

APPENDIX D

LABORATORY ANALYTICAL REPORTS





25712 Commercentre Drive
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20 April 2016

Derrick Willis
Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills, CA 92653
RE: Center Cal

Enclosed are the results of analyses for samples received by the laboratory on 03/22/16 16:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Chavez
Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Center Cal
Project Number: 2047.06
Project Manager: Derrick Willis

Reported:
04/20/16 17:24

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-6	T160557-02	Water	03/22/16 15:24	03/22/16 16:00

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Chavez, Project Manager



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Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Center Cal
Project Number: 2047.06
Project Manager: Derrick Willis

Reported:
04/20/16 17:24

DETECTIONS SUMMARY

Sample ID: MW-6

Laboratory ID: T160557-02

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Tert-butyl alcohol	12000	10		ug/l	EPA 8260B	E-1
Methyl tert-butyl ether	12	1.0		ug/l	EPA 8260B	

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Northgate Environmental Management -- Laguna Hills 24411 Ridge Route Drive, Suite 130 Laguna Hills CA, 92653	Project: Center Cal Project Number: 2047.06 Project Manager: Derrick Willis	Reported: 04/20/16 17:24
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MW-6
T160557-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C4-C12 (GRO)	ND	50	ug/l	1	6032836	03/28/16	03/29/16	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		77.7 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015C

C13-C22 (DRO)	ND	0.50	mg/l	1	6032232	03/22/16	03/23/16	EPA 8015C	
C23-C32 (MORO)	ND	0.50	"	"	"	"	"	"	
Surrogate: p-Terphenyl		74.1 %	65-135		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	0.50	ug/l	1	6032314	03/23/16	03/23/16	EPA 8260B	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	12000	10	"	"	"	"	"	"	E-1
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	12	1.0	"	"	"	"	"	"	
Surrogate: Toluene-d8		102 %	88.8-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	83.5-119		"	"	"	"	
Surrogate: Dibromofluoromethane		106 %	81.1-136		"	"	"	"	

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Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
 04/20/16 17:24

Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032836 - EPA 5030 GC

Blank (6032836-BLK1)

Prepared: 03/28/16 Analyzed: 03/29/16

C4-C12 (GRO)	ND	50	ug/l							
Surrogate: 4-Bromofluorobenzene	128		"	100		128	65-135			

LCS (6032836-BS1)

Prepared: 03/28/16 Analyzed: 03/29/16

C6-C12 (GRO)	4930	50	ug/l	5500		89.6	75-125			
Surrogate: 4-Bromofluorobenzene	122		"	100		122	65-135			

LCS Dup (6032836-BSD1)

Prepared: 03/28/16 Analyzed: 03/29/16

C6-C12 (GRO)	5460	50	ug/l	5500		99.3	75-125	10.3	20	
Surrogate: 4-Bromofluorobenzene	134		"	100		134	65-135			

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Northgate Environmental Management -- Laguna Hills 24411 Ridge Route Drive, Suite 130 Laguna Hills CA, 92653	Project: Center Cal Project Number: 2047.06 Project Manager: Derrick Willis	Reported: 04/20/16 17:24
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Extractable Petroleum Hydrocarbons by 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032232 - EPA 3510C GC

Blank (6032232-BLK1)

Prepared: 03/22/16 Analyzed: 03/23/16

C23-C32 (MORO)	ND	0.50	mg/l							
C13-C22 (DRO)	ND	0.50	"							
Surrogate: <i>p</i> -Terphenyl	3.14		"	4.00		78.4	65-135			

LCS (6032232-BS1)

Prepared: 03/22/16 Analyzed: 03/23/16

C13-C28 (DRO)	17.8	0.50	mg/l	20.0		88.9	75-125			
Surrogate: <i>p</i> -Terphenyl	3.37		"	4.00		84.3	65-135			

LCS Dup (6032232-BSD1)

Prepared: 03/22/16 Analyzed: 03/23/16

C13-C28 (DRO)	17.3	0.50	mg/l	20.0		86.4	75-125	2.83	20	
Surrogate: <i>p</i> -Terphenyl	3.47		"	4.00		86.9	65-135			

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 Laguna Hills CA, 92653

Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
 04/20/16 17:24

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032314 - EPA 5030 GCMS

Blank (6032314-BLK1)

Prepared & Analyzed: 03/23/16

Benzene	ND	0.50	ug/l							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
Surrogate: Toluene-d8	8.34		"	8.00		104	88.8-117			
Surrogate: 4-Bromofluorobenzene	8.59		"	8.00		107	83.5-119			
Surrogate: Dibromofluoromethane	8.43		"	8.00		105	81.1-136			

LCS (6032314-BS1)

Prepared & Analyzed: 03/23/16

Benzene	19.7	0.50	ug/l	20.0		98.3	75-125			
Toluene	19.2	0.50	"	20.0		96.0	75-125			
Surrogate: Toluene-d8	7.85		"	8.00		98.1	88.8-117			
Surrogate: 4-Bromofluorobenzene	8.17		"	8.00		102	83.5-119			
Surrogate: Dibromofluoromethane	8.56		"	8.00		107	81.1-136			

LCS Dup (6032314-BSD1)

Prepared & Analyzed: 03/23/16

Benzene	19.8	0.50	ug/l	20.0		98.9	75-125	0.609	20	
Toluene	20.1	0.50	"	20.0		101	75-125	4.68	20	
Surrogate: Toluene-d8	8.03		"	8.00		100	88.8-117			
Surrogate: 4-Bromofluorobenzene	8.27		"	8.00		103	83.5-119			
Surrogate: Dibromofluoromethane	8.48		"	8.00		106	81.1-136			

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Northgate Environmental Management -- Laguna Hills
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Project: Center Cal
Project Number: 2047.06
Project Manager: Derrick Willis

Reported:
04/20/16 17:24

Notes and Definitions

- E-1 The final dilution was lower than the original data or previous dilutions. The highest recovered concentration was reported even though it was above calibration range.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

SunStar Laboratories, Inc.

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Daniel Chavez, Project Manager

SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: T160557

Client Name: Northgate Env. (Lag) Project: Center Cal

Delivered by: Client SunStar Courier GSO FedEx Other

If Courier, Received by: Aaron Date/Time Courier Received: 10:00

Lab Received by: Joey Date/Time Lab Received: 3/22/16 16:23

Total number of coolers received:

Temperature:	Cooler #1	16.2 °C +/- the CF (-0.2°C) = 15.8	°C corrected temperature
Temperature:	Cooler #2	°C +/- the CF (-0.2°C) =	°C corrected temperature
Temperature:	Cooler #3	°C +/- the CF (-0.2°C) =	°C corrected temperature
Temperature criteria = ≤ 6°C (no frozen containers)		Within criteria?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If NO:			
Samples received on ice?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No → Complete Non-Conformance Sheet
If on ice, samples received same day collected?		<input checked="" type="checkbox"/> Yes → Acceptable	<input type="checkbox"/> No → Complete Non-Conformance Sheet

Custody seals intact on cooler/sample Yes No* N/A

Sample containers intact Yes No*

Sample labels match Chain of Custody IDs Yes No*

Total number of containers received match COC Yes No*

Proper containers received for analyses requested on COC Yes No*

Proper preservative indicated on COC/containers for analyses requested Yes No* N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times Yes No*

* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date: SH 3/22/16

Comments:

WORK ORDER

T160557

Client: Northgate Environmental Management -- Laguna **Project Manager:** Daniel Chavez
Project: Center Cal **Project Number:** 2047.06

Report To:
 Northgate Environmental Management -- Laguna Hills
 Derrick Willis
 24411 Ridge Route Drive, Suite 130
 Laguna Hills, CA 92653

Date Due: 03/25/16 15:00 (3 day TAT)
 Received By: Aaron Martinez Date Received: 03/22/16 16:00
 Logged In By: JOEY M Date Logged In: 03/22/16 16:46

Samples Received at: 16°C
 Custody Seals No Received On Ice Yes
 Containers Intact Yes
 COC/Labels Agree Yes
 Preservation Confin Yes

Analysis	Due	TAT	Expires	Comments
T160557-01 TB-03222016-A [Water] Sampled 03/22/16 14:20 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				HOLD
T160557-02 MW-6 [Water] Sampled 03/22/16 15:24 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	03/25/16 15:00	3	03/29/16 15:24	
8260 BTEX/OXY	03/25/16 15:00	3	04/05/16 15:24	



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20 April 2016

Derrick Willis
Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills, CA 92653
RE: Center Cal

Enclosed are the results of analyses for samples received by the laboratory on 03/23/16 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Daniel J. Chavez". The signature is written in a cursive style.

Daniel Chavez
Project Manager



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Northgate Environmental Management -- Laguna Hills
 24411 Ridge Route Drive, Suite 130
 Laguna Hills CA, 92653

Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
 04/20/16 17:25

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B-4-5.0	T160578-05	Soil	03/23/16 09:10	03/23/16 16:30
B-4-9.0	T160578-06	Soil	03/23/16 09:16	03/23/16 16:30
B-2-5.0	T160578-07	Soil	03/23/16 10:10	03/23/16 16:30
B-8-5.0	T160578-08	Soil	03/23/16 11:00	03/23/16 16:30
B-8-10.0	T160578-09	Soil	03/23/16 11:10	03/23/16 16:30
B-9-1.0	T160578-10	Soil	03/23/16 12:40	03/23/16 16:30
B-9-5.0	T160578-11	Soil	03/23/16 12:44	03/23/16 16:30
B-9-10.0	T160578-12	Soil	03/23/16 12:50	03/23/16 16:30
B-9-15.0	T160578-13	Soil	03/23/16 13:02	03/23/16 16:30

SunStar Laboratories, Inc.

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Daniel Chavez, Project Manager

Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Center Cal
Project Number: 2047.06
Project Manager: Derrick Willis

Reported:
04/20/16 17:25

DETECTIONS SUMMARY

Sample ID: B-4-5.0

Laboratory ID: T160578-05

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	99	1.0		mg/kg	EPA 6010B	
Chromium	14	2.0		mg/kg	EPA 6010B	
Cobalt	8.4	2.0		mg/kg	EPA 6010B	
Copper	14	1.0		mg/kg	EPA 6010B	
Nickel	11	2.0		mg/kg	EPA 6010B	
Vanadium	28	5.0		mg/kg	EPA 6010B	
Zinc	15	1.0		mg/kg	EPA 6010B	

Sample ID: B-4-9.0

Laboratory ID: T160578-06

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	100	1.0		mg/kg	EPA 6010B	
Chromium	9.6	2.0		mg/kg	EPA 6010B	
Cobalt	6.8	2.0		mg/kg	EPA 6010B	
Copper	9.2	1.0		mg/kg	EPA 6010B	
Nickel	9.6	2.0		mg/kg	EPA 6010B	
Vanadium	21	5.0		mg/kg	EPA 6010B	
Zinc	11	1.0		mg/kg	EPA 6010B	

Sample ID: B-2-5.0

Laboratory ID: T160578-07

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	89	1.0		mg/kg	EPA 6010B	
Chromium	17	2.0		mg/kg	EPA 6010B	
Cobalt	12	2.0		mg/kg	EPA 6010B	
Copper	14	1.0		mg/kg	EPA 6010B	
Nickel	14	2.0		mg/kg	EPA 6010B	
Vanadium	37	5.0		mg/kg	EPA 6010B	
Zinc	19	1.0		mg/kg	EPA 6010B	

SunStar Laboratories, Inc.



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Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Center Cal
Project Number: 2047.06
Project Manager: Derrick Willis

Reported:
04/20/16 17:25

Sample ID: B-8-5.0

Laboratory ID: T160578-08

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	77	1.0		mg/kg	EPA 6010B	
Chromium	14	2.0		mg/kg	EPA 6010B	
Cobalt	8.6	2.0		mg/kg	EPA 6010B	
Copper	12	1.0		mg/kg	EPA 6010B	
Nickel	11	2.0		mg/kg	EPA 6010B	
Vanadium	28	5.0		mg/kg	EPA 6010B	
Zinc	15	1.0		mg/kg	EPA 6010B	

Sample ID: B-8-10.0

Laboratory ID: T160578-09

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Arsenic	8.0	5.0		mg/kg	EPA 6010B	
Barium	70	1.0		mg/kg	EPA 6010B	
Chromium	11	2.0		mg/kg	EPA 6010B	
Cobalt	7.2	2.0		mg/kg	EPA 6010B	
Copper	7.4	1.0		mg/kg	EPA 6010B	
Nickel	9.6	2.0		mg/kg	EPA 6010B	
Vanadium	21	5.0		mg/kg	EPA 6010B	
Zinc	13	1.0		mg/kg	EPA 6010B	

Sample ID: B-9-1.0

Laboratory ID: T160578-10

No Results Detected

Sample ID: B-9-5.0

Laboratory ID: T160578-11

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	43	1.0		mg/kg	EPA 6010B	
Chromium	9.2	2.0		mg/kg	EPA 6010B	
Cobalt	5.6	2.0		mg/kg	EPA 6010B	
Copper	5.6	1.0		mg/kg	EPA 6010B	
Nickel	6.8	2.0		mg/kg	EPA 6010B	
Vanadium	16	5.0		mg/kg	EPA 6010B	

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24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Center Cal
Project Number: 2047.06
Project Manager: Derrick Willis

Reported:
04/20/16 17:25

Sample ID: B-9-5.0

Laboratory ID: T160578-11

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Zinc	9.9	1.0		mg/kg	EPA 6010B	
PCB-1254	13	10		ug/kg	EPA 8082	

Sample ID: B-9-10.0

Laboratory ID: T160578-12

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Arsenic	5.0	5.0		mg/kg	EPA 6010B	
Barium	99	1.0		mg/kg	EPA 6010B	
Chromium	17	2.0		mg/kg	EPA 6010B	
Cobalt	10	2.0		mg/kg	EPA 6010B	
Copper	20	1.0		mg/kg	EPA 6010B	
Nickel	14	2.0		mg/kg	EPA 6010B	
Vanadium	34	5.0		mg/kg	EPA 6010B	
Zinc	19	1.0		mg/kg	EPA 6010B	
PCB-1254	11	10		ug/kg	EPA 8082	

Sample ID: B-9-15.0

Laboratory ID: T160578-13

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	89	1.0		mg/kg	EPA 6010B	
Chromium	14	2.0		mg/kg	EPA 6010B	
Cobalt	7.4	2.0		mg/kg	EPA 6010B	
Copper	15	1.0		mg/kg	EPA 6010B	
Nickel	11	2.0		mg/kg	EPA 6010B	
Vanadium	27	5.0		mg/kg	EPA 6010B	
Zinc	15	1.0		mg/kg	EPA 6010B	

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Daniel Chavez, Project Manager



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Northgate Environmental Management -- Laguna Hills 24411 Ridge Route Drive, Suite 130 Laguna Hills CA, 92653	Project: Center Cal Project Number: 2047.06 Project Manager: Derrick Willis	Reported: 04/20/16 17:25
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B-4-5.0
T160578-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C4-C12 (GRO)	ND	350	ug/kg	1	6032417	03/24/16	03/24/16	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		115 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015C

C13-C22 (DRO)	ND	10	mg/kg	1	6032426	03/24/16	03/25/16	EPA 8015C	
C23-C32 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		98.7 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	6032325	03/24/16	03/24/16	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	99	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	14	2.0	"	"	"	"	"	"	
Cobalt	8.4	2.0	"	"	"	"	"	"	
Copper	14	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	11	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	28	5.0	"	"	"	"	"	"	
Zinc	15	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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B-4-5.0
T160578-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	6032326	03/24/16	03/24/16	EPA 7471A Soil	
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Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	4.1	ug/kg	1	6032415	03/24/16	03/24/16	EPA 8260B/5035	
Toluene	ND	4.1	"	"	"	"	"	"	
Ethylbenzene	ND	4.1	"	"	"	"	"	"	
m,p-Xylene	ND	8.2	"	"	"	"	"	"	
o-Xylene	ND	4.1	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	16	"	"	"	"	"	"	
Tert-butyl alcohol	ND	41	"	"	"	"	"	"	
Di-isopropyl ether	ND	16	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	16	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	16	"	"	"	"	"	"	
Surrogate: Toluene-d8		108 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		158 %	95.7-135		"	"	"	"	S-GC

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B-4-9.0
T160578-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C4-C12 (GRO)	ND	360	ug/kg	1	6032417	03/24/16	03/24/16	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		84.9 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015C

C13-C22 (DRO)	ND	10	mg/kg	1	6032426	03/24/16	03/25/16	EPA 8015C	
C23-C32 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		102 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	6032325	03/24/16	03/24/16	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	100	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	9.6	2.0	"	"	"	"	"	"	
Cobalt	6.8	2.0	"	"	"	"	"	"	
Copper	9.2	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	9.6	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	21	5.0	"	"	"	"	"	"	
Zinc	11	1.0	"	"	"	"	"	"	

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B-4-9.0
T160578-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	6032326	03/24/16	03/24/16	EPA 7471A Soil	
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Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	4.3	ug/kg	1	6032415	03/24/16	03/24/16	EPA 8260B/5035	
Toluene	ND	4.3	"	"	"	"	"	"	
Ethylbenzene	ND	4.3	"	"	"	"	"	"	
m,p-Xylene	ND	8.6	"	"	"	"	"	"	
o-Xylene	ND	4.3	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	17	"	"	"	"	"	"	
Tert-butyl alcohol	ND	43	"	"	"	"	"	"	
Di-isopropyl ether	ND	17	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	17	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	17	"	"	"	"	"	"	
Surrogate: Toluene-d8		107 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		166 %	95.7-135		"	"	"	"	S-GC

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B-2-5.0
T160578-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C4-C12 (GRO)	ND	380	ug/kg	1	6032417	03/24/16	03/24/16	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		67.3 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015C

C13-C22 (DRO)	ND	10	mg/kg	1	6032426	03/24/16	03/25/16	EPA 8015C	
C23-C32 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		92.9 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	6032325	03/24/16	03/25/16	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	89	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	17	2.0	"	"	"	"	"	"	
Cobalt	12	2.0	"	"	"	"	"	"	
Copper	14	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	14	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	37	5.0	"	"	"	"	"	"	
Zinc	19	1.0	"	"	"	"	"	"	

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B-2-5.0
T160578-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	6032326	03/24/16	03/24/16	EPA 7471A Soil	
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Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	4.3	ug/kg	1	6032415	03/24/16	03/24/16	EPA 8260B/5035	
Toluene	ND	4.3	"	"	"	"	"	"	
Ethylbenzene	ND	4.3	"	"	"	"	"	"	
m,p-Xylene	ND	8.6	"	"	"	"	"	"	
o-Xylene	ND	4.3	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	17	"	"	"	"	"	"	
Tert-butyl alcohol	ND	43	"	"	"	"	"	"	
Di-isopropyl ether	ND	17	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	17	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	17	"	"	"	"	"	"	
Surrogate: Toluene-d8		97.5 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.9 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		158 %	95.7-135		"	"	"	"	S-GC

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B-8-5.0
T160578-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C4-C12 (GRO)	ND	390	ug/kg	1	6032417	03/24/16	03/24/16	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		95.6 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015C

C13-C22 (DRO)	ND	10	mg/kg	1	6032426	03/24/16	03/25/16	EPA 8015C	
C23-C32 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		92.1 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	6032325	03/24/16	03/24/16	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	77	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	14	2.0	"	"	"	"	"	"	
Cobalt	8.6	2.0	"	"	"	"	"	"	
Copper	12	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	11	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	28	5.0	"	"	"	"	"	"	
Zinc	15	1.0	"	"	"	"	"	"	

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B-8-5.0
T160578-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	6032326	03/24/16	03/24/16	EPA 7471A Soil	
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B-8-10.0
T160578-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C4-C12 (GRO)	ND	370	ug/kg	1	6032417	03/24/16	03/24/16	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		73.6 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015C

C13-C22 (DRO)	ND	10	mg/kg	1	6032426	03/24/16	03/25/16	EPA 8015C	
C23-C32 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		105 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	6032325	03/24/16	03/24/16	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	8.0	5.0	"	"	"	"	"	"	
Barium	70	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	11	2.0	"	"	"	"	"	"	
Cobalt	7.2	2.0	"	"	"	"	"	"	
Copper	7.4	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	9.6	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	21	5.0	"	"	"	"	"	"	
Zinc	13	1.0	"	"	"	"	"	"	

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B-8-10.0
T160578-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	6032326	03/24/16	03/24/16	EPA 7471A Soil	
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B-9-1.0
T160578-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6032328	03/23/16	03/28/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		66.8 %		35-140	"	"	"	"	
Surrogate: Decachlorobiphenyl		35.6 %		35-140	"	"	"	"	

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B-9-5.0
T160578-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C4-C12 (GRO)	ND	350	ug/kg	1	6032417	03/24/16	03/24/16	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		95.1 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015C

C23-C32 (MORO)	ND	10	mg/kg	1	6032426	03/24/16	03/25/16	EPA 8015C	
C13-C22 (DRO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		103 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	6032325	03/24/16	03/25/16	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	43	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	9.2	2.0	"	"	"	"	"	"	
Cobalt	5.6	2.0	"	"	"	"	"	"	
Copper	5.6	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	6.8	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	16	5.0	"	"	"	"	"	"	
Zinc	9.9	1.0	"	"	"	"	"	"	

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B-9-5.0
T160578-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	6032326	03/24/16	03/24/16	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6032328	03/23/16	03/28/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene	63.5 %	35-140	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl	43.1 %	35-140	"	"	"	"	"	"	

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B-9-5.0
T160578-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	6032327	03/23/16	03/28/16	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	13	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		116 %	35-140		"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		125 %	35-140		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	4.5	ug/kg	1	6032415	03/24/16	03/24/16	EPA 8260B/5035	
Bromochloromethane	ND	4.5	"	"	"	"	"	"	
Bromodichloromethane	ND	4.5	"	"	"	"	"	"	
Bromoform	ND	4.5	"	"	"	"	"	"	
Bromomethane	ND	4.5	"	"	"	"	"	"	
n-Butylbenzene	ND	4.5	"	"	"	"	"	"	
sec-Butylbenzene	ND	4.5	"	"	"	"	"	"	
tert-Butylbenzene	ND	4.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	4.5	"	"	"	"	"	"	
Chlorobenzene	ND	4.5	"	"	"	"	"	"	
Chloroethane	ND	4.5	"	"	"	"	"	"	
Chloroform	ND	4.5	"	"	"	"	"	"	
Chloromethane	ND	4.5	"	"	"	"	"	"	
2-Chlorotoluene	ND	4.5	"	"	"	"	"	"	
4-Chlorotoluene	ND	4.5	"	"	"	"	"	"	
Dibromochloromethane	ND	4.5	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	9.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	4.5	"	"	"	"	"	"	
Dibromomethane	ND	4.5	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	4.5	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	4.5	"	"	"	"	"	"	

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Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
 04/20/16 17:25

B-9-5.0
T160578-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,4-Dichlorobenzene	ND	4.5	ug/kg	1	6032415	03/24/16	03/24/16	EPA 8260B/5035	
Dichlorodifluoromethane	ND	4.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.5	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.5	"	"	"	"	"	"	
1,3-Dichloropropane	ND	4.5	"	"	"	"	"	"	
2,2-Dichloropropane	ND	4.5	"	"	"	"	"	"	
1,1-Dichloropropene	ND	4.5	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.5	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.5	"	"	"	"	"	"	
Hexachlorobutadiene	ND	4.5	"	"	"	"	"	"	
Isopropylbenzene	ND	4.5	"	"	"	"	"	"	
p-Isopropyltoluene	ND	4.5	"	"	"	"	"	"	
Methylene chloride	ND	4.5	"	"	"	"	"	"	
Naphthalene	ND	4.5	"	"	"	"	"	"	
n-Propylbenzene	ND	4.5	"	"	"	"	"	"	
Styrene	ND	4.5	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	4.5	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	4.5	"	"	"	"	"	"	
Tetrachloroethene	ND	4.5	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	4.5	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	4.5	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	4.5	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	4.5	"	"	"	"	"	"	
Trichloroethene	ND	4.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	4.5	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	4.5	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	4.5	"	"	"	"	"	"	

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B-9-5.0
T160578-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2,4-Trimethylbenzene	ND	4.5	ug/kg	1	6032415	03/24/16	03/24/16	EPA 8260B/5035	
Vinyl chloride	ND	4.5	"	"	"	"	"	"	
Benzene	ND	4.5	"	"	"	"	"	"	
Toluene	ND	4.5	"	"	"	"	"	"	
Ethylbenzene	ND	4.5	"	"	"	"	"	"	
m,p-Xylene	ND	9.0	"	"	"	"	"	"	
o-Xylene	ND	4.5	"	"	"	"	"	"	
Surrogate: Toluene-d8		105 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		168 %	95.7-135		"	"	"	"	S-GC

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	300	ug/kg	1	6032329	03/23/16	03/25/16	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	

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Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
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B-9-5.0
T160578-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Benzo (g,h,i) perylene	ND	1000	ug/kg	1	6032329	03/23/16	03/25/16	EPA 8270C	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	

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B-9-5.0
T160578-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Indeno (1,2,3-cd) pyrene	ND	300	ug/kg	1	6032329	03/23/16	03/25/16	EPA 8270C	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		56.9 %	15-121		"	"	"	"	
Surrogate: Phenol-d6		58.6 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		66.6 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		65.2 %	32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		91.4 %	18.1-105		"	"	"	"	
Surrogate: Terphenyl-d14		89.8 %	29.1-130		"	"	"	"	

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B-9-10.0
T160578-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C4-C12 (GRO)	ND	440	ug/kg	1	6032417	03/24/16	03/24/16	EPA 8015C	
<i>Surrogate: 4-Bromofluorobenzene</i>		112 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015C

C23-C32 (MORO)	ND	10	mg/kg	1	6032426	03/24/16	03/25/16	EPA 8015C	
C13-C22 (DRO)	ND	10	"	"	"	"	"	"	
<i>Surrogate: p-Terphenyl</i>		96.9 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	6032325	03/24/16	03/24/16	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	5.0	5.0	"	"	"	"	"	"	
Barium	99	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	17	2.0	"	"	"	"	"	"	
Cobalt	10	2.0	"	"	"	"	"	"	
Copper	20	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	14	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	34	5.0	"	"	"	"	"	"	
Zinc	19	1.0	"	"	"	"	"	"	

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B-9-10.0
T160578-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	6032326	03/24/16	03/24/16	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6032328	03/23/16	03/28/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene	67.4 %	35-140	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl	51.4 %	35-140	"	"	"	"	"	"	

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Daniel Chavez, Project Manager



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B-9-10.0
T160578-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	6032327	03/23/16	03/28/16	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	11	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		121 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		126 %	35-140		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	6.7	ug/kg	1	6032415	03/24/16	03/24/16	EPA 8260B/5035	
Bromochloromethane	ND	6.7	"	"	"	"	"	"	
Bromodichloromethane	ND	6.7	"	"	"	"	"	"	
Bromoform	ND	6.7	"	"	"	"	"	"	
Bromomethane	ND	6.7	"	"	"	"	"	"	
n-Butylbenzene	ND	6.7	"	"	"	"	"	"	
sec-Butylbenzene	ND	6.7	"	"	"	"	"	"	
tert-Butylbenzene	ND	6.7	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.7	"	"	"	"	"	"	
Chlorobenzene	ND	6.7	"	"	"	"	"	"	
Chloroethane	ND	6.7	"	"	"	"	"	"	
Chloroform	ND	6.7	"	"	"	"	"	"	
Chloromethane	ND	6.7	"	"	"	"	"	"	
2-Chlorotoluene	ND	6.7	"	"	"	"	"	"	
4-Chlorotoluene	ND	6.7	"	"	"	"	"	"	
Dibromochloromethane	ND	6.7	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	13	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	6.7	"	"	"	"	"	"	
Dibromomethane	ND	6.7	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	6.7	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	6.7	"	"	"	"	"	"	

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B-9-10.0
T160578-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,4-Dichlorobenzene	ND	6.7	ug/kg	1	6032415	03/24/16	03/24/16	EPA 8260B/5035	
Dichlorodifluoromethane	ND	6.7	"	"	"	"	"	"	
1,1-Dichloroethane	ND	6.7	"	"	"	"	"	"	
1,2-Dichloroethane	ND	6.7	"	"	"	"	"	"	
1,1-Dichloroethene	ND	6.7	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	6.7	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	6.7	"	"	"	"	"	"	
1,2-Dichloropropane	ND	6.7	"	"	"	"	"	"	
1,3-Dichloropropane	ND	6.7	"	"	"	"	"	"	
2,2-Dichloropropane	ND	6.7	"	"	"	"	"	"	
1,1-Dichloropropene	ND	6.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	6.7	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	6.7	"	"	"	"	"	"	
Hexachlorobutadiene	ND	6.7	"	"	"	"	"	"	
Isopropylbenzene	ND	6.7	"	"	"	"	"	"	
p-Isopropyltoluene	ND	6.7	"	"	"	"	"	"	
Methylene chloride	ND	6.7	"	"	"	"	"	"	
Naphthalene	ND	6.7	"	"	"	"	"	"	
n-Propylbenzene	ND	6.7	"	"	"	"	"	"	
Styrene	ND	6.7	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	6.7	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	6.7	"	"	"	"	"	"	
Tetrachloroethene	ND	6.7	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	6.7	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	6.7	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	6.7	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	6.7	"	"	"	"	"	"	
Trichloroethene	ND	6.7	"	"	"	"	"	"	
Trichlorofluoromethane	ND	6.7	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	6.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	6.7	"	"	"	"	"	"	

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B-9-10.0
T160578-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2,4-Trimethylbenzene	ND	6.7	ug/kg	1	6032415	03/24/16	03/24/16	EPA 8260B/5035	
Vinyl chloride	ND	6.7	"	"	"	"	"	"	
Benzene	ND	6.7	"	"	"	"	"	"	
Toluene	ND	6.7	"	"	"	"	"	"	
Ethylbenzene	ND	6.7	"	"	"	"	"	"	
m,p-Xylene	ND	13	"	"	"	"	"	"	
o-Xylene	ND	6.7	"	"	"	"	"	"	
Surrogate: Toluene-d8		104 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		159 %	95.7-135		"	"	"	"	S-GC

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	300	ug/kg	1	6032329	03/23/16	03/25/16	EPA 8270C	
Aniline	ND	300	"	"	"	"	"	"	
Phenol	ND	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	

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Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
 04/20/16 17:25

B-9-10.0
T160578-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzo (g,h,i) perylene	ND	1000	ug/kg	1	6032329	03/23/16	03/25/16	EPA 8270C	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	

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B-9-10.0
T160578-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Indeno (1,2,3-cd) pyrene	ND	300	ug/kg	1	6032329	03/23/16	03/25/16	EPA 8270C	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		55.9 %	15-121		"	"	"	"	
Surrogate: Phenol-d6		58.2 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		61.5 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		66.5 %	32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		92.9 %	18.1-105		"	"	"	"	
Surrogate: Terphenyl-d14		100 %	29.1-130		"	"	"	"	

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B-9-15.0
T160578-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Purgeable Petroleum Hydrocarbons by EPA 8015C

C4-C12 (GRO)	ND	360	ug/kg	1	6032417	03/24/16	03/24/16	EPA 8015C	
<i>Surrogate: 4-Bromofluorobenzene</i>		94.6 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015C

C13-C22 (DRO)	ND	10	mg/kg	1	6032426	03/24/16	03/25/16	EPA 8015C	
C23-C32 (MORO)	ND	10	"	"	"	"	"	"	
<i>Surrogate: p-Terphenyl</i>		93.1 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	6032325	03/24/16	03/24/16	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	89	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	14	2.0	"	"	"	"	"	"	
Cobalt	7.4	2.0	"	"	"	"	"	"	
Copper	15	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	11	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	27	5.0	"	"	"	"	"	"	
Zinc	15	1.0	"	"	"	"	"	"	

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B-9-15.0
T160578-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	6032326	03/24/16	03/24/16	EPA 7471A Soil	
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Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	6032327	03/23/16	03/28/16	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		125 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		116 %	35-140		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	4.5	ug/kg	1	6032415	03/24/16	03/24/16	EPA 8260B/5035	
Bromochloromethane	ND	4.5	"	"	"	"	"	"	
Bromodichloromethane	ND	4.5	"	"	"	"	"	"	
Bromoform	ND	4.5	"	"	"	"	"	"	
Bromomethane	ND	4.5	"	"	"	"	"	"	
n-Butylbenzene	ND	4.5	"	"	"	"	"	"	
sec-Butylbenzene	ND	4.5	"	"	"	"	"	"	
tert-Butylbenzene	ND	4.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	4.5	"	"	"	"	"	"	
Chlorobenzene	ND	4.5	"	"	"	"	"	"	
Chloroethane	ND	4.5	"	"	"	"	"	"	
Chloroform	ND	4.5	"	"	"	"	"	"	
Chloromethane	ND	4.5	"	"	"	"	"	"	
2-Chlorotoluene	ND	4.5	"	"	"	"	"	"	
4-Chlorotoluene	ND	4.5	"	"	"	"	"	"	
Dibromochloromethane	ND	4.5	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	8.9	"	"	"	"	"	"	

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Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
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B-9-15.0
T160578-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dibromoethane (EDB)	ND	4.5	ug/kg	1	6032415	03/24/16	03/24/16	EPA 8260B/5035	
Dibromomethane	ND	4.5	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	4.5	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	4.5	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	4.5	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	4.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.5	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.5	"	"	"	"	"	"	
1,3-Dichloropropane	ND	4.5	"	"	"	"	"	"	
2,2-Dichloropropane	ND	4.5	"	"	"	"	"	"	
1,1-Dichloropropene	ND	4.5	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.5	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.5	"	"	"	"	"	"	
Hexachlorobutadiene	ND	4.5	"	"	"	"	"	"	
Isopropylbenzene	ND	4.5	"	"	"	"	"	"	
p-Isopropyltoluene	ND	4.5	"	"	"	"	"	"	
Methylene chloride	ND	4.5	"	"	"	"	"	"	
Naphthalene	ND	4.5	"	"	"	"	"	"	
n-Propylbenzene	ND	4.5	"	"	"	"	"	"	
Styrene	ND	4.5	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	4.5	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	4.5	"	"	"	"	"	"	
Tetrachloroethene	ND	4.5	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	4.5	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	4.5	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	4.5	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	4.5	"	"	"	"	"	"	

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B-9-15.0
T160578-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Volatile Organic Compounds by EPA Method 8260B

Trichloroethene	ND	4.5	ug/kg	1	6032415	03/24/16	03/24/16	EPA 8260B/5035	
Trichlorofluoromethane	ND	4.5	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	4.5	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	4.5	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	4.5	"	"	"	"	"	"	
Vinyl chloride	ND	4.5	"	"	"	"	"	"	
Benzene	ND	4.5	"	"	"	"	"	"	
Toluene	ND	4.5	"	"	"	"	"	"	
Ethylbenzene	ND	4.5	"	"	"	"	"	"	
m,p-Xylene	ND	8.9	"	"	"	"	"	"	
o-Xylene	ND	4.5	"	"	"	"	"	"	
Surrogate: Toluene-d8		105 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		160 %	95.7-135		"	"	"	"	S-GC

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	300	ug/kg	1	6032329	03/23/16	03/25/16	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	

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Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
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B-9-15.0
T160578-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Anthracene	ND	300	ug/kg	1	6032329	03/23/16	03/25/16	EPA 8270C
Benzo (a) anthracene	ND	300	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"
Benzo (a) pyrene	ND	300	"	"	"	"	"	"
Benzyl alcohol	ND	300	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"
4-Chloroaniline	ND	300	"	"	"	"	"	"
2-Chloronaphthalene	ND	300	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"
Chrysene	ND	300	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"
Dibenzofuran	ND	300	"	"	"	"	"	"
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"
Diethyl phthalate	ND	300	"	"	"	"	"	"
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"
Dimethyl phthalate	ND	300	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"
Fluoranthene	ND	300	"	"	"	"	"	"
Fluorene	ND	300	"	"	"	"	"	"

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B-9-15.0
T160578-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Semivolatile Organic Compounds by EPA Method 8270C

Hexachlorobenzene	ND	1500	ug/kg	1	6032329	03/23/16	03/25/16	EPA 8270C	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		53.7 %	15-121		"	"	"	"	
Surrogate: Phenol-d6		55.7 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		68.3 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		66.1 %	32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		91.0 %	18.1-105		"	"	"	"	
Surrogate: Terphenyl-d14		91.3 %	29.1-130		"	"	"	"	

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 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
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Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032417 - EPA 5035 GC

Blank (6032417-BLK1)

Prepared & Analyzed: 03/24/16

C4-C12 (GRO)	ND	400	ug/kg							
Surrogate: 4-Bromofluorobenzene	135		"	100		135	65-135			

LCS (6032417-BS1)

Prepared & Analyzed: 03/24/16

C6-C12 (GRO)	11400	400	ug/kg	11000		104	75-125			
Surrogate: 4-Bromofluorobenzene	116		"	100		116	65-135			

LCS Dup (6032417-BSD1)

Prepared & Analyzed: 03/24/16

C6-C12 (GRO)	11300	400	ug/kg	10900		103	75-125	1.30	20	
Surrogate: 4-Bromofluorobenzene	108		"	100		108	65-135			

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Extractable Petroleum Hydrocarbons by 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032426 - EPA 3550B GC

Blank (6032426-BLK1)		Prepared: 03/24/16 Analyzed: 03/25/16								
C23-C32 (MORO)	ND	10	mg/kg							
C13-C22 (DRO)	ND	10	"							
Surrogate: <i>p</i> -Terphenyl	99.0		"	99.3		99.7	65-135			
LCS (6032426-BS1)		Prepared: 03/24/16 Analyzed: 03/25/16								
C13-C28 (DRO)	450	10	mg/kg	473		94.6	75-125			
Surrogate: <i>p</i> -Terphenyl	106		"	94.6		112	65-135			
Matrix Spike (6032426-MS1)		Source: T160578-05		Prepared: 03/24/16 Analyzed: 03/25/16						
C13-C28 (DRO)	450	10	mg/kg	495	ND	90.2	75-125			
Surrogate: <i>p</i> -Terphenyl	93.2		"	98.9		94.2	65-135			
Matrix Spike Dup (6032426-MSD1)		Source: T160578-05		Prepared: 03/24/16 Analyzed: 03/25/16						
C13-C28 (DRO)	470	10	mg/kg	478	ND	98.0	75-125	4.88	20	
Surrogate: <i>p</i> -Terphenyl	95.7		"	95.5		100	65-135			

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Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032325 - EPA 3051

Blank (6032325-BLK1)

Prepared: 03/23/16 Analyzed: 03/24/16

Antimony	ND	3.0	mg/kg							
Silver	ND	2.0	"							
Arsenic	ND	5.0	"							
Barium	ND	1.0	"							
Beryllium	ND	1.0	"							
Cadmium	ND	2.0	"							
Chromium	ND	2.0	"							
Cobalt	ND	2.0	"							
Copper	ND	1.0	"							
Lead	ND	3.0	"							
Molybdenum	ND	5.0	"							
Nickel	ND	2.0	"							
Selenium	ND	5.0	"							
Thallium	ND	2.0	"							
Vanadium	ND	5.0	"							
Zinc	ND	1.0	"							

LCS (6032325-BS1)

Prepared: 03/23/16 Analyzed: 03/24/16

Arsenic	94.8	5.0	mg/kg	100		94.8	75-125			
Barium	94.7	1.0	"	100		94.7	75-125			
Cadmium	93.4	2.0	"	100		93.4	75-125			
Chromium	93.4	2.0	"	100		93.4	75-125			
Lead	95.8	3.0	"	100		95.8	75-125			

Matrix Spike (6032325-MS1)

Source: T160574-01

Prepared: 03/23/16 Analyzed: 03/24/16

Arsenic	85.3	5.0	mg/kg	98.0	3.53	83.4	75-125			
Barium	165	1.0	"	98.0	94.5	72.1	75-125			QR-04
Cadmium	82.5	2.0	"	98.0	0.354	83.7	75-125			
Chromium	91.9	2.0	"	98.0	11.2	82.3	75-125			
Lead	98.7	3.0	"	98.0	17.8	82.5	75-125			

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Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032325 - EPA 3051

Matrix Spike Dup (6032325-MSD1)	Source: T160574-01			Prepared: 03/23/16 Analyzed: 03/24/16						
Arsenic	91.1	5.0	mg/kg	99.0	3.53	88.4	75-125	6.56	20	
Barium	186	1.0	"	99.0	94.5	92.1	75-125	11.7	20	
Cadmium	86.3	2.0	"	99.0	0.354	86.8	75-125	4.61	20	
Chromium	96.7	2.0	"	99.0	11.2	86.4	75-125	5.08	20	
Lead	104	3.0	"	99.0	17.8	87.2	75-125	5.38	20	

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Cold Vapor Extraction EPA 7470/7471 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032326 - EPA 7471A Soil

Blank (6032326-BLK1)		Prepared: 03/23/16 Analyzed: 03/24/16								
Mercury	ND	0.10	mg/kg							
LCS (6032326-BS1)		Prepared: 03/23/16 Analyzed: 03/24/16								
Mercury	0.382	0.10	mg/kg	0.391		97.7	75-125			
Matrix Spike (6032326-MS1)		Source: T160578-05		Prepared: 03/23/16 Analyzed: 03/24/16						
Mercury	0.414	0.10	mg/kg	0.410	ND	101	75-125			
Matrix Spike Dup (6032326-MSD1)		Source: T160578-05		Prepared: 03/23/16 Analyzed: 03/24/16						
Mercury	0.387	0.10	mg/kg	0.385	ND	101	75-125	6.82	20	

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Organochlorine Pesticides by EPA Method 8081A - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032328 - EPA 3550 ECD/GCMS

Blank (6032328-BLK1)

Prepared: 03/23/16 Analyzed: 03/28/16

alpha-BHC	ND	5.0	ug/kg							
gamma-BHC (Lindane)	ND	5.0	"							
beta-BHC	ND	5.0	"							
delta-BHC	ND	5.0	"							
Heptachlor	ND	5.0	"							
Aldrin	ND	5.0	"							
Heptachlor epoxide	ND	5.0	"							
gamma-Chlordane	ND	5.0	"							
alpha-Chlordane	ND	5.0	"							
Endosulfan I	ND	5.0	"							
4,4'-DDE	ND	5.0	"							
Dieldrin	ND	5.0	"							
Endrin	ND	5.0	"							
4,4'-DDD	ND	5.0	"							
Endosulfan II	ND	5.0	"							
4,4'-DDT	ND	5.0	"							
Endrin aldehyde	ND	5.0	"							
Endosulfan sulfate	ND	5.0	"							
Methoxychlor	ND	10	"							
Endrin ketone	ND	5.0	"							
Toxaphene	ND	200	"							
Surrogate: Tetrachloro-meta-xylene	7.42		"	9.35		79.3	35-140			
Surrogate: Decachlorobiphenyl	5.72		"	9.35		61.2	35-140			

LCS (6032328-BS1)

Prepared: 03/23/16 Analyzed: 03/28/16

gamma-BHC (Lindane)	22.8	5.0	ug/kg	39.2		58.2	40-120			
Heptachlor	21.0	5.0	"	39.2		53.6	40-120			
Aldrin	20.0	5.0	"	39.2		51.0	40-120			
Dieldrin	20.1	5.0	"	39.2		51.2	40-120			
Endrin	23.1	5.0	"	39.2		58.9	40-120			
4,4'-DDT	24.4	5.0	"	39.2		62.2	33-147			
Surrogate: Tetrachloro-meta-xylene	5.35		"	9.79		54.6	35-140			
Surrogate: Decachlorobiphenyl	5.29		"	9.79		54.0	35-140			

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Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
 04/20/16 17:25

Organochlorine Pesticides by EPA Method 8081A - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032328 - EPA 3550 ECD/GCMS

Matrix Spike (6032328-MS1)		Source: T160573-01			Prepared: 03/23/16		Analyzed: 03/28/16	
gamma-BHC (Lindane)	22.7	5.0	ug/kg	38.0	ND	59.9	30-120	
Heptachlor	21.0	5.0	"	38.0	ND	55.2	30-120	
Aldrin	20.1	5.0	"	38.0	ND	52.9	30-120	
Dieldrin	20.1	5.0	"	38.0	ND	52.9	30-120	
Endrin	22.5	5.0	"	38.0	ND	59.3	30-120	
4,4'-DDT	27.3	5.0	"	38.0	ND	71.8	30-120	
Surrogate: Tetrachloro-meta-xylene	5.42		"	9.50		57.1	35-140	
Surrogate: Decachlorobiphenyl	4.95		"	9.50		52.1	35-140	

Matrix Spike Dup (6032328-MSD1)		Source: T160573-01			Prepared: 03/23/16		Analyzed: 03/28/16	
gamma-BHC (Lindane)	23.3	5.0	ug/kg	38.9	ND	59.9	30-120	0.0839 30
Heptachlor	22.2	5.0	"	38.9	ND	57.0	30-120	3.28 30
Aldrin	20.7	5.0	"	38.9	ND	53.1	30-120	0.473 30
Dieldrin	21.0	5.0	"	38.9	ND	53.9	30-120	1.84 30
Endrin	23.0	5.0	"	38.9	ND	59.0	30-120	0.522 30
4,4'-DDT	27.5	5.0	"	38.9	ND	70.5	30-120	1.80 30
Surrogate: Tetrachloro-meta-xylene	5.67		"	9.74		58.3	35-140	
Surrogate: Decachlorobiphenyl	5.36		"	9.74		55.1	35-140	

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Northgate Environmental Management -- Laguna Hills 24411 Ridge Route Drive, Suite 130 Laguna Hills CA, 92653	Project: Center Cal Project Number: 2047.06 Project Manager: Derrick Willis	Reported: 04/20/16 17:25
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Polychlorinated Biphenyls by EPA Method 8082 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032327 - EPA 3550 ECD/GCMS

Blank (6032327-BLK1)				Prepared: 03/23/16 Analyzed: 03/28/16						
PCB-1016	ND	10	ug/kg							
PCB-1221	ND	10	"							
PCB-1232	ND	10	"							
PCB-1242	ND	10	"							
PCB-1248	ND	10	"							
PCB-1254	ND	10	"							
PCB-1260	ND	10	"							
Surrogate: Tetrachloro-meta-xylene	10.4		"	9.31		112	35-140			
Surrogate: Decachlorobiphenyl	10.0		"	9.31		108	35-140			

LCS (6032327-BS1)				Prepared: 03/23/16 Analyzed: 03/28/16						
PCB-1016	121	10	ug/kg	98.4		123	40-130			
PCB-1260	125	10	"	98.4		127	40-130			
Surrogate: Tetrachloro-meta-xylene	12.1		"	9.84		123	35-140			
Surrogate: Decachlorobiphenyl	11.5		"	9.84		117	35-140			

LCS Dup (6032327-BSD1)				Prepared: 03/23/16 Analyzed: 03/28/16						
PCB-1016	112	10	ug/kg	96.8		115	40-130	8.44	30	
PCB-1260	122	10	"	96.8		126	40-130	2.54	30	
Surrogate: Tetrachloro-meta-xylene	12.5		"	9.68		129	35-140			
Surrogate: Decachlorobiphenyl	11.6		"	9.68		120	35-140			

SunStar Laboratories, Inc.

