work O	rder:			18-07-1307
San Diego, CA 92120-3308			Prepara	tion:		EP	A 7471A Total
			Method				EPA 7471A
			Units:				mg/kg
Project: San Pasqual Phase II						Pa	age 1 of 2
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SP-1	18-07-1307-1-A	07/17/18 10:45	Solid	Mercury 08	07/25/18	07/25/18 13:19	180725L01
<u>Parameter</u>		Result		<u>RL</u>	DF	Qua	alifiers
Mercury		ND		0.0794	1.00		
SP-2	18-07-1307-2-A	07/17/18 11:29	Solid	Mercury 08	07/25/18	07/25/18 13:21	180725L01
<u>Parameter</u>		Result		<u>RL</u>	<u>DF</u>	Qua	<u>alifiers</u>
Mercury		ND		0.0794	1.00		
SP-3	18-07-1307-3-A	07/17/18 11:13	Solid	Mercury 08	07/25/18	07/25/18 13:23	180725L01
Parameter		Result		<u>RL</u>	<u>DF</u>	Qua	alifiers
Mercury		ND		0.0820	1.00		
SP-4	18-07-1307-4-A	07/17/18 12:41	Solid	Mercury 08	07/25/18	07/25/18 13:26	180725L01
<u>Parameter</u>		Result		<u>RL</u>	<u>DF</u>	Qua	alifiers
Mercury		ND		0.0794	1.00		
SP-5	18-07-1307-5-A	07/17/18 12:29	Solid	Mercury 08	07/25/18	07/25/18 13:28	180725L01
<u>Parameter</u>		Result		<u>RL</u>	<u>DF</u>	Qua	alifiers
Mercury		ND		0.0806	1.00		
SP-6	18-07-1307-6-A	07/17/18 12:16	Solid	Mercury 08	07/25/18	07/25/18 13:35	180725L01
<u>Parameter</u>		Result		<u>RL</u>	<u>DF</u>	Qua	<u>alifiers</u>
Mercury		ND		0.0806	1.00		
SP-7	18-07-1307-7-A	07/17/18 12:00	Solid	Mercury 08	07/25/18	07/25/18 13:37	180725L01
<u>Parameter</u>		Result		<u>RL</u>	<u>DF</u>	Qua	<u>alifiers</u>
Mercury		ND		0.0833	1.00		
SP-8	18-07-1307-8-A	07/17/18 11:42	Solid	Mercury 08	07/25/18	07/25/18 13:39	180725L01
<u>Parameter</u>		Result		<u>RL</u>	<u>DF</u>	Qua	<u>alifiers</u>
Mercury		ND		0.0794	1.00		



 SCST, Inc.
 Date Received:
 07/18/18

 6280 Riverdale Street
 Work Order:
 18-07-1307

 San Diego, CA 92120-3308
 Preparation:
 EPA 7471A Total

 Method:
 EPA 7471A

 Units:
 mg/kg

Project: San Pasqual Phase II Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-16-272-4000	N/A	Solid	Mercury 08	07/25/18	07/25/18 13:07	180725L01
<u>Parameter</u>		Result	<u>R</u>	<u>L</u>	<u>DF</u>	Qua	<u>llifiers</u>
Mercury		ND	0.	0820	1.00		





 SCST, Inc.
 Date Received:
 07/18/18

 6280 Riverdale Street
 Work Order:
 18-07-1307

 San Diego, CA 92120-3308
 Preparation:
 EPA 3545

Method: EPA 8081A Units: ug/kg

Project: San Pasqual Phase II Page 1 of 10

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SP-1	18-07-1307-1-A	07/17/18 10:45	Solid	GC 44	07/19/18	07/23/18 13:14	180719L02
Parameter		Result	RL		DF	Qua	alifiers
Aldrin		ND	4.9	1	1.00		
Alpha-BHC		ND	9.8		1.00		
Beta-BHC		ND	4.9	1	1.00		
Chlordane		350	49		1.00		
4,4'-DDD		ND	4.9	1	1.00		
4,4'-DDE		ND	4.9)	1.00		
4,4'-DDT		ND	4.9	1	1.00		
Delta-BHC		ND	9.8		1.00		
Dieldrin		30	4.9)	1.00		
Endosulfan I		ND	4.9	1	1.00		
Endosulfan II		ND	4.9)	1.00		
Endosulfan Sulfate		ND	4.9)	1.00		
Endrin		ND	4.9	1	1.00		
Endrin Aldehyde		ND	4.9	1	1.00		
Endrin Ketone		ND	4.9)	1.00		
Gamma-BHC		ND	4.9	1	1.00		
Heptachlor		ND	4.9)	1.00		
Heptachlor Epoxide		ND	9.8	1	1.00		
Methoxychlor		ND	4.9	1	1.00		
Toxaphene		ND	98		1.00		
Surrogate		Rec. (%)	<u>Co</u>	ntrol Limits	<u>Qualifiers</u>		
Decachlorobiphenyl		122	24-	168			
2,4,5,6-Tetrachloro-m-Xylene		87	25-	145			



 SCST, Inc.
 Date Received:
 07/18/18

 6280 Riverdale Street
 Work Order:
 18-07-1307

 San Diego, CA 92120-3308
 Preparation:
 EPA 3545

Method: EPA 8081A Units: ug/kg

Project: San Pasqual Phase II Page 2 of 10

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SP-2	18-07-1307-2-A	07/17/18 11:29	Solid	GC 44	07/19/18	07/24/18 11:15	180719L02
Parameter		Result	<u>R</u>	<u> </u>	<u>DF</u>	Qua	<u>alifiers</u>
Aldrin		ND	4.	9	1.00		
Alpha-BHC		ND	9.	8	1.00		
Beta-BHC		ND	4.	9	1.00		
Chlordane		340	49	9	1.00		
4,4'-DDD		ND	4.	9	1.00		
4,4'-DDE		ND	4.	9	1.00		
4,4'-DDT		ND	4.	9	1.00		
Delta-BHC		ND	9.	8	1.00		
Dieldrin		26	4.	9	1.00		
Endosulfan I		ND	4.	9	1.00		
Endosulfan II		ND	4.	9	1.00		
Endosulfan Sulfate		ND	4.	9	1.00		
Endrin		ND	4.	9	1.00		
Endrin Aldehyde		ND	4.	9	1.00		
Endrin Ketone		ND	4.	9	1.00		
Gamma-BHC		ND	4.	9	1.00		
Heptachlor		ND	4.	9	1.00		
Heptachlor Epoxide		ND	9.	8	1.00		
Methoxychlor		ND	4.	9	1.00		
Toxaphene		ND	98	3	1.00		
Surrogate		Rec. (%)	<u>C</u>	ontrol Limits	<u>Qualifiers</u>		
Decachlorobiphenyl		104	24	1-168			
2,4,5,6-Tetrachloro-m-Xylene		94	25	5-145			



