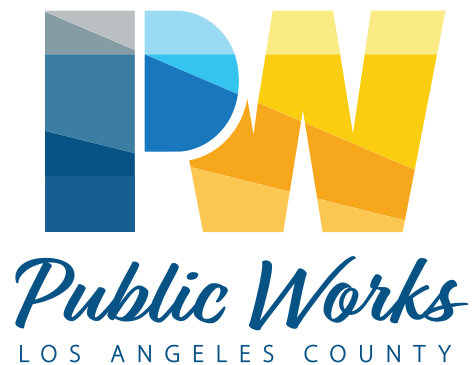


SEDIMENT ASSESSMENT
DEVIL'S GATE
RESERVOIR RESTORATION PROJECT

MARCH 2019



SEDIMENT ASSESSMENT

DEVIL'S GATE

RESERVOIR RESTORATION PROJECT

Prepared for

Los Angeles County Flood Control District

Prepared by

Los Angeles County Public Works

March 28, 2019

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INTRODUCTION

On February 28, 2019, Los Angeles County Public Works (Public Works) conducted a subsurface assessment of the Devil's Gate Dam Reservoir located in the City of Pasadena. Public Works operates the reservoir facility for the Los Angeles Flood Control District. Public Works plans to restore the facility's water storage capacity by removing stormwater accumulated sediments. The purpose of the sediment assessment is to characterize in-place sediments prior to excavation.

SCOPE OF WORK

Under the oversight of Public Works' State-licensed professional geologist, Public Works' drill crew utilized their CME-75 truck-mounted hollow stem auger drill rig to drill five borings (Borings B-2 and B-5 through B-8) within the reservoir bottom. Depth-discrete samples were collected at 5-foot intervals to the depth of each boring (15 to 25 feet). See Figures 2 and 3 for boring locations.

Within 24 hours of collection and under chain-of-custody protocol, the samples were submitted to the American Environmental Testing Laboratory, Inc., a State-certified analytical laboratory located in Burbank, California. The collected sediment samples were analyzed by the following tests and methods:

- Title 22 Metals by United States Environmental Protection Agency (EPA) Method 6010B/7471A.
- Volatile and Semi-Volatile Organic Compounds by EPA Methods 8260B and 8270C, respectively.
- Polychlorinated Biphenyls by EPA Method 8082.
- Organochlorine Pesticides by EPA Method 8081A.
- Total Petroleum Hydrocarbons (TPH) Identification by Method.
- TPH as gasoline, diesel, and heavy hydrocarbons by EPA Method 8015M.
- Perchlorate by EPA Method 314.0.

RESULTS

A summary of the analytical test results is included in the Sediment Results Table. Copies of the analytical laboratory reports and chain-of-custody forms are included in the Appendix.

SIGNATURE

All work was completed by and/or under the direct supervision of the undersigned State-licensed California Professional Geologists.

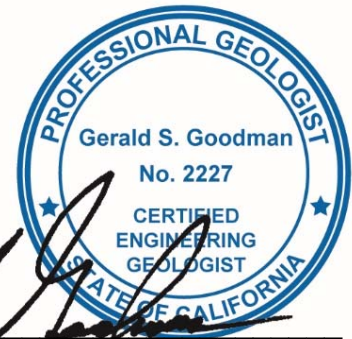
Prepared and Submitted by:

Reviewed and Submitted by:

Gregory Sena
Supervising Engineering Geologist II
P.G. 8196, C.E.G. 2447



Gerald Goodman
Supervising Engineering Geologist III
P.G. 7094, C.E.G. 2227, C.HG. 777

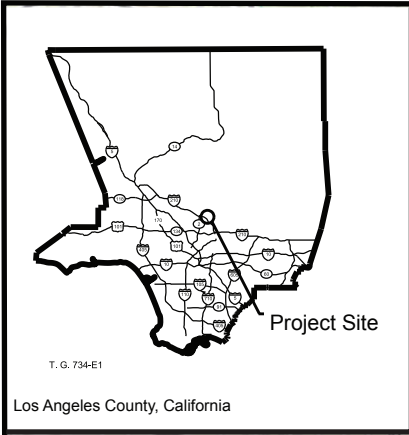


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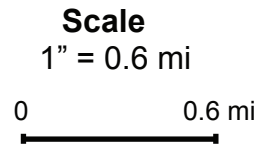
GME-3P:\gmepub\Secretarial\Geolnv\REPORTS\2019\Devil's Gate Reservoir Restoration Project.docx

Attach.