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Northgate Environmental Management -- Laguna Hills
 24411 Ridge Route Drive, Suite 130
 Laguna Hills CA, 92653

Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
 04/20/16 17:25

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032415 - EPA 5030 GCMS

Blank (6032415-BLK1)

Prepared & Analyzed: 03/24/16

Bromobenzene	ND	5.0	ug/kg
Bromochloromethane	ND	5.0	"
Bromodichloromethane	ND	5.0	"
Bromoform	ND	5.0	"
Bromomethane	ND	5.0	"
n-Butylbenzene	ND	5.0	"
sec-Butylbenzene	ND	5.0	"
tert-Butylbenzene	ND	5.0	"
Carbon tetrachloride	ND	5.0	"
Chlorobenzene	ND	5.0	"
Chloroethane	ND	5.0	"
Chloroform	ND	5.0	"
Chloromethane	ND	5.0	"
2-Chlorotoluene	ND	5.0	"
4-Chlorotoluene	ND	5.0	"
Dibromochloromethane	ND	5.0	"
1,2-Dibromo-3-chloropropane	ND	10	"
1,2-Dibromoethane (EDB)	ND	5.0	"
Dibromomethane	ND	5.0	"
1,2-Dichlorobenzene	ND	5.0	"
1,3-Dichlorobenzene	ND	5.0	"
1,4-Dichlorobenzene	ND	5.0	"
Dichlorodifluoromethane	ND	5.0	"
1,1-Dichloroethane	ND	5.0	"
1,2-Dichloroethane	ND	5.0	"
1,1-Dichloroethene	ND	5.0	"
cis-1,2-Dichloroethene	ND	5.0	"
trans-1,2-Dichloroethene	ND	5.0	"
1,2-Dichloropropane	ND	5.0	"
1,3-Dichloropropane	ND	5.0	"
2,2-Dichloropropane	ND	5.0	"
1,1-Dichloropropene	ND	5.0	"
cis-1,3-Dichloropropene	ND	5.0	"
trans-1,3-Dichloropropene	ND	5.0	"
Hexachlorobutadiene	ND	5.0	"
Isopropylbenzene	ND	5.0	"

SunStar Laboratories, Inc.

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Daniel Chavez, Project Manager



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Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
 04/20/16 17:25

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032415 - EPA 5030 GCMS

Blank (6032415-BLK1)

Prepared & Analyzed: 03/24/16

p-Isopropyltoluene	ND	5.0	ug/kg							
Methylene chloride	ND	5.0	"							
Naphthalene	ND	5.0	"							
n-Propylbenzene	ND	5.0	"							
Styrene	ND	5.0	"							
1,1,2,2-Tetrachloroethane	ND	5.0	"							
1,1,1,2-Tetrachloroethane	ND	5.0	"							
Tetrachloroethene	ND	5.0	"							
1,2,3-Trichlorobenzene	ND	5.0	"							
1,2,4-Trichlorobenzene	ND	5.0	"							
1,1,2-Trichloroethane	ND	5.0	"							
1,1,1-Trichloroethane	ND	5.0	"							
Trichloroethene	ND	5.0	"							
Trichlorofluoromethane	ND	5.0	"							
1,2,3-Trichloropropane	ND	5.0	"							
1,3,5-Trimethylbenzene	ND	5.0	"							
1,2,4-Trimethylbenzene	ND	5.0	"							
Vinyl chloride	ND	5.0	"							
Benzene	ND	5.0	"							
Toluene	ND	5.0	"							
Ethylbenzene	ND	5.0	"							
m,p-Xylene	ND	10	"							
o-Xylene	ND	5.0	"							
Tert-amyl methyl ether	ND	20	"							
Tert-butyl alcohol	ND	50	"							
Di-isopropyl ether	ND	20	"							
Ethyl tert-butyl ether	ND	20	"							
Methyl tert-butyl ether	ND	20	"							
<i>Surrogate: Toluene-d8</i>	44.0		"	40.0		110	85.5-116			
<i>Surrogate: 4-Bromofluorobenzene</i>	39.4		"	40.0		98.5	81.2-123			
<i>Surrogate: Dibromofluoromethane</i>	55.5		"	40.0		139	95.7-135			S-GC

SunStar Laboratories, Inc.

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Daniel Chavez, Project Manager



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Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
 04/20/16 17:25

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032415 - EPA 5030 GCMS

LCS (6032415-BS1)

Prepared & Analyzed: 03/24/16

Chlorobenzene	95.6	5.0	ug/kg	100		95.6	75-125			
1,1-Dichloroethene	82.4	5.0	"	100		82.4	75-125			
Benzene	83.5	5.0	"	100		83.5	75-125			
Toluene	81.3	5.0	"	100		81.3	75-125			
Surrogate: Toluene-d8	39.0		"	40.0		97.6	85.5-116			
Surrogate: 4-Bromofluorobenzene	45.7		"	40.0		114	81.2-123			
Surrogate: Dibromofluoromethane	53.5		"	40.0		134	95.7-135			

LCS Dup (6032415-BS1)

Prepared & Analyzed: 03/24/16

Chlorobenzene	100	5.0	ug/kg	99.8		101	75-125	5.00	20	
1,1-Dichloroethene	80.2	5.0	"	99.8		80.4	75-125	2.66	20	
Benzene	86.5	5.0	"	99.8		86.6	75-125	3.50	20	
Toluene	81.7	5.0	"	99.8		81.9	75-125	0.535	20	
Surrogate: Toluene-d8	37.2		"	39.9		93.1	85.5-116			
Surrogate: 4-Bromofluorobenzene	43.3		"	39.9		108	81.2-123			
Surrogate: Dibromofluoromethane	53.0		"	39.9		133	95.7-135			

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Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
 04/20/16 17:25

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032329 - EPA 3550 ECD/GCMS

Blank (6032329-BLK1)

Prepared: 03/23/16 Analyzed: 03/25/16

Carbazole	ND	300	ug/kg
Aniline	ND	300	"
Phenol	ND	1000	"
2-Chlorophenol	ND	1000	"
1,4-Dichlorobenzene	ND	300	"
N-Nitrosodi-n-propylamine	ND	300	"
1,2,4-Trichlorobenzene	ND	300	"
4-Chloro-3-methylphenol	ND	1000	"
2-Methylnaphthalene	ND	300	"
1-Methylnaphthalene	ND	300	"
Acenaphthene	ND	300	"
4-Nitrophenol	ND	1000	"
2,4-Dinitrotoluene	ND	300	"
Pentachlorophenol	ND	1000	"
Pyrene	ND	300	"
Acenaphthylene	ND	300	"
Anthracene	ND	300	"
Benzo (a) anthracene	ND	300	"
Benzo (b) fluoranthene	ND	300	"
Benzo (k) fluoranthene	ND	300	"
Benzo (g,h,i) perylene	ND	1000	"
Benzo (a) pyrene	ND	300	"
Benzyl alcohol	ND	300	"
Bis(2-chloroethoxy)methane	ND	300	"
Bis(2-chloroethyl)ether	ND	300	"
Bis(2-chloroisopropyl)ether	ND	300	"
Bis(2-ethylhexyl)phthalate	ND	300	"
4-Bromophenyl phenyl ether	ND	300	"
Butyl benzyl phthalate	ND	300	"
4-Chloroaniline	ND	300	"
2-Chloronaphthalene	ND	300	"
4-Chlorophenyl phenyl ether	ND	300	"
Chrysene	ND	300	"
Dibenz (a,h) anthracene	ND	300	"
Dibenzofuran	ND	300	"
Di-n-butyl phthalate	ND	300	"

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 Laguna Hills CA, 92653

Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
 04/20/16 17:25

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032329 - EPA 3550 ECD/GCMS

Blank (6032329-BLK1)

Prepared: 03/23/16 Analyzed: 03/25/16

1,2-Dichlorobenzene	ND	300	ug/kg							
1,3-Dichlorobenzene	ND	300	"							
2,4-Dichlorophenol	ND	1000	"							
Diethyl phthalate	ND	300	"							
2,4-Dimethylphenol	ND	1000	"							
Dimethyl phthalate	ND	300	"							
4,6-Dinitro-2-methylphenol	ND	1000	"							
2,4-Dinitrophenol	ND	1000	"							
2,6-Dinitrotoluene	ND	1000	"							
Di-n-octyl phthalate	ND	300	"							
Fluoranthene	ND	300	"							
Fluorene	ND	300	"							
Hexachlorobenzene	ND	1500	"							
Hexachlorobutadiene	ND	300	"							
Hexachlorocyclopentadiene	ND	1000	"							
Hexachloroethane	ND	300	"							
Indeno (1,2,3-cd) pyrene	ND	300	"							
Isophorone	ND	300	"							
2-Methylphenol	ND	1000	"							
4-Methylphenol	ND	1000	"							
Naphthalene	ND	300	"							
2-Nitroaniline	ND	300	"							
3-Nitroaniline	ND	300	"							
4-Nitroaniline	ND	300	"							
Nitrobenzene	ND	1000	"							
2-Nitrophenol	ND	1000	"							
N-Nitrosodimethylamine	ND	300	"							
N-Nitrosodiphenylamine	ND	300	"							
2,3,5,6-Tetrachlorophenol	ND	300	"							
2,3,4,6-Tetrachlorophenol	ND	300	"							
Phenanthrene	ND	300	"							
Azobenzene	ND	300	"							
Pyridine	ND	300	"							
2,4,5-Trichlorophenol	ND	1000	"							
2,4,6-Trichlorophenol	ND	1000	"							

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Daniel Chavez, Project Manager



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Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
 04/20/16 17:25

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032329 - EPA 3550 ECD/GCMS

Blank (6032329-BLK1)

Prepared: 03/23/16 Analyzed: 03/25/16

Surrogate: 2-Fluorophenol	1660		ug/kg	3310		50.2	15-121			
Surrogate: Phenol-d6	1810		"	3310		54.7	24-113			
Surrogate: Nitrobenzene-d5	1650		"	3310		49.7	21.3-119			
Surrogate: 2-Fluorobiphenyl	1910		"	3310		57.8	32.4-102			
Surrogate: 2,4,6-Tribromophenol	3530		"	3310		107	18.1-105			S-GC
Surrogate: Terphenyl-d14	3010		"	3310		90.9	29.1-130			

LCS (6032329-BS1)

Prepared: 03/23/16 Analyzed: 03/25/16

Phenol	1550	1000	ug/kg	3290		47.0	34-114			
2-Chlorophenol	1810	1000	"	3290		55.1	34-114			
1,4-Dichlorobenzene	1440	300	"	3290		44.0	34-114			
N-Nitrosodi-n-propylamine	1510	300	"	3290		46.0	30-110			
1,2,4-Trichlorobenzene	2180	300	"	3290		66.4	39-119			
4-Chloro-3-methylphenol	2420	1000	"	3290		73.6	50-130			
Acenaphthene	2050	300	"	3290		62.5	34-114			
Pentachlorophenol	2610	1000	"	3290		79.4	50-130			
Pyrene	2120	300	"	3290		64.4	30-110			
Surrogate: 2-Fluorophenol	1580		"	3290		48.1	15-121			
Surrogate: Phenol-d6	1670		"	3290		50.7	24-113			
Surrogate: Nitrobenzene-d5	1460		"	3290		44.4	21.3-119			
Surrogate: 2-Fluorobiphenyl	2180		"	3290		66.3	32.4-102			
Surrogate: 2,4,6-Tribromophenol	3080		"	3290		93.6	18.1-105			
Surrogate: Terphenyl-d14	2590		"	3290		78.8	29.1-130			

LCS Dup (6032329-BSD1)

Prepared: 03/23/16 Analyzed: 03/25/16

Phenol	1490	1000	ug/kg	3270		45.6	34-114	3.62	42	
2-Chlorophenol	1710	1000	"	3270		52.4	34-114	5.46	40	
1,4-Dichlorobenzene	1460	300	"	3270		44.6	34-114	0.864	28	
N-Nitrosodi-n-propylamine	1420	300	"	3270		43.3	30-110	6.54	38	
1,2,4-Trichlorobenzene	2000	300	"	3270		61.1	39-119	8.73	28	
4-Chloro-3-methylphenol	2110	1000	"	3270		64.5	50-130	13.6	42	
Acenaphthene	2010	300	"	3270		61.3	34-114	2.32	31	
Pentachlorophenol	2620	1000	"	3270		80.1	50-130	0.474	50	
Pyrene	2080	300	"	3270		63.5	30-110	1.98	31	
Surrogate: 2-Fluorophenol	1550		"	3270		47.3	15-121			
Surrogate: Phenol-d6	1500		"	3270		45.8	24-113			

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Northgate Environmental Management -- Laguna Hills 24411 Ridge Route Drive, Suite 130 Laguna Hills CA, 92653	Project: Center Cal Project Number: 2047.06 Project Manager: Derrick Willis	Reported: 04/20/16 17:25
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Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032329 - EPA 3550 ECD/GCMS

LCS Dup (6032329-BSD1)

Prepared: 03/23/16 Analyzed: 03/25/16

Surrogate: Nitrobenzene-d5	1570		ug/kg	3270		48.1	21.3-119			
Surrogate: 2-Fluorobiphenyl	2010		"	3270		61.6	32.4-102			
Surrogate: 2,4,6-Tribromophenol	2930		"	3270		89.5	18.1-105			
Surrogate: Terphenyl-d14	2520		"	3270		77.0	29.1-130			

SunStar Laboratories, Inc.

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Daniel Chavez, Project Manager



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Laguna Hills CA, 92653

Project: Center Cal
Project Number: 2047.06
Project Manager: Derrick Willis

Reported:
04/20/16 17:25

Notes and Definitions

- S-GC Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).
- QR-04 The percent recovery and/or RPD was outside acceptance criteria. Results accepted based upon percent recovery results in duplicate QC sample and the CCV and CCB results.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

SunStar Laboratories, Inc.

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Daniel Chavez, Project Manager



SunStar
Laboratories, Inc.

Chain of Custody Record

PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE
25712 Commerce Centre Drive, Lake Forest, CA 92630
949-297-5020

Client: Northgate Environmental Management, Inc
Address: 24111 Ridge Route #130, Laguna Hills, CA
Phone: (949) 375-7004 Fax: (949) 315-3365
Project Manager: Derrick W. Willis

Date: 3-23-2016 Page: 1 Of 1
Project Name: Center Cal
Collector: Dona R Brown Client Project #: 2047.06
Batch #: T1e0578 EDF #: _____

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270 c SVOC'S	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	OCP'S EPA8081 A	PCB'S EPA8082	Laboratory ID #	Comments/Preservative	Total # of containers
TB-03232016-A	3-23-2016	07:24	AQ	V	H												01		2
P-19-1.0		08:04	SO	GS	H												02		1
P-19-5.0		08:07		GS+V	H												03		4
P-19-8.0		08:10			H												04		4
B-4-5.0		09:10			H												05		7
B-4-9.0		09:16			A												06		7
B-2-5.0		10:10			A												07		7
B-8-5.0		11:00			A												08		4
B-8-10.0		11:10			A												09		4
B-9-1.0		12:40		GS													10		1
B-9-5.0		12:44		GS+V	A												11		7
B-9-10.0		12:50			A												12		7
B-9-15.0		13:02			A												13		7
Relinquished by: (signature) <u>Dona R Brown</u> Date / Time <u>3-23-2016 16:30</u>					Received by: (signature) <u>[Signature]</u> Date / Time <u>3-23-16 16:30</u>														
Relinquished by: (signature) _____ Date / Time _____					Received by: (signature) _____ Date / Time _____														
Relinquished by: (signature) _____ Date / Time _____					Received by: (signature) _____ Date / Time _____														
Sample disposal instructions: Disposal @ \$2.00 each _____					Return to client _____	Pickup _____													

Turn around time: 5-Day

Chain of Custody seals Y/N/N/A
Seals intact? Y/N/N/A
Received good condition/cold

Total # of containers: 62

Notes: 5.6
50 = 50:1
AQ = Aqueous
V = 40ml VOA Vial
GS = Glass Jar teflon lined lid
A = Analyze
H = Hold for instructions

COC 142935

SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: T160573

Client Name: NORTHGATE Project: CENTER CAL

Delivered by: Client SunStar Courier GSO FedEx Other

If Courier, Received by: JOEY H Date/Time Courier Received: 3.23.16 16:30

Lab Received by: _____ Date/Time Lab Received: _____

Total number of coolers received: 0

Temperature: Cooler #1	5.8 °C +/- the CF (- 0.2°C) = 5.6	°C corrected temperature
Temperature: Cooler #2	°C +/- the CF (- 0.2°C) =	°C corrected temperature
Temperature: Cooler #3	°C +/- the CF (- 0.2°C) =	°C corrected temperature
Temperature criteria = ≤ 6°C (no frozen containers)		Within criteria? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
If NO:		
Samples received on ice?	<input type="checkbox"/> Yes	<input type="checkbox"/> No → Complete Non-Conformance Sheet
If on ice, samples received same day collected?	<input type="checkbox"/> Yes → Acceptable	<input type="checkbox"/> No → Complete Non-Conformance Sheet

Custody seals intact on cooler/sample Yes No* N/A

Sample containers intact Yes No*

Sample labels match Chain of Custody IDs Yes No*

Total number of containers received match COC Yes No*

Proper containers received for analyses requested on COC Yes No*

Proper preservative indicated on COC/containers for analyses requested Yes No* N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times Yes No*

* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date: BC 3.24.16

Comments:

WORK ORDER

T160578

Client: Northgate Environmental Management -- Laguna **Project Manager:** Daniel Chavez
Project: Center Cal **Project Number:** 2047.06

Report To:

Northgate Environmental Management -- Laguna Hills
Derrick Willis
24411 Ridge Route Drive, Suite 130
Laguna Hills, CA 92653

Date Due: 03/31/16 15:00 (5 day TAT)
Received By: JOEY M Date Received: 03/23/16 16:30
Logged In By: Brian Charon Date Logged In: 03/24/16 07:33

Samples Received at: **5.6°C**
Custody Seals No Received On Ice Yes
Containers Intact Yes
COC/Labels Agree Yes
Preservation Confir Yes

Analysis	Due	TAT	Expires	Comments
T160578-01 TB-03232016-A [Water] Sampled 03/23/16 07:24 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				HOLD
T160578-02 P-19-1.0 [Soil] Sampled 03/23/16 08:04 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				HOLD
T160578-03 P-19-5.0 [Soil] Sampled 03/23/16 08:07 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				HOLD
T160578-04 P-19-8.0 [Soil] Sampled 03/23/16 08:10 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				HOLD
T160578-05 B-4-5.0 [Soil] Sampled 03/23/16 09:10 (GMT-08:00) Pacific Time (US &				
6010 Title 22	03/31/16 15:00	5	09/19/16 09:10	
8015 CC (D/MO)	03/31/16 15:00	5	04/06/16 09:10	
8015 m 5035-GRO	03/31/16 15:00	5	04/06/16 09:10	
8260 5035	03/31/16 15:00	5	04/06/16 09:10	BTEX/OXY only
T160578-06 B-4-9.0 [Soil] Sampled 03/23/16 09:16 (GMT-08:00) Pacific Time (US &				
6010 Title 22	03/31/16 15:00	5	09/19/16 09:16	
8015 CC (D/MO)	03/31/16 15:00	5	04/06/16 09:16	
8015 m 5035-GRO	03/31/16 15:00	5	04/06/16 09:16	
8260 5035	03/31/16 15:00	5	04/06/16 09:16	BTEX/OXY only

WORK ORDER

T160578

Client: Northgate Environmental Management -- Laguna **Project Manager:** Daniel Chavez
Project: Center Cal **Project Number:** 2047.06

Analysis	Due	TAT	Expires	Comments
T160578-07 B-2-5.0 [Soil] Sampled 03/23/16 10:10 (GMT-08:00) Pacific Time (US &				
6010 Title 22	03/31/16 15:00	5	09/19/16 10:10	
8015 CC (D/MO)	03/31/16 15:00	5	04/06/16 10:10	
8015 m 5035-GRO	03/31/16 15:00	5	04/06/16 10:10	
8260 5035	03/31/16 15:00	5	04/06/16 10:10	BTEX/OXY only
T160578-08 B-8-5.0 [Soil] Sampled 03/23/16 11:00 (GMT-08:00) Pacific Time (US &				
6010 Title 22	03/31/16 15:00	5	09/19/16 11:00	
8015 CC (D/MO)	03/31/16 15:00	5	04/06/16 11:00	
8015 m 5035-GRO	03/31/16 15:00	5	04/06/16 11:00	
T160578-09 B-8-10.0 [Soil] Sampled 03/23/16 11:10 (GMT-08:00) Pacific Time (US &				
6010 Title 22	03/31/16 15:00	5	09/19/16 11:10	
8015 CC (D/MO)	03/31/16 15:00	5	04/06/16 11:10	
8015 m 5035-GRO	03/31/16 15:00	5	04/06/16 11:10	
T160578-10 B-9-1.0 [Soil] Sampled 03/23/16 12:40 (GMT-08:00) Pacific Time (US &				
8081 Pesticides	03/31/16 15:00	5	04/06/16 12:40	
T160578-11 B-9-5.0 [Soil] Sampled 03/23/16 12:44 (GMT-08:00) Pacific Time (US &				
6010 Title 22	03/31/16 15:00	5	09/19/16 12:44	
8015 CC (D/MO)	03/31/16 15:00	5	04/06/16 12:44	
8015 m 5035-GRO	03/31/16 15:00	5	04/06/16 12:44	
8081 Pesticides	03/31/16 15:00	5	04/06/16 12:44	
8082 PCB	03/31/16 15:00	5	04/06/16 12:44	
8260 5035	03/31/16 15:00	5	04/06/16 12:44	
8270C	03/31/16 15:00	5	04/06/16 12:44	
T160578-12 B-9-10.0 [Soil] Sampled 03/23/16 12:50 (GMT-08:00) Pacific Time (US &				
6010 Title 22	03/31/16 15:00	5	09/19/16 12:50	
8015 CC (D/MO)	03/31/16 15:00	5	04/06/16 12:50	
8015 m 5035-GRO	03/31/16 15:00	5	04/06/16 12:50	
8081 Pesticides	03/31/16 15:00	5	04/06/16 12:50	
8082 PCB	03/31/16 15:00	5	04/06/16 12:50	
8260 5035	03/31/16 15:00	5	04/06/16 12:50	
8270C	03/31/16 15:00	5	04/06/16 12:50	

WORK ORDER

T160578

Client: Northgate Environmental Management -- Laguna	Project Manager: Daniel Chavez
Project: Center Cal	Project Number: 2047.06

Analysis	Due	TAT	Expires	Comments
T160578-13 B-9-15.0 [Soil] Sampled 03/23/16 13:02 (GMT-08:00) Pacific Time (US &				
6010 Title 22	03/31/16 15:00	5	09/19/16 13:02	
8015 CC (D/MO)	03/31/16 15:00	5	04/06/16 13:02	
8015 m 5035-GRO	03/31/16 15:00	5	04/06/16 13:02	
8082 PCB	03/31/16 15:00	5	04/06/16 13:02	
8260 5035	03/31/16 15:00	5	04/06/16 13:02	
8270C	03/31/16 15:00	5	04/06/16 13:02	

Analysis groups included in this work order

6010 Title 22

subgroup 6010B T22 7470/71 Hg



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Lake Forest, California 92630
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20 April 2016

Derrick Willis
Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills, CA 92653
RE: Center Cal

Enclosed are the results of analyses for samples received by the laboratory on 03/24/16 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Chavez
Project Manager



25712 Commercentre Drive
 Lake Forest, California 92630
 949.297.5020 Phone
 949.297.5027 Fax

Northgate Environmental Management -- Laguna Hills
 24411 Ridge Route Drive, Suite 130
 Laguna Hills CA, 92653

Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
 04/20/16 17:27

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B-3-5.0	T160585-02	Soil	03/24/16 09:48	03/24/16 17:00
B-3-10.0	T160585-03	Soil	03/24/16 09:50	03/24/16 17:00
B-3-15.0	T160585-04	Soil	03/24/16 09:55	03/24/16 17:00
B-13-5.0	T160585-05	Soil	03/24/16 10:43	03/24/16 17:00
B-13-10.0	T160585-06	Soil	03/24/16 10:45	03/24/16 17:00
B-13-15.0	T160585-07	Soil	03/24/16 11:00	03/24/16 17:00
B-1-5.0	T160585-08	Soil	03/24/16 13:08	03/24/16 17:00
B-1-10.0	T160585-09	Soil	03/24/16 13:22	03/24/16 17:00
B-1-15.0	T160585-10	Soil	03/24/16 13:32	03/24/16 17:00
B-15-5.0	T160585-11	Soil	03/24/16 15:50	03/24/16 17:00
B-15-10.0	T160585-12	Soil	03/24/16 16:03	03/24/16 17:00
B-15-15.0	T160585-13	Soil	03/24/16 16:14	03/24/16 17:00

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Daniel Chavez, Project Manager

Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Center Cal
Project Number: 2047.06
Project Manager: Derrick Willis

Reported:
04/20/16 17:27

DETECTIONS SUMMARY

Sample ID: B-3-5.0

Laboratory ID: T160585-02

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	31	1.0		mg/kg	EPA 6010B	
Chromium	7.0	2.0		mg/kg	EPA 6010B	
Cobalt	4.0	2.0		mg/kg	EPA 6010B	
Copper	3.9	1.0		mg/kg	EPA 6010B	
Nickel	5.0	2.0		mg/kg	EPA 6010B	
Vanadium	12	5.0		mg/kg	EPA 6010B	
Zinc	7.4	1.0		mg/kg	EPA 6010B	

Sample ID: B-3-10.0

Laboratory ID: T160585-03

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C4-C12 (GRO)	66000	21000		ug/kg	EPA 8015C	
C13-C22 (DRO)	640	10		mg/kg	EPA 8015C	
C23-C32 (MORO)	3200	10		mg/kg	EPA 8015C	
Barium	360	1.0		mg/kg	EPA 6010B	
Chromium	13	2.0		mg/kg	EPA 6010B	
Cobalt	7.6	2.0		mg/kg	EPA 6010B	
Copper	13	1.0		mg/kg	EPA 6010B	
Nickel	12	2.0		mg/kg	EPA 6010B	
Vanadium	25	5.0		mg/kg	EPA 6010B	
Zinc	14	1.0		mg/kg	EPA 6010B	
Benzene	5.9	5.7		ug/kg	EPA 8260B/5035	
Ethylbenzene	110	5.7		ug/kg	EPA 8260B/5035	

Sample ID: B-3-15.0

Laboratory ID: T160585-04

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	84	1.0		mg/kg	EPA 6010B	
Chromium	16	2.0		mg/kg	EPA 6010B	
Cobalt	9.7	2.0		mg/kg	EPA 6010B	
Copper	10	1.0		mg/kg	EPA 6010B	

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Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Center Cal
Project Number: 2047.06
Project Manager: Derrick Willis

Reported:
04/20/16 17:27

Sample ID: B-3-15.0

Laboratory ID: T160585-04

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Nickel	13	2.0		mg/kg	EPA 6010B	
Vanadium	28	5.0		mg/kg	EPA 6010B	
Zinc	17	1.0		mg/kg	EPA 6010B	
Tert-butyl alcohol	690	50		ug/kg	EPA 8260B/5035	

Sample ID: B-13-5.0

Laboratory ID: T160585-05

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	58	1.0		mg/kg	EPA 6010B	
Chromium	10	2.0		mg/kg	EPA 6010B	
Cobalt	6.0	2.0		mg/kg	EPA 6010B	
Copper	9.0	1.0		mg/kg	EPA 6010B	
Nickel	8.0	2.0		mg/kg	EPA 6010B	
Vanadium	21	5.0		mg/kg	EPA 6010B	
Zinc	11	1.0		mg/kg	EPA 6010B	

Sample ID: B-13-10.0

Laboratory ID: T160585-06

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Arsenic	8.3	5.0		mg/kg	EPA 6010B	
Barium	180	1.0		mg/kg	EPA 6010B	
Chromium	25	2.0		mg/kg	EPA 6010B	
Cobalt	15	2.0		mg/kg	EPA 6010B	
Copper	29	1.0		mg/kg	EPA 6010B	
Nickel	21	2.0		mg/kg	EPA 6010B	
Vanadium	47	5.0		mg/kg	EPA 6010B	
Zinc	29	1.0		mg/kg	EPA 6010B	

Sample ID: B-13-15.0

Laboratory ID: T160585-07

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	71	1.0		mg/kg	EPA 6010B	
Chromium	8.8	2.0		mg/kg	EPA 6010B	
Cobalt	5.5	2.0		mg/kg	EPA 6010B	

SunStar Laboratories, Inc.



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Northgate Environmental Management -- Laguna Hills
 24411 Ridge Route Drive, Suite 130
 Laguna Hills CA, 92653

Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
 04/20/16 17:27

Sample ID: B-13-15.0

Laboratory ID: T160585-07

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Copper	5.0	1.0		mg/kg	EPA 6010B	
Nickel	7.2	2.0		mg/kg	EPA 6010B	
Vanadium	18	5.0		mg/kg	EPA 6010B	
Zinc	9.8	1.0		mg/kg	EPA 6010B	

Sample ID: B-1-5.0

Laboratory ID: T160585-08

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	88	1.0		mg/kg	EPA 6010B	
Chromium	12	2.0		mg/kg	EPA 6010B	
Cobalt	7.4	2.0		mg/kg	EPA 6010B	
Copper	14	1.0		mg/kg	EPA 6010B	
Nickel	9.7	2.0		mg/kg	EPA 6010B	
Vanadium	25	5.0		mg/kg	EPA 6010B	
Zinc	13	1.0		mg/kg	EPA 6010B	

Sample ID: B-1-10.0

Laboratory ID: T160585-09

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C4-C12 (GRO)	480000	23000		ug/kg	EPA 8015C	
C13-C22 (DRO)	6600	100		mg/kg	EPA 8015C	
C23-C32 (MORO)	27000	100		mg/kg	EPA 8015C	
Barium	340	1.0		mg/kg	EPA 6010B	
Chromium	11	2.0		mg/kg	EPA 6010B	
Cobalt	7.5	2.0		mg/kg	EPA 6010B	
Copper	22	1.0		mg/kg	EPA 6010B	
Lead	23	3.0		mg/kg	EPA 6010B	
Nickel	13	2.0		mg/kg	EPA 6010B	
Vanadium	25	5.0		mg/kg	EPA 6010B	
Zinc	13	1.0		mg/kg	EPA 6010B	
Benzene	29	5.0		ug/kg	EPA 8260B/5035	
Toluene	11	5.0		ug/kg	EPA 8260B/5035	
Ethylbenzene	54	5.0		ug/kg	EPA 8260B/5035	

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Daniel Chavez, Project Manager



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Northgate Environmental Management -- Laguna Hills
 24411 Ridge Route Drive, Suite 130
 Laguna Hills CA, 92653

Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
 04/20/16 17:27

Sample ID: B-1-15.0

Laboratory ID: T160585-10

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C4-C12 (GRO)	130000	18000		ug/kg	EPA 8015C	
C23-C32 (MORO)	300	10		mg/kg	EPA 8015C	
C13-C22 (DRO)	94	10		mg/kg	EPA 8015C	
Barium	180	1.0		mg/kg	EPA 6010B	
Chromium	13	2.0		mg/kg	EPA 6010B	
Cobalt	8.0	2.0		mg/kg	EPA 6010B	
Copper	12	1.0		mg/kg	EPA 6010B	
Nickel	12	2.0		mg/kg	EPA 6010B	
Vanadium	26	5.0		mg/kg	EPA 6010B	
Zinc	14	1.0		mg/kg	EPA 6010B	
Benzene	19	5.0		ug/kg	EPA 8260B/5035	
Ethylbenzene	290	5.0		ug/kg	EPA 8260B/5035	

Sample ID: B-15-5.0

Laboratory ID: T160585-11

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C4-C12 (GRO)	500000	180000		ug/kg	EPA 8015C	
C23-C32 (MORO)	36	10		mg/kg	EPA 8015C	
C13-C22 (DRO)	370	10		mg/kg	EPA 8015C	
Barium	62	1.0		mg/kg	EPA 6010B	
Chromium	11	2.0		mg/kg	EPA 6010B	
Cobalt	6.3	2.0		mg/kg	EPA 6010B	
Copper	7.6	1.0		mg/kg	EPA 6010B	
Nickel	7.9	2.0		mg/kg	EPA 6010B	
Vanadium	22	5.0		mg/kg	EPA 6010B	
Zinc	12	1.0		mg/kg	EPA 6010B	
Benzene	1900	250		ug/kg	EPA 8260B/5035	
Toluene	35000	250		ug/kg	EPA 8260B/5035	
Ethylbenzene	15000	250		ug/kg	EPA 8260B/5035	
m,p-Xylene	56000	500		ug/kg	EPA 8260B/5035	
o-Xylene	23000	250		ug/kg	EPA 8260B/5035	
2-Methylnaphthalene	6600	300		ug/kg	EPA 8270C	
1-Methylnaphthalene	3700	300		ug/kg	EPA 8270C	
Naphthalene	7800	300		ug/kg	EPA 8270C	

SunStar Laboratories, Inc.

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Daniel Chavez, Project Manager

Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Center Cal
Project Number: 2047.06
Project Manager: Derrick Willis

Reported:
04/20/16 17:27

Sample ID: B-15-10.0

Laboratory ID: T160585-12

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	56	1.0		mg/kg	EPA 6010B	
Chromium	9.3	2.0		mg/kg	EPA 6010B	
Cobalt	5.7	2.0		mg/kg	EPA 6010B	
Copper	5.7	1.0		mg/kg	EPA 6010B	
Nickel	7.2	2.0		mg/kg	EPA 6010B	
Vanadium	18	5.0		mg/kg	EPA 6010B	
Zinc	11	1.0		mg/kg	EPA 6010B	
Tert-butyl alcohol	92	45		ug/kg	EPA 8260B/5035	
Methyl tert-butyl ether	92	18		ug/kg	EPA 8260B/5035	

Sample ID: B-15-15.0

Laboratory ID: T160585-13

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C4-C12 (GRO)	700	390		ug/kg	EPA 8015C	
Barium	35	1.0		mg/kg	EPA 6010B	
Chromium	6.4	2.0		mg/kg	EPA 6010B	
Cobalt	4.5	2.0		mg/kg	EPA 6010B	
Copper	4.9	1.0		mg/kg	EPA 6010B	
Nickel	5.3	2.0		mg/kg	EPA 6010B	
Vanadium	15	5.0		mg/kg	EPA 6010B	
Zinc	7.0	1.0		mg/kg	EPA 6010B	
Toluene	5.3	5.0		ug/kg	EPA 8260B/5035	
m,p-Xylene	13	10		ug/kg	EPA 8260B/5035	
Tert-butyl alcohol	5400	2500		ug/kg	EPA 8260B/5035	
Methyl tert-butyl ether	190	20		ug/kg	EPA 8260B/5035	

SunStar Laboratories, Inc.



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Daniel Chavez, Project Manager



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Northgate Environmental Management -- Laguna Hills 24411 Ridge Route Drive, Suite 130 Laguna Hills CA, 92653	Project: Center Cal Project Number: 2047.06 Project Manager: Derrick Willis	Reported: 04/20/16 17:27
--	---	-----------------------------

B-3-5.0
T160585-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C4-C12 (GRO)	ND	410	ug/kg	1	6032505	03/25/16	03/29/16	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		65.7 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015C

C13-C22 (DRO)	ND	10	mg/kg	1	6032509	03/25/16	03/25/16	EPA 8015C	
C23-C32 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		87.5 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	6032504	03/25/16	03/25/16	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	31	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	7.0	2.0	"	"	"	"	"	"	
Cobalt	4.0	2.0	"	"	"	"	"	"	
Copper	3.9	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	5.0	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	12	5.0	"	"	"	"	"	"	
Zinc	7.4	1.0	"	"	"	"	"	"	

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B-3-5.0
T160585-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	6032503	03/25/16	03/25/16	EPA 7471A Soil	
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Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	5.0	ug/kg	1	6032506	03/25/16	03/25/16	EPA 8260B/5035	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Surrogate: Toluene-d8		101 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		115 %	95.7-135		"	"	"	"	

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B-3-10.0
T160585-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C4-C12 (GRO)	66000	21000	ug/kg	50	6032505	03/25/16	03/29/16	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		80.6 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015C

C23-C32 (MORO)	3200	10	mg/kg	1	6032509	03/25/16	03/26/16	EPA 8015C	
C13-C22 (DRO)	640	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		107 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	6032504	03/25/16	03/25/16	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	360	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	13	2.0	"	"	"	"	"	"	
Cobalt	7.6	2.0	"	"	"	"	"	"	
Copper	13	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	12	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	25	5.0	"	"	"	"	"	"	
Zinc	14	1.0	"	"	"	"	"	"	

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B-3-10.0
T160585-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	6032503	03/25/16	03/25/16	EPA 7471A Soil	
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Volatile Organic Compounds by EPA Method 8260B

Benzene	5.9	5.7	ug/kg	1	6032506	03/25/16	03/25/16	EPA 8260B/5035	
Toluene	ND	5.7	"	"	"	"	"	"	
Ethylbenzene	110	5.7	"	"	"	"	"	"	
m,p-Xylene	ND	11	"	"	"	"	"	"	
o-Xylene	ND	5.7	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	23	"	"	"	"	"	"	
Tert-butyl alcohol	ND	57	"	"	"	"	"	"	
Di-isopropyl ether	ND	23	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	23	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	23	"	"	"	"	"	"	
Surrogate: Toluene-d8		86.6 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.6 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		131 %	95.7-135		"	"	"	"	

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B-3-15.0
T160585-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C4-C12 (GRO)	ND	360	ug/kg	1	6032505	03/25/16	03/29/16	EPA 8015C	
<i>Surrogate: 4-Bromofluorobenzene</i>		116 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015C

C23-C32 (MORO)	ND	10	mg/kg	1	6032509	03/25/16	03/25/16	EPA 8015C	
C13-C22 (DRO)	ND	10	"	"	"	"	"	"	
<i>Surrogate: p-Terphenyl</i>		89.9 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	6032504	03/25/16	03/25/16	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	84	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	16	2.0	"	"	"	"	"	"	
Cobalt	9.7	2.0	"	"	"	"	"	"	
Copper	10	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	13	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	28	5.0	"	"	"	"	"	"	
Zinc	17	1.0	"	"	"	"	"	"	

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B-3-15.0
T160585-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	6032503	03/25/16	03/25/16	EPA 7471A Soil	
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Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	5.0	ug/kg	1	6032506	03/25/16	03/25/16	EPA 8260B/5035	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	690	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Surrogate: Toluene-d8		101 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		107 %	95.7-135		"	"	"	"	

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B-13-5.0
T160585-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C4-C12 (GRO)	ND	390	ug/kg	1	6032505	03/25/16	03/29/16	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		66.3 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015C

C13-C22 (DRO)	ND	10	mg/kg	1	6032509	03/25/16	03/25/16	EPA 8015C	
C23-C32 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		90.1 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	6032504	03/25/16	03/25/16	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	58	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	10	2.0	"	"	"	"	"	"	
Cobalt	6.0	2.0	"	"	"	"	"	"	
Copper	9.0	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	8.0	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	21	5.0	"	"	"	"	"	"	
Zinc	11	1.0	"	"	"	"	"	"	

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B-13-5.0
T160585-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	6032503	03/25/16	03/25/16	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6032830	03/28/16	03/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene	67.9 %	35-140	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl	53.2 %	35-140	"	"	"	"	"	"	

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B-13-5.0
T160585-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	6032827	03/28/16	03/29/16	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		135 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		152 %	35-140		"	"	"	"	S-11

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	5.0	ug/kg	1	6032506	03/25/16	03/25/16	EPA 8260B/5035	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Surrogate: Toluene-d8		97.8 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.0 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		106 %	95.7-135		"	"	"	"	

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B-13-5.0
T160585-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Carbazole	ND	300	ug/kg	1	6032837	03/28/16	03/29/16	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	

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B-13-5.0
T160585-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chrysene	ND	300	ug/kg	1	6032837	03/28/16	03/29/16	EPA 8270C	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	

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B-13-5.0
T160585-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

2,3,5,6-Tetrachlorophenol	ND	300	ug/kg	1	6032837	03/28/16	03/29/16	EPA 8270C	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		55.3 %	15-121		"	"	"	"	
Surrogate: Phenol-d6		59.5 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		61.7 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		72.1 %	32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		86.2 %	18.1-105		"	"	"	"	
Surrogate: Terphenyl-d14		90.0 %	29.1-130		"	"	"	"	

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B-13-10.0
T160585-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C4-C12 (GRO)	ND	400	ug/kg	1	6032505	03/25/16	03/29/16	EPA 8015C	
<i>Surrogate: 4-Bromofluorobenzene</i>		71.5 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015C

C13-C22 (DRO)	ND	10	mg/kg	1	6032509	03/25/16	03/25/16	EPA 8015C	
C23-C32 (MORO)	ND	10	"	"	"	"	"	"	
<i>Surrogate: p-Terphenyl</i>		88.2 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	6032504	03/25/16	03/25/16	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	8.3	5.0	"	"	"	"	"	"	
Barium	180	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	25	2.0	"	"	"	"	"	"	
Cobalt	15	2.0	"	"	"	"	"	"	
Copper	29	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	21	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	47	5.0	"	"	"	"	"	"	
Zinc	29	1.0	"	"	"	"	"	"	

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B-13-10.0
T160585-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	6032503	03/25/16	03/25/16	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6032830	03/28/16	03/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene	87.8 %	35-140	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl	78.4 %	35-140	"	"	"	"	"	"	

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B-13-10.0
T160585-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	6032827	03/28/16	03/29/16	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		139 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		155 %	35-140		"	"	"	"	S-11

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	5.0	ug/kg	1	6032506	03/25/16	03/25/16	EPA 8260B/5035	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Surrogate: Toluene-d8		100 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		108 %	95.7-135		"	"	"	"	

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B-13-10.0
T160585-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Carbazole	ND	300	ug/kg	1	6032837	03/28/16	03/29/16	EPA 8270C	
Aniline	ND	300	"	"	"	"	"	"	
Phenol	ND	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	

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B-13-10.0
T160585-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chrysene	ND	300	ug/kg	1	6032837	03/28/16	03/29/16	EPA 8270C	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	

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B-13-10.0
T160585-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

2,3,5,6-Tetrachlorophenol	ND	300	ug/kg	1	6032837	03/28/16	03/29/16	EPA 8270C	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		46.5 %	15-121		"	"	"	"	
Surrogate: Phenol-d6		52.5 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		58.6 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		61.6 %	32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		77.7 %	18.1-105		"	"	"	"	
Surrogate: Terphenyl-d14		71.8 %	29.1-130		"	"	"	"	

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B-13-15.0
T160585-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C4-C12 (GRO)	ND	360	ug/kg	1	6032505	03/25/16	03/29/16	EPA 8015C	
<i>Surrogate: 4-Bromofluorobenzene</i>		102 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015C

C13-C22 (DRO)	ND	10	mg/kg	1	6032509	03/25/16	03/25/16	EPA 8015C	
C23-C32 (MORO)	ND	10	"	"	"	"	"	"	
<i>Surrogate: p-Terphenyl</i>		91.8 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	6032504	03/25/16	03/25/16	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	71	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	8.8	2.0	"	"	"	"	"	"	
Cobalt	5.5	2.0	"	"	"	"	"	"	
Copper	5.0	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	7.2	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	18	5.0	"	"	"	"	"	"	
Zinc	9.8	1.0	"	"	"	"	"	"	

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B-13-15.0
T160585-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	6032503	03/25/16	03/25/16	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6032830	03/28/16	03/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene	68.1 %	35-140	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl	65.3 %	35-140	"	"	"	"	"	"	

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B-13-15.0
T160585-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	6032827	03/28/16	03/29/16	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		135 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		118 %	35-140		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	5.0	ug/kg	1	6032506	03/25/16	03/25/16	EPA 8260B/5035	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Surrogate: Toluene-d8		97.9 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.9 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		102 %	95.7-135		"	"	"	"	

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Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
 04/20/16 17:27

B-13-15.0
T160585-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	300	ug/kg	1	6032837	03/28/16	03/29/16	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	

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B-13-15.0
T160585-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chrysene	ND	300	ug/kg	1	6032837	03/28/16	03/29/16	EPA 8270C	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	

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B-13-15.0
T160585-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

2,3,5,6-Tetrachlorophenol	ND	300	ug/kg	1	6032837	03/28/16	03/29/16	EPA 8270C	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		54.0 %	15-121		"	"	"	"	
Surrogate: Phenol-d6		59.3 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		65.6 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		66.8 %	32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		94.0 %	18.1-105		"	"	"	"	
Surrogate: Terphenyl-d14		95.3 %	29.1-130		"	"	"	"	

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B-1-5.0
T160585-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C4-C12 (GRO)	ND	330	ug/kg	1	6032505	03/25/16	03/29/16	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		96.1 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015C

C23-C32 (MORO)	ND	10	mg/kg	1	6032509	03/25/16	03/25/16	EPA 8015C	
C13-C22 (DRO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		92.6 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	6032504	03/25/16	03/25/16	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	88	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	12	2.0	"	"	"	"	"	"	
Cobalt	7.4	2.0	"	"	"	"	"	"	
Copper	14	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	9.7	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	25	5.0	"	"	"	"	"	"	
Zinc	13	1.0	"	"	"	"	"	"	

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B-1-5.0
T160585-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	6032503	03/25/16	03/25/16	EPA 7471A Soil	
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Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	4.2	ug/kg	1	6032506	03/25/16	03/25/16	EPA 8260B/5035	
Toluene	ND	4.2	"	"	"	"	"	"	
Ethylbenzene	ND	4.2	"	"	"	"	"	"	
m,p-Xylene	ND	8.5	"	"	"	"	"	"	
o-Xylene	ND	4.2	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	17	"	"	"	"	"	"	
Tert-butyl alcohol	ND	42	"	"	"	"	"	"	
Di-isopropyl ether	ND	17	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	17	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	17	"	"	"	"	"	"	
Surrogate: Toluene-d8		95.0 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.0 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		104 %	95.7-135		"	"	"	"	

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B-1-10.0
T160585-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C4-C12 (GRO)	480000	23000	ug/kg	50	6032505	03/25/16	03/29/16	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		116 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015C

C23-C32 (MORO)	27000	100	mg/kg	10	6032509	03/25/16	03/28/16	EPA 8015C	
C13-C22 (DRO)	6600	100	"	"	"	"	"	"	
Surrogate: p-Terphenyl		171 %	65-135		"	"	"	"	S-04

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	6032504	03/25/16	03/25/16	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	340	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	11	2.0	"	"	"	"	"	"	
Cobalt	7.5	2.0	"	"	"	"	"	"	
Copper	22	1.0	"	"	"	"	"	"	
Lead	23	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	13	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	25	5.0	"	"	"	"	"	"	
Zinc	13	1.0	"	"	"	"	"	"	

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B-1-10.0
T160585-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	6032503	03/25/16	03/25/16	EPA 7471A Soil	
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Volatile Organic Compounds by EPA Method 8260B

Benzene	29	5.0	ug/kg	1	6032506	03/25/16	03/25/16	EPA 8260B/5035	
Toluene	11	5.0	"	"	"	"	"	"	
Ethylbenzene	54	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Surrogate: Toluene-d8		101 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		34.3 %	81.2-123		"	"	"	"	S-GC
Surrogate: Dibromofluoromethane		106 %	95.7-135		"	"	"	"	

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B-1-15.0
T160585-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C4-C12 (GRO)	130000	18000	ug/kg	50	6032505	03/25/16	03/29/16	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		124 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015C

C13-C22 (DRO)	94	10	mg/kg	1	6032509	03/25/16	03/25/16	EPA 8015C	
C23-C32 (MORO)	300	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		90.4 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	6032504	03/25/16	03/25/16	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	180	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	13	2.0	"	"	"	"	"	"	
Cobalt	8.0	2.0	"	"	"	"	"	"	
Copper	12	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	12	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	26	5.0	"	"	"	"	"	"	
Zinc	14	1.0	"	"	"	"	"	"	

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B-1-15.0
T160585-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	6032503	03/25/16	03/25/16	EPA 7471A Soil	
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Volatile Organic Compounds by EPA Method 8260B

Benzene	19	5.0	ug/kg	1	6032506	03/25/16	03/25/16	EPA 8260B/5035	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	290	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Surrogate: Toluene-d8		92.5 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		74.4 %	81.2-123		"	"	"	"	S-GC
Surrogate: Dibromofluoromethane		113 %	95.7-135		"	"	"	"	

SunStar Laboratories, Inc.