 SCST, Inc.
 Date Received:
 07/18/18

 6280 Riverdale Street
 Work Order:
 18-07-1307

 San Diego, CA 92120-3308
 Preparation:
 EPA 3545

Method: EPA 8081A Units: ug/kg

Project: San Pasqual Phase II Page 3 of 10

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SP-3	18-07-1307-3-A	07/17/18 11:13	Solid	GC 51	07/24/18	07/26/18 13:43	180724L04
Parameter		Result	<u> </u>	<u>RL</u>	<u>DF</u>	Qua	<u>alifiers</u>
Aldrin		ND	5	5.0	1.00		
Alpha-BHC		ND	1	0	1.00		
Beta-BHC		ND	5	5.0	1.00		
Chlordane		100	5	50	1.00		
4,4'-DDD		ND	5	5.0	1.00		
4,4'-DDE		ND	5	5.0	1.00		
4,4'-DDT		ND	5	5.0	1.00		
Delta-BHC		ND	1	0	1.00		
Dieldrin		12	5	5.0	1.00		
Endosulfan I		ND	5	5.0	1.00		
Endosulfan II		ND	5	5.0	1.00		
Endosulfan Sulfate		ND	5	5.0	1.00		
Endrin		ND	5	5.0	1.00		
Endrin Aldehyde		ND	5	5.0	1.00		
Endrin Ketone		ND	5	5.0	1.00		
Gamma-BHC		ND	5	5.0	1.00		
Heptachlor		ND	5	5.0	1.00		
Heptachlor Epoxide		ND	1	0	1.00		
Methoxychlor		ND	5	5.0	1.00		
Toxaphene		ND	1	00	1.00		
Surrogate		Rec. (%)	<u>C</u>	Control Limits	<u>Qualifiers</u>		
Decachlorobiphenyl		113	2	24-168			
2,4,5,6-Tetrachloro-m-Xylene		83	2	25-145			



 SCST, Inc.
 Date Received:
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 6280 Riverdale Street
 Work Order:
 18-07-1307

 San Diego, CA 92120-3308
 Preparation:
 EPA 3545

Method: EPA 8081A Units: ug/kg

Project: San Pasqual Phase II Page 4 of 10

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SP-4	18-07-1307-4-A	07/17/18 12:41	Solid	GC 44	07/19/18	07/23/18 13:43	180719L02
Parameter		Result	RL	=	<u>DF</u>	Qua	<u>llifiers</u>
Aldrin		ND	4.9	9	1.00		
Alpha-BHC		ND	9.9	9	1.00		
Beta-BHC		ND	4.9	9	1.00		
Chlordane		ND	49	1	1.00		
4,4'-DDD		ND	4.9	9	1.00		
4,4'-DDE		ND	4.9	9	1.00		
4,4'-DDT		ND	4.9	9	1.00		
Delta-BHC		ND	9.9	9	1.00		
Dieldrin		ND	4.9	9	1.00		
Endosulfan I		ND	4.9	9	1.00		
Endosulfan II		ND	4.9	9	1.00		
Endosulfan Sulfate		ND	4.9	9	1.00		
Endrin		ND	4.9	9	1.00		
Endrin Aldehyde		ND	4.9	9	1.00		
Endrin Ketone		ND	4.9	9	1.00		
Gamma-BHC		ND	4.9	9	1.00		
Heptachlor		ND	4.9	9	1.00		
Heptachlor Epoxide		ND	9.9	9	1.00		
Methoxychlor		ND	4.9	9	1.00		
Toxaphene		ND	99	1	1.00		
Surrogate		Rec. (%)	<u>Cc</u>	ontrol Limits	<u>Qualifiers</u>		
Decachlorobiphenyl		37	24	-168			
2,4,5,6-Tetrachloro-m-Xylene		43	25	-145			



 SCST, Inc.
 Date Received:
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 6280 Riverdale Street
 Work Order:
 18-07-1307

 San Diego, CA 92120-3308
 Preparation:
 EPA 3545

Method: EPA 8081A Units: ug/kg

Project: San Pasqual Phase II Page 5 of 10

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SP-5	18-07-1307-5-A	07/17/18 12:29	Solid	GC 44	07/19/18	07/23/18 13:57	180719L02
<u>Parameter</u>		Result	RI	=	<u>DF</u>	Qua	<u>llifiers</u>
Aldrin		ND	4.9	9	1.00		
Alpha-BHC		ND	9.8	8	1.00		
Beta-BHC		ND	4.9	9	1.00		
Chlordane		67	49)	1.00		
4,4'-DDD		ND	4.9	9	1.00		
4,4'-DDE		10	4.9	9	1.00		
4,4'-DDT		ND	4.9	9	1.00		
Delta-BHC		ND	9.8	8	1.00		
Dieldrin		35	4.9	9	1.00		
Endosulfan I		ND	4.9	9	1.00		
Endosulfan II		ND	4.9	9	1.00		
Endosulfan Sulfate		ND	4.9	9	1.00		
Endrin		ND	4.9	9	1.00		
Endrin Aldehyde		ND	4.9	9	1.00		
Endrin Ketone		ND	4.9	9	1.00		
Gamma-BHC		ND	4.9	9	1.00		
Heptachlor		ND	4.9	9	1.00		
Heptachlor Epoxide		ND	9.8	8	1.00		
Methoxychlor		ND	4.9	9	1.00		
Toxaphene		ND	98	3	1.00		
<u>Surrogate</u>		Rec. (%)	<u>Cc</u>	ontrol Limits	<u>Qualifiers</u>		
Decachlorobiphenyl		45	24	l-168			
2,4,5,6-Tetrachloro-m-Xylene		44	25	5-145			