FIGURES



Reference: View LA, ESRI, Topographic Base Map, 2018



LOS ANGELES COUNTY PUBLIC WORKS

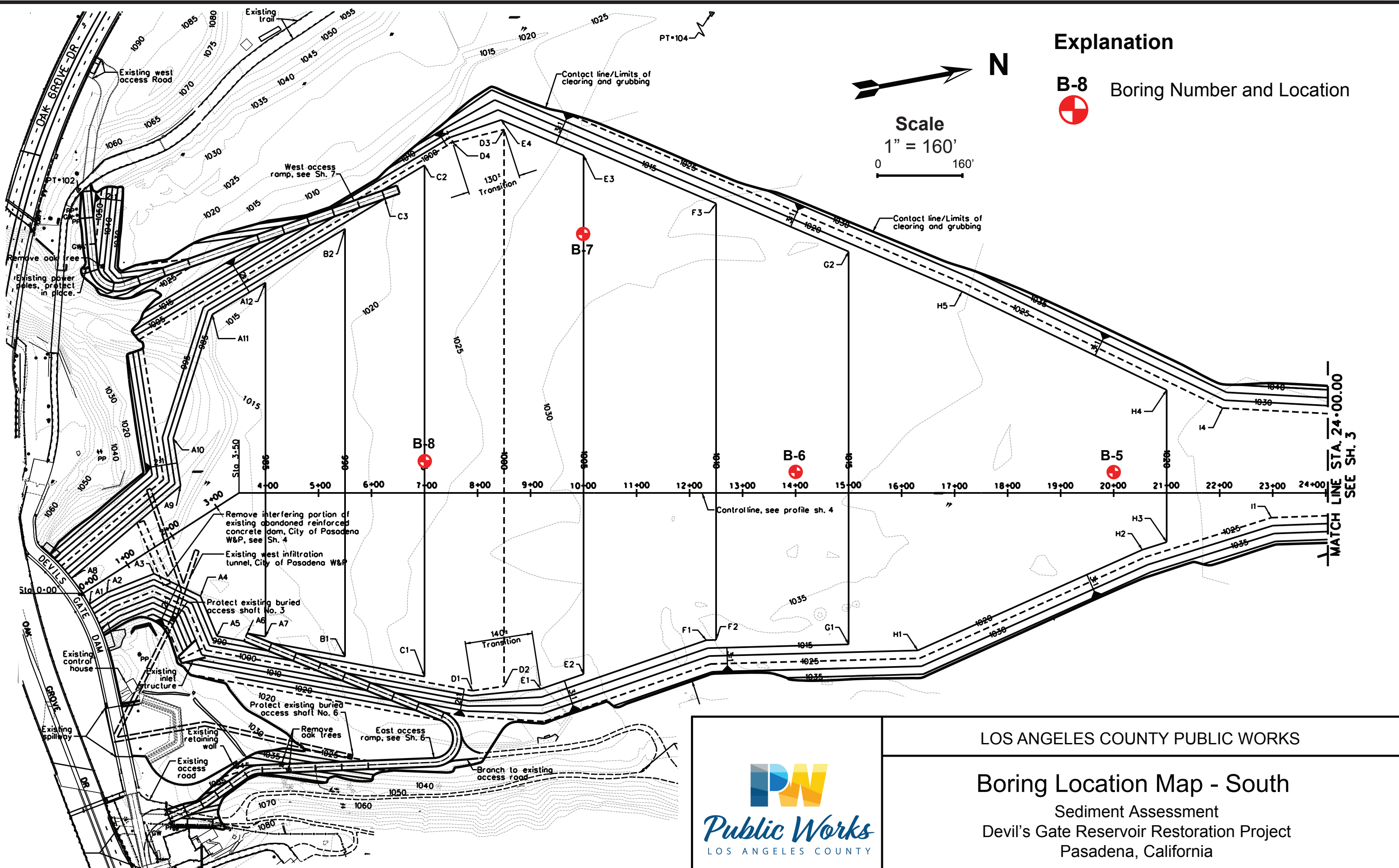
Vicinity Map
Sediment Assessment
Devil's Gate Reservoir Restoration Project
Pasadena, California