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B-15-5.0
T160585-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C4-C12 (GRO)	500000	180000	ug/kg	500	6032505	03/25/16	03/29/16	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		131 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015C

C13-C22 (DRO)	370	10	mg/kg	1	6032509	03/25/16	03/25/16	EPA 8015C	
C23-C32 (MORO)	36	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		90.2 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	6032504	03/25/16	03/25/16	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	62	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	11	2.0	"	"	"	"	"	"	
Cobalt	6.3	2.0	"	"	"	"	"	"	
Copper	7.6	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	7.9	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	22	5.0	"	"	"	"	"	"	
Zinc	12	1.0	"	"	"	"	"	"	

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B-15-5.0
T160585-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	6032503	03/25/16	03/25/16	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6032830	03/28/16	03/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene	66.8 %	35-140	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl	63.0 %	35-140	"	"	"	"	"	"	

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Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
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B-15-5.0
T160585-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	6032827	03/28/16	03/29/16	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		102 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		89.3 %	35-140		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Benzene	1900	250	ug/kg	50	6032506	03/25/16	03/25/16	EPA 8260B/5035	
Toluene	35000	250	"	"	"	"	"	"	
Ethylbenzene	15000	250	"	"	"	"	"	"	
m,p-Xylene	56000	500	"	"	"	"	"	"	
o-Xylene	23000	250	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	1	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Surrogate: Toluene-d8		113 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.9 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		108 %	95.7-135		"	"	"	"	

SunStar Laboratories, Inc.

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Reported:
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B-15-5.0
T160585-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	300	ug/kg	1	6032837	03/28/16	03/29/16	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
1-Methylnaphthalene	3700	300	"	"	"	"	"	"	
2-Methylnaphthalene	6600	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	

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B-15-5.0
T160585-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chrysene	ND	300	ug/kg	1	6032837	03/28/16	03/29/16	EPA 8270C	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	7800	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	

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B-15-5.0
T160585-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

2,3,5,6-Tetrachlorophenol	ND	300	ug/kg	1	6032837	03/28/16	03/29/16	EPA 8270C	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		54.2 %	15-121		"	"	"	"	
Surrogate: Phenol-d6		49.5 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		55.0 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		66.7 %	32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		99.3 %	18.1-105		"	"	"	"	
Surrogate: Terphenyl-d14		84.9 %	29.1-130		"	"	"	"	

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B-15-10.0
T160585-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C4-C12 (GRO)	ND	390	ug/kg	1	6032505	03/25/16	03/29/16	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		70.7 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015C

C13-C22 (DRO)	ND	10	mg/kg	1	6032509	03/25/16	03/25/16	EPA 8015C	
C23-C32 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		93.2 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	6032504	03/25/16	03/25/16	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	56	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	9.3	2.0	"	"	"	"	"	"	
Cobalt	5.7	2.0	"	"	"	"	"	"	
Copper	5.7	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	7.2	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	18	5.0	"	"	"	"	"	"	
Zinc	11	1.0	"	"	"	"	"	"	

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B-15-10.0
T160585-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	6032503	03/25/16	03/25/16	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6032830	03/28/16	03/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene	73.2 %	35-140	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl	73.3 %	35-140	"	"	"	"	"	"	

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B-15-10.0
T160585-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	6032827	03/28/16	03/29/16	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		144 %	35-140		"	"	"	"	S-11
Surrogate: Decachlorobiphenyl		139 %	35-140		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	4.5	ug/kg	1	6032506	03/25/16	03/30/16	EPA 8260B/5035	
Toluene	ND	4.5	"	"	"	"	"	"	
Ethylbenzene	ND	4.5	"	"	"	"	"	"	
m,p-Xylene	ND	9.0	"	"	"	"	"	"	
o-Xylene	ND	4.5	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	18	"	"	"	"	"	"	
Tert-butyl alcohol	92	45	"	"	"	"	"	"	
Di-isopropyl ether	ND	18	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	18	"	"	"	"	"	"	
Methyl tert-butyl ether	92	18	"	"	"	"	"	"	
Surrogate: Toluene-d8		90.4 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		68.0 %	81.2-123		"	"	"	"	S-GC
Surrogate: Dibromofluoromethane		158 %	95.7-135		"	"	"	"	S-GC

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Northgate Environmental Management -- Laguna Hills
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 Laguna Hills CA, 92653

Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
 04/20/16 17:27

B-15-10.0
T160585-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	300	ug/kg	1	6032837	03/28/16	03/29/16	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	

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Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
 04/20/16 17:27

B-15-10.0
T160585-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Chrysene	ND	300	ug/kg	1	6032837	03/28/16	03/29/16	EPA 8270C	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	

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B-15-10.0
T160585-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

2,3,5,6-Tetrachlorophenol	ND	300	ug/kg	1	6032837	03/28/16	03/29/16	EPA 8270C	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		49.0 %	15-121		"	"	"	"	
Surrogate: Phenol-d6		57.3 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		60.9 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		64.0 %	32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		88.6 %	18.1-105		"	"	"	"	
Surrogate: Terphenyl-d14		87.1 %	29.1-130		"	"	"	"	

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B-15-15.0
T160585-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C4-C12 (GRO)	700	390	ug/kg	1	6032505	03/25/16	03/29/16	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		133 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015C

C13-C22 (DRO)	ND	10	mg/kg	1	6032509	03/25/16	03/25/16	EPA 8015C	
C23-C32 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		95.8 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	6032504	03/25/16	03/25/16	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	35	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	6.4	2.0	"	"	"	"	"	"	
Cobalt	4.5	2.0	"	"	"	"	"	"	
Copper	4.9	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	5.3	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	15	5.0	"	"	"	"	"	"	
Zinc	7.0	1.0	"	"	"	"	"	"	

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B-15-15.0
T160585-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	6032503	03/25/16	03/25/16	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6032830	03/28/16	03/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene	73.0 %	35-140	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl	72.2 %	35-140	"	"	"	"	"	"	

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B-15-15.0
T160585-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	6032827	03/28/16	03/29/16	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		126 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		116 %	35-140		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	5.0	ug/kg	1	6032506	03/25/16	03/25/16	EPA 8260B/5035	
Toluene	5.3	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	13	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	5400	2500	"	50	"	"	"	"	
Di-isopropyl ether	ND	20	"	1	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	190	20	"	"	"	"	"	"	
Surrogate: Toluene-d8		93.6 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.8 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		107 %	95.7-135		"	"	"	"	

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B-15-15.0
T160585-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Carbazole	ND	300	ug/kg	1	6032837	03/28/16	03/29/16	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	

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B-15-15.0
T160585-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chrysene	ND	300	ug/kg	1	6032837	03/28/16	03/29/16	EPA 8270C	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	

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B-15-15.0
T160585-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Semivolatile Organic Compounds by EPA Method 8270C

2,3,5,6-Tetrachlorophenol	ND	300	ug/kg	1	6032837	03/28/16	03/29/16	EPA 8270C	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		56.9 %	15-121		"	"	"	"	
Surrogate: Phenol-d6		61.6 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		66.8 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		69.7 %	32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		92.0 %	18.1-105		"	"	"	"	
Surrogate: Terphenyl-d14		94.8 %	29.1-130		"	"	"	"	

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Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032505 - EPA 5035 GC

Blank (6032505-BLK1)										
Prepared: 03/25/16 Analyzed: 03/29/16										
C4-C12 (GRO)	ND	400	ug/kg							
Surrogate: 4-Bromofluorobenzene	89.8		"	100		89.8	65-135			
LCS (6032505-BS1)										
Prepared: 03/25/16 Analyzed: 03/29/16										
C6-C12 (GRO)	10400	400	ug/kg	11000		94.4	75-125			
Surrogate: 4-Bromofluorobenzene	135		"	100		135	65-135			
LCS Dup (6032505-BSD1)										
Prepared: 03/25/16 Analyzed: 03/29/16										
C6-C12 (GRO)	10000	400	ug/kg	11000		91.4	75-125	3.18	20	
Surrogate: 4-Bromofluorobenzene	134		"	100		134	65-135			

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 Project Manager: Derrick Willis

Reported:
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Extractable Petroleum Hydrocarbons by 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032509 - EPA 3550B GC

Blank (6032509-BLK1)

Prepared & Analyzed: 03/25/16

C23-C32 (MORO)	ND	10	mg/kg							
C13-C22 (DRO)	ND	10	"							
Surrogate: <i>p</i> -Terphenyl	97.1		"	99.9		97.2	65-135			

LCS (6032509-BS1)

Prepared & Analyzed: 03/25/16

C13-C28 (DRO)	470	10	mg/kg	499		94.7	75-125			
Surrogate: <i>p</i> -Terphenyl	97.9		"	99.8		98.1	65-135			

Matrix Spike (6032509-MS1)

Source: T160584-01

Prepared: 03/25/16 Analyzed: 03/26/16

C13-C28 (DRO)	440	10	mg/kg	500	ND	87.9	75-125			
Surrogate: <i>p</i> -Terphenyl	86.6		"	99.9		86.6	65-135			

Matrix Spike Dup (6032509-MSD1)

Source: T160584-01

Prepared: 03/25/16 Analyzed: 03/26/16

C13-C28 (DRO)	460	10	mg/kg	500	ND	92.0	75-125	4.65	20	
Surrogate: <i>p</i> -Terphenyl	90.5		"	100		90.5	65-135			

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Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032504 - EPA 3051

Blank (6032504-BLK1)

Prepared & Analyzed: 03/25/16

Antimony	ND	3.0	mg/kg							
Silver	ND	2.0	"							
Arsenic	ND	5.0	"							
Barium	ND	1.0	"							
Beryllium	ND	1.0	"							
Cadmium	ND	2.0	"							
Chromium	ND	2.0	"							
Cobalt	ND	2.0	"							
Copper	ND	1.0	"							
Lead	ND	3.0	"							
Molybdenum	ND	5.0	"							
Nickel	ND	2.0	"							
Selenium	ND	5.0	"							
Thallium	ND	2.0	"							
Vanadium	ND	5.0	"							
Zinc	ND	1.0	"							

LCS (6032504-BS1)

Prepared & Analyzed: 03/25/16

Arsenic	96.3	5.0	mg/kg	100		96.3	75-125			
Barium	93.9	1.0	"	100		93.9	75-125			
Cadmium	93.4	2.0	"	100		93.4	75-125			
Chromium	93.2	2.0	"	100		93.2	75-125			
Lead	106	3.0	"	100		106	75-125			

Matrix Spike (6032504-MS1)

Source: T160584-01

Prepared & Analyzed: 03/25/16

Arsenic	64.4	5.0	mg/kg	97.1	2.03	64.2	75-125			QM-05
Barium	140	1.0	"	97.1	98.3	42.7	75-125			QM-05
Cadmium	64.9	2.0	"	97.1	1.05	65.8	75-125			QM-05
Chromium	82.0	2.0	"	97.1	22.0	61.8	75-125			QM-05
Lead	107	3.0	"	97.1	308	NR	75-125			QM-05

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Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032504 - EPA 3051

Matrix Spike Dup (6032504-MSD1)	Source: T160584-01			Prepared & Analyzed: 03/25/16						
Arsenic	71.7	5.0	mg/kg	99.0	2.03	70.3	75-125	10.7	20	QM-05
Barium	145	1.0	"	99.0	98.3	47.3	75-125	3.77	20	QM-05
Cadmium	69.8	2.0	"	99.0	1.05	69.4	75-125	7.25	20	QM-05
Chromium	88.9	2.0	"	99.0	22.0	67.6	75-125	8.19	20	QM-05
Lead	128	3.0	"	99.0	308	NR	75-125	18.2	20	QM-05

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Cold Vapor Extraction EPA 7470/7471 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032503 - EPA 7471A Soil

Blank (6032503-BLK1)		Prepared & Analyzed: 03/25/16								
Mercury	ND	0.10	mg/kg							
LCS (6032503-BS1)		Prepared & Analyzed: 03/25/16								
Mercury	0.451	0.10	mg/kg	0.397		114	75-125			
Matrix Spike (6032503-MS1)		Source: T160584-01		Prepared & Analyzed: 03/25/16						
Mercury	0.517	0.10	mg/kg	0.410	0.110	99.3	75-125			
Matrix Spike Dup (6032503-MSD1)		Source: T160584-01		Prepared & Analyzed: 03/25/16						
Mercury	0.531	0.10	mg/kg	0.410	0.110	103	75-125	2.64	20	

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Organochlorine Pesticides by EPA Method 8081A - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032830 - EPA 3550 ECD/GCMS

Blank (6032830-BLK1)

Prepared: 03/28/16 Analyzed: 03/29/16

alpha-BHC	ND	5.0	ug/kg							
gamma-BHC (Lindane)	ND	5.0	"							
beta-BHC	ND	5.0	"							
delta-BHC	ND	5.0	"							
Heptachlor	ND	5.0	"							
Aldrin	ND	5.0	"							
Heptachlor epoxide	ND	5.0	"							
gamma-Chlordane	ND	5.0	"							
alpha-Chlordane	ND	5.0	"							
Endosulfan I	ND	5.0	"							
4,4'-DDE	ND	5.0	"							
Dieldrin	ND	5.0	"							
Endrin	ND	5.0	"							
4,4'-DDD	ND	5.0	"							
Endosulfan II	ND	5.0	"							
4,4'-DDT	ND	5.0	"							
Endrin aldehyde	ND	5.0	"							
Endosulfan sulfate	ND	5.0	"							
Methoxychlor	ND	10	"							
Endrin ketone	ND	5.0	"							
Toxaphene	ND	200	"							
Surrogate: Tetrachloro-meta-xylene	6.25		"	9.53		65.6	35-140			
Surrogate: Decachlorobiphenyl	4.97		"	9.53		52.1	35-140			

LCS (6032830-BS1)

Prepared: 03/28/16 Analyzed: 03/29/16

gamma-BHC (Lindane)	22.2	5.0	ug/kg	36.7		60.6	40-120			
Heptachlor	21.5	5.0	"	36.7		58.6	40-120			
Aldrin	22.4	5.0	"	36.7		61.0	40-120			
Dieldrin	20.6	5.0	"	36.7		56.0	40-120			
Endrin	21.7	5.0	"	36.7		59.1	40-120			
4,4'-DDT	26.5	5.0	"	36.7		72.1	33-147			
Surrogate: Tetrachloro-meta-xylene	6.05		"	9.17		66.0	35-140			
Surrogate: Decachlorobiphenyl	4.75		"	9.17		51.7	35-140			

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 Project Manager: Derrick Willis

Reported:
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Organochlorine Pesticides by EPA Method 8081A - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032830 - EPA 3550 ECD/GCMS

Matrix Spike (6032830-MS1)

Source: T160585-05

Prepared: 03/28/16 Analyzed: 03/29/16

gamma-BHC (Lindane)	22.0	5.0	ug/kg	38.0	ND	58.1	30-120			
Heptachlor	20.8	5.0	"	38.0	ND	54.9	30-120			
Aldrin	21.7	5.0	"	38.0	ND	57.1	30-120			
Dieldrin	20.8	5.0	"	38.0	ND	54.7	30-120			
Endrin	21.0	5.0	"	38.0	ND	55.2	30-120			
4,4'-DDT	27.1	5.0	"	38.0	ND	71.5	30-120			
Surrogate: Tetrachloro-meta-xylene	5.37		"	9.49		56.6	35-140			
Surrogate: Decachlorobiphenyl	4.44		"	9.49		46.8	35-140			

Matrix Spike Dup (6032830-MSD1)

Source: T160585-05

Prepared: 03/28/16 Analyzed: 03/29/16

gamma-BHC (Lindane)	22.8	5.0	ug/kg	38.9	ND	58.5	30-120	0.772	30	
Heptachlor	21.1	5.0	"	38.9	ND	54.3	30-120	1.14	30	
Aldrin	21.8	5.0	"	38.9	ND	56.1	30-120	1.66	30	
Dieldrin	21.5	5.0	"	38.9	ND	55.2	30-120	0.857	30	
Endrin	22.1	5.0	"	38.9	ND	56.8	30-120	2.79	30	
4,4'-DDT	25.6	5.0	"	38.9	ND	65.7	30-120	8.43	30	
Surrogate: Tetrachloro-meta-xylene	5.90		"	9.73		60.7	35-140			
Surrogate: Decachlorobiphenyl	4.62		"	9.73		47.5	35-140			

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Polychlorinated Biphenyls by EPA Method 8082 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032827 - EPA 3550 ECD/GCMS

Blank (6032827-BLK1)		Prepared: 03/28/16 Analyzed: 03/29/16								
PCB-1016	ND	10	ug/kg							
PCB-1221	ND	10	"							
PCB-1232	ND	10	"							
PCB-1242	ND	10	"							
PCB-1248	ND	10	"							
PCB-1254	ND	10	"							
PCB-1260	ND	10	"							
Surrogate: Tetrachloro-meta-xylene	9.83		"	9.36		105	35-140			
Surrogate: Decachlorobiphenyl	12.2		"	9.36		131	35-140			

LCS (6032827-BS1)		Prepared: 03/28/16 Analyzed: 03/29/16								
PCB-1016	105	10	ug/kg	97.2		109	40-130			
PCB-1260	121	10	"	97.2		125	40-130			
Surrogate: Tetrachloro-meta-xylene	13.3		"	9.72		137	35-140			
Surrogate: Decachlorobiphenyl	13.0		"	9.72		134	35-140			

Matrix Spike (6032827-MS1)		Source: T160585-05		Prepared: 03/28/16 Analyzed: 03/29/16						
PCB-1016	96.2	10	ug/kg	96.2	ND	100	40-130			
PCB-1260	136	10	"	96.2	ND	142	40-130			QM-07
Surrogate: Tetrachloro-meta-xylene	10.2		"	9.62		106	35-140			
Surrogate: Decachlorobiphenyl	12.0		"	9.62		125	35-140			

Matrix Spike Dup (6032827-MSD1)		Source: T160585-05		Prepared: 03/28/16 Analyzed: 03/29/16						
PCB-1016	108	10	ug/kg	98.0	ND	110	40-130	11.6	30	
PCB-1260	181	10	"	98.0	ND	185	40-130	28.3	30	QM-07
Surrogate: Tetrachloro-meta-xylene	11.3		"	9.80		115	35-140			
Surrogate: Decachlorobiphenyl	11.7		"	9.80		119	35-140			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032506 - EPA 5035 GCMS

Blank (6032506-BLK1)

Prepared & Analyzed: 03/25/16

Benzene	ND	5.0	ug/kg							
Toluene	ND	5.0	"							
Ethylbenzene	ND	5.0	"							
m,p-Xylene	ND	10	"							
o-Xylene	ND	5.0	"							
Tert-amyl methyl ether	ND	20	"							
Tert-butyl alcohol	ND	50	"							
Di-isopropyl ether	ND	20	"							
Ethyl tert-butyl ether	ND	20	"							
Methyl tert-butyl ether	ND	20	"							
Surrogate: Toluene-d8	40.3		"	39.8		101	85.5-116			
Surrogate: 4-Bromofluorobenzene	42.8		"	39.8		108	81.2-123			
Surrogate: Dibromofluoromethane	47.4		"	39.8		119	95.7-135			

LCS (6032506-BS1)

Prepared & Analyzed: 03/25/16

Benzene	109	5.0	ug/kg	100		109	75-125			
Toluene	113	5.0	"	100		113	75-125			
Surrogate: Toluene-d8	38.0		"	40.0		95.1	85.5-116			
Surrogate: 4-Bromofluorobenzene	41.8		"	40.0		104	81.2-123			
Surrogate: Dibromofluoromethane	57.0		"	40.0		142	95.7-135			S-GC

LCS Dup (6032506-BSD1)

Prepared & Analyzed: 03/25/16

Benzene	109	5.0	ug/kg	99.6		109	75-125	0.170	20	
Toluene	94.3	5.0	"	99.6		94.6	75-125	17.8	20	
Surrogate: Toluene-d8	35.9		"	39.8		90.0	85.5-116			
Surrogate: 4-Bromofluorobenzene	41.8		"	39.8		105	81.2-123			
Surrogate: Dibromofluoromethane	52.1		"	39.8		131	95.7-135			

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Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
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Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032837 - EPA 3550 ECD/GCMS

Blank (6032837-BLK1)

Prepared: 03/28/16 Analyzed: 03/29/16

Carbazole	ND	300	ug/kg
Phenol	ND	1000	"
Aniline	ND	300	"
2-Chlorophenol	ND	1000	"
1,4-Dichlorobenzene	ND	300	"
N-Nitrosodi-n-propylamine	ND	300	"
1,2,4-Trichlorobenzene	ND	300	"
4-Chloro-3-methylphenol	ND	1000	"
1-Methylnaphthalene	ND	300	"
2-Methylnaphthalene	ND	300	"
Acenaphthene	ND	300	"
4-Nitrophenol	ND	1000	"
2,4-Dinitrotoluene	ND	300	"
Pentachlorophenol	ND	1000	"
Pyrene	ND	300	"
Acenaphthylene	ND	300	"
Anthracene	ND	300	"
Benzo (a) anthracene	ND	300	"
Benzo (b) fluoranthene	ND	300	"
Benzo (k) fluoranthene	ND	300	"
Benzo (g,h,i) perylene	ND	1000	"
Benzo (a) pyrene	ND	300	"
Benzyl alcohol	ND	300	"
Bis(2-chloroethoxy)methane	ND	300	"
Bis(2-chloroethyl)ether	ND	300	"
Bis(2-chloroisopropyl)ether	ND	300	"
Bis(2-ethylhexyl)phthalate	ND	300	"
4-Bromophenyl phenyl ether	ND	300	"
Butyl benzyl phthalate	ND	300	"
4-Chloroaniline	ND	300	"
2-Chloronaphthalene	ND	300	"
4-Chlorophenyl phenyl ether	ND	300	"
Chrysene	ND	300	"
Dibenz (a,h) anthracene	ND	300	"
Dibenzofuran	ND	300	"
Di-n-butyl phthalate	ND	300	"

SunStar Laboratories, Inc.

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Daniel Chavez, Project Manager



25712 Commercentre Drive
 Lake Forest, California 92630
 949.297.5020 Phone
 949.297.5027 Fax

Northgate Environmental Management -- Laguna Hills
 24411 Ridge Route Drive, Suite 130
 Laguna Hills CA, 92653

Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
 04/20/16 17:27

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032837 - EPA 3550 ECD/GCMS

Blank (6032837-BLK1)

Prepared: 03/28/16 Analyzed: 03/29/16

1,2-Dichlorobenzene	ND	300	ug/kg							
1,3-Dichlorobenzene	ND	300	"							
2,4-Dichlorophenol	ND	1000	"							
Diethyl phthalate	ND	300	"							
2,4-Dimethylphenol	ND	1000	"							
Dimethyl phthalate	ND	300	"							
4,6-Dinitro-2-methylphenol	ND	1000	"							
2,4-Dinitrophenol	ND	1000	"							
2,6-Dinitrotoluene	ND	1000	"							
Di-n-octyl phthalate	ND	300	"							
Fluoranthene	ND	300	"							
Fluorene	ND	300	"							
Hexachlorobenzene	ND	1500	"							
Hexachlorobutadiene	ND	300	"							
Hexachlorocyclopentadiene	ND	1000	"							
Hexachloroethane	ND	300	"							
Indeno (1,2,3-cd) pyrene	ND	300	"							
Isophorone	ND	300	"							
2-Methylphenol	ND	1000	"							
4-Methylphenol	ND	1000	"							
Naphthalene	ND	300	"							
2-Nitroaniline	ND	300	"							
3-Nitroaniline	ND	300	"							
4-Nitroaniline	ND	300	"							
Nitrobenzene	ND	1000	"							
2-Nitrophenol	ND	1000	"							
N-Nitrosodimethylamine	ND	300	"							
N-Nitrosodiphenylamine	ND	300	"							
2,3,5,6-Tetrachlorophenol	ND	300	"							
2,3,4,6-Tetrachlorophenol	ND	300	"							
Phenanthrene	ND	300	"							
Azobenzene	ND	300	"							
Pyridine	ND	300	"							
2,4,5-Trichlorophenol	ND	1000	"							
2,4,6-Trichlorophenol	ND	1000	"							

SunStar Laboratories, Inc.

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Daniel Chavez, Project Manager



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Northgate Environmental Management -- Laguna Hills
 24411 Ridge Route Drive, Suite 130
 Laguna Hills CA, 92653

Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
 04/20/16 17:27

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032837 - EPA 3550 ECD/GCMS

Blank (6032837-BLK1)

Prepared: 03/28/16 Analyzed: 03/29/16

Surrogate: 2-Fluorophenol	1620		ug/kg	3300		49.1	15-121			
Surrogate: Phenol-d6	1740		"	3300		52.8	24-113			
Surrogate: Nitrobenzene-d5	1680		"	3300		50.9	21.3-119			
Surrogate: 2-Fluorobiphenyl	2130		"	3300		64.6	32.4-102			
Surrogate: 2,4,6-Tribromophenol	2480		"	3300		75.0	18.1-105			
Surrogate: Terphenyl-d14	2700		"	3300		81.8	29.1-130			

LCS (6032837-BS1)

Prepared: 03/28/16 Analyzed: 03/29/16

Phenol	1530	1000	ug/kg	3300		46.5	34-114			
2-Chlorophenol	1820	1000	"	3300		55.2	34-114			
1,4-Dichlorobenzene	1420	300	"	3300		43.0	34-114			
N-Nitrosodi-n-propylamine	1510	300	"	3300		45.7	30-110			
1,2,4-Trichlorobenzene	1720	300	"	3300		52.1	39-119			
4-Chloro-3-methylphenol	2300	1000	"	3300		69.5	50-130			
Acenaphthene	1990	300	"	3300		60.2	34-114			
Pentachlorophenol	2040	1000	"	3300		61.9	50-130			
Pyrene	2070	300	"	3300		62.7	30-110			
Surrogate: 2-Fluorophenol	1650		"	3300		50.0	15-121			
Surrogate: Phenol-d6	1550		"	3300		46.9	24-113			
Surrogate: Nitrobenzene-d5	1860		"	3300		56.2	21.3-119			
Surrogate: 2-Fluorobiphenyl	1810		"	3300		54.9	32.4-102			
Surrogate: 2,4,6-Tribromophenol	2610		"	3300		78.9	18.1-105			
Surrogate: Terphenyl-d14	2570		"	3300		77.8	29.1-130			

Matrix Spike (6032837-MS1)

Source: T160585-05

Prepared: 03/28/16 Analyzed: 03/30/16

Phenol	1640	1000	ug/kg	3320	ND	49.3	34-114			
2-Chlorophenol	2030	1000	"	3320	ND	61.1	34-114			
1,4-Dichlorobenzene	1620	300	"	3320	ND	48.7	34-114			
N-Nitrosodi-n-propylamine	1740	300	"	3320	ND	52.3	30-110			
1,2,4-Trichlorobenzene	2740	300	"	3320	ND	82.5	39-119			
4-Chloro-3-methylphenol	3170	1000	"	3320	ND	95.5	50-130			
Acenaphthene	2450	300	"	3320	ND	73.7	34-114			
Pentachlorophenol	2020	1000	"	3320	ND	60.7	50-130			
Pyrene	2630	300	"	3320	ND	79.1	30-110			
Surrogate: 2-Fluorophenol	1890		"	3320		56.8	15-121			
Surrogate: Phenol-d6	1710		"	3320		51.5	24-113			

SunStar Laboratories, Inc.

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Northgate Environmental Management -- Laguna Hills
 24411 Ridge Route Drive, Suite 130
 Laguna Hills CA, 92653

Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
 04/20/16 17:27

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032837 - EPA 3550 ECD/GCMS

Matrix Spike (6032837-MS1)

Source: T160585-05

Prepared: 03/28/16 Analyzed: 03/30/16

Surrogate: Nitrobenzene-d5	2080		ug/kg	3320		62.5	21.3-119			
Surrogate: 2-Fluorobiphenyl	2260		"	3320		68.0	32.4-102			
Surrogate: 2,4,6-Tribromophenol	3050		"	3320		91.8	18.1-105			
Surrogate: Terphenyl-d14	3130		"	3320		94.3	29.1-130			

Matrix Spike Dup (6032837-MSD1)

Source: T160585-05

Prepared: 03/28/16 Analyzed: 03/30/16

Phenol	1510	1000	ug/kg	3330	ND	45.3	34-114	8.26	42	
2-Chlorophenol	1800	1000	"	3330	ND	54.1	34-114	12.0	40	
1,4-Dichlorobenzene	1320	300	"	3330	ND	39.5	34-114	20.6	28	
N-Nitrosodi-n-propylamine	1470	300	"	3330	ND	44.2	30-110	16.7	38	
1,2,4-Trichlorobenzene	1630	300	"	3330	ND	49.1	39-119	50.7	28	QM-07
4-Chloro-3-methylphenol	2050	1000	"	3330	ND	61.5	50-130	43.2	42	QM-07
Acenaphthene	2060	300	"	3330	ND	62.0	34-114	17.1	31	
Pentachlorophenol	1690	1000	"	3330	ND	50.8	50-130	17.5	50	
Pyrene	2310	300	"	3330	ND	69.3	30-110	13.0	31	
Surrogate: 2-Fluorophenol	1550		"	3330		46.6	15-121			
Surrogate: Phenol-d6	1520		"	3330		45.5	24-113			
Surrogate: Nitrobenzene-d5	1670		"	3330		50.3	21.3-119			
Surrogate: 2-Fluorobiphenyl	1870		"	3330		56.1	32.4-102			
Surrogate: 2,4,6-Tribromophenol	2680		"	3330		80.4	18.1-105			
Surrogate: Terphenyl-d14	2860		"	3330		86.0	29.1-130			

SunStar Laboratories, Inc.

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Daniel Chavez, Project Manager



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Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Center Cal
Project Number: 2047.06
Project Manager: Derrick Willis

Reported:
04/20/16 17:27

Notes and Definitions

- S-GC Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).
- S-11 The surrogate recovery was above acceptance criteria in the sample. The sample is ND for the analytes of interest. The surrogate recovery was within acceptance criteria in the method blank and LCS.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QM-07 The spike recovery and or RPD was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS was within acceptance criteria. The data is acceptable as no negative impact on data is expected.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

SunStar Laboratories, Inc.

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Daniel Chavez, Project Manager

Chain of Custody Record

SunStar Laboratories, Inc.
 25712 Commercentre Dr
 Lake Forest, CA 92630
 949-297-5020

Client: Northgate Environmental
 Address: 24111 Ridge Route #130 Laguna Hills, CA
 Phone: (949) 375-7004 Fax: (949) 315-3365
 Project Manager: Derrick Willis

Date: 3-24-2016 Page: 1 Of
 Project Name: Center Cal
 Collector: Michelle Hugson Client Project #: 2047.06
 Batch #: Dana R. Brown EDF #:
 T160585 2

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	Laboratory ID #	Comments/Preservative	Total # of containers
<u>TB-03242016-B</u>	<u>3-24-2016</u>	<u>08:12</u>	<u>AD</u>	<u>V</u>	<u>H</u>									<u>01</u>		<u>2</u>
<u>B-3-5.0</u>		<u>09:48</u>	<u>SO</u>	<u>GS+V</u>						<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>02</u>		<u>7</u>
<u>B-3-10.0</u>		<u>09:50</u>								<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>03</u>		<u>7</u>
<u>B-3-15.0</u>		<u>09:55</u>								<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>04</u>		<u>7</u>
<u>B-13-5.0</u>		<u>10:43</u>								<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>05</u>		<u>7</u>
<u>B-13-10.0</u>		<u>10:45</u>								<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>06</u>		<u>7</u>
<u>B-13-15.0</u>		<u>11:00</u>								<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>07</u>		<u>7</u>
<u>B-1-5.0</u>		<u>13:08</u>								<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>08</u>		<u>7</u>
<u>B-1-10.0</u>		<u>13:22</u>								<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>09</u>		<u>7</u>
<u>B-1-15.0</u>		<u>13:32</u>								<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>10</u>		<u>7</u>
<u>B-15-5.0</u>		<u>15:50</u>								<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>11</u>		<u>7</u>
<u>B-15-10.0</u>		<u>16:03</u>								<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>12</u>		<u>7</u>
<u>B-15-15.0</u>		<u>16:14</u>								<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>13</u>		<u>7</u>
<u>PPB</u>																
<u>3-24-2016</u>																
Relinquished by: (signature) <u>Michelle Hugson</u>	Date / Time <u>3-24-2016</u>	Received by: (signature) <u>Dana R Brown</u>	Date / Time <u>3-24-16</u>	Total # of containers <u>85</u>	Chain of Custody seals Y/N <u>Y</u>	Seals intact? Y/N <u>Y</u>	Received good condition/cold <u>Y</u>	Turn around time: <u>5-Day</u>	5-7	H = Analyze Notes H = Hold for Instructions AQ = Aqueous SO = Soil GS = 8oz glass jar - teflon lined cap V = 40ml VOA vial						
Relinquished by: (signature) <u>Dana R Brown</u>	Date / Time <u>3-24-2016</u>	Received by: (signature) <u>Dana R Brown</u>	Date / Time <u>3-24-16</u>													

COC 133717

Sample disposal instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: T160585

Client Name: NORTHGATE Project: CENTER CAL

Delivered by: Client SunStar Courier GSO FedEx Other

If Courier, Received by: JOEY Date/Time Courier Received: 3-24-16 17:00

Lab Received by: _____ Date/Time Lab Received: _____

Total number of coolers received: 0

Temperature: Cooler #1	5.9 °C +/- the CF (- 0.2°C) = 5.7	°C corrected temperature
Temperature: Cooler #2	°C +/- the CF (- 0.2°C) =	°C corrected temperature
Temperature: Cooler #3	°C +/- the CF (- 0.2°C) =	°C corrected temperature
Temperature criteria = ≤ 6°C (no frozen containers)		Within criteria? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
IF NO:		
Samples received on ice?	<input type="checkbox"/> Yes	<input type="checkbox"/> No → Complete Non-Conformance Sheet
If on ice, samples received same day collected?	<input type="checkbox"/> Yes → Acceptable	<input type="checkbox"/> No → Complete Non-Conformance Sheet

Custody seals intact on cooler/sample Yes No* N/A

Sample containers intact Yes No*

Sample labels match Chain of Custody IDs Yes No*

Total number of containers received match COC Yes No*

Proper containers received for analyses requested on COC Yes No*

Proper preservative indicated on COC/containers for analyses requested Yes No* N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times Yes No*

* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date: BC 3-25-16

Comments:



WORK ORDER

T160585

Client: Northgate Environmental Management -- Laguna Hills	Project Manager: Daniel Chavez
Project: Center Cal	Project Number: 2047.06

Report To:
 Northgate Environmental Management -- Laguna Hills
 Derrick Willis
 24411 Ridge Route Drive, Suite 130
 Laguna Hills, CA 92653

Date Due:	04/01/16 15:00 (5 day TAT)		
Received By:	JOEY M	Date Received:	03/24/16 17:00
Logged In By:	Brian Charon	Date Logged In:	03/25/16 07:00

Samples Received at:	5.7°C		
Custody Seals	No	Received On Ice	No
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confirmed	Yes		

Analysis	Due	TAT	Expires	Comments
T160585-01 TB-03242016-B [Water] Sampled 03/24/16 08:12 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T160585-02 B-3-5.0 [Soil] Sampled 03/24/16 09:48 (GMT-08:00) Pacific Time (US &				
6010 Title 22	04/01/16 15:00	5	09/20/16 09:48	
8015 CC (D/MO)	04/01/16 15:00	5	04/07/16 09:48	
8015 m 5035-GRO	04/01/16 15:00	5	04/07/16 09:48	
8260 5035	04/01/16 15:00	5	04/07/16 09:48	BTEX/OXY only
T160585-03 B-3-10.0 [Soil] Sampled 03/24/16 09:50 (GMT-08:00) Pacific Time (US &				
6010 Title 22	04/01/16 15:00	5	09/20/16 09:50	
8015 CC (D/MO)	04/01/16 15:00	5	04/07/16 09:50	
8015 m 5035-GRO	04/01/16 15:00	5	04/07/16 09:50	
8260 5035	04/01/16 15:00	5	04/07/16 09:50	BTEX/OXY only
T160585-04 B-3-15.0 [Soil] Sampled 03/24/16 09:55 (GMT-08:00) Pacific Time (US &				
6010 Title 22	04/01/16 15:00	5	09/20/16 09:55	
8015 CC (D/MO)	04/01/16 15:00	5	04/07/16 09:55	
8015 m 5035-GRO	04/01/16 15:00	5	04/07/16 09:55	
8260 5035	04/01/16 15:00	5	04/07/16 09:55	BTEX/OXY only

WORK ORDER

T160585

Client: Northgate Environmental Management -- Laguna Hills	Project Manager: Daniel Chavez
Project: Center Cal	Project Number: 2047.06

Analysis	Due	TAT	Expires	Comments
T160585-05 B-13-5.0 [Soil] Sampled 03/24/16 10:43 (GMT-08:00) Pacific Time				
(US &				
6010 Title 22	04/01/16 15:00	5	09/20/16 10:43	
8015 CC (D/MO)	04/01/16 15:00	5	04/07/16 10:43	
8015 m 5035-GRO	04/01/16 15:00	5	04/07/16 10:43	
8260 5035	04/01/16 15:00	5	04/07/16 10:43	BTEX/OXY only
T160585-06 B-13-10.0 [Soil] Sampled 03/24/16 10:45 (GMT-08:00) Pacific Time				
(US &				
6010 Title 22	04/01/16 15:00	5	09/20/16 10:45	
8015 CC (D/MO)	04/01/16 15:00	5	04/07/16 10:45	
8015 m 5035-GRO	04/01/16 15:00	5	04/07/16 10:45	
8260 5035	04/01/16 15:00	5	04/07/16 10:45	BTEX/OXY only
T160585-07 B-13-15.0 [Soil] Sampled 03/24/16 11:00 (GMT-08:00) Pacific Time				
(US &				
6010 Title 22	04/01/16 15:00	5	09/20/16 11:00	
8015 CC (D/MO)	04/01/16 15:00	5	04/07/16 11:00	
8015 m 5035-GRO	04/01/16 15:00	5	04/07/16 11:00	
8260 5035	04/01/16 15:00	5	04/07/16 11:00	BTEX/OXY only
T160585-08 B-1-5.0 [Soil] Sampled 03/24/16 13:08 (GMT-08:00) Pacific Time				
(US &				
6010 Title 22	04/01/16 15:00	5	09/20/16 13:08	
8015 CC (D/MO)	04/01/16 15:00	5	04/07/16 13:08	
8015 m 5035-GRO	04/01/16 15:00	5	04/07/16 13:08	
8260 5035	04/01/16 15:00	5	04/07/16 13:08	BTEX/OXY only
T160585-09 B-1-10.0 [Soil] Sampled 03/24/16 13:22 (GMT-08:00) Pacific Time				
(US &				
6010 Title 22	04/01/16 15:00	5	09/20/16 13:22	
8015 CC (D/MO)	04/01/16 15:00	5	04/07/16 13:22	
8015 m 5035-GRO	04/01/16 15:00	5	04/07/16 13:22	
8260 5035	04/01/16 15:00	5	04/07/16 13:22	BTEX/OXY only

WORK ORDER

T160585

Client: Northgate Environmental Management -- Laguna Hills	Project Manager: Daniel Chavez
Project: Center Cal	Project Number: 2047.06

Analysis	Due	TAT	Expires	Comments
T160585-10 B-1-15.0 [Soil] Sampled 03/24/16 13:32 (GMT-08:00) Pacific Time				
(US &				
6010 Title 22	04/01/16 15:00	5	09/20/16 13:32	
8015 CC (D/MO)	04/01/16 15:00	5	04/07/16 13:32	
8015 m 5035-GRO	04/01/16 15:00	5	04/07/16 13:32	
8260 5035	04/01/16 15:00	5	04/07/16 13:32	BTEX/OXY only

T160585-11 B-15-5.0 [Soil] Sampled 03/24/16 15:50 (GMT-08:00) Pacific Time				
(US &				
6010 Title 22	04/01/16 15:00	5	09/20/16 15:50	
8015 CC (D/MO)	04/01/16 15:00	5	04/07/16 15:50	
8015 m 5035-GRO	04/01/16 15:00	5	04/07/16 15:50	
8260 5035	04/01/16 15:00	5	04/07/16 15:50	BTEX/OXY only

T160585-12 B-15-10.0 [Soil] Sampled 03/24/16 16:03 (GMT-08:00) Pacific Time				
(US &				
6010 Title 22	04/01/16 15:00	5	09/20/16 16:03	
8015 CC (D/MO)	04/01/16 15:00	5	04/07/16 16:03	
8015 m 5035-GRO	04/01/16 15:00	5	04/07/16 16:03	
8260 5035	04/01/16 15:00	5	04/07/16 16:03	BTEX/OXY only

T160585-13 B-15-15.0 [Soil] Sampled 03/24/16 16:14 (GMT-08:00) Pacific Time				
(US &				
6010 Title 22	04/01/16 15:00	5	09/20/16 16:14	
8015 CC (D/MO)	04/01/16 15:00	5	04/07/16 16:14	
8015 m 5035-GRO	04/01/16 15:00	5	04/07/16 16:14	
8260 5035	04/01/16 15:00	5	04/07/16 16:14	BTEX/OXY only

Analysis groups included in this work order	
<i>6010 Title 22</i>	
subgroup 6010B T22	7470/71 Hg



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20 April 2016

Derrick Willis
Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills, CA 92653
RE: Center Cal

Enclosed are the results of analyses for samples received by the laboratory on 03/25/16 16:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Chavez
Project Manager



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Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Center Cal
Project Number: 2047.06
Project Manager: Derrick Willis

Reported:
04/20/16 17:28

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW-8	T160597-02	Water	03/24/16 08:45	03/25/16 16:40
GW-7	T160597-03	Water	03/24/16 16:05	03/25/16 16:40

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Chavez, Project Manager



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Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Center Cal
Project Number: 2047.06
Project Manager: Derrick Willis

Reported:
04/20/16 17:28

DETECTIONS SUMMARY

Sample ID: GW-8

Laboratory ID: T160597-02

No Results Detected

Sample ID: GW-7

Laboratory ID: T160597-03

No Results Detected

SunStar Laboratories, Inc.

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Daniel Chavez, Project Manager



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Northgate Environmental Management -- Laguna Hills 24411 Ridge Route Drive, Suite 130 Laguna Hills CA, 92653	Project: Center Cal Project Number: 2047.06 Project Manager: Derrick Willis	Reported: 04/20/16 17:28
--	---	-----------------------------

**GW-8
T160597-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C4-C12 (GRO)	ND	50	ug/l	1	6032836	03/28/16	03/29/16	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		73.9 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015C

C23-C32 (MORO)	ND	0.50	mg/l	1	6032826	03/28/16	03/28/16	EPA 8015C	
C13-C22 (DRO)	ND	0.50	"	"	"	"	"	"	
Surrogate: p-Terphenyl		71.3 %	65-135		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	0.50	ug/l	1	6032835	03/28/16	03/28/16	EPA 8260B	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Surrogate: Toluene-d8		88.8 %	88.8-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		124 %	83.5-119		"	"	"	"	S-GC
Surrogate: Dibromofluoromethane		128 %	81.1-136		"	"	"	"	

SunStar Laboratories, Inc.

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Daniel Chavez, Project Manager



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Northgate Environmental Management -- Laguna Hills 24411 Ridge Route Drive, Suite 130 Laguna Hills CA, 92653	Project: Center Cal Project Number: 2047.06 Project Manager: Derrick Willis	Reported: 04/20/16 17:28
--	---	-----------------------------

**GW-7
 T160597-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C4-C12 (GRO)	ND	50	ug/l	1	6032836	03/28/16	03/29/16	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		75.8 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015C

C23-C32 (MORO)	ND	0.50	mg/l	1	6032826	03/28/16	03/30/16	EPA 8015C	
C13-C22 (DRO)	ND	0.50	"	"	"	"	"	"	
Surrogate: p-Terphenyl		69.6 %	65-135		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	0.50	ug/l	1	6032835	03/28/16	03/28/16	EPA 8260B	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Surrogate: Toluene-d8		112 %	88.8-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	83.5-119		"	"	"	"	
Surrogate: Dibromofluoromethane		145 %	81.1-136		"	"	"	"	S-GC

SunStar Laboratories, Inc.

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Daniel Chavez, Project Manager



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Northgate Environmental Management -- Laguna Hills
 24411 Ridge Route Drive, Suite 130
 Laguna Hills CA, 92653

Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
 04/20/16 17:28

Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032836 - EPA 5030 GC

Blank (6032836-BLK1)

Prepared: 03/28/16 Analyzed: 03/29/16

C4-C12 (GRO)	ND	50	ug/l							
Surrogate: 4-Bromofluorobenzene	128		"	100		128	65-135			

LCS (6032836-BS1)

Prepared: 03/28/16 Analyzed: 03/29/16

C6-C12 (GRO)	4930	50	ug/l	5500		89.6	75-125			
Surrogate: 4-Bromofluorobenzene	122		"	100		122	65-135			

LCS Dup (6032836-BSD1)

Prepared: 03/28/16 Analyzed: 03/29/16

C6-C12 (GRO)	5460	50	ug/l	5500		99.3	75-125	10.3	20	
Surrogate: 4-Bromofluorobenzene	134		"	100		134	65-135			

SunStar Laboratories, Inc.

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Daniel Chavez, Project Manager



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Northgate Environmental Management -- Laguna Hills 24411 Ridge Route Drive, Suite 130 Laguna Hills CA, 92653	Project: Center Cal Project Number: 2047.06 Project Manager: Derrick Willis	Reported: 04/20/16 17:28
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Extractable Petroleum Hydrocarbons by 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032826 - EPA 3510C GC

Blank (6032826-BLK1)

Prepared & Analyzed: 03/28/16

C13-C22 (DRO)	ND	0.50	mg/l							
C23-C32 (MORO)	ND	0.50	"							
Surrogate: <i>p</i> -Terphenyl	3.40		"	4.00		84.9	65-135			

LCS (6032826-BS1)

Prepared & Analyzed: 03/28/16

C13-C28 (DRO)	17.6	0.50	mg/l	20.0		88.1	75-125			
Surrogate: <i>p</i> -Terphenyl	2.69		"	4.00		67.3	65-135			

LCS Dup (6032826-BSD1)

Prepared & Analyzed: 03/28/16

C13-C28 (DRO)	18.7	0.50	mg/l	20.0		93.5	75-125	5.95	20	
Surrogate: <i>p</i> -Terphenyl	3.08		"	4.00		77.1	65-135			

SunStar Laboratories, Inc.