 SCST, Inc.
 Date Received:
 07/18/18

 6280 Riverdale Street
 Work Order:
 18-07-1307

 San Diego, CA 92120-3308
 Preparation:
 EPA 3545

Method: EPA 8081A Units: ug/kg

Project: San Pasqual Phase II Page 6 of 10

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SP-6	18-07-1307-6-A	07/17/18 12:16	Solid	GC 44	07/19/18	07/23/18 14:11	180719L02
<u>Parameter</u>		Result	<u>R</u>	<u>L</u>	<u>DF</u>	Qua	<u>lifiers</u>
Aldrin		ND	4.	9	1.00		
Alpha-BHC		ND	9.	8	1.00		
Beta-BHC		ND	4.	9	1.00		
Chlordane		ND	49	9	1.00		
4,4'-DDD		ND	4.	9	1.00		
4,4'-DDE		ND	4.	9	1.00		
4,4'-DDT		ND	4.	9	1.00		
Delta-BHC		ND	9.	8	1.00		
Dieldrin		ND	4.	9	1.00		
Endosulfan I		ND	4.	9	1.00		
Endosulfan II		ND	4.	9	1.00		
Endosulfan Sulfate		ND	4.	9	1.00		
Endrin		ND	4.	9	1.00		
Endrin Aldehyde		ND	4.	9	1.00		
Endrin Ketone		ND	4.	9	1.00		
Gamma-BHC		ND	4.	9	1.00		
Heptachlor		ND	4.	9	1.00		
Heptachlor Epoxide		ND	9.	8	1.00		
Methoxychlor		ND	4.	9	1.00		
Toxaphene		ND	98	3	1.00		
Surrogate		Rec. (%)	<u>C</u>	ontrol Limits	<u>Qualifiers</u>		
Decachlorobiphenyl		82	24	1-168			
2,4,5,6-Tetrachloro-m-Xylene		72	25	5-145			



 SCST, Inc.
 Date Received:
 07/18/18

 6280 Riverdale Street
 Work Order:
 18-07-1307

 San Diego, CA 92120-3308
 Preparation:
 EPA 3545

 Method:
 EPA 8081A

Units: ug/kg
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Project: San Pasqual Phase II

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SP-7	18-07-1307-7-A	07/17/18 12:00	Solid	GC 44	07/19/18	07/23/18 14:25	180719L02
Parameter		Result	<u>R</u>	<u>L</u>	<u>DF</u>	Qua	<u>llifiers</u>
Aldrin		ND	4.	9	1.00		
Alpha-BHC		ND	9.	9	1.00		
Beta-BHC		ND	4.	9	1.00		
Chlordane		110	49	9	1.00		
4,4'-DDD		ND	4.	9	1.00		
4,4'-DDE		ND	4.	9	1.00		
4,4'-DDT		ND	4.	9	1.00		
Delta-BHC		ND	9.	9	1.00		
Endosulfan I		ND	4.	9	1.00		
Endosulfan II		ND	4.	9	1.00		
Endosulfan Sulfate		ND	4.	9	1.00		
Endrin		ND	4.	9	1.00		
Endrin Aldehyde		ND	4.	9	1.00		
Endrin Ketone		ND	4.	9	1.00		
Gamma-BHC		ND	4.	9	1.00		
Heptachlor		ND	4.	9	1.00		
Heptachlor Epoxide		ND	9.	9	1.00		
Methoxychlor		ND	4.	9	1.00		
Toxaphene		ND	99)	1.00		
Surrogate		Rec. (%)	<u>C</u>	ontrol Limits	<u>Qualifiers</u>		
Decachlorobiphenyl		76	24	1-168			
2,4,5,6-Tetrachloro-m-Xylene		65	25	5-145			

SP-7	18-07-1307-7-A	07/17/18 12:00	Solid	GC 44	07/19/18	07/24/18 10:51	180719L02
<u>Parameter</u>		Result	<u>F</u>	<u>RL</u>	<u>DF</u>	Qua	alifiers
Dieldrin		33	2	5	5.00		
<u>Surrogate</u>		Rec. (%)	<u>C</u>	Control Limits	<u>Qualifiers</u>		
Decachlorobiphenyl		81	2	4-168			
2,4,5,6-Tetrachloro-m-Xylene		72	2	5-145			



 SCST, Inc.
 Date Received:
 07/18/18

 6280 Riverdale Street
 Work Order:
 18-07-1307

 San Diego, CA 92120-3308
 Preparation:
 EPA 3545

Method: EPA 8081A Units: ug/kg

Project: San Pasqual Phase II Page 8 of 10

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SP-8	18-07-1307-8-A	07/17/18 11:42	Solid	GC 44	07/19/18	07/23/18 14:40	180719L02
Parameter		Result	RI	<u>L</u>	<u>DF</u>	Qua	<u>lifiers</u>
Aldrin		ND	4.	9	1.00		
Alpha-BHC		ND	9.	8	1.00		
Beta-BHC		ND	4.	9	1.00		
Chlordane		ND	49	9	1.00		
4,4'-DDD		ND	4.	9	1.00		
4,4'-DDE		ND	4.	9	1.00		
4,4'-DDT		ND	4.	9	1.00		
Delta-BHC		ND	9.	8	1.00		
Dieldrin		ND	4.	9	1.00		
Endosulfan I		ND	4.	9	1.00		
Endosulfan II		ND	4.	9	1.00		
Endosulfan Sulfate		ND	4.	9	1.00		
Endrin		ND	4.	9	1.00		
Endrin Aldehyde		ND	4.	9	1.00		
Endrin Ketone		ND	4.	9	1.00		
Gamma-BHC		ND	4.	9	1.00		
Heptachlor		ND	4.	9	1.00		
Heptachlor Epoxide		ND	9.	8	1.00		
Methoxychlor		ND	4.	9	1.00		
Toxaphene		ND	98	3	1.00		
Surrogate		Rec. (%)	<u>C</u>	ontrol Limits	<u>Qualifiers</u>		
Decachlorobiphenyl		87	24	1-168			
2,4,5,6-Tetrachloro-m-Xylene		82	25	5-145			