Date: March 2019


Drafted by: RLM

PCA: HF00710004

FIGURE 1

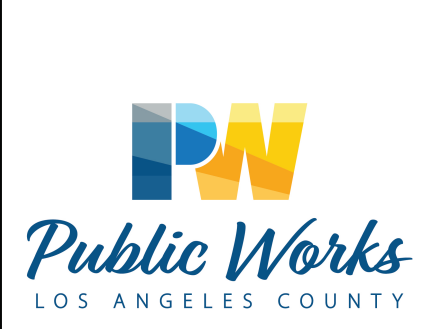


Explanation

B-8 Boring Number and Location


Scale

1" = 160'
 0 160'

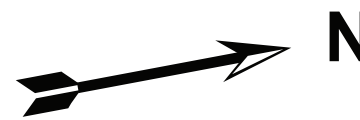


LOS ANGELES COUNTY PUBLIC WORKS

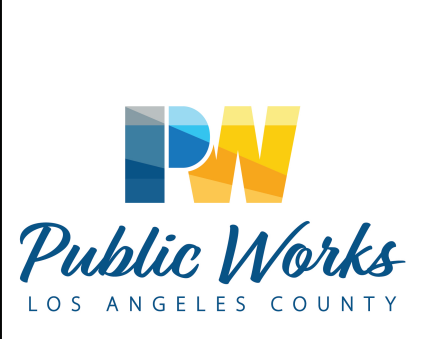
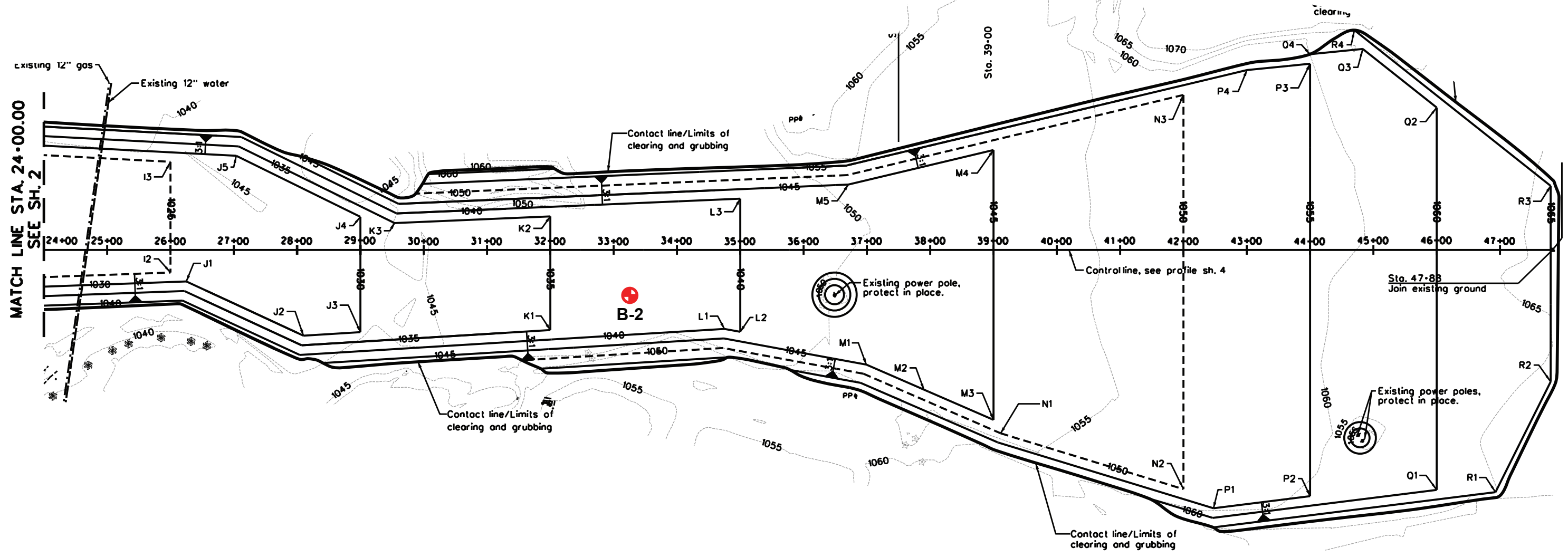
Boring Location Map - South
 Sediment Assessment
 Devil's Gate Reservoir Restoration Project
 Pasadena, California