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Northgate Environmental Management -- Laguna Hills
 24411 Ridge Route Drive, Suite 130
 Laguna Hills CA, 92653

Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
 04/20/16 17:28

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032835 - EPA 5030 GCMS

Blank (6032835-BLK1)

Prepared & Analyzed: 03/28/16

Benzene	ND	0.50	ug/l							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
Surrogate: Toluene-d8	8.05		"	8.00		101	88.8-117			
Surrogate: 4-Bromofluorobenzene	7.42		"	8.00		92.8	83.5-119			
Surrogate: Dibromofluoromethane	8.71		"	8.00		109	81.1-136			

LCS (6032835-BS1)

Prepared & Analyzed: 03/28/16

Benzene	19.4	0.50	ug/l	20.0		97.2	75-125			
Toluene	20.2	0.50	"	20.0		101	75-125			
Surrogate: Toluene-d8	8.19		"	8.00		102	88.8-117			
Surrogate: 4-Bromofluorobenzene	8.62		"	8.00		108	83.5-119			
Surrogate: Dibromofluoromethane	9.78		"	8.00		122	81.1-136			

LCS Dup (6032835-BSD1)

Prepared & Analyzed: 03/28/16

Benzene	17.6	0.50	ug/l	20.0		87.8	75-125	10.3	20	
Toluene	18.4	0.50	"	20.0		92.0	75-125	9.08	20	
Surrogate: Toluene-d8	8.02		"	8.00		100	88.8-117			
Surrogate: 4-Bromofluorobenzene	8.51		"	8.00		106	83.5-119			
Surrogate: Dibromofluoromethane	9.60		"	8.00		120	81.1-136			

SunStar Laboratories, Inc.

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Daniel Chavez, Project Manager



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Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Center Cal
Project Number: 2047.06
Project Manager: Derrick Willis

Reported:
04/20/16 17:28

Notes and Definitions

- S-GC Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

SunStar Laboratories, Inc.

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Daniel Chavez, Project Manager

SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: T160597

Client Name: Northgate Envir (Laguna) Project: Central

Delivered by: Client SunStar Courier GSO FedEx Other

If Courier, Received by: Joey Date/Time Courier Received: 3/25/16 16:40

Lab Received by: — Date/Time Lab Received: —

Total number of coolers received: 1

Temperature:	Cooler #1	9.2	°C +/- the CF (- 0.2°C) =	9.0	°C corrected temperature
Temperature:	Cooler #2		°C +/- the CF (- 0.2°C) =		°C corrected temperature
Temperature:	Cooler #3		°C +/- the CF (- 0.2°C) =		°C corrected temperature
Temperature criteria = ≤ 6°C (no frozen containers)			Within criteria?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
If NO:					
Samples received on ice?		<input checked="" type="checkbox"/> Yes		<input type="checkbox"/> No → Complete Non-Conformance Sheet	
If on ice, samples received same day collected?		<input checked="" type="checkbox"/> Yes → Acceptable		<input type="checkbox"/> No → Complete Non-Conformance Sheet	

Custody seals intact on cooler/sample Yes No* N/A

Sample containers intact Yes No*

Sample labels match Chain of Custody IDs Yes No*

Total number of containers received match COC Yes No*

Proper containers received for analyses requested on COC Yes No*

Proper preservative indicated on COC/containers for analyses requested Yes No* N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times Yes No*

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date: JH 3-25-16

Comments:

WORK ORDER

T160597

Client: Northgate Environmental Management -- Laguna **Project Manager:** Daniel Chavez
Project: Center Cal **Project Number:** 2047.06

Report To:
 Northgate Environmental Management -- Laguna Hills
 Derrick Willis
 24411 Ridge Route Drive, Suite 130
 Laguna Hills, CA 92653

Date Due: 03/31/16 15:00 (3 day TAT)
 Received By: JOEY HIMES Date Received: 03/25/16 16:40
 Logged In By: JOEY HIMES Date Logged In: 03/25/16 17:45

Samples Received at: 9°C
 Custody Seals No Received On Ice Yes
 Containers Intact Yes
 COC/Labels Agree Yes
 Preservation Confirmed Yes

Analysis	Due	TAT	Expires	Comments
T160597-01 TB-03252016-A [Water] Sampled 03/24/16 08:30 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				HOLD
T160597-02 GW-8 [Water] Sampled 03/24/16 08:45 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	03/31/16 15:00	3	03/31/16 08:45	D/MO only
8015 m Gas Purge	03/31/16 15:00	3	04/07/16 08:45	
8260 BTEX/OXY	03/31/16 15:00	3	04/07/16 08:45	
T160597-03 GW-7 [Water] Sampled 03/24/16 16:05 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	03/31/16 15:00	3	03/31/16 16:05	D/MO only
8015 m Gas Purge	03/31/16 15:00	3	04/07/16 16:05	
8260 BTEX/OXY	03/31/16 15:00	3	04/07/16 16:05	



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20 April 2016

Derrick Willis
Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills, CA 92653
RE: Center Cal

Enclosed are the results of analyses for samples received by the laboratory on 03/25/16 16:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Chavez
Project Manager



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Northgate Environmental Management -- Laguna Hills
 24411 Ridge Route Drive, Suite 130
 Laguna Hills CA, 92653

Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
 04/20/16 17:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B-16-5.0	T160598-02	Soil	03/24/16 16:49	03/25/16 16:45
B-16-10.0	T160598-03	Soil	03/24/16 16:53	03/25/16 16:45
B-16-15.0	T160598-04	Soil	03/24/16 17:10	03/25/16 16:45
B-14-5.0	T160598-06	Soil	03/25/16 07:34	03/25/16 16:45
B-14-10.0	T160598-07	Soil	03/25/16 07:40	03/25/16 16:45
B-14-15.0	T160598-08	Soil	03/25/16 07:46	03/25/16 16:45
B-12-1.0	T160598-09	Soil	03/25/16 09:25	03/25/16 16:45
B-12-5.0	T160598-10	Soil	03/25/16 09:32	03/25/16 16:45
B-12-10.0	T160598-11	Soil	03/25/16 09:35	03/25/16 16:45
B-12-15.0	T160598-12	Soil	03/25/16 09:45	03/25/16 16:45
B-5-5.0	T160598-14	Soil	03/25/16 10:38	03/25/16 16:45
B-5-10.0	T160598-15	Soil	03/25/16 10:41	03/25/16 16:45
B-5-15.0	T160598-16	Soil	03/25/16 10:47	03/25/16 16:45
B-11-1.0	T160598-17	Soil	03/25/16 12:03	03/25/16 16:45
B-11-5.0	T160598-18	Soil	03/25/16 12:06	03/25/16 16:45
B-11-10.0	T160598-19	Soil	03/25/16 12:10	03/25/16 16:45
B-11-15.0	T160598-20	Soil	03/25/16 12:14	03/25/16 16:45
B-10-1.0	T160598-21	Soil	03/25/16 12:53	03/25/16 16:45
B-10-5.0	T160598-22	Soil	03/25/16 12:57	03/25/16 16:45
B-10-10.0	T160598-23	Soil	03/25/16 13:00	03/25/16 16:45
B-10-15.0	T160598-24	Soil	03/25/16 13:05	03/25/16 16:45
B-16-1.0	T160598-30	Soil	03/24/16 16:47	03/25/16 16:45
B-7-5.0	T160598-32	Soil	03/25/16 15:28	03/25/16 16:45
B-7-10.0	T160598-33	Soil	03/25/16 15:34	03/25/16 16:45

SunStar Laboratories, Inc.

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Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Center Cal
Project Number: 2047.06
Project Manager: Derrick Willis

Reported:
04/20/16 17:29

DETECTIONS SUMMARY

Sample ID: B-16-5.0

Laboratory ID: T160598-02

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	70	1.0		mg/kg	EPA 6010B	
Chromium	11	2.0		mg/kg	EPA 6010B	
Cobalt	7.2	2.0		mg/kg	EPA 6010B	
Copper	7.1	1.0		mg/kg	EPA 6010B	
Nickel	9.2	2.0		mg/kg	EPA 6010B	
Vanadium	22	5.0		mg/kg	EPA 6010B	
Zinc	12	1.0		mg/kg	EPA 6010B	

Sample ID: B-16-10.0

Laboratory ID: T160598-03

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Arsenic	5.0	5.0		mg/kg	EPA 6010B	
Barium	76	1.0		mg/kg	EPA 6010B	
Chromium	19	2.0		mg/kg	EPA 6010B	
Cobalt	11	2.0		mg/kg	EPA 6010B	
Copper	22	1.0		mg/kg	EPA 6010B	
Nickel	15	2.0		mg/kg	EPA 6010B	
Vanadium	42	5.0		mg/kg	EPA 6010B	
Zinc	22	1.0		mg/kg	EPA 6010B	

Sample ID: B-16-15.0

Laboratory ID: T160598-04

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	110	1.0		mg/kg	EPA 6010B	
Chromium	17	2.0		mg/kg	EPA 6010B	
Cobalt	9.0	2.0		mg/kg	EPA 6010B	
Copper	16	1.0		mg/kg	EPA 6010B	
Nickel	13	2.0		mg/kg	EPA 6010B	
Vanadium	33	5.0		mg/kg	EPA 6010B	
Zinc	19	1.0		mg/kg	EPA 6010B	

SunStar Laboratories, Inc.



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Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Center Cal
Project Number: 2047.06
Project Manager: Derrick Willis

Reported:
04/20/16 17:29

Sample ID: B-14-5.0

Laboratory ID: T160598-06

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C4-C12 (GRO)	17000	360		ug/kg	EPA 8015C	
C13-C22 (DRO)	20	10		mg/kg	EPA 8015C	
Barium	57	1.0		mg/kg	EPA 6010B	
Chromium	10	2.0		mg/kg	EPA 6010B	
Cobalt	6.7	2.0		mg/kg	EPA 6010B	
Copper	6.7	1.0		mg/kg	EPA 6010B	
Nickel	7.8	2.0		mg/kg	EPA 6010B	
Vanadium	19	5.0		mg/kg	EPA 6010B	
Zinc	11	1.0		mg/kg	EPA 6010B	
Isopropylbenzene	54	4.4		ug/kg	EPA 8260B/5035	
Naphthalene	55	4.4		ug/kg	EPA 8260B/5035	
n-Propylbenzene	130	4.4		ug/kg	EPA 8260B/5035	
1,3,5-Trimethylbenzene	100	4.4		ug/kg	EPA 8260B/5035	
1,2,4-Trimethylbenzene	420	4.4		ug/kg	EPA 8260B/5035	
Benzene	480	4.4		ug/kg	EPA 8260B/5035	
Toluene	130	4.4		ug/kg	EPA 8260B/5035	
Ethylbenzene	1800	220		ug/kg	EPA 8260B/5035	
m,p-Xylene	2100	440		ug/kg	EPA 8260B/5035	
o-Xylene	210	4.4		ug/kg	EPA 8260B/5035	
1-Methylnaphthalene	420	300		ug/kg	EPA 8270C	
2-Methylnaphthalene	730	300		ug/kg	EPA 8270C	
Hexachloroethane	400	300		ug/kg	EPA 8270C	
Naphthalene	650	300		ug/kg	EPA 8270C	

Sample ID: B-14-10.0

Laboratory ID: T160598-07

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C23-C32 (MORO)	75	10		mg/kg	EPA 8015C	
Barium	93	1.0		mg/kg	EPA 6010B	
Chromium	12	2.0		mg/kg	EPA 6010B	
Cobalt	7.3	2.0		mg/kg	EPA 6010B	
Copper	9.6	1.0		mg/kg	EPA 6010B	
Nickel	9.6	2.0		mg/kg	EPA 6010B	
Vanadium	23	5.0		mg/kg	EPA 6010B	
Zinc	13	1.0		mg/kg	EPA 6010B	

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Project: Center Cal
Project Number: 2047.06
Project Manager: Derrick Willis

Reported:
04/20/16 17:29

Sample ID: B-14-15.0

Laboratory ID: T160598-08

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C23-C32 (MORO)	81	10		mg/kg	EPA 8015C	
C13-C22 (DRO)	14	10		mg/kg	EPA 8015C	
Arsenic	8.3	5.0		mg/kg	EPA 6010B	
Barium	140	1.0		mg/kg	EPA 6010B	
Chromium	16	2.0		mg/kg	EPA 6010B	
Cobalt	8.9	2.0		mg/kg	EPA 6010B	
Copper	16	1.0		mg/kg	EPA 6010B	
Nickel	12	2.0		mg/kg	EPA 6010B	
Vanadium	29	5.0		mg/kg	EPA 6010B	
Zinc	18	1.0		mg/kg	EPA 6010B	

Sample ID: B-12-1.0

Laboratory ID: T160598-09

No Results Detected

Sample ID: B-12-5.0

Laboratory ID: T160598-10

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C13-C22 (DRO)	41	10		mg/kg	EPA 8015C	
C23-C32 (MORO)	350	10		mg/kg	EPA 8015C	
Barium	63	1.0		mg/kg	EPA 6010B	
Chromium	12	2.0		mg/kg	EPA 6010B	
Cobalt	7.4	2.0		mg/kg	EPA 6010B	
Copper	9.2	1.0		mg/kg	EPA 6010B	
Nickel	8.9	2.0		mg/kg	EPA 6010B	
Vanadium	23	5.0		mg/kg	EPA 6010B	
Zinc	13	1.0		mg/kg	EPA 6010B	
Bis(2-ethylhexyl)phthalate	6400	300		ug/kg	EPA 8270C	

Sample ID: B-12-10.0

Laboratory ID: T160598-11

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C23-C32 (MORO)	40	10		mg/kg	EPA 8015C	

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Reported:
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Sample ID: B-12-10.0

Laboratory ID: T160598-11

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	110	1.0		mg/kg	EPA 6010B	
Chromium	9.4	2.0		mg/kg	EPA 6010B	
Cobalt	6.0	2.0		mg/kg	EPA 6010B	
Copper	6.4	1.0		mg/kg	EPA 6010B	
Nickel	7.5	2.0		mg/kg	EPA 6010B	
Vanadium	18	5.0		mg/kg	EPA 6010B	
Zinc	10	1.0		mg/kg	EPA 6010B	

Sample ID: B-12-15.0

Laboratory ID: T160598-12

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Arsenic	8.3	5.0		mg/kg	EPA 6010B	
Barium	59	1.0		mg/kg	EPA 6010B	
Chromium	15	2.0		mg/kg	EPA 6010B	
Cobalt	8.7	2.0		mg/kg	EPA 6010B	
Copper	14	1.0		mg/kg	EPA 6010B	
Nickel	12	2.0		mg/kg	EPA 6010B	
Vanadium	29	5.0		mg/kg	EPA 6010B	
Zinc	16	1.0		mg/kg	EPA 6010B	

Sample ID: B-5-5.0

Laboratory ID: T160598-14

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	97	1.0		mg/kg	EPA 6010B	
Chromium	10	2.0		mg/kg	EPA 6010B	
Cobalt	7.2	2.0		mg/kg	EPA 6010B	
Copper	6.5	1.0		mg/kg	EPA 6010B	
Nickel	8.4	2.0		mg/kg	EPA 6010B	
Vanadium	24	5.0		mg/kg	EPA 6010B	
Zinc	11	1.0		mg/kg	EPA 6010B	

Sample ID: B-5-10.0

Laboratory ID: T160598-15

Analyte	Result	Reporting		Units	Method	Notes
		Limit				

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Project Manager: Derrick Willis

Reported:
04/20/16 17:29

Sample ID: B-5-10.0

Laboratory ID: T160598-15

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	68	1.0		mg/kg	EPA 6010B	
Chromium	16	2.0		mg/kg	EPA 6010B	
Cobalt	9.3	2.0		mg/kg	EPA 6010B	
Copper	15	1.0		mg/kg	EPA 6010B	
Nickel	11	2.0		mg/kg	EPA 6010B	
Vanadium	37	5.0		mg/kg	EPA 6010B	
Zinc	18	1.0		mg/kg	EPA 6010B	

Sample ID: B-5-15.0

Laboratory ID: T160598-16

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Arsenic	6.1	5.0		mg/kg	EPA 6010B	
Barium	94	1.0		mg/kg	EPA 6010B	
Chromium	20	2.0		mg/kg	EPA 6010B	
Cobalt	8.9	2.0		mg/kg	EPA 6010B	
Copper	22	1.0		mg/kg	EPA 6010B	
Nickel	13	2.0		mg/kg	EPA 6010B	
Vanadium	37	5.0		mg/kg	EPA 6010B	
Zinc	22	1.0		mg/kg	EPA 6010B	

Sample ID: B-11-1.0

Laboratory ID: T160598-17

No Results Detected

Sample ID: B-11-5.0

Laboratory ID: T160598-18

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	45	1.0		mg/kg	EPA 6010B	
Chromium	8.2	2.0		mg/kg	EPA 6010B	
Cobalt	5.4	2.0		mg/kg	EPA 6010B	
Copper	4.8	1.0		mg/kg	EPA 6010B	
Nickel	6.5	2.0		mg/kg	EPA 6010B	
Vanadium	17	5.0		mg/kg	EPA 6010B	

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Project Manager: Derrick Willis

Reported:
04/20/16 17:29

Sample ID: B-11-5.0

Laboratory ID: T160598-18

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Zinc	9.0	1.0		mg/kg	EPA 6010B	

Sample ID: B-11-10.0

Laboratory ID: T160598-19

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Arsenic	8.1	5.0		mg/kg	EPA 6010B	
Barium	43	1.0		mg/kg	EPA 6010B	
Chromium	18	2.0		mg/kg	EPA 6010B	
Cobalt	9.2	2.0		mg/kg	EPA 6010B	
Copper	16	1.0		mg/kg	EPA 6010B	
Molybdenum	5.8	5.0		mg/kg	EPA 6010B	
Nickel	13	2.0		mg/kg	EPA 6010B	
Vanadium	32	5.0		mg/kg	EPA 6010B	
Zinc	20	1.0		mg/kg	EPA 6010B	

Sample ID: B-11-15.0

Laboratory ID: T160598-20

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C23-C32 (MORO)	24	10		mg/kg	EPA 8015C	
Arsenic	22	5.0		mg/kg	EPA 6010B	
Barium	100	1.0		mg/kg	EPA 6010B	
Chromium	19	2.0		mg/kg	EPA 6010B	
Cobalt	11	2.0		mg/kg	EPA 6010B	
Copper	12	1.0		mg/kg	EPA 6010B	
Lead	17	3.0		mg/kg	EPA 6010B	
Nickel	15	2.0		mg/kg	EPA 6010B	
Vanadium	33	5.0		mg/kg	EPA 6010B	
Zinc	20	1.0		mg/kg	EPA 6010B	

Sample ID: B-10-1.0

Laboratory ID: T160598-21

No Results Detected

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Reported:
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Sample ID: B-10-5.0

Laboratory ID: T160598-22

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	26	1.0		mg/kg	EPA 6010B	
Chromium	5.8	2.0		mg/kg	EPA 6010B	
Cobalt	3.7	2.0		mg/kg	EPA 6010B	
Copper	3.3	1.0		mg/kg	EPA 6010B	
Nickel	4.1	2.0		mg/kg	EPA 6010B	
Vanadium	10	5.0		mg/kg	EPA 6010B	
Zinc	6.3	1.0		mg/kg	EPA 6010B	

Sample ID: B-10-10.0

Laboratory ID: T160598-23

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C4-C12 (GRO)	190000	390		ug/kg	EPA 8015C	
C13-C22 (DRO)	91	10		mg/kg	EPA 8015C	
C23-C32 (MORO)	39	10		mg/kg	EPA 8015C	
Arsenic	9.5	5.0		mg/kg	EPA 6010B	
Barium	88	1.0		mg/kg	EPA 6010B	
Chromium	16	2.0		mg/kg	EPA 6010B	
Cobalt	9.9	2.0		mg/kg	EPA 6010B	
Copper	19	1.0		mg/kg	EPA 6010B	
Molybdenum	6.3	5.0		mg/kg	EPA 6010B	
Nickel	13	2.0		mg/kg	EPA 6010B	
Vanadium	40	5.0		mg/kg	EPA 6010B	
Zinc	18	1.0		mg/kg	EPA 6010B	
sec-Butylbenzene	5.0	5.0		ug/kg	EPA 8260B/5035	
Isopropylbenzene	21	5.0		ug/kg	EPA 8260B/5035	
p-Isopropyltoluene	6.8	5.0		ug/kg	EPA 8260B/5035	
n-Propylbenzene	18	5.0		ug/kg	EPA 8260B/5035	
1,3,5-Trimethylbenzene	12	5.0		ug/kg	EPA 8260B/5035	
1,2,4-Trimethylbenzene	27	5.0		ug/kg	EPA 8260B/5035	
Benzene	21	5.0		ug/kg	EPA 8260B/5035	
Ethylbenzene	75	5.0		ug/kg	EPA 8260B/5035	

Sample ID: B-10-15.0

Laboratory ID: T160598-24

Analyte	Result	Reporting		Units	Method	Notes
		Limit				

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Sample ID: B-7-10.0

Laboratory ID: T160598-33

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Zinc	25	1.0		mg/kg	EPA 6010B	

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B-16-5.0
T160598-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C4-C12 (GRO)	ND	450	ug/kg	1	6032941	03/29/16	03/30/16	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		71.2 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015C

C13-C22 (DRO)	ND	10	mg/kg	1	6032847	03/28/16	03/30/16	EPA 8015C	
C23-C32 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		92.2 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	6032846	03/28/16	03/29/16	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	70	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	11	2.0	"	"	"	"	"	"	
Cobalt	7.2	2.0	"	"	"	"	"	"	
Copper	7.1	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	9.2	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	22	5.0	"	"	"	"	"	"	
Zinc	12	1.0	"	"	"	"	"	"	

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B-16-5.0
T160598-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	6032845	03/28/16	03/29/16	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6032829	03/28/16	04/01/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene	65.9 %	35-140	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl	51.7 %	35-140	"	"	"	"	"	"	

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Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
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B-16-5.0
T160598-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	6032938	03/29/16	03/30/16	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		139 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		134 %	35-140		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	5.6	ug/kg	1	6032940	03/29/16	03/29/16	EPA 8260B/5035	
Bromochloromethane	ND	5.6	"	"	"	"	"	"	
Bromodichloromethane	ND	5.6	"	"	"	"	"	"	
Bromoform	ND	5.6	"	"	"	"	"	"	
Bromomethane	ND	5.6	"	"	"	"	"	"	
n-Butylbenzene	ND	5.6	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.6	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.6	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.6	"	"	"	"	"	"	
Chlorobenzene	ND	5.6	"	"	"	"	"	"	
Chloroethane	ND	5.6	"	"	"	"	"	"	
Chloroform	ND	5.6	"	"	"	"	"	"	
Chloromethane	ND	5.6	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.6	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.6	"	"	"	"	"	"	
Dibromochloromethane	ND	5.6	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	11	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.6	"	"	"	"	"	"	
Dibromomethane	ND	5.6	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.6	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.6	"	"	"	"	"	"	

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Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
 04/20/16 17:29

B-16-5.0
T160598-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,4-Dichlorobenzene	ND	5.6	ug/kg	1	6032940	03/29/16	03/29/16	EPA 8260B/5035	
Dichlorodifluoromethane	ND	5.6	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	5.6	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	5.6	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	5.6	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	5.6	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	5.6	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	5.6	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	5.6	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	5.6	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	5.6	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	5.6	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	5.6	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	5.6	"	"	"	"	"	"	"
Isopropylbenzene	ND	5.6	"	"	"	"	"	"	"
p-Isopropyltoluene	ND	5.6	"	"	"	"	"	"	"
Methylene chloride	ND	5.6	"	"	"	"	"	"	"
Naphthalene	ND	5.6	"	"	"	"	"	"	"
n-Propylbenzene	ND	5.6	"	"	"	"	"	"	"
Styrene	ND	5.6	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	5.6	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	5.6	"	"	"	"	"	"	"
Tetrachloroethene	ND	5.6	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	5.6	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	5.6	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	5.6	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	5.6	"	"	"	"	"	"	"
Trichloroethene	ND	5.6	"	"	"	"	"	"	"
Trichlorofluoromethane	ND	5.6	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	5.6	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	5.6	"	"	"	"	"	"	"

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Northgate Environmental Management -- Laguna Hills 24411 Ridge Route Drive, Suite 130 Laguna Hills CA, 92653	Project: Center Cal Project Number: 2047.06 Project Manager: Derrick Willis	Reported: 04/20/16 17:29
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B-16-5.0
T160598-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Volatile Organic Compounds by EPA Method 8260B

1,2,4-Trimethylbenzene	ND	5.6	ug/kg	1	6032940	03/29/16	03/29/16	EPA 8260B/5035	
Vinyl chloride	ND	5.6	"	"	"	"	"	"	
Benzene	ND	5.6	"	"	"	"	"	"	
Toluene	ND	5.6	"	"	"	"	"	"	
Ethylbenzene	ND	5.6	"	"	"	"	"	"	
m,p-Xylene	ND	11	"	"	"	"	"	"	
o-Xylene	ND	5.6	"	"	"	"	"	"	
Surrogate: Toluene-d8		106 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		115 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		105 %	95.7-135		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	300	ug/kg	1	6032939	03/29/16	03/31/16	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	

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Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
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B-16-5.0
T160598-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Benzo (g,h,i) perylene	ND	1000	ug/kg	1	6032939	03/29/16	03/31/16	EPA 8270C	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	

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B-16-5.0
T160598-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Indeno (1,2,3-cd) pyrene	ND	300	ug/kg	1	6032939	03/29/16	03/31/16	EPA 8270C	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		49.6 %	15-121		"	"	"	"	
Surrogate: Phenol-d6		57.3 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		73.7 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		64.4 %	32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		89.5 %	18.1-105		"	"	"	"	
Surrogate: Terphenyl-d14		80.2 %	29.1-130		"	"	"	"	

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B-16-10.0
T160598-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C4-C12 (GRO)	ND	430	ug/kg	1	6032941	03/29/16	03/30/16	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		65.9 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015C

C13-C22 (DRO)	ND	10	mg/kg	1	6032847	03/28/16	03/30/16	EPA 8015C	
C23-C32 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		95.8 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	6032846	03/28/16	03/29/16	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	5.0	5.0	"	"	"	"	"	"	
Barium	76	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	19	2.0	"	"	"	"	"	"	
Cobalt	11	2.0	"	"	"	"	"	"	
Copper	22	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	15	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	42	5.0	"	"	"	"	"	"	
Zinc	22	1.0	"	"	"	"	"	"	

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B-16-10.0
T160598-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	6032845	03/28/16	03/29/16	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6032829	03/28/16	04/01/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene	67.7 %	35-140	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl	59.8 %	35-140	"	"	"	"	"	"	

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B-16-10.0
T160598-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	6032938	03/29/16	03/30/16	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		131 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		158 %	35-140		"	"	"	"	S-GC

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	5.0	ug/kg	1	6032940	03/29/16	03/29/16	EPA 8260B/5035	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	

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B-16-10.0
T160598-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,4-Dichlorobenzene	ND	5.0	ug/kg	1	6032940	03/29/16	03/29/16	EPA 8260B/5035	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	

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B-16-10.0
T160598-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Volatile Organic Compounds by EPA Method 8260B

1,2,4-Trimethylbenzene	ND	5.0	ug/kg	1	6032940	03/29/16	03/29/16	EPA 8260B/5035	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Surrogate: Toluene-d8		104 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		111 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		116 %	95.7-135		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	300	ug/kg	1	6032939	03/29/16	03/31/16	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	

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Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
 04/20/16 17:29

B-16-10.0
T160598-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzo (g,h,i) perylene	ND	1000	ug/kg	1	6032939	03/29/16	03/31/16	EPA 8270C	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	

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Project: Center Cal
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B-16-10.0
T160598-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Indeno (1,2,3-cd) pyrene	ND	300	ug/kg	1	6032939	03/29/16	03/31/16	EPA 8270C	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		52.5 %	15-121		"	"	"	"	
Surrogate: Phenol-d6		58.6 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		73.4 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		66.6 %	32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		88.2 %	18.1-105		"	"	"	"	
Surrogate: Terphenyl-d14		88.1 %	29.1-130		"	"	"	"	

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B-16-15.0
T160598-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C4-C12 (GRO)	ND	360	ug/kg	1	6032941	03/29/16	03/30/16	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		77.0 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015C

C23-C32 (MORO)	ND	10	mg/kg	1	6032847	03/28/16	03/30/16	EPA 8015C	
C13-C22 (DRO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		87.6 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	6032846	03/28/16	03/29/16	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	110	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	17	2.0	"	"	"	"	"	"	
Cobalt	9.0	2.0	"	"	"	"	"	"	
Copper	16	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	13	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	33	5.0	"	"	"	"	"	"	
Zinc	19	1.0	"	"	"	"	"	"	

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B-16-15.0
T160598-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	6032845	03/28/16	03/29/16	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6032829	03/28/16	04/01/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene	80.5 %	35-140	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl	67.9 %	35-140	"	"	"	"	"	"	

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B-16-15.0
T160598-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	6032938	03/29/16	03/30/16	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		130 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		122 %	35-140		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	5.0	ug/kg	1	6032940	03/29/16	03/29/16	EPA 8260B/5035	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	

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B-16-15.0
T160598-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,4-Dichlorobenzene	ND	5.0	ug/kg	1	6032940	03/29/16	03/29/16	EPA 8260B/5035	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	"
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	"
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	"
Methylene chloride	ND	5.0	"	"	"	"	"	"	"
Naphthalene	ND	5.0	"	"	"	"	"	"	"
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	"
Styrene	ND	5.0	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	"
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	"
Trichloroethene	ND	5.0	"	"	"	"	"	"	"
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	"

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T160598-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Volatile Organic Compounds by EPA Method 8260B

1,2,4-Trimethylbenzene	ND	5.0	ug/kg	1	6032940	03/29/16	03/29/16	EPA 8260B/5035	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Surrogate: Toluene-d8		101 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		110 %	95.7-135		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	300	ug/kg	1	6032939	03/29/16	03/31/16	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	

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Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
 04/20/16 17:29

B-16-15.0
T160598-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzo (g,h,i) perylene	ND	1000	ug/kg	1	6032939	03/29/16	03/31/16	EPA 8270C	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Project: Center Cal
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 Project Manager: Derrick Willis

Reported:
 04/20/16 17:29

B-16-15.0
T160598-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Indeno (1,2,3-cd) pyrene	ND	300	ug/kg	1	6032939	03/29/16	03/31/16	EPA 8270C	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		48.1 %	15-121		"	"	"	"	
Surrogate: Phenol-d6		54.4 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		65.6 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		68.8 %	32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		91.9 %	18.1-105		"	"	"	"	
Surrogate: Terphenyl-d14		85.1 %	29.1-130		"	"	"	"	

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B-14-5.0
T160598-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C4-C12 (GRO)	17000	360	ug/kg	1	6032833	03/28/16	03/29/16	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		67.8 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015C

C23-C32 (MORO)	ND	10	mg/kg	1	6032828	03/28/16	03/29/16	EPA 8015C	
C13-C22 (DRO)	20	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		100 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	6032820	03/28/16	03/28/16	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	57	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	10	2.0	"	"	"	"	"	"	
Cobalt	6.7	2.0	"	"	"	"	"	"	
Copper	6.7	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	7.8	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	19	5.0	"	"	"	"	"	"	
Zinc	11	1.0	"	"	"	"	"	"	

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B-14-5.0
T160598-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	6032822	03/28/16	03/28/16	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6032829	03/28/16	04/01/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene	61.1 %	35-140	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl	54.7 %	35-140	"	"	"	"	"	"	

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B-14-5.0
T160598-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromobenzene	ND	4.4	ug/kg	1	6032832	03/28/16	03/28/16	EPA 8260B/5035	
Bromochloromethane	ND	4.4	"	"	"	"	"	"	
Bromodichloromethane	ND	4.4	"	"	"	"	"	"	
Bromoform	ND	4.4	"	"	"	"	"	"	
Bromomethane	ND	4.4	"	"	"	"	"	"	
n-Butylbenzene	ND	4.4	"	"	"	"	"	"	
sec-Butylbenzene	ND	4.4	"	"	"	"	"	"	
tert-Butylbenzene	ND	4.4	"	"	"	"	"	"	
Carbon tetrachloride	ND	4.4	"	"	"	"	"	"	
Chlorobenzene	ND	4.4	"	"	"	"	"	"	
Chloroethane	ND	4.4	"	"	"	"	"	"	
Chloroform	ND	4.4	"	"	"	"	"	"	
Chloromethane	ND	4.4	"	"	"	"	"	"	
2-Chlorotoluene	ND	4.4	"	"	"	"	"	"	
4-Chlorotoluene	ND	4.4	"	"	"	"	"	"	
Dibromochloromethane	ND	4.4	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	8.8	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	4.4	"	"	"	"	"	"	
Dibromomethane	ND	4.4	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	4.4	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	4.4	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	4.4	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	4.4	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.4	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.4	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.4	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.4	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.4	"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.4	"	"	"	"	"	"	
1,3-Dichloropropane	ND	4.4	"	"	"	"	"	"	
2,2-Dichloropropane	ND	4.4	"	"	"	"	"	"	

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B-14-5.0
T160598-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1-Dichloropropene	ND	4.4	ug/kg	1	6032832	03/28/16	03/28/16	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	4.4	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.4	"	"	"	"	"	"	
Hexachlorobutadiene	ND	4.4	"	"	"	"	"	"	
Isopropylbenzene	54	4.4	"	"	"	"	"	"	
p-Isopropyltoluene	ND	4.4	"	"	"	"	"	"	
Methylene chloride	ND	4.4	"	"	"	"	"	"	
Naphthalene	55	4.4	"	"	"	"	"	"	
n-Propylbenzene	130	4.4	"	"	"	"	"	"	
Styrene	ND	4.4	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	4.4	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	4.4	"	"	"	"	"	"	
Tetrachloroethene	ND	4.4	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	4.4	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	4.4	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	4.4	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	4.4	"	"	"	"	"	"	
Trichloroethene	ND	4.4	"	"	"	"	"	"	
Trichlorofluoromethane	ND	4.4	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	4.4	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	100	4.4	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	420	4.4	"	"	"	"	"	"	
Vinyl chloride	ND	4.4	"	"	"	"	"	"	
Benzene	480	4.4	"	"	"	"	"	"	
Toluene	130	4.4	"	"	"	"	"	"	
Ethylbenzene	1800	220	"	50	"	"	"	"	
m,p-Xylene	2100	440	"	"	"	"	"	"	
o-Xylene	210	4.4	"	1	"	"	"	"	
Surrogate: Toluene-d8		105 %		85.5-116	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		114 %		81.2-123	"	"	"	"	
Surrogate: Dibromofluoromethane		109 %		95.7-135	"	"	"	"	

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B-14-5.0
T160598-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Carbazole	ND	300	ug/kg	1	6032837	03/28/16	03/29/16	EPA 8270C	
Aniline	ND	300	"	"	"	"	"	"	
Phenol	ND	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	730	300	"	"	"	"	"	"	
1-Methylnaphthalene	420	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	

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B-14-5.0
T160598-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Chrysene	ND	300	ug/kg	1	6032837	03/28/16	03/29/16	EPA 8270C	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	400	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	650	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	

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B-14-5.0
T160598-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

2,3,5,6-Tetrachlorophenol	ND	300	ug/kg	1	6032837	03/28/16	03/29/16	EPA 8270C	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		56.2 %	15-121		"	"	"	"	
Surrogate: Phenol-d6		45.4 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		56.0 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		72.3 %	32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		93.1 %	18.1-105		"	"	"	"	
Surrogate: Terphenyl-d14		109 %	29.1-130		"	"	"	"	

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B-14-10.0
T160598-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C4-C12 (GRO)	ND	390	ug/kg	1	6032833	03/28/16	03/29/16	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		28.5 %	65-135		"	"	"	"	S-03

Extractable Petroleum Hydrocarbons by 8015C

C13-C22 (DRO)	ND	10	mg/kg	1	6032828	03/28/16	03/29/16	EPA 8015C	
C23-C32 (MORO)	75	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		99.6 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	6032820	03/28/16	03/28/16	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	93	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	12	2.0	"	"	"	"	"	"	
Cobalt	7.3	2.0	"	"	"	"	"	"	
Copper	9.6	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	9.6	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	23	5.0	"	"	"	"	"	"	
Zinc	13	1.0	"	"	"	"	"	"	

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B-14-10.0
T160598-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	6032822	03/28/16	03/28/16	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6032829	03/28/16	04/01/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene	58.7 %	35-140	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl	40.4 %	35-140	"	"	"	"	"	"	

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B-14-10.0
T160598-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromobenzene	ND	5.0	ug/kg	1	6032832	03/28/16	03/30/16	EPA 8260B/5035	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	"
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	"
Bromoform	ND	5.0	"	"	"	"	"	"	"
Bromomethane	ND	5.0	"	"	"	"	"	"	"
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	"
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	"
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	"
Chlorobenzene	ND	5.0	"	"	"	"	"	"	"
Chloroethane	ND	5.0	"	"	"	"	"	"	"
Chloroform	ND	5.0	"	"	"	"	"	"	"
Chloromethane	ND	5.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	"
Dibromomethane	ND	5.0	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	"

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B-14-10.0
T160598-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1-Dichloropropene	ND	5.0	ug/kg	1	6032832	03/28/16	03/30/16	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Surrogate: Toluene-d8		80.9 %		85.5-116	"	"	"	"	S-GC
Surrogate: 4-Bromofluorobenzene		61.9 %		81.2-123	"	"	"	"	S-GC
Surrogate: Dibromofluoromethane		125 %		95.7-135	"	"	"	"	

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B-14-10.0
T160598-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Carbazole	ND	1500	ug/kg	5	6032837	03/28/16	03/29/16	EPA 8270C	
Aniline	ND	1500	"	"	"	"	"	"	
Phenol	ND	5000	"	"	"	"	"	"	
2-Chlorophenol	ND	5000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1500	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	1500	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1500	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	5000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	1500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	1500	"	"	"	"	"	"	
Acenaphthene	ND	1500	"	"	"	"	"	"	
4-Nitrophenol	ND	5000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	1500	"	"	"	"	"	"	
Pentachlorophenol	ND	5000	"	"	"	"	"	"	
Pyrene	ND	1500	"	"	"	"	"	"	
Acenaphthylene	ND	1500	"	"	"	"	"	"	
Anthracene	ND	1500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	1500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	1500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	1500	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	5000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	1500	"	"	"	"	"	"	
Benzyl alcohol	ND	1500	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	1500	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	1500	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	1500	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	1500	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	1500	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	1500	"	"	"	"	"	"	
4-Chloroaniline	ND	1500	"	"	"	"	"	"	
2-Chloronaphthalene	ND	1500	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	1500	"	"	"	"	"	"	

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B-14-10.0
T160598-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Chrysene	ND	1500	ug/kg	5	6032837	03/28/16	03/29/16	EPA 8270C	
Dibenz (a,h) anthracene	ND	1500	"	"	"	"	"	"	
Dibenzofuran	ND	1500	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	1500	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1500	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	5000	"	"	"	"	"	"	
Diethyl phthalate	ND	1500	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	5000	"	"	"	"	"	"	
Dimethyl phthalate	ND	1500	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	5000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	5000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	5000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	1500	"	"	"	"	"	"	
Fluoranthene	ND	1500	"	"	"	"	"	"	
Fluorene	ND	1500	"	"	"	"	"	"	
Hexachlorobenzene	ND	7500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1500	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	5000	"	"	"	"	"	"	
Hexachloroethane	ND	1500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	1500	"	"	"	"	"	"	
Isophorone	ND	1500	"	"	"	"	"	"	
2-Methylphenol	ND	5000	"	"	"	"	"	"	
4-Methylphenol	ND	5000	"	"	"	"	"	"	
Naphthalene	ND	1500	"	"	"	"	"	"	
2-Nitroaniline	ND	1500	"	"	"	"	"	"	
3-Nitroaniline	ND	1500	"	"	"	"	"	"	
4-Nitroaniline	ND	1500	"	"	"	"	"	"	
Nitrobenzene	ND	5000	"	"	"	"	"	"	
2-Nitrophenol	ND	5000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	1500	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	1500	"	"	"	"	"	"	

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B-14-10.0
T160598-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

2,3,5,6-Tetrachlorophenol	ND	1500	ug/kg	5	6032837	03/28/16	03/29/16	EPA 8270C	
2,3,4,6-Tetrachlorophenol	ND	1500	"	"	"	"	"	"	
Phenanthrene	ND	1500	"	"	"	"	"	"	
Azobenzene	ND	1500	"	"	"	"	"	"	
Pyridine	ND	1500	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	5000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	5000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		72.8 %	15-121		"	"	"	"	
Surrogate: Phenol-d6		74.5 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		68.9 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		86.7 %	32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		124 %	18.1-105		"	"	"	"	S-GC
Surrogate: Terphenyl-d14		110 %	29.1-130		"	"	"	"	

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B-14-15.0
T160598-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C4-C12 (GRO)	ND	420	ug/kg	1	6032833	03/28/16	03/29/16	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		35.2 %	65-135		"	"	"	"	S-03

Extractable Petroleum Hydrocarbons by 8015C

C13-C22 (DRO)	14	10	mg/kg	1	6032828	03/28/16	03/29/16	EPA 8015C	
C23-C32 (MORO)	81	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		105 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	6032820	03/28/16	03/28/16	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	8.3	5.0	"	"	"	"	"	"	
Barium	140	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	16	2.0	"	"	"	"	"	"	
Cobalt	8.9	2.0	"	"	"	"	"	"	
Copper	16	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	12	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	29	5.0	"	"	"	"	"	"	
Zinc	18	1.0	"	"	"	"	"	"	

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B-14-15.0
T160598-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	6032822	03/28/16	03/28/16	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6032829	03/28/16	04/01/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene	48.5 %	35-140	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl	43.1 %	35-140	"	"	"	"	"	"	

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Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
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B-14-15.0
T160598-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromobenzene	ND	5.0	ug/kg	1	6032832	03/28/16	03/28/16	EPA 8260B/5035	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	

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B-14-15.0
T160598-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1-Dichloropropene	ND	5.0	ug/kg	1	6032832	03/28/16	03/28/16	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Surrogate: Toluene-d8		102 %		85.5-116	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %		81.2-123	"	"	"	"	
Surrogate: Dibromofluoromethane		111 %		95.7-135	"	"	"	"	

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Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
 04/20/16 17:29

B-14-15.0
T160598-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Carbazole	ND	300	ug/kg	1	6032837	03/28/16	03/29/16	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	

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 Project Number: 2047.06
 Project Manager: Derrick Willis

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B-14-15.0
T160598-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Chrysene	ND	300	ug/kg	1	6032837	03/28/16	03/29/16	EPA 8270C	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	

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B-14-15.0
T160598-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

2,3,5,6-Tetrachlorophenol	ND	300	ug/kg	1	6032837	03/28/16	03/29/16	EPA 8270C	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		53.8 %	15-121		"	"	"	"	
Surrogate: Phenol-d6		41.2 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		50.7 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		73.8 %	32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		114 %	18.1-105		"	"	"	"	
Surrogate: Terphenyl-d14		98.1 %	29.1-130		"	"	"	"	S-GC

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B-12-1.0
T160598-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6032829	03/28/16	04/01/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		43.1 %		35-140	"	"	"	"	
Surrogate: Decachlorobiphenyl		32.3 %		35-140	"	"	"	"	S-03

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B-12-5.0
T160598-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C4-C12 (GRO)	ND	350	ug/kg	1	6032833	03/28/16	03/29/16	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		60.7 %	65-135		"	"	"	"	S-03

Extractable Petroleum Hydrocarbons by 8015C

C23-C32 (MORO)	350	10	mg/kg	1	6032828	03/28/16	03/29/16	EPA 8015C	
C13-C22 (DRO)	41	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		105 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	6032820	03/28/16	03/28/16	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	63	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	12	2.0	"	"	"	"	"	"	
Cobalt	7.4	2.0	"	"	"	"	"	"	
Copper	9.2	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	8.9	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	23	5.0	"	"	"	"	"	"	
Zinc	13	1.0	"	"	"	"	"	"	

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B-12-5.0
T160598-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	6032822	03/28/16	03/28/16	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6032829	03/28/16	04/01/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene	57.9 %	35-140	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl	43.8 %	35-140	"	"	"	"	"	"	

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Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
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B-12-5.0
T160598-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromobenzene	ND	4.4	ug/kg	1	6032832	03/28/16	03/28/16	EPA 8260B/5035	
Bromochloromethane	ND	4.4	"	"	"	"	"	"	
Bromodichloromethane	ND	4.4	"	"	"	"	"	"	
Bromoform	ND	4.4	"	"	"	"	"	"	
Bromomethane	ND	4.4	"	"	"	"	"	"	
n-Butylbenzene	ND	4.4	"	"	"	"	"	"	
sec-Butylbenzene	ND	4.4	"	"	"	"	"	"	
tert-Butylbenzene	ND	4.4	"	"	"	"	"	"	
Carbon tetrachloride	ND	4.4	"	"	"	"	"	"	
Chlorobenzene	ND	4.4	"	"	"	"	"	"	
Chloroethane	ND	4.4	"	"	"	"	"	"	
Chloroform	ND	4.4	"	"	"	"	"	"	
Chloromethane	ND	4.4	"	"	"	"	"	"	
2-Chlorotoluene	ND	4.4	"	"	"	"	"	"	
4-Chlorotoluene	ND	4.4	"	"	"	"	"	"	
Dibromochloromethane	ND	4.4	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	8.8	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	4.4	"	"	"	"	"	"	
Dibromomethane	ND	4.4	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	4.4	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	4.4	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	4.4	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	4.4	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.4	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.4	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.4	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.4	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.4	"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.4	"	"	"	"	"	"	
1,3-Dichloropropane	ND	4.4	"	"	"	"	"	"	
2,2-Dichloropropane	ND	4.4	"	"	"	"	"	"	

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Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
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B-12-5.0
T160598-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	4.4	ug/kg	1	6032832	03/28/16	03/28/16	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	4.4	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.4	"	"	"	"	"	"	
Hexachlorobutadiene	ND	4.4	"	"	"	"	"	"	
Isopropylbenzene	ND	4.4	"	"	"	"	"	"	
p-Isopropyltoluene	ND	4.4	"	"	"	"	"	"	
Methylene chloride	ND	4.4	"	"	"	"	"	"	
Naphthalene	ND	4.4	"	"	"	"	"	"	
n-Propylbenzene	ND	4.4	"	"	"	"	"	"	
Styrene	ND	4.4	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	4.4	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	4.4	"	"	"	"	"	"	
Tetrachloroethene	ND	4.4	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	4.4	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	4.4	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	4.4	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	4.4	"	"	"	"	"	"	
Trichloroethene	ND	4.4	"	"	"	"	"	"	
Trichlorofluoromethane	ND	4.4	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	4.4	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	4.4	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	4.4	"	"	"	"	"	"	
Vinyl chloride	ND	4.4	"	"	"	"	"	"	
Benzene	ND	4.4	"	"	"	"	"	"	
Toluene	ND	4.4	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	8.8	"	"	"	"	"	"	
o-Xylene	ND	4.4	"	"	"	"	"	"	
Surrogate: Toluene-d8		97.9 %		85.5-116	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %		81.2-123	"	"	"	"	
Surrogate: Dibromofluoromethane		115 %		95.7-135	"	"	"	"	

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Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
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B-12-5.0
T160598-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	300	ug/kg	1	6032837	03/28/16	03/29/16	EPA 8270C	
Aniline	ND	300	"	"	"	"	"	"	
Phenol	ND	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	6400	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	

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B-12-5.0
T160598-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chrysene	ND	300	ug/kg	1	6032837	03/28/16	03/29/16	EPA 8270C	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	

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B-12-5.0
T160598-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

2,3,5,6-Tetrachlorophenol	ND	300	ug/kg	1	6032837	03/28/16	03/29/16	EPA 8270C	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		47.6 %	15-121		"	"	"	"	
Surrogate: Phenol-d6		38.7 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		48.5 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		73.7 %	32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		80.8 %	18.1-105		"	"	"	"	
Surrogate: Terphenyl-d14		83.8 %	29.1-130		"	"	"	"	