 SCST, Inc.
 Date Received:
 07/18/18

 6280 Riverdale Street
 Work Order:
 18-07-1307

 San Diego, CA 92120-3308
 Preparation:
 EPA 3545

Method: EPA 8081A Units: ug/kg

Project: San Pasqual Phase II Page 9 of 10

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-537-2986	N/A	Solid	GC 44	07/19/18	07/19/18 15:23	180719L02
<u>Parameter</u>		Result	<u>R</u>	<u>L</u>	<u>DF</u>	Qua	<u>llifiers</u>
Aldrin		ND	5	.0	1.00		
Alpha-BHC		ND	1	0	1.00		
Beta-BHC		ND	5	.0	1.00		
Chlordane		ND	5	0	1.00		
4,4'-DDD		ND	5	.0	1.00		
4,4'-DDE		ND	5	.0	1.00		
4,4'-DDT		ND	5	.0	1.00		
Delta-BHC		ND	10	0	1.00		
Dieldrin		ND	5	.0	1.00		
Endosulfan I		ND	5	.0	1.00		
Endosulfan II		ND	5	.0	1.00		
Endosulfan Sulfate		ND	5	.0	1.00		
Endrin		ND	5	.0	1.00		
Endrin Aldehyde		ND	5	.0	1.00		
Endrin Ketone		ND	5	.0	1.00		
Gamma-BHC		ND	5	.0	1.00		
Heptachlor		ND	5	.0	1.00		
Heptachlor Epoxide		ND	10	0	1.00		
Methoxychlor		ND	5	.0	1.00		
Toxaphene		ND	1	00	1.00		
Surrogate		Rec. (%)	<u>C</u>	ontrol Limits	<u>Qualifiers</u>		
Decachlorobiphenyl		89	2	4-168			
2,4,5,6-Tetrachloro-m-Xylene		104	2	5-145			



 SCST, Inc.
 Date Received:
 07/18/18

 6280 Riverdale Street
 Work Order:
 18-07-1307

 San Diego, CA 92120-3308
 Preparation:
 EPA 3545

Method: EPA 8081A Units: ug/kg

Project: San Pasqual Phase II Page 10 of 10

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-537-2990	N/A	Solid	GC 51	07/24/18	07/26/18 13:00	180724L04
Parameter		Result	<u>R</u>	<u>L</u>	DF	Qua	<u>llifiers</u>
Aldrin		ND	5	.0	1.00		
Alpha-BHC		ND	1	0	1.00		
Beta-BHC		ND	5	.0	1.00		
Chlordane		ND	5	0	1.00		
4,4'-DDD		ND	5	.0	1.00		
4,4'-DDE		ND	5	.0	1.00		
4,4'-DDT		ND	5	.0	1.00		
Delta-BHC		ND	1	0	1.00		
Dieldrin		ND	5	.0	1.00		
Endosulfan I		ND	5	.0	1.00		
Endosulfan II		ND	5	.0	1.00		
Endosulfan Sulfate		ND	5	.0	1.00		
Endrin		ND	5	.0	1.00		
Endrin Aldehyde		ND	5	.0	1.00		
Endrin Ketone		ND	5	.0	1.00		
Gamma-BHC		ND	5	.0	1.00		
Heptachlor		ND	5	.0	1.00		
Heptachlor Epoxide		ND	1	0	1.00		
Methoxychlor		ND	5	.0	1.00		
Toxaphene		ND	1	00	1.00		
Surrogate		Rec. (%)	<u>C</u>	ontrol Limits	<u>Qualifiers</u>		
Decachlorobiphenyl		74	2	4-168			
2,4,5,6-Tetrachloro-m-Xylene		88	2	5-145			



Quality Control - Spike/Spike Duplicate

 SCST, Inc.
 Date Received:
 07/18/18

 6280 Riverdale Street
 Work Order:
 18-07-1307

 San Diego, CA 92120-3308
 Preparation:
 EPA 3550B

 Method:
 EPA 8015B (M)

 Project: San Pasqual Phase II
 Page 1 of 5

Quality Control Sample ID	Туре		Matrix	Inst	rument	Date Prepared	Date Ana	lyzed	MS/MSD Ba	tch Number
18-07-1294-1	Sample		Solid	GC	46	07/23/18	07/23/18	16:44	180723S01	
18-07-1294-1	Matrix Spike		Solid	GC	46	07/23/18	07/23/18	16:02	180723S01	
18-07-1294-1	Matrix Spike D	Duplicate	Solid	GC	46	07/23/18	07/23/18	16:23	180723S01	
Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	691.8	400.0	941.4	62	1318	156	64-130	33	0-15	3.4