Explanation

B-2 Boring Number and Location



Scale
1" = 160'
0 160'



LOS ANGELES COUNTY PUBLIC WORKS

Boring Location Map - North
Sediment Assessment
Devil's Gate Reservoir Restoration Project
Pasadena, California

TABLE

**Table
Sediment Assessment Results
Devil's Gate Reservoir Restoration Project**



Boring Number		B-2			B-5				B-6				Regulatory		
Sample Identification		B2-1	B2-2	B2-3	B5-1	B5-2	B5-3	B5-4	B6-1	B6-2	B6-3	B6-4	Guidelines		Limits
Sample Depth in Feet		5	10	15	5	10	15	20	5	10	15	20	US EPA ^	Cal-DTSC ^	CCR
Analyte / Constituent	Date Sampled	02/28/19	02/28/19	02/28/19	02/28/19	02/28/19	02/28/19	02/28/19	02/28/19	02/28/19	02/28/19	02/28/19	RSLs	RSLs	TTLc
Perchlorate	µg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15	--	--
Volatile Organic Compound - Benzene	mg/kg	0.00120J	0.00326J	0.00244J	0.00336J	0.00285J	ND	ND	0.00713	0.00128J	0.00100J	0.00387J	1.2	0.33	--
Volatile Organic Compound - Toluene	mg/kg	ND	0.00122J	ND	ND	ND	ND	ND	0.00213J	ND	ND	0.00100J	4.9	1,100	--
Total Petroleum Hydrocarbons as Gasoline	mg/kg	ND	0.677J	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--
Total Petroleum Hydrocarbons as Diesel	mg/kg	7.33	9.64	5.12	ND	3.97J	ND	ND	ND	6.83	ND	ND	--	--	--
Total Petroleum Hydrocarbons as Heavy Hydrocarbons	mg/kg	5.39	11.1	5.26	ND	14.1	ND	ND	8.02	16.6	ND	ND	--	--	--
Semi-Volatile Organic Compounds	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--
Organochlorine Pesticide - Chlordane (total)	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	0.00153J	ND	ND	1.75	0.44	2.5
Organochlorine Pesticide - DDD	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.9	--	1.0*
Organochlorine Pesticide - DDE	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.0	--	1.0*
Organochlorine Pesticide - DDT	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.9	--	1.0*
Organochlorine Pesticide - Endrine	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	19	--	0.2
Polychlorinated Biphenyls	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--
Title 22 Metal - Arsenic	mg/kg	ND	ND	ND	3.15	3.77	1.35	2.11	4.49	4.67	3.70	ND	0.68	0.11 (12^^)	500
Title 22 Metal - Barium	mg/kg	23.2	29.0	35.6	50.0	84.3	46.5	64.6	90.5	142	112	48.8	15,000	--	10,000
Title 22 Metal - Chromium	mg/kg	ND	2.86	5.51	4.02	8.25	4.45	6.65	7.55	9.40	9.35	0.113J	--	36,000	2,500
Title 22 Metal - Cobalt	mg/kg	1.25J	1.65J	1.72J	1.99J	4.94	2.62	3.64	4.93	5.97	5.30	2.48J	23	--	8,000
Title 22 Metal - Copper	mg/kg	5.41	6.31	7.70	9.49	27.8	9.93	15.5	29.1	30.8	22.0	10.6	3,100	--	2,500
Title 22 Metal - Lead	mg/kg	1.77J	3.38	4.77	4.89	11.4	4.82	9.45	13.0	15.0	6.18	3.09	400	80	1,000
Title 22 Metal - Mercury	mg/kg	0.111J	0.107J	0.133J	0.294	0.161	0.111J	0.112J	0.212	0.289	0.160	0.194	23	1.0	20
Title 22 Metal - Molybdenum	mg/kg	ND	ND	0.300J	ND	0.252J	0.274J	ND	0.381J	0.578J	0.649J	0.535J	360	--	3,500
Title 22 Metal - Nickel	mg/kg	2.54	3.62	4.62	4.60	15.0	6.05	9.30	14.4	14.5	15.6	6.48	1,500	490	2,000
Title 22 Metal - Vanadium	mg/kg	15.1	16.2	18.0	18.0	29.8	22.6	24.7	28.8	32.7	30.9	20.7	390	390	2,400
Title 22 Metal - Zinc	mg/kg	26.3	32.8	37.4	45.9	107	55.9	80.9	102	142	110	50.7	23,000	--	5,000