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B-12-10.0
T160598-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C4-C12 (GRO)	ND	350	ug/kg	1	6032833	03/28/16	03/29/16	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		43.5 %	65-135		"	"	"	"	S-03

Extractable Petroleum Hydrocarbons by 8015C

C23-C32 (MORO)	40	10	mg/kg	1	6032828	03/28/16	03/29/16	EPA 8015C	
C13-C22 (DRO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		98.9 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	6032820	03/28/16	03/28/16	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	110	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	9.4	2.0	"	"	"	"	"	"	
Cobalt	6.0	2.0	"	"	"	"	"	"	
Copper	6.4	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	7.5	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	18	5.0	"	"	"	"	"	"	
Zinc	10	1.0	"	"	"	"	"	"	

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B-12-10.0
T160598-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	6032822	03/28/16	03/28/16	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6032829	03/28/16	04/01/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene	43.5 %	35-140	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl	32.9 %	35-140	"	"	"	"	"	"	S-03

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Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
 04/20/16 17:29

B-12-10.0
T160598-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromobenzene	ND	4.5	ug/kg	1	6032832	03/28/16	03/28/16	EPA 8260B/5035	
Bromochloromethane	ND	4.5	"	"	"	"	"	"	
Bromodichloromethane	ND	4.5	"	"	"	"	"	"	
Bromoform	ND	4.5	"	"	"	"	"	"	
Bromomethane	ND	4.5	"	"	"	"	"	"	
n-Butylbenzene	ND	4.5	"	"	"	"	"	"	
sec-Butylbenzene	ND	4.5	"	"	"	"	"	"	
tert-Butylbenzene	ND	4.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	4.5	"	"	"	"	"	"	
Chlorobenzene	ND	4.5	"	"	"	"	"	"	
Chloroethane	ND	4.5	"	"	"	"	"	"	
Chloroform	ND	4.5	"	"	"	"	"	"	
Chloromethane	ND	4.5	"	"	"	"	"	"	
2-Chlorotoluene	ND	4.5	"	"	"	"	"	"	
4-Chlorotoluene	ND	4.5	"	"	"	"	"	"	
Dibromochloromethane	ND	4.5	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	9.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	4.5	"	"	"	"	"	"	
Dibromomethane	ND	4.5	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	4.5	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	4.5	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	4.5	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	4.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.5	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.5	"	"	"	"	"	"	
1,3-Dichloropropane	ND	4.5	"	"	"	"	"	"	
2,2-Dichloropropane	ND	4.5	"	"	"	"	"	"	

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Reported:
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B-12-10.0
T160598-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloropropene	ND	4.5	ug/kg	1	6032832	03/28/16	03/28/16	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	4.5	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.5	"	"	"	"	"	"	
Hexachlorobutadiene	ND	4.5	"	"	"	"	"	"	
Isopropylbenzene	ND	4.5	"	"	"	"	"	"	
p-Isopropyltoluene	ND	4.5	"	"	"	"	"	"	
Methylene chloride	ND	4.5	"	"	"	"	"	"	
Naphthalene	ND	4.5	"	"	"	"	"	"	
n-Propylbenzene	ND	4.5	"	"	"	"	"	"	
Styrene	ND	4.5	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	4.5	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	4.5	"	"	"	"	"	"	
Tetrachloroethene	ND	4.5	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	4.5	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	4.5	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	4.5	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	4.5	"	"	"	"	"	"	
Trichloroethene	ND	4.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	4.5	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	4.5	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	4.5	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	4.5	"	"	"	"	"	"	
Vinyl chloride	ND	4.5	"	"	"	"	"	"	
Benzene	ND	4.5	"	"	"	"	"	"	
Toluene	ND	4.5	"	"	"	"	"	"	
Ethylbenzene	ND	4.5	"	"	"	"	"	"	
m,p-Xylene	ND	9.0	"	"	"	"	"	"	
o-Xylene	ND	4.5	"	"	"	"	"	"	
Surrogate: Toluene-d8		96.6 %		85.5-116	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %		81.2-123	"	"	"	"	
Surrogate: Dibromofluoromethane		109 %		95.7-135	"	"	"	"	

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Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
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B-12-10.0
T160598-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	300	ug/kg	1	6032837	03/28/16	03/29/16	EPA 8270C	
Aniline	ND	300	"	"	"	"	"	"	
Phenol	ND	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	

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B-12-10.0
T160598-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chrysene	ND	300	ug/kg	1	6032837	03/28/16	03/29/16	EPA 8270C	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	

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B-12-10.0
T160598-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

2,3,5,6-Tetrachlorophenol	ND	300	ug/kg	1	6032837	03/28/16	03/29/16	EPA 8270C	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		55.7 %	15-121		"	"	"	"	
Surrogate: Phenol-d6		44.1 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		51.8 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		78.4 %	32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		103 %	18.1-105		"	"	"	"	
Surrogate: Terphenyl-d14		91.8 %	29.1-130		"	"	"	"	

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B-12-15.0
T160598-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C4-C12 (GRO)	ND	350	ug/kg	1	6032833	03/28/16	03/29/16	EPA 8015C	
<i>Surrogate: 4-Bromofluorobenzene</i>		5.66 %	65-135		"	"	"	"	S-03

Extractable Petroleum Hydrocarbons by 8015C

C23-C32 (MORO)	ND	10	mg/kg	1	6032828	03/28/16	03/29/16	EPA 8015C	
C13-C22 (DRO)	ND	10	"	"	"	"	"	"	
<i>Surrogate: p-Terphenyl</i>		94.3 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	6032820	03/28/16	03/28/16	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	8.3	5.0	"	"	"	"	"	"	
Barium	59	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	15	2.0	"	"	"	"	"	"	
Cobalt	8.7	2.0	"	"	"	"	"	"	
Copper	14	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	12	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	29	5.0	"	"	"	"	"	"	
Zinc	16	1.0	"	"	"	"	"	"	

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B-12-15.0
T160598-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	6032822	03/28/16	03/28/16	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6032829	03/28/16	04/01/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene	58.5 %	35-140	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl	50.4 %	35-140	"	"	"	"	"	"	

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B-12-15.0
T160598-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	4.5	ug/kg	1	6032832	03/28/16	03/28/16	EPA 8260B/5035	
Bromochloromethane	ND	4.5	"	"	"	"	"	"	
Bromodichloromethane	ND	4.5	"	"	"	"	"	"	
Bromoform	ND	4.5	"	"	"	"	"	"	
Bromomethane	ND	4.5	"	"	"	"	"	"	
n-Butylbenzene	ND	4.5	"	"	"	"	"	"	
sec-Butylbenzene	ND	4.5	"	"	"	"	"	"	
tert-Butylbenzene	ND	4.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	4.5	"	"	"	"	"	"	
Chlorobenzene	ND	4.5	"	"	"	"	"	"	
Chloroethane	ND	4.5	"	"	"	"	"	"	
Chloroform	ND	4.5	"	"	"	"	"	"	
Chloromethane	ND	4.5	"	"	"	"	"	"	
2-Chlorotoluene	ND	4.5	"	"	"	"	"	"	
4-Chlorotoluene	ND	4.5	"	"	"	"	"	"	
Dibromochloromethane	ND	4.5	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	9.1	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	4.5	"	"	"	"	"	"	
Dibromomethane	ND	4.5	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	4.5	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	4.5	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	4.5	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	4.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.5	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.5	"	"	"	"	"	"	
1,3-Dichloropropane	ND	4.5	"	"	"	"	"	"	
2,2-Dichloropropane	ND	4.5	"	"	"	"	"	"	

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Northgate Environmental Management -- Laguna Hills 24411 Ridge Route Drive, Suite 130 Laguna Hills CA, 92653	Project: Center Cal Project Number: 2047.06 Project Manager: Derrick Willis	Reported: 04/20/16 17:29
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B-12-15.0
T160598-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1-Dichloropropene	ND	4.5	ug/kg	1	6032832	03/28/16	03/28/16	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	4.5	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.5	"	"	"	"	"	"	
Hexachlorobutadiene	ND	4.5	"	"	"	"	"	"	
Isopropylbenzene	ND	4.5	"	"	"	"	"	"	
p-Isopropyltoluene	ND	4.5	"	"	"	"	"	"	
Methylene chloride	ND	4.5	"	"	"	"	"	"	
Naphthalene	ND	4.5	"	"	"	"	"	"	
n-Propylbenzene	ND	4.5	"	"	"	"	"	"	
Styrene	ND	4.5	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	4.5	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	4.5	"	"	"	"	"	"	
Tetrachloroethene	ND	4.5	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	4.5	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	4.5	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	4.5	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	4.5	"	"	"	"	"	"	
Trichloroethene	ND	4.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	4.5	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	4.5	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	4.5	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	4.5	"	"	"	"	"	"	
Vinyl chloride	ND	4.5	"	"	"	"	"	"	
Benzene	ND	4.5	"	"	"	"	"	"	
Toluene	ND	4.5	"	"	"	"	"	"	
Ethylbenzene	ND	4.5	"	"	"	"	"	"	
m,p-Xylene	ND	9.1	"	"	"	"	"	"	
o-Xylene	ND	4.5	"	"	"	"	"	"	
Surrogate: Toluene-d8		98.7 %		85.5-116	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %		81.2-123	"	"	"	"	
Surrogate: Dibromofluoromethane		107 %		95.7-135	"	"	"	"	

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Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
 04/20/16 17:29

B-12-15.0
T160598-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Carbazole	ND	300	ug/kg	1	6032837	03/28/16	03/29/16	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	

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Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
 04/20/16 17:29

B-12-15.0
T160598-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chrysene	ND	300	ug/kg	1	6032837	03/28/16	03/29/16	EPA 8270C	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	

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B-12-15.0
T160598-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

2,3,5,6-Tetrachlorophenol	ND	300	ug/kg	1	6032837	03/28/16	03/29/16	EPA 8270C	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		51.2 %	15-121		"	"	"	"	
Surrogate: Phenol-d6		54.6 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		55.7 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		64.9 %	32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		95.9 %	18.1-105		"	"	"	"	
Surrogate: Terphenyl-d14		88.6 %	29.1-130		"	"	"	"	

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B-5-5.0
T160598-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C4-C12 (GRO)	ND	370	ug/kg	1	6032833	03/28/16	03/29/16	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		61.0 %	65-135		"	"	"	"	S-03

Extractable Petroleum Hydrocarbons by 8015C

C23-C32 (MORO)	ND	10	mg/kg	1	6032828	03/28/16	03/29/16	EPA 8015C	
C13-C22 (DRO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		91.1 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	6032820	03/28/16	03/28/16	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	97	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	10	2.0	"	"	"	"	"	"	
Cobalt	7.2	2.0	"	"	"	"	"	"	
Copper	6.5	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	8.4	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	24	5.0	"	"	"	"	"	"	
Zinc	11	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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B-5-5.0
T160598-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	6032822	03/28/16	03/28/16	EPA 7471A Soil	
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B-5-10.0
T160598-15 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C4-C12 (GRO)	ND	500	ug/kg	1	6032833	03/28/16	03/29/16	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		34.9 %	65-135		"	"	"	"	S-03

Extractable Petroleum Hydrocarbons by 8015C

C23-C32 (MORO)	ND	10	mg/kg	1	6032828	03/28/16	03/29/16	EPA 8015C	
C13-C22 (DRO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		95.2 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	6032820	03/28/16	03/28/16	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	68	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	16	2.0	"	"	"	"	"	"	
Cobalt	9.3	2.0	"	"	"	"	"	"	
Copper	15	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	11	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	37	5.0	"	"	"	"	"	"	
Zinc	18	1.0	"	"	"	"	"	"	

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B-5-10.0
T160598-15 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	6032822	03/28/16	03/28/16	EPA 7471A Soil	
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B-5-15.0
T160598-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C4-C12 (GRO)	ND	410	ug/kg	1	6032941	03/29/16	03/30/16	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		70.1 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015C

C13-C22 (DRO)	ND	10	mg/kg	1	6032847	03/28/16	03/30/16	EPA 8015C	
C23-C32 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		96.0 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	6032846	03/28/16	03/29/16	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	6.1	5.0	"	"	"	"	"	"	
Barium	94	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	20	2.0	"	"	"	"	"	"	
Cobalt	8.9	2.0	"	"	"	"	"	"	
Copper	22	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	13	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	37	5.0	"	"	"	"	"	"	
Zinc	22	1.0	"	"	"	"	"	"	

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B-5-15.0
T160598-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	6032845	03/28/16	03/29/16	EPA 7471A Soil	
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B-11-1.0
T160598-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6032829	03/28/16	04/01/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		62.4 %		35-140	"	"	"	"	
Surrogate: Decachlorobiphenyl		99.3 %		35-140	"	"	"	"	

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B-11-5.0
T160598-18 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C4-C12 (GRO)	ND	450	ug/kg	1	6032833	03/28/16	03/29/16	EPA 8015C	
<i>Surrogate: 4-Bromofluorobenzene</i>		41.3 %	65-135		"	"	"	"	S-03

Extractable Petroleum Hydrocarbons by 8015C

C13-C22 (DRO)	ND	10	mg/kg	1	6032828	03/28/16	03/29/16	EPA 8015C	
C23-C32 (MORO)	ND	10	"	"	"	"	"	"	
<i>Surrogate: p-Terphenyl</i>		94.4 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	6032820	03/28/16	03/28/16	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	45	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	8.2	2.0	"	"	"	"	"	"	
Cobalt	5.4	2.0	"	"	"	"	"	"	
Copper	4.8	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	6.5	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	17	5.0	"	"	"	"	"	"	
Zinc	9.0	1.0	"	"	"	"	"	"	

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B-11-5.0
T160598-18 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	6032822	03/28/16	03/28/16	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6032829	03/28/16	04/01/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene	54.1 %	35-140	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl	58.2 %	35-140	"	"	"	"	"	"	

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B-11-5.0
T160598-18 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	6032827	03/28/16	03/29/16	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		131 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		137 %	35-140		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	6.1	ug/kg	1	6032832	03/28/16	03/28/16	EPA 8260B/5035	
Bromochloromethane	ND	6.1	"	"	"	"	"	"	
Bromodichloromethane	ND	6.1	"	"	"	"	"	"	
Bromoform	ND	6.1	"	"	"	"	"	"	
Bromomethane	ND	6.1	"	"	"	"	"	"	
n-Butylbenzene	ND	6.1	"	"	"	"	"	"	
sec-Butylbenzene	ND	6.1	"	"	"	"	"	"	
tert-Butylbenzene	ND	6.1	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.1	"	"	"	"	"	"	
Chlorobenzene	ND	6.1	"	"	"	"	"	"	
Chloroethane	ND	6.1	"	"	"	"	"	"	
Chloroform	ND	6.1	"	"	"	"	"	"	
Chloromethane	ND	6.1	"	"	"	"	"	"	
2-Chlorotoluene	ND	6.1	"	"	"	"	"	"	
4-Chlorotoluene	ND	6.1	"	"	"	"	"	"	
Dibromochloromethane	ND	6.1	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	12	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	6.1	"	"	"	"	"	"	
Dibromomethane	ND	6.1	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	6.1	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	6.1	"	"	"	"	"	"	

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Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
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B-11-5.0
T160598-18 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,4-Dichlorobenzene	ND	6.1	ug/kg	1	6032832	03/28/16	03/28/16	EPA 8260B/5035	
Dichlorodifluoromethane	ND	6.1	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	6.1	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	6.1	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	6.1	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	6.1	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	6.1	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	6.1	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	6.1	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	6.1	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	6.1	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	6.1	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	6.1	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	6.1	"	"	"	"	"	"	"
Isopropylbenzene	ND	6.1	"	"	"	"	"	"	"
p-Isopropyltoluene	ND	6.1	"	"	"	"	"	"	"
Methylene chloride	ND	6.1	"	"	"	"	"	"	"
Naphthalene	ND	6.1	"	"	"	"	"	"	"
n-Propylbenzene	ND	6.1	"	"	"	"	"	"	"
Styrene	ND	6.1	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	6.1	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	6.1	"	"	"	"	"	"	"
Tetrachloroethene	ND	6.1	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	6.1	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	6.1	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	6.1	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	6.1	"	"	"	"	"	"	"
Trichloroethene	ND	6.1	"	"	"	"	"	"	"
Trichlorofluoromethane	ND	6.1	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	6.1	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	6.1	"	"	"	"	"	"	"

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B-11-5.0
T160598-18 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2,4-Trimethylbenzene	ND	6.1	ug/kg	1	6032832	03/28/16	03/28/16	EPA 8260B/5035	
Vinyl chloride	ND	6.1	"	"	"	"	"	"	
Benzene	ND	6.1	"	"	"	"	"	"	
Toluene	ND	6.1	"	"	"	"	"	"	
Ethylbenzene	ND	6.1	"	"	"	"	"	"	
m,p-Xylene	ND	12	"	"	"	"	"	"	
o-Xylene	ND	6.1	"	"	"	"	"	"	
Surrogate: Toluene-d8		99.9 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.1 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		109 %	95.7-135		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	300	ug/kg	1	6032837	03/28/16	03/29/16	EPA 8270C	
Aniline	ND	300	"	"	"	"	"	"	
Phenol	ND	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	

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 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
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B-11-5.0
T160598-18 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzo (g,h,i) perylene	ND	1000	ug/kg	1	6032837	03/28/16	03/29/16	EPA 8270C	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	

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Project: Center Cal
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 Project Manager: Derrick Willis

Reported:
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B-11-5.0
T160598-18 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Indeno (1,2,3-cd) pyrene	ND	300	ug/kg	1	6032837	03/28/16	03/29/16	EPA 8270C	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		31.2 %	15-121		"	"	"	"	
Surrogate: Phenol-d6		37.3 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		37.4 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		46.3 %	32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		78.3 %	18.1-105		"	"	"	"	
Surrogate: Terphenyl-d14		79.1 %	29.1-130		"	"	"	"	

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B-11-10.0
T160598-19 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C4-C12 (GRO)	ND	420	ug/kg	1	6032833	03/28/16	03/29/16	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		36.5 %	65-135		"	"	"	"	S-03

Extractable Petroleum Hydrocarbons by 8015C

C23-C32 (MORO)	ND	10	mg/kg	1	6032828	03/28/16	03/29/16	EPA 8015C	
C13-C22 (DRO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		89.9 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	6032820	03/28/16	03/28/16	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	8.1	5.0	"	"	"	"	"	"	
Barium	43	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	18	2.0	"	"	"	"	"	"	
Cobalt	9.2	2.0	"	"	"	"	"	"	
Copper	16	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	5.8	5.0	"	"	"	"	"	"	
Nickel	13	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	32	5.0	"	"	"	"	"	"	
Zinc	20	1.0	"	"	"	"	"	"	

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B-11-10.0
T160598-19 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	6032822	03/28/16	03/28/16	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6032829	03/28/16	04/01/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene	73.5 %	35-140	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl	73.8 %	35-140	"	"	"	"	"	"	

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B-11-10.0
T160598-19 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	6032827	03/28/16	03/29/16	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		134 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		123 %	35-140		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	5.0	ug/kg	1	6032832	03/28/16	03/28/16	EPA 8260B/5035	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	

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Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
 04/20/16 17:29

B-11-10.0
T160598-19 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,4-Dichlorobenzene	ND	5.0	ug/kg	1	6032832	03/28/16	03/28/16	EPA 8260B/5035	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	"
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	"
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	"
Methylene chloride	ND	5.0	"	"	"	"	"	"	"
Naphthalene	ND	5.0	"	"	"	"	"	"	"
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	"
Styrene	ND	5.0	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	"
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	"
Trichloroethene	ND	5.0	"	"	"	"	"	"	"
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	"

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Daniel Chavez, Project Manager



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B-11-10.0
T160598-19 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2,4-Trimethylbenzene	ND	5.0	ug/kg	1	6032832	03/28/16	03/28/16	EPA 8260B/5035	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Surrogate: Toluene-d8		97.4 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.9 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		99.9 %	95.7-135		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	300	ug/kg	1	6032837	03/28/16	03/29/16	EPA 8270C	
Aniline	ND	300	"	"	"	"	"	"	
Phenol	ND	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	

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Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
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B-11-10.0
T160598-19 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzo (g,h,i) perylene	ND	1000	ug/kg	1	6032837	03/28/16	03/29/16	EPA 8270C	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	

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Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
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B-11-10.0
T160598-19 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Indeno (1,2,3-cd) pyrene	ND	300	ug/kg	1	6032837	03/28/16	03/29/16	EPA 8270C	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		52.0 %	15-121		"	"	"	"	
Surrogate: Phenol-d6		54.0 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		51.4 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		60.4 %	32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		88.2 %	18.1-105		"	"	"	"	
Surrogate: Terphenyl-d14		98.5 %	29.1-130		"	"	"	"	

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B-11-15.0
T160598-20 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C4-C12 (GRO)	ND	380	ug/kg	1	6032833	03/28/16	03/29/16	EPA 8015C	
<i>Surrogate: 4-Bromofluorobenzene</i>		66.4 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015C

C13-C22 (DRO)	ND	10	mg/kg	1	6032828	03/28/16	03/29/16	EPA 8015C	
C23-C32 (MORO)	24	10	"	"	"	"	"	"	
<i>Surrogate: p-Terphenyl</i>		91.5 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	6032820	03/28/16	03/28/16	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	22	5.0	"	"	"	"	"	"	
Barium	100	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	19	2.0	"	"	"	"	"	"	
Cobalt	11	2.0	"	"	"	"	"	"	
Copper	12	1.0	"	"	"	"	"	"	
Lead	17	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	15	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	33	5.0	"	"	"	"	"	"	
Zinc	20	1.0	"	"	"	"	"	"	

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B-11-15.0
T160598-20 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	6032822	03/28/16	03/28/16	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6032829	03/28/16	04/01/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene	57.3 %	35-140	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl	37.9 %	35-140	"	"	"	"	"	"	

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Northgate Environmental Management -- Laguna Hills 24411 Ridge Route Drive, Suite 130 Laguna Hills CA, 92653	Project: Center Cal Project Number: 2047.06 Project Manager: Derrick Willis	Reported: 04/20/16 17:29
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B-11-15.0
T160598-20 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	6032827	03/28/16	03/29/16	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		128 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		128 %	35-140		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	5.0	ug/kg	1	6032832	03/28/16	03/28/16	EPA 8260B/5035	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	

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Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
 04/20/16 17:29

B-11-15.0
T160598-20 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,4-Dichlorobenzene	ND	5.0	ug/kg	1	6032832	03/28/16	03/28/16	EPA 8260B/5035	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	

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Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
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B-11-15.0
T160598-20 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2,4-Trimethylbenzene	ND	5.0	ug/kg	1	6032832	03/28/16	03/28/16	EPA 8260B/5035	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Surrogate: Toluene-d8		96.5 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.8 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		111 %	95.7-135		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	300	ug/kg	1	6032837	03/28/16	03/29/16	EPA 8270C	
Aniline	ND	300	"	"	"	"	"	"	
Phenol	ND	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	

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Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
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B-11-15.0
T160598-20 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzo (g,h,i) perylene	ND	1000	ug/kg	1	6032837	03/28/16	03/29/16	EPA 8270C	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	

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B-11-15.0
T160598-20 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Indeno (1,2,3-cd) pyrene	ND	300	ug/kg	1	6032837	03/28/16	03/29/16	EPA 8270C	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		43.1 %	15-121		"	"	"	"	
Surrogate: Phenol-d6		41.5 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		49.3 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		54.5 %	32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		75.7 %	18.1-105		"	"	"	"	
Surrogate: Terphenyl-d14		61.0 %	29.1-130		"	"	"	"	

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B-10-1.0
T160598-21 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6032829	03/28/16	04/01/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		70.8 %		35-140	"	"	"	"	
Surrogate: Decachlorobiphenyl		57.6 %		35-140	"	"	"	"	

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B-10-5.0
T160598-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C4-C12 (GRO)	ND	500	ug/kg	1	6032833	03/28/16	03/29/16	EPA 8015C	
<i>Surrogate: 4-Bromofluorobenzene</i>		49.7 %	65-135		"	"	"	"	S-03

Extractable Petroleum Hydrocarbons by 8015C

C13-C22 (DRO)	ND	10	mg/kg	1	6032828	03/28/16	03/29/16	EPA 8015C	
C23-C32 (MORO)	ND	10	"	"	"	"	"	"	
<i>Surrogate: p-Terphenyl</i>		92.9 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	6032820	03/28/16	03/28/16	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	26	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	5.8	2.0	"	"	"	"	"	"	
Cobalt	3.7	2.0	"	"	"	"	"	"	
Copper	3.3	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	4.1	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	10	5.0	"	"	"	"	"	"	
Zinc	6.3	1.0	"	"	"	"	"	"	

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B-10-5.0
T160598-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	6032822	03/28/16	03/28/16	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6032829	03/28/16	04/01/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene	75.6 %	35-140	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl	61.1 %	35-140	"	"	"	"	"	"	

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Daniel Chavez, Project Manager



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Northgate Environmental Management -- Laguna Hills 24411 Ridge Route Drive, Suite 130 Laguna Hills CA, 92653	Project: Center Cal Project Number: 2047.06 Project Manager: Derrick Willis	Reported: 04/20/16 17:29
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B-10-5.0
T160598-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	6032827	03/28/16	03/29/16	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		128 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		132 %	35-140		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	5.6	ug/kg	1	6032832	03/28/16	03/28/16	EPA 8260B/5035	
Bromochloromethane	ND	5.6	"	"	"	"	"	"	
Bromodichloromethane	ND	5.6	"	"	"	"	"	"	
Bromoform	ND	5.6	"	"	"	"	"	"	
Bromomethane	ND	5.6	"	"	"	"	"	"	
n-Butylbenzene	ND	5.6	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.6	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.6	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.6	"	"	"	"	"	"	
Chlorobenzene	ND	5.6	"	"	"	"	"	"	
Chloroethane	ND	5.6	"	"	"	"	"	"	
Chloroform	ND	5.6	"	"	"	"	"	"	
Chloromethane	ND	5.6	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.6	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.6	"	"	"	"	"	"	
Dibromochloromethane	ND	5.6	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	11	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.6	"	"	"	"	"	"	
Dibromomethane	ND	5.6	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.6	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.6	"	"	"	"	"	"	

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Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
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B-10-5.0
T160598-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,4-Dichlorobenzene	ND	5.6	ug/kg	1	6032832	03/28/16	03/28/16	EPA 8260B/5035	
Dichlorodifluoromethane	ND	5.6	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.6	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.6	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.6	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.6	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.6	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.6	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.6	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.6	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.6	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.6	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.6	"	"	"	"	"	"	
Isopropylbenzene	ND	5.6	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.6	"	"	"	"	"	"	
Methylene chloride	ND	5.6	"	"	"	"	"	"	
Naphthalene	ND	5.6	"	"	"	"	"	"	
n-Propylbenzene	ND	5.6	"	"	"	"	"	"	
Styrene	ND	5.6	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.6	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.6	"	"	"	"	"	"	
Tetrachloroethene	ND	5.6	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.6	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.6	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.6	"	"	"	"	"	"	
Trichloroethene	ND	5.6	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.6	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.6	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.6	"	"	"	"	"	"	

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B-10-5.0
T160598-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2,4-Trimethylbenzene	ND	5.6	ug/kg	1	6032832	03/28/16	03/28/16	EPA 8260B/5035	
Vinyl chloride	ND	5.6	"	"	"	"	"	"	
Benzene	ND	5.6	"	"	"	"	"	"	
Toluene	ND	5.6	"	"	"	"	"	"	
Ethylbenzene	ND	5.6	"	"	"	"	"	"	
m,p-Xylene	ND	11	"	"	"	"	"	"	
o-Xylene	ND	5.6	"	"	"	"	"	"	
Surrogate: Toluene-d8		96.5 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.6 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		116 %	95.7-135		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	300	ug/kg	1	6032837	03/28/16	03/29/16	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	

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Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
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B-10-5.0
T160598-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzo (g,h,i) perylene	ND	1000	ug/kg	1	6032837	03/28/16	03/29/16	EPA 8270C	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	

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Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
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B-10-5.0
T160598-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Indeno (1,2,3-cd) pyrene	ND	300	ug/kg	1	6032837	03/28/16	03/29/16	EPA 8270C	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		50.8 %	15-121		"	"	"	"	
Surrogate: Phenol-d6		56.0 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		50.8 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		64.2 %	32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		89.6 %	18.1-105		"	"	"	"	
Surrogate: Terphenyl-d14		79.2 %	29.1-130		"	"	"	"	

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B-10-10.0
T160598-23 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C4-C12 (GRO)	190000	390	ug/kg	1	6032833	03/28/16	03/29/16	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		106 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015C

C23-C32 (MORO)	39	10	mg/kg	1	6032828	03/28/16	03/29/16	EPA 8015C	
C13-C22 (DRO)	91	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		90.2 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	6032820	03/28/16	03/28/16	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	9.5	5.0	"	"	"	"	"	"	
Barium	88	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	16	2.0	"	"	"	"	"	"	
Cobalt	9.9	2.0	"	"	"	"	"	"	
Copper	19	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	6.3	5.0	"	"	"	"	"	"	
Nickel	13	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	40	5.0	"	"	"	"	"	"	
Zinc	18	1.0	"	"	"	"	"	"	

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B-10-10.0
T160598-23 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	6032822	03/28/16	03/28/16	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6032829	03/28/16	04/01/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene	50.2 %	35-140	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl	46.8 %	35-140	"	"	"	"	"	"	

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B-10-10.0
T160598-23 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	6032827	03/28/16	03/29/16	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		102 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		126 %	35-140		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	5.0	ug/kg	1	6032832	03/28/16	03/28/16	EPA 8260B/5035	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	5.0	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	

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Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
 04/20/16 17:29

B-10-10.0
T160598-23 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,4-Dichlorobenzene	ND	5.0	ug/kg	1	6032832	03/28/16	03/28/16	EPA 8260B/5035	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	"
Isopropylbenzene	21	5.0	"	"	"	"	"	"	"
p-Isopropyltoluene	6.8	5.0	"	"	"	"	"	"	"
Methylene chloride	ND	5.0	"	"	"	"	"	"	"
Naphthalene	ND	5.0	"	"	"	"	"	"	"
n-Propylbenzene	18	5.0	"	"	"	"	"	"	"
Styrene	ND	5.0	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	"
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	"
Trichloroethene	ND	5.0	"	"	"	"	"	"	"
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	12	5.0	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	27	5.0	"	"	"	"	"	"	"

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B-10-10.0
T160598-23 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride	ND	5.0	ug/kg	1	6032832	03/28/16	03/28/16	EPA 8260B/5035	
Benzene	21	5.0	"	"	"	"	"	"	"
Toluene	ND	5.0	"	"	"	"	"	"	"
Ethylbenzene	75	5.0	"	"	"	"	"	"	"
m,p-Xylene	ND	10	"	"	"	"	"	"	"
o-Xylene	ND	5.0	"	"	"	"	"	"	"
Surrogate: Toluene-d8		98.4 %		85.5-116	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		84.8 %		81.2-123	"	"	"	"	"
Surrogate: Dibromofluoromethane		99.8 %		95.7-135	"	"	"	"	"

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	300	ug/kg	1	6032837	03/28/16	03/29/16	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	"
Aniline	ND	300	"	"	"	"	"	"	"
2-Chlorophenol	ND	1000	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	"
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	"
Acenaphthene	ND	300	"	"	"	"	"	"	"
4-Nitrophenol	ND	1000	"	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	"
Pentachlorophenol	ND	1000	"	"	"	"	"	"	"
Pyrene	ND	300	"	"	"	"	"	"	"
Acenaphthylene	ND	300	"	"	"	"	"	"	"
Anthracene	ND	300	"	"	"	"	"	"	"
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	"

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B-10-10.0
T160598-23 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzo (a) pyrene	ND	300	ug/kg	1	6032837	03/28/16	03/29/16	EPA 8270C	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	

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 Project Manager: Derrick Willis

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B-10-10.0
T160598-23 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Semivolatile Organic Compounds by EPA Method 8270C

Isophorone	ND	300	ug/kg	1	6032837	03/28/16	03/29/16	EPA 8270C	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		54.1 %	15-121		"	"	"	"	
Surrogate: Phenol-d6		47.8 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		52.8 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		72.1 %	32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		94.0 %	18.1-105		"	"	"	"	
Surrogate: Terphenyl-d14		93.9 %	29.1-130		"	"	"	"	

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B-10-15.0
T160598-24 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C4-C12 (GRO)	ND	340	ug/kg	1	6032833	03/28/16	03/29/16	EPA 8015C	
<i>Surrogate: 4-Bromofluorobenzene</i>		185 %	65-135		"	"	"	"	S-04

Extractable Petroleum Hydrocarbons by 8015C

C23-C32 (MORO)	ND	10	mg/kg	1	6032828	03/28/16	03/29/16	EPA 8015C	
C13-C22 (DRO)	ND	10	"	"	"	"	"	"	
<i>Surrogate: p-Terphenyl</i>		95.7 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	6032820	03/28/16	03/28/16	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	96	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	12	2.0	"	"	"	"	"	"	
Cobalt	7.2	2.0	"	"	"	"	"	"	
Copper	9.2	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	8.9	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	21	5.0	"	"	"	"	"	"	
Zinc	13	1.0	"	"	"	"	"	"	

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B-10-15.0
T160598-24 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	6032822	03/28/16	03/28/16	EPA 7471A Soil	
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6032829	03/28/16	04/01/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene	83.9 %	35-140	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl	70.9 %	35-140	"	"	"	"	"	"	

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B-10-15.0
T160598-24 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	6032827	03/28/16	03/29/16	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		123 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		116 %	35-140		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	5.0	ug/kg	1	6032832	03/28/16	03/28/16	EPA 8260B/5035	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	

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Northgate Environmental Management -- Laguna Hills 24411 Ridge Route Drive, Suite 130 Laguna Hills CA, 92653	Project: Center Cal Project Number: 2047.06 Project Manager: Derrick Willis	Reported: 04/20/16 17:29
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B-10-15.0
T160598-24 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,4-Dichlorobenzene	ND	5.0	ug/kg	1	6032832	03/28/16	03/28/16	EPA 8260B/5035	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	

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B-10-15.0
T160598-24 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2,4-Trimethylbenzene	ND	5.0	ug/kg	1	6032832	03/28/16	03/28/16	EPA 8260B/5035	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Surrogate: Toluene-d8		97.5 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		104 %	95.7-135		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	300	ug/kg	1	6032837	03/28/16	03/30/16	EPA 8270C	
Aniline	ND	300	"	"	"	"	"	"	
Phenol	ND	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	
Anthracene	ND	300	"	"	"	"	"	"	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	

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Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
 04/20/16 17:29

B-10-15.0
T160598-24 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzo (g,h,i) perylene	ND	1000	ug/kg	1	6032837	03/28/16	03/30/16	EPA 8270C	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	
Hexachlorobenzene	ND	1500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	

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Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
 04/20/16 17:29

B-10-15.0
T160598-24 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Indeno (1,2,3-cd) pyrene	ND	300	ug/kg	1	6032837	03/28/16	03/30/16	EPA 8270C	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		60.9 %	15-121		"	"	"	"	
Surrogate: Phenol-d6		40.5 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		65.8 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		78.6 %	32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		92.4 %	18.1-105		"	"	"	"	
Surrogate: Terphenyl-d14		104 %	29.1-130		"	"	"	"	

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B-16-1.0
T160598-30 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6032829	03/28/16	04/01/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		76.7 %		35-140	"	"	"	"	
Surrogate: Decachlorobiphenyl		44.5 %		35-140	"	"	"	"	

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B-7-5.0
T160598-32 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C4-C12 (GRO)	ND	390	ug/kg	1	6032833	03/28/16	03/29/16	EPA 8015C	
<i>Surrogate: 4-Bromofluorobenzene</i>		35.6 %	65-135		"	"	"	"	S-03

Extractable Petroleum Hydrocarbons by 8015C

C23-C32 (MORO)	ND	10	mg/kg	1	6032828	03/28/16	03/29/16	EPA 8015C	
C13-C22 (DRO)	ND	10	"	"	"	"	"	"	
<i>Surrogate: p-Terphenyl</i>		91.4 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	6032820	03/28/16	03/28/16	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	66	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	12	2.0	"	"	"	"	"	"	
Cobalt	7.3	2.0	"	"	"	"	"	"	
Copper	9.0	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	10	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	22	5.0	"	"	"	"	"	"	
Zinc	14	1.0	"	"	"	"	"	"	

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B-7-5.0
T160598-32 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	6032822	03/28/16	03/28/16	EPA 7471A Soil	
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B-7-10.0
T160598-33 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C4-C12 (GRO)	ND	420	ug/kg	1	6032833	03/28/16	03/29/16	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		26.5 %	65-135		"	"	"	"	S-03

Extractable Petroleum Hydrocarbons by 8015C

C13-C22 (DRO)	ND	10	mg/kg	1	6032828	03/28/16	03/29/16	EPA 8015C	
C23-C32 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		99.0 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	6032820	03/28/16	03/28/16	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	5.5	5.0	"	"	"	"	"	"	
Barium	150	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	23	2.0	"	"	"	"	"	"	
Cobalt	13	2.0	"	"	"	"	"	"	
Copper	26	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	19	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	45	5.0	"	"	"	"	"	"	
Zinc	25	1.0	"	"	"	"	"	"	

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B-7-10.0
T160598-33 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	6032822	03/28/16	03/28/16	EPA 7471A Soil	
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Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032833 - EPA 5035 GC

Blank (6032833-BLK1)										
Prepared: 03/28/16 Analyzed: 03/29/16										
C4-C12 (GRO)	ND	400	ug/kg							
Surrogate: 4-Bromofluorobenzene	74.0		"	100		74.0	65-135			
LCS (6032833-BS1)										
Prepared: 03/28/16 Analyzed: 03/29/16										
C6-C12 (GRO)	8570	400	ug/kg	11000		78.2	75-125			
Surrogate: 4-Bromofluorobenzene	91.0		"	100		91.0	65-135			
LCS Dup (6032833-BSD1)										
Prepared: 03/28/16 Analyzed: 03/29/16										
C6-C12 (GRO)	5210	400	ug/kg	11000		47.5	75-125	48.7	20	QR-04
Surrogate: 4-Bromofluorobenzene	55.9		"	100		55.9	65-135			QR-04

Batch 6032941 - EPA 5030 GC

Blank (6032941-BLK1)										
Prepared: 03/29/16 Analyzed: 03/30/16										
C4-C12 (GRO)	ND	400	ug/kg							
Surrogate: 4-Bromofluorobenzene	67.5		"	100		67.5	65-135			
LCS (6032941-BS1)										
Prepared: 03/29/16 Analyzed: 03/30/16										
C6-C12 (GRO)	10800	400	ug/kg	11000		98.5	75-125			
Surrogate: 4-Bromofluorobenzene	87.6		"	100		87.6	65-135			
LCS Dup (6032941-BSD1)										
Prepared: 03/29/16 Analyzed: 03/30/16										
C6-C12 (GRO)	11100	400	ug/kg	11000		101	75-125	2.20	20	
Surrogate: 4-Bromofluorobenzene	86.2		"	100		86.2	65-135			

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Extractable Petroleum Hydrocarbons by 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032828 - EPA 3550B GC

Blank (6032828-BLK1)		Prepared: 03/28/16 Analyzed: 03/29/16								
C23-C32 (MORO)	ND	10	mg/kg							
C13-C22 (DRO)	ND	10	"							
Surrogate: <i>p</i> -Terphenyl	92.6		"	93.4		99.2	65-135			
LCS (6032828-BS1)		Prepared: 03/28/16 Analyzed: 03/29/16								
C13-C28 (DRO)	460	10	mg/kg	473		97.0	75-125			
Surrogate: <i>p</i> -Terphenyl	91.1		"	94.6		96.3	65-135			
Matrix Spike (6032828-MS1)		Source: T160598-06		Prepared: 03/28/16 Analyzed: 03/29/16						
C13-C28 (DRO)	540	10	mg/kg	463	20	113	75-125			
Surrogate: <i>p</i> -Terphenyl	92.9		"	92.7		100	65-135			
Matrix Spike Dup (6032828-MSD1)		Source: T160598-06		Prepared: 03/28/16 Analyzed: 03/29/16						
C13-C28 (DRO)	530	10	mg/kg	468	20	109	75-125	2.29	20	
Surrogate: <i>p</i> -Terphenyl	92.6		"	93.5		99.0	65-135			

Batch 6032847 - EPA 3550B GC

Blank (6032847-BLK1)		Prepared: 03/28/16 Analyzed: 03/30/16								
C13-C22 (DRO)	ND	10	mg/kg							
C23-C32 (MORO)	ND	10	"							
Surrogate: <i>p</i> -Terphenyl	94.2		"	93.2		101	65-135			
LCS (6032847-BS1)		Prepared: 03/28/16 Analyzed: 03/30/16								
C13-C28 (DRO)	490	10	mg/kg	488		101	75-125			
Surrogate: <i>p</i> -Terphenyl	101		"	97.7		103	65-135			

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Extractable Petroleum Hydrocarbons by 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032847 - EPA 3550B GC

Matrix Spike (6032847-MS1)		Source: T160598-02		Prepared: 03/28/16 Analyzed: 03/30/16						
C13-C28 (DRO)	510	10	mg/kg	475	ND	107	75-125			
Surrogate: <i>p</i> -Terphenyl	94.9		"	95.0		100	65-135			
Matrix Spike Dup (6032847-MSD1)		Source: T160598-02		Prepared: 03/28/16 Analyzed: 03/30/16						
C13-C28 (DRO)	470	10	mg/kg	477	ND	98.9	75-125	7.64	20	
Surrogate: <i>p</i> -Terphenyl	95.1		"	95.4		99.6	65-135			

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Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032820 - EPA 3051

Blank (6032820-BLK1)

Prepared & Analyzed: 03/28/16

Antimony	ND	3.0	mg/kg							
Silver	ND	2.0	"							
Arsenic	ND	5.0	"							
Barium	ND	1.0	"							
Beryllium	ND	1.0	"							
Cadmium	ND	2.0	"							
Chromium	ND	2.0	"							
Cobalt	ND	2.0	"							
Copper	ND	1.0	"							
Lead	ND	3.0	"							
Molybdenum	ND	5.0	"							
Nickel	ND	2.0	"							
Selenium	ND	5.0	"							
Thallium	ND	2.0	"							
Vanadium	ND	5.0	"							
Zinc	ND	1.0	"							

LCS (6032820-BS1)

Prepared & Analyzed: 03/28/16

Arsenic	81.0	5.0	mg/kg	100		81.0	75-125
Barium	83.0	1.0	"	100		83.0	75-125
Cadmium	83.8	2.0	"	100		83.8	75-125
Chromium	83.3	2.0	"	100		83.3	75-125
Lead	87.8	3.0	"	100		87.8	75-125

Matrix Spike (6032820-MS1)

Source: T160598-06

Prepared & Analyzed: 03/28/16

Arsenic	89.3	5.0	mg/kg	94.3	2.28	92.3	75-125
Barium	144	1.0	"	94.3	57.3	91.7	75-125
Cadmium	88.0	2.0	"	94.3	0.512	92.7	75-125
Chromium	91.5	2.0	"	94.3	10.1	86.3	75-125
Lead	92.6	3.0	"	94.3	ND	98.2	75-125

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Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032820 - EPA 3051

Matrix Spike Dup (6032820-MSD1)	Source: T160598-06			Prepared & Analyzed: 03/28/16						
Arsenic	125	5.0	mg/kg	100	2.28	123	75-125	33.6	20	QR-04
Barium	203	1.0	"	100	57.3	146	75-125	34.4	20	QR-04
Cadmium	120	2.0	"	100	0.512	119	75-125	30.4	20	QR-04
Chromium	134	2.0	"	100	10.1	124	75-125	37.7	20	QR-04
Lead	128	3.0	"	100	ND	128	75-125	31.7	20	QR-04

Batch 6032846 - EPA 3051

Blank (6032846-BLK1)	Prepared: 03/28/16 Analyzed: 03/29/16									
Antimony	ND	3.0	mg/kg							
Silver	ND	2.0	"							
Arsenic	ND	5.0	"							
Barium	ND	1.0	"							
Beryllium	ND	1.0	"							
Cadmium	ND	2.0	"							
Chromium	ND	2.0	"							
Cobalt	ND	2.0	"							
Copper	ND	1.0	"							
Lead	ND	3.0	"							
Molybdenum	ND	5.0	"							
Nickel	ND	2.0	"							
Selenium	ND	5.0	"							
Thallium	ND	2.0	"							
Vanadium	ND	5.0	"							
Zinc	ND	1.0	"							

LCS (6032846-BS1)	Prepared: 03/28/16 Analyzed: 03/29/16									
Arsenic	98.6	5.0	mg/kg	100		98.6	75-125			
Barium	101	1.0	"	100		101	75-125			
Cadmium	101	2.0	"	100		101	75-125			
Chromium	101	2.0	"	100		101	75-125			
Lead	100	3.0	"	100		100	75-125			

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Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032846 - EPA 3051

Matrix Spike (6032846-MS1)

Source: T160602-04

Prepared: 03/28/16 Analyzed: 03/29/16

Arsenic	76.2	5.0	mg/kg	92.6	1.56	80.6	75-125			
Barium	106	1.0	"	92.6	27.7	84.8	75-125			
Cadmium	78.6	2.0	"	92.6	ND	84.9	75-125			
Chromium	84.3	2.0	"	92.6	7.50	83.0	75-125			
Lead	78.9	3.0	"	92.6	2.70	82.3	75-125			

Matrix Spike Dup (6032846-MSD1)

Source: T160602-04

Prepared: 03/28/16 Analyzed: 03/29/16

Arsenic	85.5	5.0	mg/kg	99.0	1.56	84.8	75-125	11.5	20	
Barium	113	1.0	"	99.0	27.7	86.6	75-125	6.61	20	
Cadmium	85.5	2.0	"	99.0	ND	86.4	75-125	8.41	20	
Chromium	90.9	2.0	"	99.0	7.50	84.3	75-125	7.55	20	
Lead	86.8	3.0	"	99.0	2.70	85.0	75-125	9.52	20	

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Cold Vapor Extraction EPA 7470/7471 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032822 - EPA 7471A Soil

Blank (6032822-BLK1)				Prepared & Analyzed: 03/28/16						
Mercury	ND	0.10	mg/kg							
LCS (6032822-BS1)				Prepared & Analyzed: 03/28/16						
Mercury	0.488	0.10	mg/kg	0.417		117	75-125			
Matrix Spike (6032822-MS1)				Source: T160598-06		Prepared & Analyzed: 03/28/16				
Mercury	0.434	0.10	mg/kg	0.391	ND	111	75-125			
Matrix Spike Dup (6032822-MSD1)				Source: T160598-06		Prepared & Analyzed: 03/28/16				
Mercury	0.431	0.10	mg/kg	0.391	ND	110	75-125	0.594	20	

Batch 6032845 - EPA 7471A Soil

Blank (6032845-BLK1)				Prepared: 03/28/16 Analyzed: 03/29/16						
Mercury	ND	0.10	mg/kg							
LCS (6032845-BS1)				Prepared: 03/28/16 Analyzed: 03/29/16						
Mercury	0.433	0.10	mg/kg	0.397		109	75-125			
Matrix Spike (6032845-MS1)				Source: T160598-02		Prepared: 03/28/16 Analyzed: 03/29/16				
Mercury	0.427	0.10	mg/kg	0.397	ND	108	75-125			
Matrix Spike Dup (6032845-MSD1)				Source: T160598-02		Prepared: 03/28/16 Analyzed: 03/29/16				
Mercury	0.446	0.10	mg/kg	0.410	ND	109	75-125	4.38	20	