Quality Control - Spike/Spike Duplicate

 SCST, Inc.
 Date Received:
 07/18/18

 6280 Riverdale Street
 Work Order:
 18-07-1307

 San Diego, CA 92120-3308
 Preparation:
 EPA 3050B

 Method:
 EPA 6010B

Project: San Pasqual Phase II Page 2 of 5

Quality Control Sample ID	Туре		Matrix	Inst	rument	Date Prepare	d Date Ana	lyzed	MS/MSD Ba	tch Number
SP-1	Sample		Solid	ICP	8300	07/23/18	07/25/18	18:24	180723S04	
SP-1	Matrix Spike		Solid	ICP	8300	07/23/18	07/25/18	18:24	180723S04	
SP-1	Matrix Spike	Duplicate	Solid	ICP	8300	07/23/18	07/25/18	18:27	180723S04	
Parameter	Sample Conc.	<u>Spike</u> <u>Added</u>	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	25.00	5.287	21	5.970	24	50-115	12	0-20	3
Arsenic	3.601	25.00	28.02	98	29.72	104	75-125	6	0-20	
Barium	89.77	25.00	116.4	106	126.2	146	75-125	8	0-20	3
Beryllium	0.2609	25.00	26.51	105	28.70	114	75-125	8	0-20	
Cadmium	ND	25.00	25.16	101	26.92	108	75-125	7	0-20	
Chromium	9.311	25.00	38.85	118	41.89	130	75-125	8	0-20	3
Cobalt	9.016	25.00	37.13	112	39.98	124	75-125	7	0-20	
Copper	14.92	25.00	41.41	106	44.64	119	75-125	8	0-20	
Lead	10.12	25.00	37.29	109	40.99	123	75-125	9	0-20	
Molybdenum	ND	25.00	21.44	86	23.17	93	75-125	8	0-20	
Nickel	3.066	25.00	27.67	98	29.61	106	75-125	7	0-20	
Selenium	ND	25.00	25.48	102	28.59	114	75-125	12	0-20	
Silver	ND	12.50	12.80	102	13.79	110	75-125	7	0-20	
Thallium	ND	25.00	24.44	98	27.55	110	75-125	12	0-20	
Vanadium	40.60	25.00	64.10	94	69.87	117	75-125	9	0-20	
Zinc	101.4	25.00	128.1	4X	138.3	4X	75-125	4X	0-20	Q



Quality Control - Spike/Spike Duplicate

 SCST, Inc.
 Date Received:
 07/18/18

 6280 Riverdale Street
 Work Order:
 18-07-1307

 San Diego, CA 92120-3308
 Preparation:
 EPA 7471A Total

 Method:
 EPA 7471A

 Project: San Pasqual Phase II
 Page 3 of 5

Quality Control Sample ID	Type		Matrix	Inst	rument	Date Prepared	Date Ana	lyzed	MS/MSD Ba	tch Number
18-07-1360-1	Sample		Solid	Mer	cury 08	07/25/18	07/25/18	13:12	180725S01	
18-07-1360-1	Matrix Spike		Solid	Mer	cury 08	07/25/18	07/25/18	13:14	180725S01	
18-07-1360-1	Matrix Spike	Matrix Spike Duplicate		Solid Mercury 08		07/25/18	07/25/18	13:16	180725S01	
Parameter	Sample Conc.	<u>Spike</u> Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.8350	0.2548	31	0.2738	33	71-137	7	0-14	3





Methoxychlor

Quality Control - Spike/Spike Duplicate

 SCST, Inc.
 Date Received:
 07/18/18

 6280 Riverdale Street
 Work Order:
 18-07-1307

 San Diego, CA 92120-3308
 Preparation:
 EPA 3545

 Method:
 EPA 8081A

Project: San Pasqual Phase II Page 4 of 5

Quality Control Sample ID	Туре		Matrix	Inst	rument	Date Prepare	ed Date Ana	llyzed	MS/MSD Ba	tch Number
18-07-1314-3	Sample		Solid	GC	44	07/19/18	07/19/18	16:06	180719S02	
18-07-1314-3	Matrix Spike		Solid	GC	44	07/19/18	07/19/18	16:20	180719S02	
18-07-1314-3	Matrix Spike	Duplicate	Solid	GC	44	07/19/18	07/19/18	16:34	180719S02	
Parameter	Sample Conc.	<u>Spike</u> <u>Added</u>	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aldrin	ND	25.00	22.32	89	25.76	103	50-135	14	0-25	
Alpha-BHC	ND	25.00	21.32	85	24.36	97	50-135	13	0-25	
Beta-BHC	ND	25.00	21.63	87	24.75	99	50-135	13	0-25	
4,4'-DDD	ND	25.00	24.90	100	29.13	117	50-135	16	0-25	
4,4'-DDE	ND	25.00	24.92	100	27.49	110	50-135	10	0-25	
4,4'-DDT	ND	25.00	25.36	101	30.07	120	50-135	17	0-25	
Delta-BHC	ND	25.00	22.87	91	25.92	104	50-135	13	0-25	
Dieldrin	ND	25.00	23.86	95	27.36	109	50-135	14	0-25	
Endosulfan I	ND	25.00	23.94	96	27.33	109	50-135	13	0-25	
Endosulfan II	ND	25.00	24.99	100	29.00	116	50-135	15	0-25	
Endosulfan Sulfate	ND	25.00	26.24	105	32.03	128	50-135	20	0-25	
Endrin	ND	25.00	19.34	77	23.68	95	50-135	20	0-25	
Endrin Aldehyde	ND	25.00	25.62	102	31.02	124	50-135	19	0-25	
Gamma-BHC	ND	25.00	21.70	87	24.81	99	50-135	13	0-25	
Heptachlor	ND	25.00	22.18	89	25.50	102	50-135	14	0-25	
Heptachlor Epoxide	ND	25.00	22.44	90	25.12	100	50-135	11	0-25	

97

33.20

133

50-135

31

0-25

ND

25.00

24.30



Methoxychlor

Quality Control - Spike/Spike Duplicate

 SCST, Inc.
 Date Received:
 07/18/18

 6280 Riverdale Street
 Work Order:
 18-07-1307

 San Diego, CA 92120-3308
 Preparation:
 EPA 3545

 Method:
 EPA 8081A

Project: San Pasqual Phase II Page 5 of 5

Quality Control Sample ID	Туре		Matrix	Inst	rument	Date Prepare	ed Date Ana	lyzed	MS/MSD Ba	tch Number
18-07-1666-5	Sample		Solid	GC	51	07/24/18	07/26/18	14:40	180724S04	
18-07-1666-5	Matrix Spike		Solid	GC	51	07/24/18	07/26/18	13:14	180724S04	
18-07-1666-5	Matrix Spike	Duplicate	Solid	GC	51	07/24/18	07/26/18	13:29	180724S04	
Parameter	Sample Conc.	<u>Spike</u> <u>Added</u>	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aldrin	ND	25.00	21.61	86	20.17	81	50-135	7	0-25	
Alpha-BHC	ND	25.00	19.71	79	19.20	77	50-135	3	0-25	
Beta-BHC	ND	25.00	20.85	83	19.95	80	50-135	4	0-25	
4,4'-DDD	ND	25.00	23.82	95	21.98	88	50-135	8	0-25	
4,4'-DDE	8.693	25.00	33.65	100	31.13	90	50-135	8	0-25	
4,4'-DDT	ND	25.00	27.97	112	24.74	99	50-135	12	0-25	
Delta-BHC	ND	25.00	21.31	85	20.07	80	50-135	6	0-25	
Dieldrin	ND	25.00	21.50	86	20.10	80	50-135	7	0-25	
Endosulfan I	ND	25.00	20.92	84	19.60	78	50-135	7	0-25	
Endosulfan II	ND	25.00	21.81	87	19.96	80	50-135	9	0-25	
Endosulfan Sulfate	ND	25.00	22.80	91	20.41	82	50-135	11	0-25	
Endrin	ND	25.00	21.12	84	19.04	76	50-135	10	0-25	
Endrin Aldehyde	ND	25.00	21.72	87	19.18	77	50-135	12	0-25	
Gamma-BHC	ND	25.00	19.45	78	18.80	75	50-135	3	0-25	
Heptachlor	ND	25.00	20.45	82	19.45	78	50-135	5	0-25	
Heptachlor Epoxide	ND	25.00	19.65	79	18.44	74	50-135	6	0-25	

90

19.82

79

50-135

13

0-25

ND

25.00

22.51



Quality Control - PDS/PDSD

 SCST, Inc.
 Date Received:
 07/18/18

 6280 Riverdale Street
 Work Order:
 18-07-1307

 San Diego, CA 92120-3308
 Preparation:
 EPA 7471A Total

 Method:
 EPA 7471A

 Project: San Pasqual Phase II
 Page 1 of 1

Quality Control Sample ID	Type		Ма	trix	Instrument	Date Prep	ared Da	te Analyzed	PDS/PDSD I Number	Batch
18-07-1360-1	Sample		So	lid	Mercury 08	07/25/18 (00:00 07/	/25/18 13:12	180725S01	
18-07-1360-1	PDS		So	lid	Mercury 08	07/25/18 (00:00 07/	/25/18 19:26	180725S01	
18-07-1360-1	PDSD		So	lid	Mercury 08	07/25/18 (00:00 07/	/25/18 19:28	180725S01	
Parameter	Sample Conc.	<u>Spike</u> <u>Added</u>	PDS Conc.	PDS %Rec.	PDSD Conc.	PDSD %Rec.	%Rec. CI	L RPD	RPD CL	Qualifiers
Mercury	ND	0.8350	0.7299	87	0.6815	82	75-125	7	0-20	

RPD: Relative Percent Difference. CL: Control Limits



 SCST, Inc.
 Date Received:
 07/18/18

 6280 Riverdale Street
 Work Order:
 18-07-1307

 San Diego, CA 92120-3308
 Preparation:
 EPA 3550B

 Method:
 EPA 8015B (M)

 Project: San Pasqual Phase II
 Page 1 of 5

Quality Control Sample ID	Туре	Matrix	Instrument	Date Prep	ared Date	Analyzed	LCS Batch Number
099-15-490-3192	LCS	Solid	GC 46	07/23/18	07/23	3/18 15:41	180723B01
Parameter		Spike Added	Conc. Recove	ered LC:	8 %Rec.	%Rec.	CL Qualifiers
TPH as Diesel		400.0	369.2	92		75-123	

07/18/18

18-07-1307 EPA 3050B

EPA 6010B





Quality Control - LCS

SCST, Inc.

6280 Riverdale Street

San Diego, CA 92120-3308

Method:

Date Received:

Work Order:

Preparation:

Method:

Project: San Pasqual Phase II Page 2 of 5

Quality Control Sample ID	Type	Matrix	Instrumen	t Date Prep	ared Date Ana	lyzed LCS Batc	h Number
097-01-002-26674	LCS	Solid	ICP 8300	07/23/18	07/25/18	18:22 180723L0	04
Parameter		Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	<u>Qualifiers</u>
Antimony		25.00	23.67	95	80-120	73-127	
Arsenic		25.00	24.18	97	80-120	73-127	
Barium		25.00	26.28	105	80-120	73-127	
Beryllium		25.00	25.62	102	80-120	73-127	
Cadmium		25.00	27.04	108	80-120	73-127	
Chromium		25.00	25.75	103	80-120	73-127	
Cobalt		25.00	27.61	110	80-120	73-127	
Copper		25.00	24.71	99	80-120	73-127	
Lead		25.00	28.38	114	80-120	73-127	
Molybdenum		25.00	24.62	98	80-120	73-127	
Nickel		25.00	27.34	109	80-120	73-127	
Selenium		25.00	23.97	96	80-120	73-127	
Silver		12.50	11.44	92	80-120	73-127	
Thallium		25.00	25.26	101	80-120	73-127	
Vanadium		25.00	24.31	97	80-120	73-127	
Zinc		25.00	26.97	108	80-120	73-127	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass



 SCST, Inc.
 Date Received:
 07/18/18

 6280 Riverdale Street
 Work Order:
 18-07-1307

 San Diego, CA 92120-3308
 Preparation:
 EPA 7471A Total

 Method:
 EPA 7471A

Project: San Pasqual Phase II Page 3 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-16-272-4000	LCS	Solid	Mercury 08	07/25/18	07/25/18 13:10	180725L01
<u>Parameter</u>		Spike Added	Conc. Recovere	ed LCS %Re	ec. %Rec	. CL Qualifiers
Mercury		0.8350	0.8266	99	85-12	1