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Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
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Organochlorine Pesticides by EPA Method 8081A - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032829 - EPA 3550 ECD/GCMS

Blank (6032829-BLK1)

Prepared: 03/28/16 Analyzed: 04/01/16

alpha-BHC	ND	5.0	ug/kg							
gamma-BHC (Lindane)	ND	5.0	"							
beta-BHC	ND	5.0	"							
delta-BHC	ND	5.0	"							
Heptachlor	ND	5.0	"							
Aldrin	ND	5.0	"							
Heptachlor epoxide	ND	5.0	"							
gamma-Chlordane	ND	5.0	"							
alpha-Chlordane	ND	5.0	"							
Endosulfan I	ND	5.0	"							
4,4'-DDE	ND	5.0	"							
Dieldrin	ND	5.0	"							
Endrin	ND	5.0	"							
4,4'-DDD	ND	5.0	"							
Endosulfan II	ND	5.0	"							
4,4'-DDT	ND	5.0	"							
Endrin aldehyde	ND	5.0	"							
Endosulfan sulfate	ND	5.0	"							
Methoxychlor	ND	10	"							
Endrin ketone	ND	5.0	"							
Toxaphene	ND	200	"							
Surrogate: Tetrachloro-meta-xylene	6.80		"	10.0		68.0	35-140			
Surrogate: Decachlorobiphenyl	6.70		"	10.0		67.0	35-140			

LCS (6032829-BS1)

Prepared: 03/28/16 Analyzed: 04/01/16

gamma-BHC (Lindane)	26.7	5.0	ug/kg	39.9		66.9	40-120			
Heptachlor	25.3	5.0	"	39.9		63.5	40-120			
Aldrin	24.4	5.0	"	39.9		61.3	40-120			
Dieldrin	25.5	5.0	"	39.9		63.8	40-120			
Endrin	27.2	5.0	"	39.9		68.3	40-120			
4,4'-DDT	25.4	5.0	"	39.9		63.7	33-147			
Surrogate: Tetrachloro-meta-xylene	6.56		"	9.97		65.8	35-140			
Surrogate: Decachlorobiphenyl	6.78		"	9.97		68.0	35-140			

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 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
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Organochlorine Pesticides by EPA Method 8081A - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032829 - EPA 3550 ECD/GCMS

Matrix Spike (6032829-MS1)		Source: T160598-06			Prepared: 03/28/16 Analyzed: 04/01/16					
gamma-BHC (Lindane)	23.6	5.0	ug/kg	39.6	ND	59.6	30-120			
Heptachlor	25.7	5.0	"	39.6	ND	64.8	30-120			
Aldrin	21.8	5.0	"	39.6	ND	55.2	30-120			
Dieldrin	23.5	5.0	"	39.6	ND	59.4	30-120			
Endrin	26.8	5.0	"	39.6	ND	67.7	30-120			
4,4'-DDT	27.9	5.0	"	39.6	ND	70.5	30-120			
Surrogate: Tetrachloro-meta-xylene	5.45		"	9.89		55.1	35-140			
Surrogate: Decachlorobiphenyl	5.24		"	9.89		53.0	35-140			

Matrix Spike Dup (6032829-MSD1)		Source: T160598-06			Prepared: 03/28/16 Analyzed: 04/01/16					
gamma-BHC (Lindane)	23.3	5.0	ug/kg	39.7	ND	58.6	30-120	1.66	30	
Heptachlor	37.2	5.0	"	39.7	ND	93.7	30-120	36.4	30	QM-07
Aldrin	20.9	5.0	"	39.7	ND	52.6	30-120	4.82	30	
Dieldrin	21.8	5.0	"	39.7	ND	54.8	30-120	7.98	30	
Endrin	26.6	5.0	"	39.7	ND	67.0	30-120	1.09	30	
4,4'-DDT	24.6	5.0	"	39.7	ND	62.0	30-120	12.8	30	
Surrogate: Tetrachloro-meta-xylene	5.37		"	9.92		54.1	35-140			
Surrogate: Decachlorobiphenyl	4.14		"	9.92		41.7	35-140			

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Polychlorinated Biphenyls by EPA Method 8082 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032827 - EPA 3550 ECD/GCMS

Blank (6032827-BLK1)		Prepared: 03/28/16 Analyzed: 03/29/16								
PCB-1016	ND	10	ug/kg							
PCB-1221	ND	10	"							
PCB-1232	ND	10	"							
PCB-1242	ND	10	"							
PCB-1248	ND	10	"							
PCB-1254	ND	10	"							
PCB-1260	ND	10	"							
Surrogate: Tetrachloro-meta-xylene	9.83		"	9.36		105	35-140			
Surrogate: Decachlorobiphenyl	12.2		"	9.36		131	35-140			

LCS (6032827-BS1)		Prepared: 03/28/16 Analyzed: 03/29/16								
PCB-1016	105	10	ug/kg	97.2		109	40-130			
PCB-1260	121	10	"	97.2		125	40-130			
Surrogate: Tetrachloro-meta-xylene	13.3		"	9.72		137	35-140			
Surrogate: Decachlorobiphenyl	13.0		"	9.72		134	35-140			

Matrix Spike (6032827-MS1)		Source: T160585-05		Prepared: 03/28/16 Analyzed: 03/29/16						
PCB-1016	96.2	10	ug/kg	96.2	ND	100	40-130			
PCB-1260	136	10	"	96.2	ND	142	40-130			QM-07
Surrogate: Tetrachloro-meta-xylene	10.2		"	9.62		106	35-140			
Surrogate: Decachlorobiphenyl	12.0		"	9.62		125	35-140			

Matrix Spike Dup (6032827-MSD1)		Source: T160585-05		Prepared: 03/28/16 Analyzed: 03/29/16						
PCB-1016	108	10	ug/kg	98.0	ND	110	40-130	11.6	30	
PCB-1260	181	10	"	98.0	ND	185	40-130	28.3	30	QM-07
Surrogate: Tetrachloro-meta-xylene	11.3		"	9.80		115	35-140			
Surrogate: Decachlorobiphenyl	11.7		"	9.80		119	35-140			

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Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
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Polychlorinated Biphenyls by EPA Method 8082 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032938 - EPA 3550 ECD/GCMS

Blank (6032938-BLK1)

Prepared: 03/29/16 Analyzed: 03/30/16

PCB-1016	ND	10	ug/kg							
PCB-1221	ND	10	"							
PCB-1232	ND	10	"							
PCB-1242	ND	10	"							
PCB-1248	ND	10	"							
PCB-1254	ND	10	"							
PCB-1260	ND	10	"							
Surrogate: Tetrachloro-meta-xylene	9.58		"	9.92		96.5	35-140			
Surrogate: Decachlorobiphenyl	11.4		"	9.92		115	35-140			

LCS (6032938-BS1)

Prepared: 03/29/16 Analyzed: 03/30/16

PCB-1016	99.5	10	ug/kg	99.9		99.6	40-130			
PCB-1260	119	10	"	99.9		119	40-130			
Surrogate: Tetrachloro-meta-xylene	12.9		"	9.99		130	35-140			
Surrogate: Decachlorobiphenyl	12.0		"	9.99		120	35-140			

LCS Dup (6032938-BSD1)

Prepared: 03/29/16 Analyzed: 03/30/16

PCB-1016	113	10	ug/kg	99.0		114	40-130	12.7	30	
PCB-1260	121	10	"	99.0		122	40-130	0.991	30	
Surrogate: Tetrachloro-meta-xylene	12.4		"	9.90		126	35-140			
Surrogate: Decachlorobiphenyl	13.1		"	9.90		132	35-140			

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Northgate Environmental Management -- Laguna Hills
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 Laguna Hills CA, 92653

Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
 04/20/16 17:29

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032832 - EPA 5035 GCMS

Blank (6032832-BLK1)

Prepared & Analyzed: 03/28/16

Bromobenzene	ND	5.0	ug/kg
Bromochloromethane	ND	5.0	"
Bromodichloromethane	ND	5.0	"
Bromoform	ND	5.0	"
Bromomethane	ND	5.0	"
n-Butylbenzene	ND	5.0	"
sec-Butylbenzene	ND	5.0	"
tert-Butylbenzene	ND	5.0	"
Carbon tetrachloride	ND	5.0	"
Chlorobenzene	ND	5.0	"
Chloroethane	ND	5.0	"
Chloroform	ND	5.0	"
Chloromethane	ND	5.0	"
2-Chlorotoluene	ND	5.0	"
4-Chlorotoluene	ND	5.0	"
Dibromochloromethane	ND	5.0	"
1,2-Dibromo-3-chloropropane	ND	10	"
1,2-Dibromoethane (EDB)	ND	5.0	"
Dibromomethane	ND	5.0	"
1,2-Dichlorobenzene	ND	5.0	"
1,3-Dichlorobenzene	ND	5.0	"
1,4-Dichlorobenzene	ND	5.0	"
Dichlorodifluoromethane	ND	5.0	"
1,1-Dichloroethane	ND	5.0	"
1,2-Dichloroethane	ND	5.0	"
1,1-Dichloroethene	ND	5.0	"
cis-1,2-Dichloroethene	ND	5.0	"
trans-1,2-Dichloroethene	ND	5.0	"
1,2-Dichloropropane	ND	5.0	"
1,3-Dichloropropane	ND	5.0	"
2,2-Dichloropropane	ND	5.0	"
1,1-Dichloropropene	ND	5.0	"
cis-1,3-Dichloropropene	ND	5.0	"
trans-1,3-Dichloropropene	ND	5.0	"
Hexachlorobutadiene	ND	5.0	"
Isopropylbenzene	ND	5.0	"

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Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032832 - EPA 5035 GCMS

Blank (6032832-BLK1)

Prepared & Analyzed: 03/28/16

p-Isopropyltoluene	ND	5.0	ug/kg							
Methylene chloride	ND	5.0	"							
Naphthalene	ND	5.0	"							
n-Propylbenzene	ND	5.0	"							
Styrene	ND	5.0	"							
1,1,2,2-Tetrachloroethane	ND	5.0	"							
1,1,1,2-Tetrachloroethane	ND	5.0	"							
Tetrachloroethene	ND	5.0	"							
1,2,3-Trichlorobenzene	ND	5.0	"							
1,2,4-Trichlorobenzene	ND	5.0	"							
1,1,2-Trichloroethane	ND	5.0	"							
1,1,1-Trichloroethane	ND	5.0	"							
Trichloroethene	ND	5.0	"							
Trichlorofluoromethane	ND	5.0	"							
1,2,3-Trichloropropane	ND	5.0	"							
1,3,5-Trimethylbenzene	ND	5.0	"							
1,2,4-Trimethylbenzene	ND	5.0	"							
Vinyl chloride	ND	5.0	"							
Benzene	ND	5.0	"							
Toluene	ND	5.0	"							
Ethylbenzene	ND	5.0	"							
m,p-Xylene	ND	10	"							
o-Xylene	ND	5.0	"							
Surrogate: Toluene-d8	40.8		"	40.0		102	85.5-116			
Surrogate: 4-Bromofluorobenzene	41.0		"	40.0		102	81.2-123			
Surrogate: Dibromofluoromethane	38.2		"	40.0		95.6	95.7-135			S-GC

LCS (6032832-BS1)

Prepared & Analyzed: 03/28/16

Chlorobenzene	107	5.0	ug/kg	99.6		108	75-125			
1,1-Dichloroethene	89.3	5.0	"	99.6		89.6	75-125			
Trichloroethene	88.3	5.0	"	99.6		88.7	75-125			
Benzene	100	5.0	"	99.6		100	75-125			
Toluene	94.7	5.0	"	99.6		95.1	75-125			
Surrogate: Toluene-d8	37.1		"	39.8		93.0	85.5-116			
Surrogate: 4-Bromofluorobenzene	40.1		"	39.8		101	81.2-123			
Surrogate: Dibromofluoromethane	56.2		"	39.8		141	95.7-135			S-GC

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Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032832 - EPA 5035 GCMS

LCS Dup (6032832-BSD1)

Prepared & Analyzed: 03/28/16

Chlorobenzene	103	5.0	ug/kg	100	103	75-125	4.15	20		
1,1-Dichloroethene	94.0	5.0	"	100	94.0	75-125	5.19	20		
Trichloroethene	88.0	5.0	"	100	88.0	75-125	0.336	20		
Benzene	98.2	5.0	"	100	98.2	75-125	1.72	20		
Toluene	96.6	5.0	"	100	96.6	75-125	1.91	20		
Surrogate: Toluene-d8	41.1		"	40.0	103	85.5-116				
Surrogate: 4-Bromofluorobenzene	43.2		"	40.0	108	81.2-123				
Surrogate: Dibromofluoromethane	58.9		"	40.0	147	95.7-135				S-GC

Batch 6032940 - EPA 5030 GCMS

Blank (6032940-BLK1)

Prepared & Analyzed: 03/29/16

Bromobenzene	ND	5.0	ug/kg							
Bromochloromethane	ND	5.0	"							
Bromodichloromethane	ND	5.0	"							
Bromoform	ND	5.0	"							
Bromomethane	ND	5.0	"							
n-Butylbenzene	ND	5.0	"							
sec-Butylbenzene	ND	5.0	"							
tert-Butylbenzene	ND	5.0	"							
Carbon tetrachloride	ND	5.0	"							
Chlorobenzene	ND	5.0	"							
Chloroethane	ND	5.0	"							
Chloroform	ND	5.0	"							
Chloromethane	ND	5.0	"							
2-Chlorotoluene	ND	5.0	"							
4-Chlorotoluene	ND	5.0	"							
Dibromochloromethane	ND	5.0	"							
1,2-Dibromo-3-chloropropane	ND	10	"							
1,2-Dibromoethane (EDB)	ND	5.0	"							
Dibromomethane	ND	5.0	"							
1,2-Dichlorobenzene	ND	5.0	"							
1,3-Dichlorobenzene	ND	5.0	"							
1,4-Dichlorobenzene	ND	5.0	"							
Dichlorodifluoromethane	ND	5.0	"							
1,1-Dichloroethane	ND	5.0	"							

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 Project Number: 2047.06
 Project Manager: Derrick Willis

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032940 - EPA 5030 GCMS

Blank (6032940-BLK1)

Prepared & Analyzed: 03/29/16

1,2-Dichloroethane	ND	5.0	ug/kg
1,1-Dichloroethene	ND	5.0	"
cis-1,2-Dichloroethene	ND	5.0	"
trans-1,2-Dichloroethene	ND	5.0	"
1,2-Dichloropropane	ND	5.0	"
1,3-Dichloropropane	ND	5.0	"
2,2-Dichloropropane	ND	5.0	"
1,1-Dichloropropene	ND	5.0	"
cis-1,3-Dichloropropene	ND	5.0	"
trans-1,3-Dichloropropene	ND	5.0	"
Hexachlorobutadiene	ND	5.0	"
Isopropylbenzene	ND	5.0	"
p-Isopropyltoluene	ND	5.0	"
Methylene chloride	ND	5.0	"
Naphthalene	ND	5.0	"
n-Propylbenzene	ND	5.0	"
Styrene	ND	5.0	"
1,1,2,2-Tetrachloroethane	ND	5.0	"
1,1,1,2-Tetrachloroethane	ND	5.0	"
Tetrachloroethene	ND	5.0	"
1,2,3-Trichlorobenzene	ND	5.0	"
1,2,4-Trichlorobenzene	ND	5.0	"
1,1,2-Trichloroethane	ND	5.0	"
1,1,1-Trichloroethane	ND	5.0	"
Trichloroethene	ND	5.0	"
Trichlorofluoromethane	ND	5.0	"
1,2,3-Trichloropropane	ND	5.0	"
1,3,5-Trimethylbenzene	ND	5.0	"
1,2,4-Trimethylbenzene	ND	5.0	"
Vinyl chloride	ND	5.0	"
Benzene	ND	5.0	"
Toluene	ND	5.0	"
Ethylbenzene	ND	5.0	"
m,p-Xylene	ND	10	"
o-Xylene	ND	5.0	"

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 Project Manager: Derrick Willis

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032940 - EPA 5030 GCMS

Blank (6032940-BLK1)

Prepared & Analyzed: 03/29/16

Surrogate: Toluene-d8	41.5		ug/kg	40.0		104	85.5-116			
Surrogate: 4-Bromofluorobenzene	45.0		"	40.0		113	81.2-123			
Surrogate: Dibromofluoromethane	40.4		"	40.0		101	95.7-135			

LCS (6032940-BS1)

Prepared & Analyzed: 03/29/16

Chlorobenzene	85.4	5.0	ug/kg	100		85.4	75-125			
1,1-Dichloroethene	91.6	5.0	"	100		91.6	75-125			
Trichloroethene	94.4	5.0	"	100		94.4	75-125			
Benzene	87.6	5.0	"	100		87.6	75-125			
Toluene	85.2	5.0	"	100		85.2	75-125			
Surrogate: Toluene-d8	41.2		"	40.0		103	85.5-116			
Surrogate: 4-Bromofluorobenzene	42.4		"	40.0		106	81.2-123			
Surrogate: Dibromofluoromethane	43.4		"	40.0		109	95.7-135			

LCS Dup (6032940-BS1)

Prepared & Analyzed: 03/29/16

Chlorobenzene	92.5	5.0	ug/kg	100		92.5	75-125	7.92	20	
1,1-Dichloroethene	85.6	5.0	"	100		85.6	75-125	6.83	20	
Trichloroethene	91.2	5.0	"	100		91.2	75-125	3.40	20	
Benzene	94.4	5.0	"	100		94.4	75-125	7.36	20	
Toluene	92.6	5.0	"	100		92.6	75-125	8.38	20	
Surrogate: Toluene-d8	40.4		"	40.0		101	85.5-116			
Surrogate: 4-Bromofluorobenzene	41.4		"	40.0		104	81.2-123			
Surrogate: Dibromofluoromethane	43.6		"	40.0		109	95.7-135			

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Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

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Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032837 - EPA 3550 ECD/GCMS

Blank (6032837-BLK1)

Prepared: 03/28/16 Analyzed: 03/29/16

Carbazole	ND	300	ug/kg							
Aniline	ND	300	"							
Phenol	ND	1000	"							
2-Chlorophenol	ND	1000	"							
1,4-Dichlorobenzene	ND	300	"							
N-Nitrosodi-n-propylamine	ND	300	"							
1,2,4-Trichlorobenzene	ND	300	"							
4-Chloro-3-methylphenol	ND	1000	"							
1-Methylnaphthalene	ND	300	"							
2-Methylnaphthalene	ND	300	"							
Acenaphthene	ND	300	"							
4-Nitrophenol	ND	1000	"							
2,4-Dinitrotoluene	ND	300	"							
Pentachlorophenol	ND	1000	"							
Pyrene	ND	300	"							
Acenaphthylene	ND	300	"							
Anthracene	ND	300	"							
Benzo (a) anthracene	ND	300	"							
Benzo (b) fluoranthene	ND	300	"							
Benzo (k) fluoranthene	ND	300	"							
Benzo (g,h,i) perylene	ND	1000	"							
Benzo (a) pyrene	ND	300	"							
Benzyl alcohol	ND	300	"							
Bis(2-chloroethoxy)methane	ND	300	"							
Bis(2-chloroethyl)ether	ND	300	"							
Bis(2-chloroisopropyl)ether	ND	300	"							
Bis(2-ethylhexyl)phthalate	ND	300	"							
4-Bromophenyl phenyl ether	ND	300	"							
Butyl benzyl phthalate	ND	300	"							
4-Chloroaniline	ND	300	"							
2-Chloronaphthalene	ND	300	"							
4-Chlorophenyl phenyl ether	ND	300	"							
Chrysene	ND	300	"							
Dibenz (a,h) anthracene	ND	300	"							
Dibenzofuran	ND	300	"							
Di-n-butyl phthalate	ND	300	"							

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 Project Manager: Derrick Willis

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Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032837 - EPA 3550 ECD/GCMS

Blank (6032837-BLK1)

Prepared: 03/28/16 Analyzed: 03/29/16

1,2-Dichlorobenzene	ND	300	ug/kg							
1,3-Dichlorobenzene	ND	300	"							
2,4-Dichlorophenol	ND	1000	"							
Diethyl phthalate	ND	300	"							
2,4-Dimethylphenol	ND	1000	"							
Dimethyl phthalate	ND	300	"							
4,6-Dinitro-2-methylphenol	ND	1000	"							
2,4-Dinitrophenol	ND	1000	"							
2,6-Dinitrotoluene	ND	1000	"							
Di-n-octyl phthalate	ND	300	"							
Fluoranthene	ND	300	"							
Fluorene	ND	300	"							
Hexachlorobenzene	ND	1500	"							
Hexachlorobutadiene	ND	300	"							
Hexachlorocyclopentadiene	ND	1000	"							
Hexachloroethane	ND	300	"							
Indeno (1,2,3-cd) pyrene	ND	300	"							
Isophorone	ND	300	"							
2-Methylphenol	ND	1000	"							
4-Methylphenol	ND	1000	"							
Naphthalene	ND	300	"							
2-Nitroaniline	ND	300	"							
3-Nitroaniline	ND	300	"							
4-Nitroaniline	ND	300	"							
Nitrobenzene	ND	1000	"							
2-Nitrophenol	ND	1000	"							
N-Nitrosodimethylamine	ND	300	"							
N-Nitrosodiphenylamine	ND	300	"							
2,3,5,6-Tetrachlorophenol	ND	300	"							
2,3,4,6-Tetrachlorophenol	ND	300	"							
Phenanthrene	ND	300	"							
Azobenzene	ND	300	"							
Pyridine	ND	300	"							
2,4,5-Trichlorophenol	ND	1000	"							
2,4,6-Trichlorophenol	ND	1000	"							

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Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032837 - EPA 3550 ECD/GCMS

Blank (6032837-BLK1)

Prepared: 03/28/16 Analyzed: 03/29/16

Surrogate: 2-Fluorophenol	1620		ug/kg	3300		49.1	15-121			
Surrogate: Phenol-d6	1740		"	3300		52.8	24-113			
Surrogate: Nitrobenzene-d5	1680		"	3300		50.9	21.3-119			
Surrogate: 2-Fluorobiphenyl	2130		"	3300		64.6	32.4-102			
Surrogate: 2,4,6-Tribromophenol	2480		"	3300		75.0	18.1-105			
Surrogate: Terphenyl-d14	2700		"	3300		81.8	29.1-130			

LCS (6032837-BS1)

Prepared: 03/28/16 Analyzed: 03/29/16

Phenol	1530	1000	ug/kg	3300		46.5	34-114			
2-Chlorophenol	1820	1000	"	3300		55.2	34-114			
1,4-Dichlorobenzene	1420	300	"	3300		43.0	34-114			
N-Nitrosodi-n-propylamine	1510	300	"	3300		45.7	30-110			
1,2,4-Trichlorobenzene	1720	300	"	3300		52.1	39-119			
4-Chloro-3-methylphenol	2300	1000	"	3300		69.5	50-130			
Acenaphthene	1990	300	"	3300		60.2	34-114			
Pentachlorophenol	2040	1000	"	3300		61.9	50-130			
Pyrene	2070	300	"	3300		62.7	30-110			
Surrogate: 2-Fluorophenol	1650		"	3300		50.0	15-121			
Surrogate: Phenol-d6	1550		"	3300		46.9	24-113			
Surrogate: Nitrobenzene-d5	1860		"	3300		56.2	21.3-119			
Surrogate: 2-Fluorobiphenyl	1810		"	3300		54.9	32.4-102			
Surrogate: 2,4,6-Tribromophenol	2610		"	3300		78.9	18.1-105			
Surrogate: Terphenyl-d14	2570		"	3300		77.8	29.1-130			

Matrix Spike (6032837-MS1)

Source: T160585-05

Prepared: 03/28/16 Analyzed: 03/30/16

Phenol	1640	1000	ug/kg	3320	ND	49.3	34-114			
2-Chlorophenol	2030	1000	"	3320	ND	61.1	34-114			
1,4-Dichlorobenzene	1620	300	"	3320	ND	48.7	34-114			
N-Nitrosodi-n-propylamine	1740	300	"	3320	ND	52.3	30-110			
1,2,4-Trichlorobenzene	2740	300	"	3320	ND	82.5	39-119			
4-Chloro-3-methylphenol	3170	1000	"	3320	ND	95.5	50-130			
Acenaphthene	2450	300	"	3320	ND	73.7	34-114			
Pentachlorophenol	2020	1000	"	3320	ND	60.7	50-130			
Pyrene	2630	300	"	3320	ND	79.1	30-110			
Surrogate: 2-Fluorophenol	1890		"	3320		56.8	15-121			
Surrogate: Phenol-d6	1710		"	3320		51.5	24-113			

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Northgate Environmental Management -- Laguna Hills
 24411 Ridge Route Drive, Suite 130
 Laguna Hills CA, 92653

Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
 04/20/16 17:29

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032837 - EPA 3550 ECD/GCMS

Matrix Spike (6032837-MS1)

Source: T160585-05

Prepared: 03/28/16 Analyzed: 03/30/16

Surrogate: Nitrobenzene-d5	2080		ug/kg	3320		62.5	21.3-119			
Surrogate: 2-Fluorobiphenyl	2260		"	3320		68.0	32.4-102			
Surrogate: 2,4,6-Tribromophenol	3050		"	3320		91.8	18.1-105			
Surrogate: Terphenyl-d14	3130		"	3320		94.3	29.1-130			

Matrix Spike Dup (6032837-MSD1)

Source: T160585-05

Prepared: 03/28/16 Analyzed: 03/30/16

Phenol	1510	1000	ug/kg	3330	ND	45.3	34-114	8.26	42	
2-Chlorophenol	1800	1000	"	3330	ND	54.1	34-114	12.0	40	
1,4-Dichlorobenzene	1320	300	"	3330	ND	39.5	34-114	20.6	28	
N-Nitrosodi-n-propylamine	1470	300	"	3330	ND	44.2	30-110	16.7	38	
1,2,4-Trichlorobenzene	1630	300	"	3330	ND	49.1	39-119	50.7	28	QM-07
4-Chloro-3-methylphenol	2050	1000	"	3330	ND	61.5	50-130	43.2	42	QM-07
Acenaphthene	2060	300	"	3330	ND	62.0	34-114	17.1	31	
Pentachlorophenol	1690	1000	"	3330	ND	50.8	50-130	17.5	50	
Pyrene	2310	300	"	3330	ND	69.3	30-110	13.0	31	
Surrogate: 2-Fluorophenol	1550		"	3330		46.6	15-121			
Surrogate: Phenol-d6	1520		"	3330		45.5	24-113			
Surrogate: Nitrobenzene-d5	1670		"	3330		50.3	21.3-119			
Surrogate: 2-Fluorobiphenyl	1870		"	3330		56.1	32.4-102			
Surrogate: 2,4,6-Tribromophenol	2680		"	3330		80.4	18.1-105			
Surrogate: Terphenyl-d14	2860		"	3330		86.0	29.1-130			

Batch 6032939 - EPA 3550 ECD/GCMS

Blank (6032939-BLK1)

Prepared: 03/29/16 Analyzed: 03/31/16

Carbazole	ND	300	ug/kg							
Phenol	ND	1000	"							
Aniline	ND	300	"							
2-Chlorophenol	ND	1000	"							
1,4-Dichlorobenzene	ND	300	"							
N-Nitrosodi-n-propylamine	ND	300	"							
1,2,4-Trichlorobenzene	ND	300	"							
4-Chloro-3-methylphenol	ND	1000	"							
1-Methylnaphthalene	ND	300	"							
2-Methylnaphthalene	ND	300	"							
Acenaphthene	ND	300	"							

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Chavez, Project Manager



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 Lake Forest, California 92630
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 949.297.5027 Fax

Northgate Environmental Management -- Laguna Hills
 24411 Ridge Route Drive, Suite 130
 Laguna Hills CA, 92653

Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
 04/20/16 17:29

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032939 - EPA 3550 ECD/GCMS

Blank (6032939-BLK1)

Prepared: 03/29/16 Analyzed: 03/31/16

4-Nitrophenol	ND	1000	ug/kg							
2,4-Dinitrotoluene	ND	300	"							
Pentachlorophenol	ND	1000	"							
Pyrene	ND	300	"							
Acenaphthylene	ND	300	"							
Anthracene	ND	300	"							
Benzo (a) anthracene	ND	300	"							
Benzo (b) fluoranthene	ND	300	"							
Benzo (k) fluoranthene	ND	300	"							
Benzo (g,h,i) perylene	ND	1000	"							
Benzo (a) pyrene	ND	300	"							
Benzyl alcohol	ND	300	"							
Bis(2-chloroethoxy)methane	ND	300	"							
Bis(2-chloroethyl)ether	ND	300	"							
Bis(2-chloroisopropyl)ether	ND	300	"							
Bis(2-ethylhexyl)phthalate	ND	300	"							
4-Bromophenyl phenyl ether	ND	300	"							
Butyl benzyl phthalate	ND	300	"							
4-Chloroaniline	ND	300	"							
2-Chloronaphthalene	ND	300	"							
4-Chlorophenyl phenyl ether	ND	300	"							
Chrysene	ND	300	"							
Dibenz (a,h) anthracene	ND	300	"							
Dibenzofuran	ND	300	"							
Di-n-butyl phthalate	ND	300	"							
1,2-Dichlorobenzene	ND	300	"							
1,3-Dichlorobenzene	ND	300	"							
2,4-Dichlorophenol	ND	1000	"							
Diethyl phthalate	ND	300	"							
2,4-Dimethylphenol	ND	1000	"							
Dimethyl phthalate	ND	300	"							
4,6-Dinitro-2-methylphenol	ND	1000	"							
2,4-Dinitrophenol	ND	1000	"							
2,6-Dinitrotoluene	ND	1000	"							
Di-n-octyl phthalate	ND	300	"							
Fluoranthene	ND	300	"							

SunStar Laboratories, Inc.

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Daniel Chavez, Project Manager



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Northgate Environmental Management -- Laguna Hills
 24411 Ridge Route Drive, Suite 130
 Laguna Hills CA, 92653

Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
 04/20/16 17:29

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032939 - EPA 3550 ECD/GCMS

Blank (6032939-BLK1)

Prepared: 03/29/16 Analyzed: 03/31/16

Fluorene	ND	300	ug/kg							
Hexachlorobenzene	ND	1500	"							
Hexachlorobutadiene	ND	300	"							
Hexachlorocyclopentadiene	ND	1000	"							
Hexachloroethane	ND	300	"							
Indeno (1,2,3-cd) pyrene	ND	300	"							
Isophorone	ND	300	"							
2-Methylphenol	ND	1000	"							
4-Methylphenol	ND	1000	"							
Naphthalene	ND	300	"							
2-Nitroaniline	ND	300	"							
3-Nitroaniline	ND	300	"							
4-Nitroaniline	ND	300	"							
Nitrobenzene	ND	1000	"							
2-Nitrophenol	ND	1000	"							
N-Nitrosodimethylamine	ND	300	"							
N-Nitrosodiphenylamine	ND	300	"							
2,3,5,6-Tetrachlorophenol	ND	300	"							
2,3,4,6-Tetrachlorophenol	ND	300	"							
Phenanthrene	ND	300	"							
Azobenzene	ND	300	"							
Pyridine	ND	300	"							
2,4,5-Trichlorophenol	ND	1000	"							
2,4,6-Trichlorophenol	ND	1000	"							
Surrogate: 2-Fluorophenol	2050		"	3320		61.8	15-121			
Surrogate: Phenol-d6	2210		"	3320		66.5	24-113			
Surrogate: Nitrobenzene-d5	2310		"	3320		69.5	21.3-119			
Surrogate: 2-Fluorobiphenyl	2300		"	3320		69.1	32.4-102			
Surrogate: 2,4,6-Tribromophenol	2840		"	3320		85.6	18.1-105			
Surrogate: Terphenyl-d14	3190		"	3320		96.0	29.1-130			

SunStar Laboratories, Inc.

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Daniel Chavez, Project Manager



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Northgate Environmental Management -- Laguna Hills
 24411 Ridge Route Drive, Suite 130
 Laguna Hills CA, 92653

Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
 04/20/16 17:29

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032939 - EPA 3550 ECD/GCMS

LCS (6032939-BS1)		Prepared: 03/29/16 Analyzed: 03/31/16								
Phenol	1720	1000	ug/kg	3300		52.0	34-114			
2-Chlorophenol	1640	1000	"	3300		49.7	34-114			
1,4-Dichlorobenzene	1550	300	"	3300		46.8	34-114			
N-Nitrosodi-n-propylamine	1470	300	"	3300		44.7	30-110			
1,2,4-Trichlorobenzene	3120	300	"	3300		94.4	39-119			
4-Chloro-3-methylphenol	2250	1000	"	3300		68.2	50-130			
Acenaphthene	1900	300	"	3300		57.5	34-114			
Pentachlorophenol	2930	1000	"	3300		88.8	50-130			
Pyrene	2150	300	"	3300		65.0	30-110			
Surrogate: 2-Fluorophenol	1650		"	3300		49.9	15-121			
Surrogate: Phenol-d6	1640		"	3300		49.8	24-113			
Surrogate: Nitrobenzene-d5	1930		"	3300		58.5	21.3-119			
Surrogate: 2-Fluorobiphenyl	2160		"	3300		65.3	32.4-102			
Surrogate: 2,4,6-Tribromophenol	3040		"	3300		92.2	18.1-105			
Surrogate: Terphenyl-d14	2640		"	3300		79.9	29.1-130			

LCS Dup (6032939-BS1)		Prepared: 03/29/16 Analyzed: 03/31/16								
Phenol	1700	1000	ug/kg	3330		51.1	34-114	1.11	42	
2-Chlorophenol	1750	1000	"	3330		52.7	34-114	6.74	40	
1,4-Dichlorobenzene	1470	300	"	3330		44.3	34-114	4.81	28	
N-Nitrosodi-n-propylamine	1520	300	"	3330		45.6	30-110	2.90	38	
1,2,4-Trichlorobenzene	2930	300	"	3330		88.2	39-119	6.05	28	
4-Chloro-3-methylphenol	2200	1000	"	3330		66.2	50-130	2.40	42	
Acenaphthene	1920	300	"	3330		57.8	34-114	1.15	31	
Pentachlorophenol	3060	1000	"	3330		92.0	50-130	4.28	50	
Pyrene	2190	300	"	3330		65.9	30-110	2.14	31	
Surrogate: 2-Fluorophenol	1730		"	3330		52.0	15-121			
Surrogate: Phenol-d6	1710		"	3330		51.4	24-113			
Surrogate: Nitrobenzene-d5	1910		"	3330		57.4	21.3-119			
Surrogate: 2-Fluorobiphenyl	2250		"	3330		67.6	32.4-102			
Surrogate: 2,4,6-Tribromophenol	3110		"	3330		93.5	18.1-105			
Surrogate: Terphenyl-d14	2720		"	3330		81.8	29.1-130			

SunStar Laboratories, Inc.

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Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Center Cal
Project Number: 2047.06
Project Manager: Derrick Willis

Reported:
04/20/16 17:29

Notes and Definitions

- S-GC Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- S-03 The surrogate recovery was below acceptance criteria in the sample because of a possible matrix effect. The surrogate recovery was within acceptance criteria in the method blank and LCS.
- QR-04 The percent recovery and/or RPD was outside acceptance criteria. Results accepted based upon percent recovery results in duplicate QC sample and the CCV and CCB results.
- QM-07 The spike recovery and or RPD was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Chavez, Project Manager

Chain of Custody Record

SunStar Laboratories, Inc.
 25712 Commercentre Dr
 Lake Forest, CA 92630
 949-297-5020

Client: Northgate Environmental Management, LLC.
 Address: 2411 Ridge Route #130, Laguna Hills, CA
 Phone: (949) 375-7004 Fax: (949) 315-3365
 Project Manager: Derrick Willis

Date: 3-25-2016 Page: 1 Of 3
 Project Name: Center Cal
 Collector: Dana R Brown Client Project #: 2047.06
 Batch #: 3 TL60548 EDF #: _____

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270 C SVOCs	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	OCPs EPA 8061A	PCBs EPA 8082	Laboratory ID #	Comments/Preservative	Total # of containers		
B-0324216-A	3-24-2016	08:10	AQ	V	H													2		
B-16-5.0		16:49	SO	G5+V														2		
B-16-10.0		16:53																1		
B-16-15.0		17:10																7		
B-14-1.0	3-25-2016	07:30	SO	G5														1		
B-14-5.0		07:34		G5+V														7		
B-14-10.0		07:40			A													7		
B-14-15.0		07:46			A													7		
B-12-1.0		09:25		G5														1		
B-12-5.0		09:32		G5+V														7		
B-12-10.0		09:35			A													7		
B-12-15.0		09:45			A													7		
B-5-1.0		10:35		G5														1		
B-5-5.0		10:38		G5+V														7		
B-5-10.0		10:41																7		
Relinquished by: (signature) <u>Dana R Brown</u> 3-25-2016 16:45			Received by: (signature) <u>[Signature]</u>			Date / Time			Date / Time			Date / Time			Date / Time			Date / Time		
Relinquished by: (signature)			Received by: (signature)			Date / Time			Date / Time			Date / Time			Date / Time			Date / Time		
Relinquished by: (signature)			Received by: (signature)			Date / Time			Date / Time			Date / Time			Date / Time			Date / Time		
Sample disposal instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____ Turn around time: <u>5-Day</u>																				

Total # of containers 82
 Chain of Custody seals Y/N (A)
 Seals intact? Y/N (A)
 Received good condition/cold (A)

COC134867

Chain of Custody Record

Client: Nortygarte Environmental Management, Inc.
 Address: 24411 Ridgepore #130, Laguna Hills, CA
 Phone: (949) 375-7004 Fax: (949) 315-3365
 Project Manager: Derrick Willis

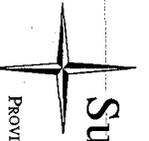
Date: 3-2 Page: 2 Of 3
 Project Name: Center Cal
 Collector: Dana Brown/Michelle Hyslop Client Project #: 2047,06
 Batch #: 3 T160598 EDF #: _____

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270 SVOCs	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	OCPs EPA 8081A	PCBs EPA 8062	Laboratory ID #	Comments/Preservative	Total # of containers	
B-5-15.0	3-25-2016	08:30	AG	GS+V	H														2	
B-11-1.0		12:03	AG	GS+V														16	DRB	2
B-11-5.0		12:06		GS+V														17		1
B-11-10.0		12:10		GS+V														18		7
B-11-15.0		12:14		GS														19		7
B-10-1.0		12:53		GS														20		7
B-10-5.0		12:57		GS+V														21		1
B-10-10.0		13:00		GS+V														22		7
B-10-15.0		13:05		GS														23		7
B-17-1.0		13:50		GS														24		7
B-17-5.0		13:58		GS+V														25		1
B-17-10.0		14:02		GS														26		7
B-17-15.0		14:02		GS														27		7
B-17-15.0	3-25-16	14:02	AG	GS	H													28		7
Relinquished by: (signature) <u>DRB 3-25-16</u>					Received by: (signature) <u>Dana Brown</u>					Date / Time <u>3-25-2016 16:40</u>					Total # of containers <u>75</u>					
Relinquished by: (signature) <u>Michelle Hyslop</u>					Received by: (signature) <u>Dana Brown</u>					Date / Time <u>3-25-2016 16:40</u>					Chain of Custody seals Y/N <u>NA</u>					
Relinquished by: (signature) <u>Dana Brown</u>					Received by: (signature) <u>Dana Brown</u>					Date / Time <u>3-25-16 16:40</u>					Seals intact? Y/N <u>NA</u>					
Relinquished by: (signature)					Received by: (signature)					Date / Time					Received good condition/cold <u>9.0</u>					

Sample disposal instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

Turn around time: 5-Day

COC 150163



**SunStar
Laboratories, Inc.**

Chain of Custody Record

PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE
25712 Commercentre Drive, Lake Forest, CA 92630
949-297-5020

Client: Northgate Environmental Management, Inc.
Address: 24111 Ridge Route #130, Laguna Hills, CA
Phone: (949) 375-7004 Fax: (949) 315-3365
Project Manager: Derrick Willis

Date: 3-25-2016 Page: 3 Of 3
Project Name: Center Cal
Collector: Dana Brown/Michelle Hopkins Client Project #: 2047, 06
Batch #: 3 T160598 EDF #: _____

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270 C SUOCS	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	OCPs EPA 6081A	Laboratory ID #	Comments/Preservative	Total # of containers
TQ-03252016-B	3-25-2016	13:49	AA	V	H											57	29	2
B-16-1.0	3-29-2016	16:47	SO	AS												34	30	1
B-7-1.0	3-25-2016	15:28	SO	AS												33	31	1
B-7-5.0		15:28		AS1V												34	32	7
B-7-10.0		15:34														34	33	7
B-7-15.0		15:37			H											35	34	7
DRS																		
3-25-2016																		
Relinquished by: (signature) <i>Michelle Hopkins</i>	Date / Time 3-25-2016 16:40	Received by: (signature) <i>Dana Brown</i>	Date / Time 3-25-2016 16:40	Total # of containers 25	Notes													
Relinquished by: (signature) <i>Dana Brown</i>	Date / Time 3-25-2016 16:45	Received by: (signature) <i>Dana Brown</i>	Date / Time 3-25-16 16:40	Chain of Custody seals Y/N/NA Seals intact? Y/N/NA Received good condition/cold	Turn around time: 5-Day													

Sample disposal instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

COC 142469

SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: T160598

Client Name: Northgate - Laguna Hills Project: Center Cal

Delivered by: Client SunStar Courier GSO FedEx Other

If Courier, Received by: Joey Date/Time Courier Received: 3-25-16 1645

Lab Received by: _____ Date/Time Lab Received: _____

Total number of coolers received: _____

Temperature:	Cooler #1	a.2	°C +/- the CF (- 0.2°C) =	a.0	°C corrected temperature
Temperature:	Cooler #2		°C +/- the CF (- 0.2°C) =		°C corrected temperature
Temperature:	Cooler #3		°C +/- the CF (- 0.2°C) =		°C corrected temperature
Temperature criteria = ≤ 6°C (no frozen containers)			Within criteria?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
If NO:					
Samples received on ice?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No → Complete Non-Conformance Sheet		
If on ice, samples received same day collected?		<input checked="" type="checkbox"/> Yes → Acceptable	<input type="checkbox"/> No → Complete Non-Conformance Sheet		

Custody seals intact on cooler/sample Yes No* N/A

Sample containers intact Yes No*

Sample labels match Chain of Custody IDs Yes No*

Total number of containers received match COC Yes No*

Proper containers received for analyses requested on COC Yes No*

Proper preservative indicated on COC/containers for analyses requested Yes No* N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times Yes No*

* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date: JM 3-26-16

Comments:

WORK ORDER

T160598

Client: Northgate Environmental Management -- Laguna **Project Manager:** Daniel Chavez
Project: Center Cal **Project Number:** 2047.06

Report To:

Northgate Environmental Management -- Laguna Hills
Derrick Willis
24411 Ridge Route Drive, Suite 130
Laguna Hills, CA 92653

Date Due: 04/04/16 15:00 (5 day TAT)
Received By: JOEY HIMES Date Received: 03/25/16 16:45
Logged In By: Dan Marteski Date Logged In: 03/26/16 07:57

Samples Received at: 9°C
Custody Seals No Received On Ice Yes
Containers Intact Yes
COC/Labels Agree Yes
Preservation Confir Yes

Analysis	Due	TAT	Expires	Comments
----------	-----	-----	---------	----------

T160598-01 TB-0324216-A [Water] Sampled 03/24/16 08:10 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				HOLD
--	--	--	--	-------------

T160598-02 B-16-5.0 [Soil] Sampled 03/24/16 16:49 (GMT-08:00) Pacific Time (US &

6010 Title 22	04/04/16 15:00	5	09/20/16 16:49
8015 CC (D/MO)	04/04/16 15:00	5	04/07/16 16:49
8015 m 5035-GRO	04/04/16 15:00	5	04/07/16 16:49
8081 Pesticides	04/04/16 15:00	5	04/07/16 16:49
8082 PCB	04/04/16 15:00	5	04/07/16 16:49
8260 5035	04/04/16 15:00	5	04/07/16 16:49
8270C	04/04/16 15:00	5	04/07/16 16:49

T160598-03 B-16-10.0 [Soil] Sampled 03/24/16 16:53 (GMT-08:00) Pacific Time (US &

6010 Title 22	04/04/16 15:00	5	09/20/16 16:53
8015 CC (D/MO)	04/04/16 15:00	5	04/07/16 16:53
8015 m 5035-GRO	04/04/16 15:00	5	04/07/16 16:53
8081 Pesticides	04/04/16 15:00	5	04/07/16 16:53
8082 PCB	04/04/16 15:00	5	04/07/16 16:53
8260 5035	04/04/16 15:00	5	04/07/16 16:53
8270C	04/04/16 15:00	5	04/07/16 16:53

WORK ORDER

T160598

Client: Northgate Environmental Management -- Laguna **Project Manager:** Daniel Chavez
Project: Center Cal **Project Number:** 2047.06

Analysis	Due	TAT	Expires	Comments
T160598-04 B-16-15.0 [Soil] Sampled 03/24/16 17:10 (GMT-08:00) Pacific Time				
(US &				
6010 Title 22	04/04/16 15:00	5	09/20/16 17:10	
8015 CC (D/MO)	04/04/16 15:00	5	04/07/16 17:10	
8015 m 5035-GRO	04/04/16 15:00	5	04/07/16 17:10	
8081 Pesticides	04/04/16 15:00	5	04/07/16 17:10	
8082 PCB	04/04/16 15:00	5	04/07/16 17:10	
8260 5035	04/04/16 15:00	5	04/07/16 17:10	
8270C	04/04/16 15:00	5	04/07/16 17:10	
T160598-05 B-14-1.0 [Soil] Sampled 03/25/16 07:30 (GMT-08:00) Pacific Time DID NOT RECEIVE SAMPLE				
(US &				
[NO ANALYSES]				
T160598-06 B-14-5.0 [Soil] Sampled 03/25/16 07:34 (GMT-08:00) Pacific Time				
(US &				
6010 Title 22	04/04/16 15:00	5	09/21/16 07:34	
8015 CC (D/MO)	04/04/16 15:00	5	04/08/16 07:34	
8015 m 5035-GRO	04/04/16 15:00	5	04/08/16 07:34	
8081 Pesticides	04/04/16 15:00	5	04/08/16 07:34	
8260 5035	04/04/16 15:00	5	04/08/16 07:34	
8270C	04/04/16 15:00	5	04/08/16 07:34	
T160598-07 B-14-10.0 [Soil] Sampled 03/25/16 07:40 (GMT-08:00) Pacific Time				
(US &				
6010 Title 22	04/04/16 15:00	5	09/21/16 07:40	
8015 CC (D/MO)	04/04/16 15:00	5	04/08/16 07:40	
8015 m 5035-GRO	04/04/16 15:00	5	04/08/16 07:40	
8081 Pesticides	04/04/16 15:00	5	04/08/16 07:40	
8260 5035	04/04/16 15:00	5	04/08/16 07:40	
8270C	04/04/16 15:00	5	04/08/16 07:40	
T160598-08 B-14-15.0 [Soil] Sampled 03/25/16 07:46 (GMT-08:00) Pacific Time				
(US &				
6010 Title 22	04/04/16 15:00	5	09/21/16 07:46	
8015 CC (D/MO)	04/04/16 15:00	5	04/08/16 07:46	
8015 m 5035-GRO	04/04/16 15:00	5	04/08/16 07:46	
8081 Pesticides	04/04/16 15:00	5	04/08/16 07:46	
8260 5035	04/04/16 15:00	5	04/08/16 07:46	
8270C	04/04/16 15:00	5	04/08/16 07:46	