SCST, Inc. 6280 Riverdale Street San Diego, CA 92120-3308 Date Received: Work Order: Preparation: Method: 07/18/18 18-07-1307 EPA 3545

EPA 8081A

Project: San Pasqual Phase II

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Quality Control Sample ID	Туре	Matrix	Instrument	Date Prepar	ed Date Analyze	d LCS Batch No	ımber
099-12-537-2986	LCS	Solid	GC 44	07/19/18	07/19/18 17:3	38 180719L02	
Parameter	<u>s</u>	pike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Aldrin	2	5.00	25.39	102	50-135	36-149	
Alpha-BHC	2	5.00	24.79	99	50-135	36-149	
Beta-BHC	2	5.00	22.57	90	50-135	36-149	
4,4'-DDD	2	5.00	24.98	100	50-135	36-149	
4,4'-DDE	2	5.00	24.84	99	50-135	36-149	
4,4'-DDT	2	5.00	25.62	102	50-135	36-149	
Delta-BHC	2	5.00	24.87	99	50-135	36-149	
Dieldrin	2	5.00	25.54	102	50-135	36-149	
Endosulfan I	2	5.00	25.95	104	50-135	36-149	
Endosulfan II	2	5.00	25.67	103	50-135	36-149	
Endosulfan Sulfate	2	5.00	26.66	107	50-135	36-149	
Endrin	2	5.00	23.86	95	50-135	36-149	
Endrin Aldehyde	2	5.00	26.46	106	50-135	36-149	
Gamma-BHC	2	5.00	24.52	98	50-135	36-149	
Heptachlor	2	5.00	25.62	102	50-135	36-149	
Heptachlor Epoxide	2	5.00	25.19	101	50-135	36-149	
Methoxychlor	2	5.00	25.39	102	50-135	36-149	

Total number of LCS compounds: 17
Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass



SCST, Inc. 6280 Riverdale Street San Diego, CA 92120-3308 Date Received: Work Order: Preparation: Method:

18-07-1307 EPA 3545 EPA 8081A

07/18/18

Project: San Pasqual Phase II

Page 5 of 5

Quality Control Sample ID	Туре	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number	
099-12-537-2990	LCS	Solid	GC 51	07/24/18	07/26/18 14:54	180724L04	
Parameter	<u>Spik</u>	e Added Conc.	Recovered LCS	8 %Rec.	ec. CL ME	CL Qualifiers	
Aldrin	25.0	0 22.36	89	50-	135 36-	-149	
Alpha-BHC	25.0	0 22.32	89	50-	135 36-	-149	
Beta-BHC	25.0	0 20.76	83	50-	135 36-	-149	
4,4'-DDD	25.0	0 23.47	94	50-	135 36-	-149	
4,4'-DDE	25.0	0 23.25	93	50-	135 36-	-149	
4,4'-DDT	25.0	0 23.64	95	50-	135 36-	-149	
Delta-BHC	25.0	0 21.60	86	50-	135 36-	-149	
Dieldrin	25.0	0 22.97	92	50-	135 36-	-149	
Endosulfan I	25.0	0 22.78	91	50-	135 36-	-149	
Endosulfan II	25.0	0 23.30	93	50-	135 36-	-149	
Endosulfan Sulfate	25.0	0 23.72	95	50-1	135 36-	-149	
Endrin	25.0	0 22.72	91	50-	135 36-	-149	
Endrin Aldehyde	25.0	0 23.25	93	50-	135 36-	-149	
Gamma-BHC	25.0	0 22.25	89	50-1	135 36-	-149	
Heptachlor	25.0	0 22.49	90	50-	135 36-	-149	
Heptachlor Epoxide	25.0	0 22.16	89	50-1	135 36-	-149	
Methoxychlor	25.0	0 23.30	93	50-	135 36-	-149	

Total number of LCS compounds: 17
Total number of ME compounds: 0
Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass



Sample Analysis Summary Report

Work Order: 18-07-1307				Page 1 of 1
Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 6010B	EPA 3050B	1080	ICP 8300	1
EPA 7471A	EPA 7471A Total	868	Mercury 08	1
EPA 8015B (M)	EPA 3550B	972	GC 46	1
EPA 8081A	EPA 3545	669	GC 44	1
EPA 8081A	EPA 3545	669	GC 51	1



Glossary of Terms and Qualifiers

Work Order: 18-07-1307 Page 1 of 1

0 110	
<u>Qualifiers</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
В	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.

- X % Recovery and/or RPD out-of-range.
- Z Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

Environmental Analysis Request/Chain of Custody

💸 eurofins Lancaster Laboratories	iories		# 250) 		, .	# 00 70			# alome?) }				
Environmental			AC		ŀ) 	# dr			Sample					•	
Client: SCST, Inc					-	Matrix				Analyses		Requested	ğ		For Lab Use Only	only
Project Name/#: San Pasqual Phase II		Site ID #:			□: 	<u></u>				Pres	Preservation	n Codes	8		SF #	
Project Manager: Doug Skinner		P.O.#:			ons?	pun				_		4			SCF (1)	
Sampler: Elizabeth White		PWSID #:			· _ T	Sw.		S							Preservatio	rvation Codes
Phone #: 619-269-4869		Quote #:]tn			ıəuı							H= HCl	T = Thiosulfate
ere s	CA For Compliance:	ompliance:	Yes 🗌	_ %	əmi	əlqı							M	als	N = HNO3 B	B = NaOH
		Collec	ction		osite	sto9	:.	# of C	\1808 a	82601	80108	Metal M2108	J9 sot	SS Mei	<u>ر</u>	P = H3PO4
Sample Identification		Date	Time	ds10	Comp	.esteV	Other						Səqs	: əltiT	0 = Other Remarks	ırks
SP-1		7/17/2018	10:45AM		<u> </u>	_			X					X		
SP-2		7/17/2018	11:29AM						X					X	7	
SP-3		7/17/2018	11:13AM						X					X	۲	
SP-4		7/17/2018	12:41PM						X					X	ታ	
SP-5	,	7/17/2018	12:29PM		V				X	_				X	<u>L</u> ,	
SP-6		7/17/2018	12:16PM		V				X	_				X	و	
SP-7		7/17/2018	12:00PM						X					X	1	
SP-8		7/17/2018	11:42AM		V			_	X					X	Ç,	
SP-9 @ 1 FT		7/17/2018	12:58PM	X				<u> </u>				X			6	
SP-9 @ 3 FT		7/17/2018	1:13PM	X								X			9)	
SP-10 @ 1 FT		7/17/2018	1:27PM	X								Д			ľ	
SP-10 @ 3 FT		7/17/2018	1:41PM	X								X			77	
					\dashv					_		\dashv				
								+		_		\dashv		1		
					+											
 Turnaround Time Reguested (TAT) (please check):	T) (Tasse check	Standard	rd	R R	R _e	Relinquished by	- in p	-	Date	╀	E S	eceived by:	ڇَ		Date	Time
(Rush TAT is subject to laboratory approval and surcharges.)	laboratory appro	al and surcha	rges.)		\overline{n}	ELIZ AS CIT	5	NY III	1 3 1 B	7	双		J		47/18/18	1551
Date results are needed:					2	inguishe	shed by:		Date		me	eceived by:	þ.	Ì	Safe	Time
Rush results requested by (please check):	k): E-Mail		Phone						17118118		1968	X		- 2	1/8//8	146
E-mail Address: dskinner@scst.com Phone: 760-215-8640	0				8	inquished by	d by:		Date		Firme F	Received by	þý:		Date	Time
ackage Option	eck if required)				& R	Relinquished by:	d by:		Date		Time	Received by	by:		Date	Time
Type III (Reduced non-CLP)	CT RCP				8	Relinquished by	d by:		Date	-	Time	Received by	by:		Date	Time
Type VI (Raw Data Only)	TX TRRP-13	13				inglishe	Relinquished by Commercial Carrier	mercia	Carrier							
	NTSDEC Category	Category	ō ¢		<u>.</u>							empera	fure un	Temperature upon receipt	•	ڼ
EUD Required? Yes NO	UPS Fedex Order Construction Engineering 11 C 2005 New Miland Dite I annealer DA 17601 - 117 656 2300	Ir yes, rormar:	let a control	3	SAD Now	L Holland	Pike Lan	notaco	Omer 4 17601 •	717 656	┥.					7045 0048
in u	rofins Lancaster	-aboratories -	NVIFORMITETION	י דר י	24.CD ING	¥ ⊓Olidais	TIRG, Cai	Casiai, r	, 100/I W	50-21	7.5000					0120 040/

Calscience

WORK ORDER NUMBER: 18-0075-01/430 7

SAMPLE RECEIPT CHECKLIST

COOLER ___ OF ___

CLIENT: SCS AT		DATE	: <u>07 /</u>	(8/3	<u> 2018</u>
TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sedimentary formula to the sediment of the sediment o	7_ °C (w/ CF): <u>:</u> y:)		⊠ Blank	ПS	ample
☐ Sample(s) received at ambient temperature; placed on ice for tra					~
Ambient Temperature: ☐ Air ☐ Filter			Checke	d by: <u>(</u>	<u> </u>
CUSTODY SEAL:					^ - 7 1
Cooler	Not Present	□ N/A	Checke		- N. <u>-</u>
Sample(s) ☐ Present and Intact ☐ Present but Not Intact	Not Present	□ N/A	Checke	d by: フ	28_
SAMPLE CONDITION:			Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples			Þ	O,	
COC document(s) received complete			Wins	Ø	
☐ Sampling date ☐ Sampling time ☐ Matrix 💆 Number of co	ontainers		Syms		
☐ No analysis requested ☐ Not relinquished ☐ No relinquished	ed date 🛮 No relir	quished time			
Sampler's name indicated on COC			Ø		
Sample container label(s) consistent with COC			ø		
Sample container(s) intact and in good condition			Ø		
Proper containers for analyses requested					
Sufficient volume/mass for analyses requested			ø		
Samples received within holding time			ø		
Aqueous samples for certain analyses received within 15-minute					
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved					7
Proper preservation chemical(s) noted on COC and/or sample cont					4
Unpreserved aqueous sample(s) received for certain analyses					<i>I</i>
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals					
Acid/base preserved samples - pH within acceptable range	••••••				7
Container(s) for certain analysis free of headspace		,	. 0		/प्र
□ Volatile Organics □ Dissolved Gases (RSK-175) □ Dissolved	red Oxygen (SM 45	500)			/ .
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ H	ydrogen Sulfide (Ha	ach)			
Tedlar™ bag(s) free of condensation					N N
CONTAINER TYPE:		k Lot Numbe)
Aqueous: VOA VOAh VOAna2 100PJ 100PJna2 125AGE 250AGB 250CGB 250CGBs (pH_2) 250PB 250PBn (pH_1 1AGB 1AGBna2 1AGBs (pH_2) 1AGBs (O&G) 1PB 1PBn 1AGBs (D&G) 1AGBs	2) □ 500AGB □ 500 na (pH12) □) □ TerraCores® (OAGJ 🗆 500AG 🗆	6Js (pH	2) □ 500 _ □	OPB
Container: A = Amber, B = Bottle, C = Clear, E = Envelope, G = Glass, J =	Jar, P = Plastic, and	Z = Ziploc/Res	ealable B	ag	- d
Preservative: b = buffered, f = filtered, h = HCl, n = HNO ₃ , na = NaOH, na	$_2$ = Na ₂ S ₂ O ₃ , p = H ₃ P	O₄, Labele	d/Checke	ed by: <u>/</u>	18
s = H ₂ SO ₄ , u = ultra-pure, x = Na ₂ SO ₃ +NaHSO ₄ ,H ₂ O, znna	= Zn (CH ₃ CO ₂) ₂ + Na	ОН	Reviewe	id by:	417