WORK ORDER

T160598

Client: Northgate Environmental Management -- Laguna **Project Manager:** Daniel Chavez
Project: Center Cal **Project Number:** 2047.06

Analysis	Due	TAT	Expires	Comments
T160598-09 B-12-1.0 [Soil] Sampled 03/25/16 09:25 (GMT-08:00) Pacific Time (US &				
8081 Pesticides	04/04/16 15:00	5	04/08/16 09:25	
T160598-10 B-12-5.0 [Soil] Sampled 03/25/16 09:32 (GMT-08:00) Pacific Time (US &				
6010 Title 22	04/04/16 15:00	5	09/21/16 09:32	
8015 CC (D/MO)	04/04/16 15:00	5	04/08/16 09:32	
8015 m 5035-GRO	04/04/16 15:00	5	04/08/16 09:32	
8081 Pesticides	04/04/16 15:00	5	04/08/16 09:32	
8260 5035	04/04/16 15:00	5	04/08/16 09:32	
8270C	04/04/16 15:00	5	04/08/16 09:32	
T160598-11 B-12-10.0 [Soil] Sampled 03/25/16 09:35 (GMT-08:00) Pacific Time (US &				
6010 Title 22	04/04/16 15:00	5	09/21/16 09:35	
8015 CC (D/MO)	04/04/16 15:00	5	04/08/16 09:35	
8015 m 5035-GRO	04/04/16 15:00	5	04/08/16 09:35	
8081 Pesticides	04/04/16 15:00	5	04/08/16 09:35	
8260 5035	04/04/16 15:00	5	04/08/16 09:35	
8270C	04/04/16 15:00	5	04/08/16 09:35	
T160598-12 B-12-15.0 [Soil] Sampled 03/25/16 09:45 (GMT-08:00) Pacific Time (US &				
6010 Title 22	04/04/16 15:00	5	09/21/16 09:45	
8015 CC (D/MO)	04/04/16 15:00	5	04/08/16 09:45	
8015 m 5035-GRO	04/04/16 15:00	5	04/08/16 09:45	
8081 Pesticides	04/04/16 15:00	5	04/08/16 09:45	
8260 5035	04/04/16 15:00	5	04/08/16 09:45	
8270C	04/04/16 15:00	5	04/08/16 09:45	
T160598-13 B-5-1.0 [Soil] Sampled 03/25/16 10:35 (GMT-08:00) Pacific Time HOLD				
(US &				
[NO ANALYSES]				
T160598-14 B-5-5.0 [Soil] Sampled 03/25/16 10:38 (GMT-08:00) Pacific Time (US &				
6010 Title 22	04/04/16 15:00	5	09/21/16 10:38	
8015 CC (D/MO)	04/04/16 15:00	5	04/08/16 10:38	
8015 m 5035-GRO	04/04/16 15:00	5	04/08/16 10:38	

WORK ORDER

T160598

Client: Northgate Environmental Management -- Laguna **Project Manager:** Daniel Chavez
Project: Center Cal **Project Number:** 2047.06

Analysis	Due	TAT	Expires	Comments
T160598-15 B-5-10.0 [Soil] Sampled 03/25/16 10:41 (GMT-08:00) Pacific Time (US &				
6010 Title 22	04/04/16 15:00	5	09/21/16 10:41	
8015 CC (D/MO)	04/04/16 15:00	5	04/08/16 10:41	
8015 m 5035-GRO	04/04/16 15:00	5	04/08/16 10:41	
T160598-16 B-5-15.0 [Soil] Sampled 03/25/16 10:47 (GMT-08:00) Pacific Time (US &				
6010 Title 22	04/04/16 15:00	5	09/21/16 10:47	
8015 CC (D/MO)	04/04/16 15:00	5	04/08/16 10:47	
8015 m 5035-GRO	04/04/16 15:00	5	04/08/16 10:47	
T160598-17 B-11-1.0 [Soil] Sampled 03/25/16 12:03 (GMT-08:00) Pacific Time (US &				
8081 Pesticides	04/04/16 15:00	5	04/08/16 12:03	
T160598-18 B-11-5.0 [Soil] Sampled 03/25/16 12:06 (GMT-08:00) Pacific Time (US &				
6010 Title 22	04/04/16 15:00	5	09/21/16 12:06	
8015 CC (D/MO)	04/04/16 15:00	5	04/08/16 12:06	
8015 m 5035-GRO	04/04/16 15:00	5	04/08/16 12:06	
8081 Pesticides	04/04/16 15:00	5	04/08/16 12:06	
8082 PCB	04/04/16 15:00	5	04/08/16 12:06	
8260 5035	04/04/16 15:00	5	04/08/16 12:06	
8270C	04/04/16 15:00	5	04/08/16 12:06	
T160598-19 B-11-10.0 [Soil] Sampled 03/25/16 12:10 (GMT-08:00) Pacific Time (US &				
6010 Title 22	04/04/16 15:00	5	09/21/16 12:10	
8015 CC (D/MO)	04/04/16 15:00	5	04/08/16 12:10	
8015 m 5035-GRO	04/04/16 15:00	5	04/08/16 12:10	
8081 Pesticides	04/04/16 15:00	5	04/08/16 12:10	
8082 PCB	04/04/16 15:00	5	04/08/16 12:10	
8260 5035	04/04/16 15:00	5	04/08/16 12:10	
8270C	04/04/16 15:00	5	04/08/16 12:10	

WORK ORDER

T160598

Client: Northgate Environmental Management -- Laguna **Project Manager:** Daniel Chavez
Project: Center Cal **Project Number:** 2047.06

Analysis	Due	TAT	Expires	Comments
T160598-20 B-11-15.0 [Soil] Sampled 03/25/16 12:14 (GMT-08:00) Pacific Time (US &				
6010 Title 22	04/04/16 15:00	5	09/21/16 12:14	
8015 CC (D/MO)	04/04/16 15:00	5	04/08/16 12:14	
8015 m 5035-GRO	04/04/16 15:00	5	04/08/16 12:14	
8081 Pesticides	04/04/16 15:00	5	04/08/16 12:14	
8082 PCB	04/04/16 15:00	5	04/08/16 12:14	
8260 5035	04/04/16 15:00	5	04/08/16 12:14	
8270C	04/04/16 15:00	5	04/08/16 12:14	
T160598-21 B-10-1.0 [Soil] Sampled 03/25/16 12:53 (GMT-08:00) Pacific Time (US &				
8081 Pesticides	04/04/16 15:00	5	04/08/16 12:53	
T160598-22 B-10-5.0 [Soil] Sampled 03/25/16 12:57 (GMT-08:00) Pacific Time (US &				
6010 Title 22	04/04/16 15:00	5	09/21/16 12:57	
8015 CC (D/MO)	04/04/16 15:00	5	04/08/16 12:57	
8015 m 5035-GRO	04/04/16 15:00	5	04/08/16 12:57	
8081 Pesticides	04/04/16 15:00	5	04/08/16 12:57	
8082 PCB	04/04/16 15:00	5	04/08/16 12:57	
8260 5035	04/04/16 15:00	5	04/08/16 12:57	
8270C	04/04/16 15:00	5	04/08/16 12:57	
T160598-23 B-10-10.0 [Soil] Sampled 03/25/16 13:00 (GMT-08:00) Pacific Time (US &				
6010 Title 22	04/04/16 15:00	5	09/21/16 13:00	
8015 CC (D/MO)	04/04/16 15:00	5	04/08/16 13:00	
8015 m 5035-GRO	04/04/16 15:00	5	04/08/16 13:00	
8081 Pesticides	04/04/16 15:00	5	04/08/16 13:00	
8082 PCB	04/04/16 15:00	5	04/08/16 13:00	
8260 5035	04/04/16 15:00	5	04/08/16 13:00	
8270C	04/04/16 15:00	5	04/08/16 13:00	
T160598-24 B-10-15.0 [Soil] Sampled 03/25/16 13:05 (GMT-08:00) Pacific Time (US &				
6010 Title 22	04/04/16 15:00	5	09/21/16 13:05	
8015 CC (D/MO)	04/04/16 15:00	5	04/08/16 13:05	
8015 m 5035-GRO	04/04/16 15:00	5	04/08/16 13:05	
8081 Pesticides	04/04/16 15:00	5	04/08/16 13:05	
8082 PCB	04/04/16 15:00	5	04/08/16 13:05	
8260 5035	04/04/16 15:00	5	04/08/16 13:05	
8270C	04/04/16 15:00	5	04/08/16 13:05	

WORK ORDER

T160598

Client: Northgate Environmental Management -- Laguna	Project Manager: Daniel Chavez
Project: Center Cal	Project Number: 2047.06

Analysis	Due	TAT	Expires	Comments
T160598-25 B-17-1.0 [Soil] Sampled 03/25/16 13:50 (GMT-08:00) Pacific Time HOLD				
(US & [NO ANALYSES])				
T160598-26 B-17-5.0 [Soil] Sampled 03/25/16 13:54 (GMT-08:00) Pacific Time HOLD				
(US & [NO ANALYSES])				
T160598-27 B-17-10.0 [Soil] Sampled 03/25/16 13:58 (GMT-08:00) Pacific Time HOLD				
(US & [NO ANALYSES])				
T160598-28 B-17-15.0 [Soil] Sampled 03/25/16 14:02 (GMT-08:00) Pacific Time HOLD				
(US & [NO ANALYSES])				
T160598-29 TB-03252016-B [Water] Sampled 03/25/16 13:49 (GMT-08:00) Pacific Time HOLD				
(US & [NO ANALYSES])				
T160598-30 B-16-1.0 [Soil] Sampled 03/24/16 16:47 (GMT-08:00) Pacific Time				
(US & 8081 Pesticides 04/04/16 15:00 5 04/07/16 16:47)				
T160598-31 B-7-1.0 [Soil] Sampled 03/25/16 15:28 (GMT-08:00) Pacific Time HOLD				
(US & [NO ANALYSES])				
T160598-32 B-7-5.0 [Soil] Sampled 03/25/16 15:28 (GMT-08:00) Pacific Time				
(US & 6010 Title 22 04/04/16 15:00 5 09/21/16 15:28				
8015 CC (D/MO) 04/04/16 15:00 5 04/08/16 15:28				
8015 m 5035-GRO 04/04/16 15:00 5 04/08/16 15:28				
T160598-33 B-7-10.0 [Soil] Sampled 03/25/16 15:34 (GMT-08:00) Pacific Time				
(US & 6010 Title 22 04/04/16 15:00 5 09/21/16 15:34				
8015 CC (D/MO) 04/04/16 15:00 5 04/08/16 15:34				
8015 m 5035-GRO 04/04/16 15:00 5 04/08/16 15:34				
T160598-34 B-7-15.0 [Soil] Sampled 03/25/16 15:37 (GMT-08:00) Pacific Time HOLD				
(US & [NO ANALYSES])				

WORK ORDER

T160598

Client: Northgate Environmental Management -- Laguna **Project Manager:** Daniel Chavez
Project: Center Cal **Project Number:** 2047.06

Analysis groups included in this work order

6010 Title 22

subgroup 6010B T22 7470/71 Hg



25712 Commercentre Drive
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20 April 2016

Derrick Willis
Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills, CA 92653
RE: Center Cal

Enclosed are the results of analyses for samples received by the laboratory on 03/28/16 08:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Chavez
Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
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Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Center Cal
Project Number: 2047.06
Project Manager: Derrick Willis

Reported:
04/20/16 17:32

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B-6-5.0	T160602-03	Soil	03/25/16 16:34	03/28/16 08:50
B-6-10.0	T160602-04	Soil	03/25/16 16:41	03/28/16 08:50
B-6-15.0	T160602-05	Soil	03/25/16 16:44	03/28/16 08:50

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Chavez, Project Manager

Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Center Cal
Project Number: 2047.06
Project Manager: Derrick Willis

Reported:
04/20/16 17:32

DETECTIONS SUMMARY

Sample ID: B-6-5.0

Laboratory ID: T160602-03

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	46	1.0		mg/kg	EPA 6010B	
Chromium	11	2.0		mg/kg	EPA 6010B	
Cobalt	7.1	2.0		mg/kg	EPA 6010B	
Copper	10	1.0		mg/kg	EPA 6010B	
Nickel	11	2.0		mg/kg	EPA 6010B	
Vanadium	21	5.0		mg/kg	EPA 6010B	
Zinc	12	1.0		mg/kg	EPA 6010B	

Sample ID: B-6-10.0

Laboratory ID: T160602-04

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Barium	28	1.0		mg/kg	EPA 6010B	
Chromium	7.5	2.0		mg/kg	EPA 6010B	
Cobalt	3.4	2.0		mg/kg	EPA 6010B	
Copper	3.7	1.0		mg/kg	EPA 6010B	
Nickel	4.3	2.0		mg/kg	EPA 6010B	
Vanadium	16	5.0		mg/kg	EPA 6010B	
Zinc	8.1	1.0		mg/kg	EPA 6010B	

Sample ID: B-6-15.0

Laboratory ID: T160602-05

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Arsenic	12	5.0		mg/kg	EPA 6010B	
Barium	78	1.0		mg/kg	EPA 6010B	
Chromium	11	2.0		mg/kg	EPA 6010B	
Cobalt	9.2	2.0		mg/kg	EPA 6010B	
Copper	10	1.0		mg/kg	EPA 6010B	
Nickel	8.3	2.0		mg/kg	EPA 6010B	
Vanadium	24	5.0		mg/kg	EPA 6010B	
Zinc	13	1.0		mg/kg	EPA 6010B	

SunStar Laboratories, Inc.



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Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Center Cal
Project Number: 2047.06
Project Manager: Derrick Willis

Reported:
04/20/16 17:32

SunStar Laboratories, Inc.

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Daniel Chavez, Project Manager



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Northgate Environmental Management -- Laguna Hills 24411 Ridge Route Drive, Suite 130 Laguna Hills CA, 92653	Project: Center Cal Project Number: 2047.06 Project Manager: Derrick Willis	Reported: 04/20/16 17:32
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B-6-5.0
T160602-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C4-C12 (GRO)	ND	360	ug/kg	1	6032833	03/28/16	03/29/16	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		17.4 %	65-135		"	"	"	"	S-03

Extractable Petroleum Hydrocarbons by 8015C

C13-C22 (DRO)	ND	10	mg/kg	1	6032828	03/28/16	03/29/16	EPA 8015C	
C23-C32 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		107 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	6032820	03/28/16	03/28/16	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	46	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	11	2.0	"	"	"	"	"	"	
Cobalt	7.1	2.0	"	"	"	"	"	"	
Copper	10	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	11	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	21	5.0	"	"	"	"	"	"	
Zinc	12	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Chavez, Project Manager



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 Lake Forest, California 92630
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Northgate Environmental Management -- Laguna Hills 24411 Ridge Route Drive, Suite 130 Laguna Hills CA, 92653	Project: Center Cal Project Number: 2047.06 Project Manager: Derrick Willis	Reported: 04/20/16 17:32
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B-6-5.0
T160602-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	6032822	03/28/16	03/28/16	EPA 7471A Soil	
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SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Chavez, Project Manager



25712 Commercentre Drive
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Northgate Environmental Management -- Laguna Hills 24411 Ridge Route Drive, Suite 130 Laguna Hills CA, 92653	Project: Center Cal Project Number: 2047.06 Project Manager: Derrick Willis	Reported: 04/20/16 17:32
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B-6-10.0
T160602-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C4-C12 (GRO)	ND	500	ug/kg	1	6032941	03/29/16	03/30/16	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		80.8 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015C

C13-C22 (DRO)	ND	10	mg/kg	1	6032847	03/28/16	03/30/16	EPA 8015C	
C23-C32 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		108 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	6032846	03/28/16	03/29/16	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	28	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	7.5	2.0	"	"	"	"	"	"	
Cobalt	3.4	2.0	"	"	"	"	"	"	
Copper	3.7	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	4.3	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	16	5.0	"	"	"	"	"	"	
Zinc	8.1	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Daniel Chavez, Project Manager



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Northgate Environmental Management -- Laguna Hills 24411 Ridge Route Drive, Suite 130 Laguna Hills CA, 92653	Project: Center Cal Project Number: 2047.06 Project Manager: Derrick Willis	Reported: 04/20/16 17:32
--	---	-----------------------------

B-6-10.0
T160602-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	6032845	03/28/16	03/29/16	EPA 7471A Soil	
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--	---	-----------------------------

B-6-15.0
T160602-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C4-C12 (GRO)	ND	360	ug/kg	1	6032941	03/29/16	03/30/16	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		90.4 %	65-135		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015C

C13-C22 (DRO)	ND	10	mg/kg	1	6032847	03/28/16	03/30/16	EPA 8015C	
C23-C32 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		97.9 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	6032846	03/28/16	03/29/16	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	12	5.0	"	"	"	"	"	"	
Barium	78	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	11	2.0	"	"	"	"	"	"	
Cobalt	9.2	2.0	"	"	"	"	"	"	
Copper	10	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	8.3	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	24	5.0	"	"	"	"	"	"	
Zinc	13	1.0	"	"	"	"	"	"	

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Northgate Environmental Management -- Laguna Hills 24411 Ridge Route Drive, Suite 130 Laguna Hills CA, 92653	Project: Center Cal Project Number: 2047.06 Project Manager: Derrick Willis	Reported: 04/20/16 17:32
--	---	-----------------------------

B-6-15.0
T160602-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	6032845	03/28/16	03/29/16	EPA 7471A Soil	
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SunStar Laboratories, Inc.

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Northgate Environmental Management -- Laguna Hills
 24411 Ridge Route Drive, Suite 130
 Laguna Hills CA, 92653

Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
 04/20/16 17:32

Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 6032833 - EPA 5035 GC

Blank (6032833-BLK1) Prepared: 03/28/16 Analyzed: 03/29/16										
C4-C12 (GRO)	ND	400	ug/kg							
Surrogate: 4-Bromofluorobenzene	74.0		"	100		74.0	65-135			
LCS (6032833-BS1) Prepared: 03/28/16 Analyzed: 03/29/16										
C6-C12 (GRO)	8570	400	ug/kg	11000		78.2	75-125			
Surrogate: 4-Bromofluorobenzene	91.0		"	100		91.0	65-135			
LCS Dup (6032833-BSD1) Prepared: 03/28/16 Analyzed: 03/29/16										
C6-C12 (GRO)	5210	400	ug/kg	11000		47.5	75-125	48.7	20	QR-04
Surrogate: 4-Bromofluorobenzene	55.9		"	100		55.9	65-135			QR-04

Batch 6032941 - EPA 5030 GC

Blank (6032941-BLK1) Prepared: 03/29/16 Analyzed: 03/30/16										
C4-C12 (GRO)	ND	400	ug/kg							
Surrogate: 4-Bromofluorobenzene	67.5		"	100		67.5	65-135			
LCS (6032941-BS1) Prepared: 03/29/16 Analyzed: 03/30/16										
C6-C12 (GRO)	10800	400	ug/kg	11000		98.5	75-125			
Surrogate: 4-Bromofluorobenzene	87.6		"	100		87.6	65-135			
LCS Dup (6032941-BSD1) Prepared: 03/29/16 Analyzed: 03/30/16										
C6-C12 (GRO)	11100	400	ug/kg	11000		101	75-125	2.20	20	
Surrogate: 4-Bromofluorobenzene	86.2		"	100		86.2	65-135			

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Northgate Environmental Management -- Laguna Hills
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 Laguna Hills CA, 92653

Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
 04/20/16 17:32

Extractable Petroleum Hydrocarbons by 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032828 - EPA 3550B GC

Blank (6032828-BLK1)										
										Prepared: 03/28/16 Analyzed: 03/29/16
C23-C32 (MORO)	ND	10	mg/kg							
C13-C22 (DRO)	ND	10	"							
Surrogate: <i>p</i> -Terphenyl	92.6		"	93.4		99.2	65-135			
LCS (6032828-BS1)										
										Prepared: 03/28/16 Analyzed: 03/29/16
C13-C28 (DRO)	460	10	mg/kg	473		97.0	75-125			
Surrogate: <i>p</i> -Terphenyl	91.1		"	94.6		96.3	65-135			
Matrix Spike (6032828-MS1)										
										Source: T160598-06 Prepared: 03/28/16 Analyzed: 03/29/16
C13-C28 (DRO)	540	10	mg/kg	463	20	113	75-125			
Surrogate: <i>p</i> -Terphenyl	92.9		"	92.7		100	65-135			
Matrix Spike Dup (6032828-MSD1)										
										Source: T160598-06 Prepared: 03/28/16 Analyzed: 03/29/16
C13-C28 (DRO)	530	10	mg/kg	468	20	109	75-125	2.29	20	
Surrogate: <i>p</i> -Terphenyl	92.6		"	93.5		99.0	65-135			

Batch 6032847 - EPA 3550B GC

Blank (6032847-BLK1)										
										Prepared: 03/28/16 Analyzed: 03/30/16
C13-C22 (DRO)	ND	10	mg/kg							
C23-C32 (MORO)	ND	10	"							
Surrogate: <i>p</i> -Terphenyl	94.2		"	93.2		101	65-135			
LCS (6032847-BS1)										
										Prepared: 03/28/16 Analyzed: 03/30/16
C13-C28 (DRO)	490	10	mg/kg	488		101	75-125			
Surrogate: <i>p</i> -Terphenyl	101		"	97.7		103	65-135			

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Extractable Petroleum Hydrocarbons by 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032847 - EPA 3550B GC

Matrix Spike (6032847-MS1)		Source: T160598-02			Prepared: 03/28/16 Analyzed: 03/30/16					
C13-C28 (DRO)	510	10	mg/kg	475	ND	107	75-125			
Surrogate: <i>p</i> -Terphenyl	94.9		"	95.0		100	65-135			
Matrix Spike Dup (6032847-MSD1)		Source: T160598-02			Prepared: 03/28/16 Analyzed: 03/30/16					
C13-C28 (DRO)	470	10	mg/kg	477	ND	98.9	75-125	7.64	20	
Surrogate: <i>p</i> -Terphenyl	95.1		"	95.4		99.6	65-135			

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Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032820 - EPA 3051

Blank (6032820-BLK1)

Prepared & Analyzed: 03/28/16

Antimony	ND	3.0	mg/kg							
Silver	ND	2.0	"							
Arsenic	ND	5.0	"							
Barium	ND	1.0	"							
Beryllium	ND	1.0	"							
Cadmium	ND	2.0	"							
Chromium	ND	2.0	"							
Cobalt	ND	2.0	"							
Copper	ND	1.0	"							
Lead	ND	3.0	"							
Molybdenum	ND	5.0	"							
Nickel	ND	2.0	"							
Selenium	ND	5.0	"							
Thallium	ND	2.0	"							
Vanadium	ND	5.0	"							
Zinc	ND	1.0	"							

LCS (6032820-BS1)

Prepared & Analyzed: 03/28/16

Arsenic	81.0	5.0	mg/kg	100		81.0	75-125
Barium	83.0	1.0	"	100		83.0	75-125
Cadmium	83.8	2.0	"	100		83.8	75-125
Chromium	83.3	2.0	"	100		83.3	75-125
Lead	87.8	3.0	"	100		87.8	75-125

Matrix Spike (6032820-MS1)

Source: T160598-06

Prepared & Analyzed: 03/28/16

Arsenic	89.3	5.0	mg/kg	94.3	2.28	92.3	75-125
Barium	144	1.0	"	94.3	57.3	91.7	75-125
Cadmium	88.0	2.0	"	94.3	0.512	92.7	75-125
Chromium	91.5	2.0	"	94.3	10.1	86.3	75-125
Lead	92.6	3.0	"	94.3	ND	98.2	75-125

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--	---	-----------------------------

Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032820 - EPA 3051

Matrix Spike Dup (6032820-MSD1)	Source: T160598-06			Prepared & Analyzed: 03/28/16						
Arsenic	125	5.0	mg/kg	100	2.28	123	75-125	33.6	20	QR-04
Barium	203	1.0	"	100	57.3	146	75-125	34.4	20	QR-04
Cadmium	120	2.0	"	100	0.512	119	75-125	30.4	20	QR-04
Chromium	134	2.0	"	100	10.1	124	75-125	37.7	20	QR-04
Lead	128	3.0	"	100	ND	128	75-125	31.7	20	QR-04

Batch 6032846 - EPA 3051

Blank (6032846-BLK1)	Prepared: 03/28/16 Analyzed: 03/29/16									
Antimony	ND	3.0	mg/kg							
Silver	ND	2.0	"							
Arsenic	ND	5.0	"							
Barium	ND	1.0	"							
Beryllium	ND	1.0	"							
Cadmium	ND	2.0	"							
Chromium	ND	2.0	"							
Cobalt	ND	2.0	"							
Copper	ND	1.0	"							
Lead	ND	3.0	"							
Molybdenum	ND	5.0	"							
Nickel	ND	2.0	"							
Selenium	ND	5.0	"							
Thallium	ND	2.0	"							
Vanadium	ND	5.0	"							
Zinc	ND	1.0	"							

LCS (6032846-BS1)	Prepared: 03/28/16 Analyzed: 03/29/16									
Arsenic	98.6	5.0	mg/kg	100		98.6	75-125			
Barium	101	1.0	"	100		101	75-125			
Cadmium	101	2.0	"	100		101	75-125			
Chromium	101	2.0	"	100		101	75-125			
Lead	100	3.0	"	100		100	75-125			

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--	---	-----------------------------

Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032846 - EPA 3051

Matrix Spike (6032846-MS1)

Source: T160602-04

Prepared: 03/28/16 Analyzed: 03/29/16

Arsenic	76.2	5.0	mg/kg	92.6	1.56	80.6	75-125			
Barium	106	1.0	"	92.6	27.7	84.8	75-125			
Cadmium	78.6	2.0	"	92.6	ND	84.9	75-125			
Chromium	84.3	2.0	"	92.6	7.50	83.0	75-125			
Lead	78.9	3.0	"	92.6	2.70	82.3	75-125			

Matrix Spike Dup (6032846-MSD1)

Source: T160602-04

Prepared: 03/28/16 Analyzed: 03/29/16

Arsenic	85.5	5.0	mg/kg	99.0	1.56	84.8	75-125	11.5	20	
Barium	113	1.0	"	99.0	27.7	86.6	75-125	6.61	20	
Cadmium	85.5	2.0	"	99.0	ND	86.4	75-125	8.41	20	
Chromium	90.9	2.0	"	99.0	7.50	84.3	75-125	7.55	20	
Lead	86.8	3.0	"	99.0	2.70	85.0	75-125	9.52	20	

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Northgate Environmental Management -- Laguna Hills 24411 Ridge Route Drive, Suite 130 Laguna Hills CA, 92653	Project: Center Cal Project Number: 2047.06 Project Manager: Derrick Willis	Reported: 04/20/16 17:32
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Cold Vapor Extraction EPA 7470/7471 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032822 - EPA 7471A Soil

Blank (6032822-BLK1)										
Prepared & Analyzed: 03/28/16										
Mercury	ND	0.10	mg/kg							
LCS (6032822-BS1)										
Prepared & Analyzed: 03/28/16										
Mercury	0.488	0.10	mg/kg	0.417		117	75-125			
Matrix Spike (6032822-MS1)										
Source: T160598-06 Prepared & Analyzed: 03/28/16										
Mercury	0.434	0.10	mg/kg	0.391	ND	111	75-125			
Matrix Spike Dup (6032822-MSD1)										
Source: T160598-06 Prepared & Analyzed: 03/28/16										
Mercury	0.431	0.10	mg/kg	0.391	ND	110	75-125	0.594	20	

Batch 6032845 - EPA 7471A Soil

Blank (6032845-BLK1)										
Prepared: 03/28/16 Analyzed: 03/29/16										
Mercury	ND	0.10	mg/kg							
LCS (6032845-BS1)										
Prepared: 03/28/16 Analyzed: 03/29/16										
Mercury	0.433	0.10	mg/kg	0.397		109	75-125			
Matrix Spike (6032845-MS1)										
Source: T160598-02 Prepared: 03/28/16 Analyzed: 03/29/16										
Mercury	0.427	0.10	mg/kg	0.397	ND	108	75-125			
Matrix Spike Dup (6032845-MSD1)										
Source: T160598-02 Prepared: 03/28/16 Analyzed: 03/29/16										
Mercury	0.446	0.10	mg/kg	0.410	ND	109	75-125	4.38	20	

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Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Center Cal
Project Number: 2047.06
Project Manager: Derrick Willis

Reported:
04/20/16 17:32

Notes and Definitions

- S-03 The surrogate recovery was below acceptance criteria in the sample because of a possible matrix effect. The surrogate recovery was within acceptance criteria in the method blank and LCS.
- QR-04 The percent recovery and/or RPD was outside acceptance criteria. Results accepted based upon percent recovery results in duplicate QC sample and the CCV and CCB results.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

SunStar Laboratories, Inc.

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Daniel Chavez, Project Manager

Chain of Custody Record

SunStar Laboratories, Inc.
 25712 Commercentre Dr
 Lake Forest, CA 92630
 949-297-5020

Client: Northgate Environmental Management Inc
 Address: 24411 Ridge Route #130 Laguna Hills, CA
 Phone: (949) 315-7004 Fax: (949) 315-3365
 Project Manager: Derrick Willis

Date: 3-25-2016 Page: 1 Of 1
 Project Name: Center Cal
 Collector: Dana Brown/Michelle Hughes Client Project #: 2047.06
 Batch #: S T160602 EDF #: _____

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	Laboratory ID #	Comments/Preservative	Total # of containers
<u>TB-0325 2016-C</u>	<u>3-25-2016</u>	<u>17:00</u>	<u>AQ</u>	<u>V</u>	<u>H</u>									<u>01</u>		<u>2</u>
<u>B-6-1.0</u>		<u>16:32</u>	<u>SO</u>	<u>G5</u>	<u>H</u>									<u>02</u>		<u>1</u>
<u>B-6-5.0</u>		<u>16:34</u>		<u>G5+U</u>	<u>H</u>									<u>03</u>		<u>1</u>
<u>B-6-10.0</u>		<u>16:41</u>			<u>H</u>									<u>04</u>		<u>1</u>
<u>B-6-15.0</u>		<u>16:44</u>			<u>H</u>									<u>05</u>		<u>1</u>
<u>DRB</u>																
<u>3-25-2016</u>																
<u>Relinquished by: (signature) Michelle Hughes</u>																
<u>Relinquished by: (signature) Dana Brown</u>																
<u>Received by: (signature) Dana Brown</u>																
<u>Received by: (signature) Dana Brown</u>																

Chain of Custody seals Y/N NA
 Seals intact? Y/N NA
 Received good condition/cold 5.0
 Turn around time: 5-Day

Sample disposal instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

191490

CO0134868

SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: T1E0602

Client Name: NORRISGATE Project: CENTER CAL

Delivered by: Client SunStar Courier GSO FedEx Other

If Courier, Received by: _____ Date/Time Courier Received: _____

Lab Received by: Brian Date/Time Lab Received: 3-28-16 8:50

Total number of coolers received: 1

Temperature: Cooler #1	5.2 °C +/- the CF (- 0.2°C) = 5.0	°C corrected temperature
Temperature: Cooler #2	°C +/- the CF (- 0.2°C) =	°C corrected temperature
Temperature: Cooler #3	°C +/- the CF (- 0.2°C) =	°C corrected temperature
Temperature criteria = ≤ 6°C (no frozen containers)		Within criteria? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
If NO:		
Samples received on ice?	<input type="checkbox"/> Yes	<input type="checkbox"/> No → Complete Non-Conformance Sheet
If on ice, samples received same day collected?	<input type="checkbox"/> Yes → Acceptable	<input type="checkbox"/> No → Complete Non-Conformance Sheet

- Custody seals intact on cooler/sample Yes No* N/A
- Sample containers intact Yes No*
- Sample labels match Chain of Custody IDs Yes No*
- Total number of containers received match COC Yes No*
- Proper containers received for analyses requested on COC Yes No*
- Proper preservative indicated on COC/containers for analyses requested Yes No* N/A
- Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times Yes No*

* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date: BC 3-28-16

Comments:

WORK ORDER

T160602

Client: Northgate Environmental Management -- Laguna **Project Manager:** Daniel Chavez
Project: Center Cal **Project Number:** 2047.06

Report To:

Northgate Environmental Management -- Laguna Hills
Derrick Willis
24411 Ridge Route Drive, Suite 130
Laguna Hills, CA 92653

Date Due: 04/04/16 15:00 (5 day TAT)
Received By: Brian Charon Date Received: 03/28/16 08:50
Logged In By: Brian Charon Date Logged In: 03/28/16 08:56

Samples Received at: 5°C
Custody Seals No Received On Ice Yes
Containers Intact Yes
COC/Labels Agree Yes
Preservation Confin Yes

Analysis	Due	TAT	Expires	Comments
----------	-----	-----	---------	----------

T160602-01 TB-03252016-C [Water] Sampled 03/25/16 17:00 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				HOLD
---	--	--	--	-------------

T160602-02 B-7-1.0 [Soil] Sampled 03/25/16 16:32 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				HOLD
--	--	--	--	-------------

T160602-03 B-6-5.0 [Soil] Sampled 03/25/16 16:34 (GMT-08:00) Pacific Time (US &				
6010 Title 22	04/04/16 15:00	5	09/21/16 16:34	
8015 CC (D/MO)	04/04/16 15:00	5	04/08/16 16:34	
8015 m 5035-GRO	04/04/16 15:00	5	04/08/16 16:34	

T160602-04 B-6-10.0 [Soil] Sampled 03/25/16 16:41 (GMT-08:00) Pacific Time (US &				
6010 Title 22	04/04/16 15:00	5	09/21/16 16:41	
8015 CC (D/MO)	04/04/16 15:00	5	04/08/16 16:41	
8015 m 5035-GRO	04/04/16 15:00	5	04/08/16 16:41	

T160602-05 B-6-15.0 [Soil] Sampled 03/25/16 16:44 (GMT-08:00) Pacific Time (US &				
6010 Title 22	04/04/16 15:00	5	09/21/16 16:44	
8015 CC (D/MO)	04/04/16 15:00	5	04/08/16 16:44	
8015 m 5035-GRO	04/04/16 15:00	5	04/08/16 16:44	

Analysis groups included in this work order

6010 Title 22

subgroup 6010B T22 7470/71 Hg



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

05 April 2016

Derrick Willis
Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills, CA 92653
RE: Center Cal

Enclosed are the results of analyses for samples received by the laboratory on 03/29/16 09:07. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Chavez
Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Northgate Environmental Management -- Laguna Hills 24411 Ridge Route Drive, Suite 130 Laguna Hills CA, 92653	Project: Center Cal Project Number: 2047.06 Project Manager: Derrick Willis	Reported: 04/05/16 18:05
--	---	-----------------------------

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B-14-1.0	T160613-01	Soil	03/28/16 18:42	03/29/16 09:07

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Chavez, Project Manager



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Lake Forest, California 92630
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949.297.5027 Fax

Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Center Cal
Project Number: 2047.06
Project Manager: Derrick Willis

Reported:
04/05/16 18:05

DETECTIONS SUMMARY

Sample ID: B-14-1.0

Laboratory ID: T160613-01

No Results Detected

SunStar Laboratories, Inc.

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Daniel Chavez, Project Manager



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 Lake Forest, California 92630
 949.297.5020 Phone
 949.297.5027 Fax

Northgate Environmental Management -- Laguna Hills 24411 Ridge Route Drive, Suite 130 Laguna Hills CA, 92653	Project: Center Cal Project Number: 2047.06 Project Manager: Derrick Willis	Reported: 04/05/16 18:05
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B-14-1.0
T160613-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6032829	03/29/16	04/01/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		54.6 %		35-140	"	"	"	"	
Surrogate: Decachlorobiphenyl		21.2 %		35-140	"	"	"	"	S-03

SunStar Laboratories, Inc.

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Daniel Chavez, Project Manager



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 Lake Forest, California 92630
 949.297.5020 Phone
 949.297.5027 Fax

Northgate Environmental Management -- Laguna Hills
 24411 Ridge Route Drive, Suite 130
 Laguna Hills CA, 92653

Project: Center Cal
 Project Number: 2047.06
 Project Manager: Derrick Willis

Reported:
 04/05/16 18:05

Organochlorine Pesticides by EPA Method 8081A - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032829 - EPA 3550 ECD/GCMS

Blank (6032829-BLK1)

Prepared: 03/28/16 Analyzed: 04/01/16

alpha-BHC	ND	5.0	ug/kg							
gamma-BHC (Lindane)	ND	5.0	"							
beta-BHC	ND	5.0	"							
delta-BHC	ND	5.0	"							
Heptachlor	ND	5.0	"							
Aldrin	ND	5.0	"							
Heptachlor epoxide	ND	5.0	"							
gamma-Chlordane	ND	5.0	"							
alpha-Chlordane	ND	5.0	"							
Endosulfan I	ND	5.0	"							
4,4'-DDE	ND	5.0	"							
Dieldrin	ND	5.0	"							
Endrin	ND	5.0	"							
4,4'-DDD	ND	5.0	"							
Endosulfan II	ND	5.0	"							
4,4'-DDT	ND	5.0	"							
Endrin aldehyde	ND	5.0	"							
Endosulfan sulfate	ND	5.0	"							
Methoxychlor	ND	10	"							
Endrin ketone	ND	5.0	"							
Toxaphene	ND	200	"							

Surrogate: Tetrachloro-meta-xylene

6.80 " 10.0 68.0 35-140

Surrogate: Decachlorobiphenyl

6.70 " 10.0 67.0 35-140

LCS (6032829-BS1)

Prepared: 03/28/16 Analyzed: 04/01/16

gamma-BHC (Lindane)	26.7	5.0	ug/kg	39.9	66.9	40-120
Heptachlor	25.3	5.0	"	39.9	63.5	40-120
Aldrin	24.4	5.0	"	39.9	61.3	40-120
Dieldrin	25.5	5.0	"	39.9	63.8	40-120
Endrin	27.2	5.0	"	39.9	68.3	40-120
4,4'-DDT	25.4	5.0	"	39.9	63.7	33-147

Surrogate: Tetrachloro-meta-xylene

6.56 " 9.97 65.8 35-140

Surrogate: Decachlorobiphenyl

6.78 " 9.97 68.0 35-140

SunStar Laboratories, Inc.

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Daniel Chavez, Project Manager



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 Lake Forest, California 92630
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 949.297.5027 Fax

Northgate Environmental Management -- Laguna Hills 24411 Ridge Route Drive, Suite 130 Laguna Hills CA, 92653	Project: Center Cal Project Number: 2047.06 Project Manager: Derrick Willis	Reported: 04/05/16 18:05
--	---	-----------------------------

Organochlorine Pesticides by EPA Method 8081A - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6032829 - EPA 3550 ECD/GCMS

Matrix Spike (6032829-MS1)		Source: T160598-06			Prepared: 03/28/16 Analyzed: 04/01/16					
gamma-BHC (Lindane)	23.6	5.0	ug/kg	39.6	ND	59.6	30-120			
Heptachlor	25.7	5.0	"	39.6	ND	64.8	30-120			
Aldrin	21.8	5.0	"	39.6	ND	55.2	30-120			
Dieldrin	23.5	5.0	"	39.6	ND	59.4	30-120			
Endrin	26.8	5.0	"	39.6	ND	67.7	30-120			
4,4'-DDT	27.9	5.0	"	39.6	ND	70.5	30-120			
Surrogate: Tetrachloro-meta-xylene	5.45		"	9.89		55.1	35-140			
Surrogate: Decachlorobiphenyl	5.24		"	9.89		53.0	35-140			

Matrix Spike Dup (6032829-MSD1)		Source: T160598-06			Prepared: 03/28/16 Analyzed: 04/01/16					
gamma-BHC (Lindane)	23.3	5.0	ug/kg	39.7	ND	58.6	30-120	1.66	30	
Heptachlor	37.2	5.0	"	39.7	ND	93.7	30-120	36.4	30	QM-07
Aldrin	20.9	5.0	"	39.7	ND	52.6	30-120	4.82	30	
Dieldrin	21.8	5.0	"	39.7	ND	54.8	30-120	7.98	30	
Endrin	26.6	5.0	"	39.7	ND	67.0	30-120	1.09	30	
4,4'-DDT	24.6	5.0	"	39.7	ND	62.0	30-120	12.8	30	
Surrogate: Tetrachloro-meta-xylene	5.37		"	9.92		54.1	35-140			
Surrogate: Decachlorobiphenyl	4.14		"	9.92		41.7	35-140			

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Chavez, Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Northgate Environmental Management -- Laguna Hills
24411 Ridge Route Drive, Suite 130
Laguna Hills CA, 92653

Project: Center Cal
Project Number: 2047.06
Project Manager: Derrick Willis

Reported:
04/05/16 18:05

Notes and Definitions

- S-03 The surrogate recovery was below acceptance criteria in the sample because of a possible matrix effect. The surrogate recovery was within acceptance criteria in the method blank and LCS.
- QM-07 The spike recovery and or RPD was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Chavez, Project Manager

Chain of Custody Record

SunStar Laboratories, Inc.
 25712 Commercentre Dr
 Lake Forest, CA 92630
 949-297-5020

Client: Northgate Environmental
 Address: 24411 Ridge Pkwy #130, Laguna Hills, CA
 Phone: (949) 375-7004 Fax: (949) 315-3365
 Project Manager: Derrick Willis

Date: 3-28-2016 Page: 1 Of 1
 Project Name: Carter Cal
 Collector: Dana R Brown Client Project #: 2047.06
 Batch #: T160613 EDF #: _____

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	8081 A OCPs	Laboratory ID #	Comments/Preservative	Total # of containers
<u>B-14-1.0</u>	<u>3-28-16</u>	<u>18:42</u>	<u>SO</u>	<u>GT</u>											<u>01</u>		<u>1</u>
<u>DNB</u>																	
<u>3-28-2016</u>																	
<u>Relinquished by: (signature) _____ Date / Time _____</u>																	
<u>Received by: (signature) _____ Date / Time _____</u>																	
<u>Relinquished by: (signature) _____ Date / Time _____</u>																	
<u>Received by: (signature) _____ Date / Time _____</u>																	
<u>Relinquished by: (signature) _____ Date / Time _____</u>																	
<u>Received by: (signature) _____ Date / Time _____</u>																	
<u>Turn around time: <u>5-Day</u></u>																	
Total # of containers: <u>1</u> Chain of Custody seals: <u>Y/N/A</u> Seals intact? <u>Y/N/A</u> Received good condition/cold: <u>0.6</u>																	
Notes: <u>SO = Soil</u> <u>GT = Glass Jar</u> <u>A = Analyze</u>																	

Sample disposal instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

COC134870

SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: T160613

Client Name: Northgate Environmental Project: Center Cal

Delivered by: Client SunStar Courier GSO FedEx Other

If Courier, Received by: Kyler Date/Time Courier Received: 3/29/16 9:07

Lab Received by: _____ Date/Time Lab Received: _____

Total number of coolers received: 1

Temperature: Cooler #1 <u>0.8</u> °C +/- the CF (- 0.2°C) = <u>0.6</u> °C corrected temperature	
Temperature: Cooler #2 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature	
Temperature: Cooler #3 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature	
Temperature criteria = ≤ 6°C (no frozen containers)	Within criteria? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
If NO:	
Samples received on ice? <input type="checkbox"/> Yes	<input type="checkbox"/> No → Complete Non-Conformance Sheet
If on ice, samples received same day collected? <input type="checkbox"/> Yes → Acceptable	<input type="checkbox"/> No → Complete Non-Conformance Sheet

Custody seals intact on cooler/sample Yes No* N/A

Sample containers intact Yes No*

Sample labels match Chain of Custody IDs Yes No*

Total number of containers received match COC Yes No*

Proper containers received for analyses requested on COC Yes No*

Proper preservative indicated on COC/containers for analyses requested Yes No* N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times Yes No*

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date: JKM 3/29/16

Comments:

WORK ORDER

T160613

Client: Northgate Environmental Management -- Laguna **Project Manager:** Daniel Chavez
Project: Center Cal **Project Number:** 2047.06

Report To:
 Northgate Environmental Management -- Laguna Hills
 Derrick Willis
 24411 Ridge Route Drive, Suite 130
 Laguna Hills, CA 92653

Date Due: 04/05/16 15:00 (5 day TAT)
Received By: Kyler Mondello **Date Received:** 03/29/16 09:07
Logged In By: Kyler Mondello **Date Logged In:** 03/29/16 10:00

Samples Received at: 0.6°C
Custody Seals: No **Received On Ice:** Yes
Containers Intact: Yes
COC/Labels Agree: Yes
Preservation Confirmed: No

Analysis	Due	TAT	Expires	Comments
T160613-01 B-14-1.0 [Soil] Sampled 03/28/16 18:42 (GMT-08:00) Pacific Time (US &				
8081 Pesticides	04/05/16 15:00	5	04/11/16 18:42	

Certificate of Analysis
PLM Asbestos Identification

tel - 714-899-8900
 free - 888-743-0998
 fax - 714-899-7098
 www.patriotlab.com

1041 S. Placentia Avenue, Fullerton, CA 92831



Northgate Environmental Management
 Derrick Willis
 24411 Ridge Route Drive #130
 Laguna Woods, CA 92653

Report Number: 604833
 Project Number: 2047.06
 Project Name: CenterCal
 Project Location:

Date Collected: 3/23/2016
 Date Received: 3/28/2016
 Date Analyzed: 4/1/2016
 Date Reported: 4/1/2016

Collected By: Dana Brown Michelle Hughson
 Claim Number:
 PO Number:
 Number of Samples: 9

Lab/Client ID/Layer	Location	Material Description	Color	Composition (%)
604833-001 B-9-1-0	NA	NA		
Total Asbestos	None Detected			
604833-002 B-10-1-0	NA	NA		
Total Asbestos	None Detected			
604833-003 B-11-1-0	NA	NA		
Total Asbestos	None Detected			
604833-004 B-12-1-0	NA	NA		
Total Asbestos	None Detected			
604833-005 B-13-1-0	NA	NA		
Total Asbestos	None Detected			
604833-006 B-14-1-0	NA	NA		
Total Asbestos	None Detected			

Certificate of Analysis
PLM Asbestos Identification

tel - 714-899-8900
 free - 888-743-0998
 fax - 714-899-7098
 www.patriotlab.com

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Northgate Environmental Management
 Derrick Willis
 24411 Ridge Route Drive #130
 Laguna Woods, CA 92653

Report Number: 604833
 Project Number: 2047.06
 Project Name: CenterCal
 Project Location:

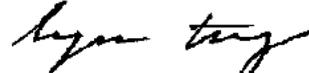
Date Collected: 3/23/2016
 Date Received: 3/28/2016
 Date Analyzed: 4/1/2016
 Date Reported: 4/1/2016

Collected By: Dana Brown Michelle Hughson
 Claim Number:
 PO Number:
 Number of Samples: 9

Lab/Client ID/Layer	Location	Material Description	Color	Composition (%)
604833-007 B-15-1-0	NA	NA		
Total Asbestos	None Detected			
604833-008 B-16-1-0	NA	NA		
Total Asbestos	None Detected			
604833-009 B-1-17-0	NA	NA		
Total Asbestos	None Detected			

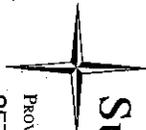


Raul Lanuza - Analyst



Lyn Terry - Approved By

Bulk sample(s) submitted was (were) analyzed in accordance with the procedure outlined in the US Federal Register 40 CFR 763, Subpart F, Appendix A; EPA-600/R-93/116 (Method for Determination of Asbestos in Building Materials), and EPA-600/M4-82-020 (US EPA Interim Method for the Determination of Asbestos in Bulk Insulation Samples). Samples were analyzed using Calibrated Visual Estimations (CVES); therefore, results may not be reliable for samples of low asbestos concentration levels. Samples of wall systems containing discrete and separable layers are analyzed separately and reported as composite unless specifically requested by the customer to report analytical results for individual layers. This report applies only to the items tested. Results are representative of the samples submitted and may not represent the entire material from which the samples were collected. "None Detected" means that no asbestos was observed in the sample. "<1%" (less than one percent) means that asbestos was observed in the sample but the concentration is below the quantifiable level of 1%. This report was issued by a NIST/NVLAP (Lab Code 200358-0) and CADOHS- ELAP (Cert. No. 2540) accredited laboratory and may not be reproduced, except in full without the expressed written consent of Patriot Environmental Laboratory Services, Inc. This report may not be used to claim product certification, approval or endorsement by NIST, NVLAP, ELAP or any government agency.



SunStar Laboratories, Inc.
 PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE
 25712 Commcentre Drive, Lake Forest, CA 92630
 949-297-5020

Chain of Custody Record

004833

Client: Northgate Environmental
 Address: 24411 Ridge Route #130 Laguna Hills CA
 Phone: (949) 375-7004 Fax: (949) 315-3365
 Project Manager: Derrick Willis

Date: 3-25-2016 Page: 1 of 1
 Project Name: CenterCal
 Collector: Dana Brown/Michelle Client Project #: 2047.06
 Batch #: 1 Atyhasan EDF #: ---

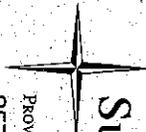
4/1
5/3

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	Asbestos by PLM	Laboratory ID #	Comments/Preservative	Total # of containers
B-9-1.0	3-23-16	12:40	SO	PB													Analyze - 5 day turn	1
B-10-1.0	3-25-16	12:53																1
B-11-1.0	3-25-16	12:03																1
B-12-1.0	3-25-16	09:25																1
B-13-1.0	3-24-16	10:40																1
B-14-1.0	3-25-16	07:30																1
B-15-1.0	3-24-16	15:47																1
B-16-1.0	3-24-16	16:47																1
B-17-1.0	3-25-16	13:50																1
<p>0285 3-28-2016</p>																		
<p>Relinquished by: (signature) <u>Dana R Brown</u> Date / Time <u>3-28-2016 07:31</u></p> <p>Received by: (signature) <u>Wendy L. Fox</u> Date / Time <u>3-28-16 / 5:00am</u></p> <p>Relinquished by: (signature) _____ Date / Time _____</p> <p>Received by: (signature) _____ Date / Time _____</p> <p>Turn around time: <u>5-Day</u></p> <p>Notes: SO = Soil PB = Plastic Bag A = Analyze H = Hold for Instructions</p>																		

Sample disposal instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

191466

COC 142933



SunStar
Laboratories, Inc.

PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE
25712 Commercentre Drive, Lake Forest, CA 92630
949-297-5020

604833
Chain of Custody Record

Client: Northgate Environmental
Address: 24471 Ridge Route #130, Laguna Hills, CA
Phone: (949) 375-7004 Fax: (949) 315-3365
Project Manager: Derrick Willis

6048 Date: 3-25-2016 Page: 1 Of 1
Project Name: CenterCal
Collector: Dana Brown/Michelle Hugus Client Project #: 2047.06
Batch #: 1 EDF #: ---

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	Laboratory ID #	Comments/Preservative	Total # of containers
B-9-1.0	3-23-16	12:40	SO	PB													
B-10-1.0	3-25-16	12:53															
B-11-1.0	3-25-16	12:03															
B-12-1.0	3-25-16	09:25															
B-13-1.0	3-24-16	10:40															
B-14-1.0	3-25-16	07:30															
B-15-1.0	3-24-16	15:47															
B-16-1.0	3-24-16	16:47															
B-17-1.0	3-25-16	13:50															
Asbestos by PLM																	
Hold for INSTRUCTIONS																	
DB Total # of containers 9																	
Chain of Custody seals Y/N/N/A Seals intact? Y/N/N/A Received good condition/cold																	
Turn around time: 5-Day																	

Relinquished by: (signature) Dana Brown Date / Time 3-28-2016 07:34
Relinquished by: (signature) Christ L. ... Date / Time 3-28-16/8:00am
Relinquished by: (signature) _____ Date / Time _____
Received by: (signature) _____ Date / Time _____
Received by: (signature) _____ Date / Time _____
Sample disposal instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____
191466
COC 142933

Notes
SO = Soil
PB = Plastic Bag
A = Analyze
H = Hold for INSTRUCTIONS



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805-399-0060

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**JONES ENVIRONMENTAL
LABORATORY RESULTS**

Client: Northgate Environmental Management
Client Address: 24411 Ridge Route Drive, Suite 130
Laguna Hills, CA 92653

Report date: 3/24/2016
JEL Ref. No.: E-0510
Client Ref. No.: 2047.06

Attn: Derrick Willis

Date Sampled: 3/24/2016
Date Received: 3/24/2016
Date Analyzed: 3/24-?/2016

Project Address: 6400 Pacific Coast Hwy
Long Beach, CA

Physical State: Soil Gas & Water

ANALYSES REQUESTED

1. EPA 8260B – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics (C4-C12)

Sampling – Soil Gas samples were collected in glass gas-tight syringes equipped with Teflon plungers.

A tracer gas mixture of n-propanol and n-pentane was placed at the tubing-surface interface before sampling. These compounds were analyzed during the 8260B analytical run to determine if there were surface leaks into the subsurface due to improper installation of the probe. No n-propanol or n-pentane was found in any of the samples reported herein.

The sampling rate was approximately 200 cc/min, except if noted differently on the chain of custody record, using a glass gas-tight syringe. Purging was completed using a pump set at approximately 200 cc/min, except if noted differently on the chain of custody record. A default of 3 purge volumes was used as recommended by July 2015 DTSC/RWQCB guidance documents.

Prior to purging and sampling of soil gas at each point, a shut-in test was conducted to check for leaks in the above ground fittings. The shut-in test was performed on the above ground apparatus by evacuating the line to a vacuum of 100 inches of water, sealing the entire system and watching the vacuum for at least one minute. A vacuum gauge attached in parallel to the apparatus measured the vacuum. If there was any observable loss of vacuum, the fittings were adjusted as needed until the vacuum did not change noticeably. The soil gas sample was then taken.

No flow conditions occur when a sampling rate greater than 10 mL/min cannot be maintained without applying a vacuum greater than 100 inches of water to the sampling train. The sampling train is left at a vacuum for no less than three minutes. If the vacuum does not subside appreciably after three minutes, the sample location is determined to be a no flow sample.

Analytical – Soil Gas samples were analyzed using EPA Method 8260B that includes extra compounds required by DTSC/RWQCB (such as Freon 113). Instrument Continuing Calibration Verification, QC Reference Standards, Instrument Blanks and Sampling Blanks were analyzed every 12 hours as prescribed by the method. In addition, a Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were analyzed with each batch of Soil Gas samples. A duplicate/replicate sample was analyzed each day of the sampling activity. All samples were injected into the GC/MS system within 30 minutes of sampling.

2. EPA 8260B by 5030B – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics (C4-C12)

Approval:

Steve Jones, Ph.D.
Laboratory Manager



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JONES ENVIRONMENTAL LABORATORY RESULTS

Client: Northgate Environmental Management
Client Address: 24411 Ridge Route Drive, Suite 130
 Laguna Hills, CA 92653

Report date: 3/24/2016
JEL Ref. No.: E-0510
Client Ref. No.: 2047.06

Attn: Derrick Willis

Date Sampled: 3/24/2016
Date Received: 3/24/2016
Date Analyzed: 3/24/2016

Project Address: 6400 Pacific Coast Hwy
 Long Beach, CA

Physical State: Soil Gas

EPA 8260B-Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

<u>Sample ID:</u>	SV2-4.5	SV1-4	SV5-4	SV6-4.5	SV7-4.5		
<u>JEL ID:</u>	E-0510-01	E-0510-02	E-0510-05	E-0510-06	E-0510-07	<u>Practical</u>	<u>Units</u>
<u>Analytes:</u>						<u>Limit</u>	
Benzene	0.054	0.067	0.009	ND	0.013	0.008	µg/L
Bromobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Bromodichloromethane	ND	ND	ND	ND	ND	0.008	µg/L
Bromoform	ND	ND	ND	ND	ND	0.008	µg/L
n-Butylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
sec-Butylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
tert-Butylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Carbon tetrachloride	ND	ND	ND	ND	ND	0.008	µg/L
Chlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Chloroform	0.013	ND	ND	ND	ND	0.008	µg/L
2-Chlorotoluene	ND	ND	ND	ND	ND	0.008	µg/L
4-Chlorotoluene	ND	ND	ND	ND	ND	0.008	µg/L
Dibromochloromethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	0.008	µg/L
Dibromomethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Dichlorodifluoromethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,3-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
2,2-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B-Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

<u>Sample ID:</u>	SV2-4.5	SV1-4	SV5-4	SV6-4.5	SV7-4.5		
<u>JEL ID:</u>	E-0510-01	E-0510-02	E-0510-05	E-0510-06	E-0510-07	<u>Practical</u> <u>Quantitation</u>	<u>Units</u>
<u>Analytes:</u>						<u>Limit</u>	
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L
Ethylbenzene	0.034	ND	ND	ND	ND	0.008	µg/L
Freon 113	ND	ND	ND	ND	ND	0.040	µg/L
Hexachlorobutadiene	ND	ND	ND	ND	ND	0.008	µg/L
Isopropylbenzene	0.155	ND	ND	ND	ND	0.008	µg/L
4-Isopropyltoluene	ND	ND	ND	ND	ND	0.008	µg/L
Methylene chloride	ND	ND	ND	ND	ND	0.008	µg/L
Naphthalene	0.017	ND	ND	ND	ND	0.008	µg/L
n-Propylbenzene	0.025	ND	ND	ND	ND	0.008	µg/L
Styrene	ND	0.025	0.024	ND	ND	0.008	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.008	µg/L
Tetrachloroethylene	ND	0.128	0.025	0.126	0.051	0.008	µg/L
Toluene	0.316	0.345	0.073	0.020	0.098	0.008	µg/L
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,1,1-Trichloroethane	0.024	0.031	0.026	ND	0.019	0.008	µg/L
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
Trichloroethylene	0.022	0.028	ND	0.016	0.013	0.008	µg/L
Trichlorofluoromethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,2,4-Trimethylbenzene	0.037	ND	ND	ND	ND	0.008	µg/L
1,3,5-Trimethylbenzene	0.016	ND	ND	ND	ND	0.008	µg/L
Vinyl chloride	ND	ND	ND	ND	ND	0.008	µg/L
Xylenes	0.240	0.058	ND	ND	ND	0.008	µg/L
MTBE	ND	ND	ND	ND	ND	0.040	µg/L
Ethyl-tert-butylether	ND	ND	ND	ND	ND	0.040	µg/L
Di-isopropylether	ND	ND	ND	ND	ND	0.040	µg/L
tert-amylmethylether	ND	ND	ND	ND	ND	0.040	µg/L
tert-Butylalcohol	ND	ND	ND	ND	ND	0.400	µg/L
Gasoline Range Organics (C4-C12)	46.1	7.58	6.28	4.03	8.51	2.00	µg/L
<u>TIC:</u>							
n-propanol	ND	ND	ND	ND	ND	0.080	µg/L
n-pentane	ND	ND	ND	ND	ND	0.008	µg/L
<u>Dilution Factor</u>	1	1	1	1	1		
<u>Surrogate Recoveries:</u>						<u>QC Limits</u>	
Dibromofluoromethane	99%	102%	103%	104%	102%	60 - 140	
Toluene-d ₈	101%	101%	99%	100%	99%	60 - 140	
4-Bromofluorobenzene	104%	97%	96%	96%	9%	60 - 140	
	E1-032416- E-0510	E1-032416- E-0510	E1-032416- E-0510	E1-032416- E-0510	E1-032416- E-0510		

ND= Not Detected



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JONES ENVIRONMENTAL LABORATORY RESULTS

Client: Northgate Environmental Management
Client Address: 24411 Ridge Route Drive, Suite 130
Laguna Hills, CA 92653

Report date: 3/24/2016
JEL Ref. No.: E-0510
Client Ref. No.: 2047.06

Attn: Derrick Willis

Date Sampled: 3/24/2016
Date Received: 3/24/2016
Date Analyzed: 3/24/2016

Project Address: 6400 Pacific Coast Hwy
Long Beach, CA

Physical State: Soil Gas

EPA 8260B-Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

<u>Sample ID:</u>	SV11-4.5	SV10-4.5	SV12-4.5	SV12-4.5 REP	SV9-4.5	<u>Practical Quantitation</u>	<u>Units</u>
<u>JEL ID:</u>	E-0510-08	E-0510-09	E-0510-10	E-0510-11	E-0510-12	<u>Limit</u>	
Analytes:							
Benzene	13.0	0.129	432	426	ND	0.008	µg/L
Bromobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Bromodichloromethane	ND	ND	ND	ND	ND	0.008	µg/L
Bromoform	ND	ND	ND	ND	ND	0.008	µg/L
n-Butylbenzene	ND	0.028	62.2	63.2	ND	0.008	µg/L
sec-Butylbenzene	ND	ND	13.8	12.6	ND	0.008	µg/L
tert-Butylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Carbon tetrachloride	ND	ND	ND	ND	ND	0.008	µg/L
Chlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Chloroform	ND	ND	ND	ND	ND	0.008	µg/L
2-Chlorotoluene	ND	ND	ND	ND	ND	0.008	µg/L
4-Chlorotoluene	ND	ND	ND	ND	ND	0.008	µg/L
Dibromochloromethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	0.008	µg/L
Dibromomethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Dichlorodifluoromethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,3-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
2,2-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B-Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

<u>Sample ID:</u>	SV11-4.5	SV10-4.5	SV12-4.5	SV12-4.5 REP	SV9-4.5		
<u>JEL ID:</u>	E-0510-08	E-0510-09	E-0510-10	E-0510-11	E-0510-12	<u>Practical Quantitation</u>	<u>Units</u>
<u>Analytes:</u>						<u>Limit</u>	
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L
Ethylbenzene	ND	1.34	980	946	0.073	0.008	µg/L
Freon 113	ND	ND	ND	ND	ND	0.040	µg/L
Hexachlorobutadiene	ND	ND	ND	ND	ND	0.008	µg/L
Isopropylbenzene	ND	0.077	88.7	85.8	0.012	0.008	µg/L
4-Isopropyltoluene	ND	ND	27.1	24.9	ND	0.008	µg/L
Methylene chloride	ND	ND	ND	ND	ND	0.008	µg/L
Naphthalene	ND	0.184	27.4	29.6	0.018	0.008	µg/L
n-Propylbenzene	ND	0.403	233	217	0.013	0.008	µg/L
Styrene	ND	ND	ND	ND	0.028	0.008	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.008	µg/L
Tetrachloroethylene	ND	ND	ND	ND	0.032	0.008	µg/L
Toluene	ND	1.32	1480	1460	0.093	0.008	µg/L
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
Trichloroethylene	ND	ND	ND	ND	0.012	0.008	µg/L
Trichlorofluoromethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,2,4-Trimethylbenzene	ND	2.34	803	762	0.050	0.008	µg/L
1,3,5-Trimethylbenzene	ND	0.739	335	314	ND	0.008	µg/L
Vinyl chloride	ND	ND	ND	ND	ND	0.008	µg/L
Xylenes	ND	9.24	3930	3820	0.434	0.008	µg/L
MTBE	ND	ND	ND	ND	ND	0.040	µg/L
Ethyl-tert-butylether	ND	ND	ND	ND	ND	0.040	µg/L
Di-isopropylether	ND	ND	ND	ND	ND	0.040	µg/L
tert-amylmethylether	ND	ND	ND	ND	ND	0.040	µg/L
tert-Butylalcohol	ND	ND	ND	ND	ND	0.400	µg/L
Gasoline Range Organics (C4-C12)	3370	28.3	9190	9690	8.20	2.00	µg/L
<u>TIC:</u>							
n-propanol	ND	ND	ND	ND	ND	0.080	µg/L
n-pentane	ND	ND	ND	ND	ND	0.008	µg/L
<u>Dilution Factor</u>	25	5	250	250	1		
<u>Surrogate Recoveries:</u>						<u>QC Limits</u>	
Dibromofluoromethane	98%	102%	64%	63%	100%	60 - 140	
Toluene-d ₈	92%	93%	98%	100%	98%	60 - 140	
4-Bromofluorobenzene	89%	93%	93%	91%	94%	60 - 140	
	E1-032416- E-0510	E1-032416- E-0510	E1-032416- E-0510	E1-032416- E-0510	E1-032416- E-0510		

ND= Not Detected



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JONES ENVIRONMENTAL LABORATORY RESULTS

Client: Northgate Environmental Management
Client Address: 24411 Ridge Route Drive, Suite 130
Laguna Hills, CA 92653

Report date: 3/24/2016
JEL Ref. No.: E-0510
Client Ref. No.: 2047.06

Attn: Derrick Willis

Date Sampled: 3/24/2016
Date Received: 3/24/2016
Date Analyzed: 3/24/2016

Project Address: 6400 Pacific Coast Hwy
Long Beach, CA

Physical State: Soil Gas

EPA 8260B-Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample ID: SV8-4.5

JEL ID: E-0510-13

Analytes:		Practical	Units
		Quantitation	
		Limit	
Benzene	ND	0.008	µg/L
Bromobenzene	ND	0.008	µg/L
Bromodichloromethane	ND	0.008	µg/L
Bromoform	ND	0.008	µg/L
n-Butylbenzene	ND	0.008	µg/L
sec-Butylbenzene	ND	0.008	µg/L
tert-Butylbenzene	ND	0.008	µg/L
Carbon tetrachloride	ND	0.008	µg/L
Chlorobenzene	ND	0.008	µg/L
Chloroform	ND	0.008	µg/L
2-Chlorotoluene	ND	0.008	µg/L
4-Chlorotoluene	ND	0.008	µg/L
Dibromochloromethane	ND	0.008	µg/L
1,2-Dibromo-3-chloropropane	ND	0.008	µg/L
1,2-Dibromoethane (EDB)	ND	0.008	µg/L
Dibromomethane	ND	0.008	µg/L
1,2- Dichlorobenzene	ND	0.008	µg/L
1,3-Dichlorobenzene	ND	0.008	µg/L
1,4-Dichlorobenzene	ND	0.008	µg/L
Dichlorodifluoromethane	ND	0.008	µg/L
1,1-Dichloroethane	ND	0.008	µg/L
1,2-Dichloroethane	ND	0.008	µg/L
1,1-Dichloroethene	ND	0.008	µg/L
cis-1,2-Dichloroethene	ND	0.008	µg/L
trans-1,2-Dichloroethene	ND	0.008	µg/L
1,2-Dichloropropane	ND	0.008	µg/L
1,3-Dichloropropane	ND	0.008	µg/L
2,2-Dichloropropane	ND	0.008	µg/L
1,1-Dichloropropene	ND	0.008	µg/L

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B-Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample ID: SV8-4.5

JEL ID: E-0510-13

Analytes:		Practical	Units
		Quantitation	
		Limit	
cis-1,3-Dichloropropene	ND	0.008	µg/L
trans-1,3-Dichloropropene	ND	0.008	µg/L
Ethylbenzene	0.241	0.008	µg/L
Freon 113	ND	0.040	µg/L
Hexachlorobutadiene	ND	0.008	µg/L
Isopropylbenzene	ND	0.008	µg/L
4-Isopropyltoluene	ND	0.008	µg/L
Methylene chloride	ND	0.008	µg/L
Naphthalene	ND	0.008	µg/L
n-Propylbenzene	ND	0.008	µg/L
Styrene	ND	0.008	µg/L
1,1,1,2-Tetrachloroethane	ND	0.008	µg/L
1,1,2,2-Tetrachloroethane	ND	0.008	µg/L
Tetrachloroethylene	0.128	0.008	µg/L
Toluene	0.462	0.008	µg/L
1,2,3-Trichlorobenzene	ND	0.008	µg/L
1,2,4-Trichlorobenzene	ND	0.008	µg/L
1,1,1-Trichloroethane	ND	0.008	µg/L
1,1,2-Trichloroethane	ND	0.008	µg/L
Trichloroethylene	ND	0.008	µg/L
Trichlorofluoromethane	ND	0.008	µg/L
1,2,3-Trichloropropane	ND	0.008	µg/L
1,2,4-Trimethylbenzene	0.436	0.008	µg/L
1,3,5-Trimethylbenzene	0.025	0.008	µg/L
Vinyl chloride	ND	0.008	µg/L
Xylenes	2.16	0.008	µg/L
MTBE	ND	0.040	µg/L
Ethyl-tert-butylether	ND	0.040	µg/L
Di-isopropylether	ND	0.040	µg/L
tert-amylmethylether	ND	0.040	µg/L
tert-Butylalcohol	ND	0.400	µg/L
Gasoline Range Organics (C4-C12)	13.2	2.00	µg/L

TIC:			
n-propanol	ND	0.080	µg/L
n-pentane	ND	0.008	µg/L

Dilution Factor 9

Surrogate Recoveries:		QC Limits
Dibromofluoromethane	104%	60 - 140
Toluene-d ₈	93%	60 - 140
4-Bromofluorobenzene	99%	60 - 140

E1-032416-
E-0510

ND= Not Detected



714-449-9937
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805-399-0060

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client: Northgate Environmental Management
Client Address: 24411 Ridge Route Drive, Suite 130
Laguna Hills, CA 92653

Report date: 3/24/2016
JEL Ref. No.: E-0510
Client Ref. No.: 2047.06

Attn: Derrick Willis

Date Sampled: 3/24/2016
Date Received: 3/24/2016
Date Analyzed: 3/24/2016

Project Address: 6400 Pacific Coast Hwy
Long Beach, CA

Physical State: Soil Gas

EPA 8260B-Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

<u>Sample ID:</u>	METHOD BLANK	SAMPLING BLANK	<u>Practical</u> <u>Quantitation</u> <u>Limit</u>	<u>Units</u>
<u>JEL ID:</u>	E-0510-21	E-0510-22		
Analytes:				
Benzene	ND	ND	0.008	µg/L
Bromobenzene	ND	ND	0.008	µg/L
Bromodichloromethane	ND	ND	0.008	µg/L
Bromoform	ND	ND	0.008	µg/L
n-Butylbenzene	ND	ND	0.008	µg/L
sec-Butylbenzene	ND	ND	0.008	µg/L
tert-Butylbenzene	ND	ND	0.008	µg/L
Carbon tetrachloride	ND	ND	0.008	µg/L
Chlorobenzene	ND	ND	0.008	µg/L
Chloroform	ND	ND	0.008	µg/L
2-Chlorotoluene	ND	ND	0.008	µg/L
4-Chlorotoluene	ND	ND	0.008	µg/L
Dibromochloromethane	ND	ND	0.008	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	0.008	µg/L
1,2-Dibromoethane (EDB)	ND	ND	0.008	µg/L
Dibromomethane	ND	ND	0.008	µg/L
1,2- Dichlorobenzene	ND	ND	0.008	µg/L
1,3-Dichlorobenzene	ND	ND	0.008	µg/L
1,4-Dichlorobenzene	ND	ND	0.008	µg/L
Dichlorodifluoromethane	ND	ND	0.008	µg/L
1,1-Dichloroethane	ND	ND	0.008	µg/L
1,2-Dichloroethane	ND	ND	0.008	µg/L
1,1-Dichloroethene	ND	ND	0.008	µg/L
cis-1,2-Dichloroethene	ND	ND	0.008	µg/L
trans-1,2-Dichloroethene	ND	ND	0.008	µg/L
1,2-Dichloropropane	ND	ND	0.008	µg/L
1,3-Dichloropropane	ND	ND	0.008	µg/L
2,2-Dichloropropane	ND	ND	0.008	µg/L
1,1-Dichloropropene	ND	ND	0.008	µg/L

JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

EPA 8260B-Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

<u>Sample ID:</u>	METHOD BLANK	SAMPLING BLANK		
<u>JEL ID:</u>	E-0510-21	E-0510-22	<u>Practical Quantitation Limit</u>	<u>Units</u>
Analytes:				
cis-1,3-Dichloropropene	ND	ND	0.008	µg/L
trans-1,3-Dichloropropene	ND	ND	0.008	µg/L
Ethylbenzene	ND	ND	0.008	µg/L
Freon 113	ND	ND	0.040	µg/L
Hexachlorobutadiene	ND	ND	0.008	µg/L
Isopropylbenzene	ND	ND	0.008	µg/L
4-Isopropyltoluene	ND	ND	0.008	µg/L
Methylene chloride	ND	ND	0.008	µg/L
Naphthalene	ND	ND	0.008	µg/L
n-Propylbenzene	ND	ND	0.008	µg/L
Styrene	ND	ND	0.008	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	0.008	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	0.008	µg/L
Tetrachloroethylene	ND	ND	0.008	µg/L
Toluene	ND	ND	0.008	µg/L
1,2,3-Trichlorobenzene	ND	ND	0.008	µg/L
1,2,4-Trichlorobenzene	ND	ND	0.008	µg/L
1,1,1-Trichloroethane	ND	ND	0.008	µg/L
1,1,2-Trichloroethane	ND	ND	0.008	µg/L
Trichloroethylene	ND	ND	0.008	µg/L
Trichlorofluoromethane	ND	ND	0.008	µg/L
1,2,3-Trichloropropane	ND	ND	0.008	µg/L
1,2,4-Trimethylbenzene	ND	ND	0.008	µg/L
1,3,5-Trimethylbenzene	ND	ND	0.008	µg/L
Vinyl chloride	ND	ND	0.008	µg/L
Xylenes	ND	ND	0.008	µg/L
MTBE	ND	ND	0.040	µg/L
Ethyl-tert-butylether	ND	ND	0.040	µg/L
Di-isopropylether	ND	ND	0.040	µg/L
tert-amylmethylether	ND	ND	0.040	µg/L
tert-Butylalcohol	ND	ND	0.400	µg/L
Gasoline Range Organics (C4-C12)	ND	ND	2.00	µg/L
TIC:				
n-propanol	ND	ND	0.080	µg/L
n-pentane	ND	ND	0.008	µg/L
<u>Dilution Factor</u>	1	1		
<u>Surrogate Recoveries:</u>				
Dibromofluoromethane	108%	105%	<u>QC Limits</u>	60 - 140
Toluene-d ₈	97%	102%		60 - 140
4-Bromofluorobenzene	84%	95%		60 - 140
	E1-032416- E-0510	E1-032416- E-0510		

ND= Not Detected



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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Northgate Environmental Management	Report date:	3/24/2016
Client Address:	24411 Ridge Route Drive, Suite 130 Laguna Hills, CA 92653	JEL Ref. No.:	E-0510
		Client Ref. No.:	2047.06
Attn:	Derrick Willis	Date Sampled:	3/24/2016
		Date Received:	3/24/2016
		Date Analyzed:	3/24/2016
Project Address:	6400 Pacific Coast Hwy Long Beach, CA	Physical State:	Soil Gas

EPA 8260B-Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Batch ID:	E1-032416-E-0510					
JEL ID:	E-0510-19	E-0510-20			E-0510-18	
<u>Parameter</u>	LCS Recovery (%)	LCSD Recovery (%)	<u>RPD</u>	Acceptability Range (%)	<u>CCV</u>	Acceptability Range (%)
Vinyl Chloride	97%	101%	3.4%	70-130	90%	80-120
1,1-Dichloroethylene	102%	100%	1.6%	70-130	94%	80-120
Cis-1,2-Dichloroethene	102%	103%	1.4%	70-130	94%	80-120
1,1,1-Trichloroethane	106%	105%	1.6%	70-130	93%	80-120
Benzene	110%	111%	0.8%	70-130	101%	80-120
Trichloroethylene	106%	107%	0.5%	70-130	95%	80-120
Toluene	114%	108%	5.9%	70-130	103%	80-120
Tetrachloroethene	112%	106%	5.2%	70-130	97%	80-120
Chlorobenzene	108%	104%	4.3%	70-130	97%	80-120
Ethylbenzene	122%	113%	7.5%	70-130	103%	80-120
1,2,4 Trimethylbenzene	121%	116%	4.4%	70-130	106%	80-120
Gasoline Range Organics (C4-C12)	117%	112%	4.3%	70-130		
<u>Surrogate Recovery:</u>						
Dibromofluoromethane	100%	98%		60 - 140	96%	60 - 140
Toluene-d ₈	100%	98%		60 - 140	101%	60 - 140
4-Bromofluorobenzene	100%	97%		60 - 140	97%	60 - 140

LCS = Laboratory Control Sample
 LCSD = Laboratory Control Standard Duplicate
 CCV = Continuing Calibration Verification
 RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%



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JONES ENVIRONMENTAL LABORATORY RESULTS

Client: Northgate Environmental Management
Client Address: 24411 Ridge Route Drive, Suite 130
Laguna Hills, CA 92653

Report date: 3/24/2016
JEL Ref. No.: E-0510
Client Ref. No.: 2047.06

Attn: Derrick Willis

Date Sampled: 3/24/2016
Date Received: 3/24/2016
Date Analyzed: 3/24/2016

Project Address: 6400 Pacific Coast Hwy
Long Beach, CA

Physical State: Water

EPA 8260B by 5030B – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

<u>Sample ID:</u>	GW-2	GW-3	GW-4	GW-1		
<u>JEL ID:</u>	E-0510-14	E-0510-15	E-0510-16	E-0510-17	<u>Practical</u>	<u>Units</u>
<u>Analytes:</u>					<u>Quantitation</u>	
					<u>Limit</u>	
Benzene	ND	ND	ND	21.3	0.5	µg/L
Ethylbenzene	ND	ND	ND	46.3	0.5	µg/L
Toluene	ND	ND	ND	2.1	0.5	µg/L
Xylenes	ND	ND	ND	49.0	0.5	µg/L
MTBE	94.3	78.5	74.7	ND	2.5	µg/L
Ethyl-tert-butylether	ND	ND	ND	ND	2.5	µg/L
Di-isopropylether	ND	ND	ND	ND	2.5	µg/L
tert-amylmethylether	ND	ND	ND	ND	2.5	µg/L
tert-Butylalcohol	60.5	ND	ND	ND	25.0	µg/L
Gasoline Range Organics (C4-C12)	32.9	19.7	19.7	2650	0.10	mg/L
<u>Dilution Factor</u>	1	1	1	1		
<u>Surrogate Recoveries:</u>					<u>QC Limits</u>	
Dibromofluoromethane	94%	106%	106%	100%	60 - 140	
Toluene-d ₈	99%	98%	98%	90%	60 - 140	
4-Bromofluorobenzene	90%	92%	94%	86%	60 - 140	

E2-032416- E2-032416- E2-032416- E2-032416-
E-0510 E-0510 E-0510 E-0510

ND= Not Detected



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JONES ENVIRONMENTAL LABORATORY RESULTS

Client: Northgate Environmental Management
Client Address: 24411 Ridge Route Drive, Suite 130
Laguna Hills, CA 92653

Report date: 3/24/2016
JEL Ref. No.: E-0510
Client Ref. No.: 2047.06

Attn: Derrick Willis

Date Sampled: 3/24/2016
Date Received: 3/24/2016
Date Analyzed: 3/24/2016

Project Address: 6400 Pacific Coast Hwy
Long Beach, CA

Physical State: Water

EPA 8260B by 5030B – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

<u>Sample ID:</u>	METHOD BLANK	METHOD BLANK	<u>Practical Quantitation Limit</u>	<u>Units</u>
<u>JEL ID:</u>	E-0510-26	E-0510-27		
Analytes:				
Benzene	ND	ND	0.5	µg/L
Ethylbenzene	ND	ND	0.5	µg/L
Toluene	ND	ND	0.5	µg/L
Xylenes	ND	ND	0.5	µg/L
MTBE	ND	ND	2.5	µg/L
Ethyl-tert-butylether	ND	ND	2.5	µg/L
Di-isopropylether	ND	ND	2.5	µg/L
tert-amylmethylether	ND	ND	2.5	µg/L
tert-Butylalcohol	ND	ND	25.0	µg/L
Gasoline Range Organics (C4-C12)	ND	ND	0.10	mg/L
<u>Dilution Factor</u>	1	1		
<u>Surrogate Recoveries:</u>			<u>QC Limits</u>	
Dibromofluoromethane	104%	96%	60 - 140	
Toluene-d ₈	93%	102%	60 - 140	
4-Bromofluorobenzene	96%	92%	60 - 140	

E2-032416- E2-032416-
E-0510 E-0510

ND= Not Detected



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**JONES ENVIRONMENTAL
 QUALITY CONTROL INFORMATION**

Client:	Northgate Environmental Management	Report date:	3/24/2016
Client Address:	24411 Ridge Route Drive, Suite 130 Laguna Hills, CA 92653	JEL Ref. No.:	E-0510
		Client Ref. No.:	8/8/1905
Attn:	Derrick Willis	Date Sampled:	3/24/2016
		Date Received:	3/24/2016
		Date Analyzed:	3/24/2016
Project Address:	6400 Pacific Coast Hwy Long Beach, CA	Physical State:	Water

EPA 8260B by 5030B – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sample Spiked:	Clean Water		GC#: E2-032416-E-0510			
JEL ID:	E-0510-24	E-0510-25			E-0510-23	
<u>Parameter</u>	<u>MS</u> Recovery (%)	<u>MSD</u> Recovery (%)	<u>RPD</u>	<u>Acceptability</u> Range (%)	<u>LCS</u>	<u>Acceptability</u> Range (%)
Vinyl Chloride	44%	46%	4.7%	60 - 140	47%	70 - 130
1,1-Dichloroethylene	78%	72%	8.4%	60 - 140	108%	70 - 130
Cis-1,2-Dichloroethene	100%	101%	0.8%	70 - 130	104%	70 - 130
1,1,1-Trichloroethane	116%	121%	4.2%	70 - 130	120%	70 - 130
Benzene	100%	101%	0.8%	70 - 130	99%	70 - 130
Trichloroethylene	101%	102%	0.4%	70 - 130	102%	70 - 130
Toluene	103%	106%	3.0%	70 - 130	105%	70 - 130
Tetrachloroethene	101%	98%	2.2%	70 - 130	102%	70 - 130
Chlorobenzene	103%	102%	1.5%	70 - 130	105%	70 - 130
Ethylbenzene	109%	112%	2.1%	70 - 130	114%	70 - 130
1,2,4 Trimethylbenzene	115%	114%	1.1%	70 - 130	118%	70 - 130
Gasoline Range Organics (C4-C12)	107%	108%	1.2%	70 - 130		
<u>Surrogate Recovery:</u>						
Dibromofluoromethane	95%	107%		60 - 140	101%	60 - 140
Toluene-d ₈	101%	99%		60 - 140	99%	60 - 140
4-Bromofluorobenzene	98%	95%		60 - 140	97%	60 - 140

MS = Matrix Spike
 MSD = Matrix Spike Duplicate
 RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%



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Chain-of-Custody Record

Client Northgate Environmental
Date 3-24-16
SOIL GAS
JEL Project # E-0510
 Page 1 of 2

Project Name Northgate Environmental
Client Project # 2047.06
Purge Number: 1P 3P 7P 10P
Purge Rate: 200 cc/min
Shut In Test: 0 / N
Analysis Requested

Project Address 4400 Pacific Coast Hwy
Turn Around Requested:
 Immediate Attention
 Rush:
 24 48 72
 Normal
 Mobile Lab
Tracer:
 n-propanol
 n-pentane
 1,1-DFA
 Helium

Project Contact Lowy Beach, CA
 Derrick Willis
Sample Matrix:
 Soil (S), Sludge (SL), Aqueous (A), Soil Gas (SG)
 EPA 8260B + TPH₃
Magnehelic Vacuum (In/H₂O)
Number of Containers
Remarks/Special Instructions
Sample Condition as Received:
 Chilled yes no
 Sealed yes no

Sample ID	Purge Number	Purge Volume	Date	Sample Collection Time	Sample Analysis Time	Laboratory Sample Number	Soil (S)	Sludge (SL)	Aqueous (A)	Soil Gas (SG)	Analysis Requested	Magnehelic Vacuum (In/H ₂ O)	Number of Containers	Remarks/Special Instructions
SN2-4.5	3	1481	3/24/16	0836	0840	E-0510-01	X					60	2	low flow, glass gas tite syringe
SN1-4	3	1473	3/24/16	0850	0856	E-0510-02	X					88	2	VERY low flow ↓
SN3-4	3	-	3/24/16	0920	-	E-0510-03	X					100	-	No flow, water in probe ↓
SN4-3.5	3	-	3/24/16	0940	-	E-0510-04	X					100	-	↓
SN5-4	3	1473	3/24/16	0950	0953	E-0510-05	X					90	2	Very low flow, glass gas tite syringe
SN6-4.5	3	1481	3/24/16	1030	1032	E-0510-06	X					80	2	low flow
SN7-4.5	3	1481	3/24/16	1043	1052	E-0510-07	X					40	2	
SN11-4.5	3	1481	3/24/16	1105	1108	E-0510-08	X					20	2	May over range => 7000'S dilution
SN10-4.5	3	1481	3/24/16	1130	1134	E-0510-09	X					20	1	source area: loose diluted initially ↓
SN11-4.5 Dil	3	1481	3/24/16	1142	1152	-	X					20	1	↓

Relinquished by (signature) Michelle Hoffman
Date 3-24-16
Received by (signature) Dana Brown
Date 3-24-16
Total Number of Containers 14

Company Northgate
Time 10:42
Company Northgate
Time 16:42

Relinquished by (signature) Dana R Brown
Date 3-24-16
Received by Laboratory (signature)
Date 3-24-16

Company Northgate
Time 16:45
Company JEL
Time 16:42
 EDD EDF

The delivery of samples and the signature on this Chain of Custody form constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth on the back hereof.

Chain-of-Custody Record

Client: Northgate Environmental
Project Name: Northgate Environmental
Project Address: 6400 Pacific Coast Hwy
Long Beach, CA
Project Contact: Derrick Willis

Date: 3-24-16
Client Project #: 201706

Turn Around Requested:
 Immediate Attention
 Rush:
 24 48 72
 Normal
 Mobile Lab

Tracer:
 n-propanol
 n-pentane
 1,1-DFA
 Helium

Purge Number: 1P 3P 7P 10P
Purge Rate: 200 cc/min
Shut In Test: Y N

Analysis Requested

Sample Matrix:
Soil (S), Sludge (SL), Aqueous (A), Soil Gas (SG)
EPA 8760B + TPH

Magnehelic Vacuum (ln/H₂O)
Number of Containers

JEL Project # E-0510
Page 2 of 2
Lab Use Only
Sample Condition as Received:
Chilled Yes No
Sealed Yes No

Sample ID	Purge Number	Purge Volume	Date	Sample Collection Time	Sample Analysis Time	Laboratory Sample Number	Sample Matrix	Magnehelic Vacuum (ln/H ₂ O)	Number of Containers	Remarks/Special Instructions		
SV12-4.5	3	1481	3/24/16	1204	1207	56	X	20	1	Divide (Soil) but Lab # given to client still way to high; glass gas-tight syringe		
SV10-4.5 Oil	3	1481	3/24/16	1224	1226	56	X	20	1	50cc; glass gas-tight syringe		
SV12-4.5 Oil	3	1481	3/24/16	1238	1242	56	X	20	1	Ice		
SV12-4.5 DiLEP	3	1481	3/24/16	1300	1302	56	X	20	1	Ice		
SV9-4.5	3	1481	3/24/16	1339	1341	56	X	80	2	low flow		
SV8-4.5	3	1481	3/24/16	1452	1456	56	X	96	1	VERY low flow; can't only pull 28cc		
GW-2	-	-	3/24/16	1453	1410	A	X	-	3	ground water; NOA		
GW-3	-	-	3/24/16	1438	1518	A	X	-	3	ground water; NOA		
GW-4	-	-	3/24/16	1438	1540	A	X	-	3	ground water; NOA		
GW-1	-	-	3/24/16	1535	1625	A	X	-	3	ground water; NOA		
1 Relinquished by (signature) <i>Michelle Hodgson</i> Date: 3-24-16 Company: Northgate Env.				2 Received by (signature) <i>Dana R Brown</i> Date: 3-24-16 Company: Northgate Env.				Total Number of Containers: 19				
3 Relinquished by (signature) <i>LaPal</i> Date: 3-24-16 Company: Northgate Env.				4 Received by Laboratory (signature) <i>JEL</i> Date: 3-24-16 Company: JEL				The delivery of samples and the signature on this Chain of Custody form constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth on the back hereof. <input type="checkbox"/> EDD <input type="checkbox"/> EDF				
Company: Northgate Env. Date: 3-24-16 Time: 16:30				Date: 3-24-16 Time: 16:30				Date: 3-24-16 Time: 16:47				



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**JONES ENVIRONMENTAL
LABORATORY RESULTS**

Client: Northgate Environmental Management
Client Address: 24411 Ridge Route Drive, Suite 130
Laguna Hills, CA 92653

Report date: 3/28/2016
JEL Ref. No.: ST-9207
Client Ref. No: 2047.06

Attn: Derrick Willis

Date Sampled: 3/24/2016
Date Received: 3/25/2016

Project: CenterCal
Project Address: 6400 E. Pacific Coast Highway
Long Beach, CA 90803

Date Analyzed: 3/28/2016
Physical State: Water

ANALYSES REQUESTED

1. EPA 8015M – Semivolatile Hydrocarbons (C13-22 & C23-32)
8260B analysis was completed in the mobile lab on 3/24/2016. See report E-0510 for results.

Approval:

Steve Jones, Ph.D.
Laboratory Manager



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**JONES ENVIRONMENTAL
LABORATORY RESULTS**

Client: Northgate Environmental Management
Client Address: 24411 Ridge Route Drive, Suite 130
Laguna Hills, CA 92653

Report date: 3/28/2016
JEL Ref. No.: ST-9207
Client Ref No.: 2047.06

Attn: Derrick Willis

Date Sampled: 3/24/2016
Date Received: 3/24/2016

Project: CenterCal
Project Address: 6400 Pacific Coast Hwy
Long Beach, CA

Date Analyzed: 3/28/2016
Physical State: Water

EPA 8015M – Semivolatile Hydrocarbons

<u>Sample ID:</u>	GW-2	GW-1	GW-3	GW-4		
<u>JEL ID:</u>	ST-9207-01	ST-9207-02	ST-9207-03	ST-9207-05	<u>Practical Quantitation Limit</u>	<u>Units</u>
Carbon Chain Range						
C13 - C22	ND	90.2	ND	ND	5.0	mg/L
C23 - C32	ND	86.0	ND	ND	5.0	mg/L
<u>Dilution Factor</u>	1	1	1	1		
<u>Surrogate Recovery:</u>					<u>QC Limits</u>	
Hexacosane	106%	114%	118%	128%	30 - 120	
	8015_ 160325_01	8015_ 160325_01	8015_ 160325_01	8015_ 160325_01		

ND = Not Detected



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**JONES ENVIRONMENTAL
 QUALITY CONTROL INFORMATION**

Client: Northgate Environmental Management
Client Address: 24411 Ridge Route Drive, Suite 130
 Laguna Hills, CA 92653

Report date: 3/28/2016
JEL Ref. No.: ST-9207
Client Ref No.: 2047.06

Attn: Derrick Willis

Date Sampled: 3/24/2016
Date Received: 3/24/2016

Project: CenterCal
Project Address: 6400 Pacific Coast Hwy
 Long Beach, CA

Date Analyzed: 3/28/2016
Physical State: Water

EPA 8015M – Semivolatile Hydrocarbons

<u>Sample ID:</u>	METHOD BLANK		
<u>JEL ID:</u>	MB- 160325_01		
Carbon Chain Range		<u>Practical Quantitation Limit</u>	<u>Units</u>
C13 - C22	ND	5.0	mg/L
C23 - C32	ND	5.0	mg/L
<u>Dilution Factor</u>	1		
<u>Surrogate Recovery:</u>		<u>QC Limits</u>	
Hexacosane	102%	60 - 140	
	8015_ 160325_01		

ND = Not Detected



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 805-399-0060

11007 FOREST PLACE
 SANTA FE SPRINGS, CA 90670
 WWW.JONESENV.COM

JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Northgate Environmental Management	Report date:	3/28/2016
Client Address:	24411 Ridge Route Drive, Suite 130 Laguna Hills, CA 92653	JEL Ref. No.:	ST-9207
		Client Ref No.:	8/8/1905
Attn:	Derrick Willis	Date Sampled:	3/24/2016
		Date Received:	3/24/2016
Project:	CenterCal	Date Analyzed:	3/28/2016
Project Address:	6400 Pacific Coast Hwy Long Beach, CA	Physical State:	Water

BATCH: 8015_160325_01 **Prepared:** 3/25/2016 **Analyzed:** 3/28/2016

EPA 8015M – Semivolatile Hydrocarbons

	Result	Spike Level	Source Result	% REC	% RPD	% REC Limits	Units
LCS:	LCS-160325_01						
Analyte:							
Diesel	511	600		85%		60 - 140	mg/L
Surrogate Recoveries:							
Hexacosane				117%		30 - 120	
LCSD:	LCSD-160325_01		SAMPLE SPIKED:	CLEAN WATER			
Analyte:							
Diesel	484	600	ND	81%	5.4%	60 - 140	mg/L
Surrogate Recovery:							
Hexacosane				117%		30 - 120	

RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%



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Chain-of-Custody Record

JEL Project # ST-9207
 Page 1 of 1
 Lab Use Only
 Sample Condition as Received:
 Chilled yes no
 Sealed yes no

SOIL GAS
 Purge Number: 1P 3P 7P 10P
 Purge Rate: _____ cc/min
 Shut in Test Y / N
 Tracer:
 n-propanol
 n-pentane
 1,1-DFA
 Helium

Turn Around Requested:
 Immediate Attention
 Rush:
 24 48 72
 Normal
 Mobile Lab

Date 3-24-2016
 Client Project # 2047.06

Project Name Northgate Environmental
 CenterCal
 Project Address 6400 E. Pacific Coast Highway
Long Beach, CA 90803
 Project Contact Derrick Willis (949) 375-7004

Sample ID	Purge Number	Purge Volume	Date	Sample Collection Time	Sample Analysis Time	Laboratory Sample Number	Sample Matrix: Soil (S), Sludge (SL), Aqueous (A), Soil Gas (SG)	Magnetic Vacuum (in/H ² O)	Number of Containers	Remarks/Special Instructions		
GW-2			3-24-16	11:53		ST-9207-01	A	8260B	4	3 x VOA + HCl preservative		
GW-1				15:20		-02	A	8015M (TPH-CC)	4	+ 1 x 1L amber - 4°C		
GW-3				14:38		-03	A		4			
TB-03242016-A				08:10		-04	H		2	2 x VOA 4°C		
GW-4				13:38		ST-9207-05	A		4			
DRB												
3-24-2016												
			Date	Received by (signature)		Dana R Brown		Date		3-24-2016		
Company			Michelle Hughes	Northgate Environmental		Northgate Environmental		Time		16:30		
Relinquished by (signature)			Date		Received by Laboratory (signature)		Date		Total Number of Containers		The delivery of samples and the signature on this Chain of Custody form constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth on the back hereof.	
Northgate Environmental			3-24-2016		Dana R Brown		3-24-2016		12			
Company			Time		Company		Time		EDD		EDF	
Northgate Environmental			16:30		JEL		16:41		<input type="checkbox"/>		<input type="checkbox"/>	