Acronyms and Notes:

- ND = Not detected above the laboratory method detection limit. See Sediment Assessment Report Appendix for the Analytical Laboratory Report limits.
- " J " = Detection above the laboratory method detection limit and below the laboratory practical quantitation limit. See Sediment Assessment Report Appendix for the Analytical Laboratory Report limits.
- mg/kg = Milligrams per kilogram.
- µg/kg = Micrograms per kilogram.
- RSLs = Regional Screening Levels.
- US EPA = United States Environmental Protection Agency, Region 9. Regional Screening Levels Summary Table (TR=1E-06, HQ=1), Residential Soils, November 2018.
- Cal-DTSC = California Department of Toxic Substances Control. Human and Ecological Risk Office, Human Health Risk Assessment Note Number 3, DTSC-modified Regional Screening Levels, June 2018.
- CCR = California Code of Regulations. Title 22, Division 4.5, Chapter 11, Article 3, §66261.24, Characteristics of Toxicity, Total Threshold Limit Concentrations, March 2019.
- " ^ " = Indicates a risk-based screening level and is a regulatory guideline, not a limit.
- " ^^ " = DTSC regional background arsenic soil concentration in Los Angeles County, undated.
- " * " = Concentration limit for cumulative concentrations of DDD/DDE/DDT.

Unless identified, all other analytes or constituents tested were not detected above the analytical laboratory method detection limit and below the practical quantitation limit.

**Table
Sediment Assessment Results
Devil's Gate Reservoir Restoration Project**



Boring Number		B-7					B-8					Regulatory		
Sample Identification		B7-1	B7-2	B7-3	B7-4	B7-5	B8-1	B8-2	B8-3	B8-4	B8-5	Guidelines		Limits
Sample Depth in Feet		5	10	15	20	25	5	10	15	20	25	US EPA [^]	Cal-DTSC [^]	CCR
Analyte / Constituent	Date Sampled	02/28/19	02/28/19	02/28/19	02/28/19	02/28/19	02/28/19	02/28/19	02/28/19	02/28/19	02/28/19	RSLs	RSLs	TTLc
Perchlorate	µg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15	--	--
Volatile Organic Compound - Benzene	mg/kg	0.00322J	0.00200J	0.00215J	0.00200J	ND	0.00206J	0.00182J	0.00147J	0.00407J	ND	1.2	0.33	--
Volatile Organic Compound - Toluene	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.9	1,100	--
Total Petroleum Hydrocarbons as Gasoline	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--
Total Petroleum Hydrocarbons as Diesel	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--
Total Petroleum Hydrocarbons as Heavy Hydrocarbons	mg/kg	9.01	45.2	85.8	ND	ND	ND	ND	12.6	22.6	ND	--	--	--
Semi-Volatile Organic Compounds	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--
Organochlorine Pesticide - Chlordane (total)	mg/kg	0.00241	0.00114J	0.00388	ND	ND	0.00435	ND	0.00115J	ND	ND	1.75	0.44	2.5
Organochlorine Pesticide - DDD	mg/kg	0.00103J	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.9	--	1.0*
Organochlorine Pesticide - DDE	mg/kg	0.00103J	0.00114J	0.00833	ND	ND	0.0130	ND	ND	ND	ND	2.0	--	1.0*
Organochlorine Pesticide - DDT	mg/kg	0.00117J	0.00102J	0.00603	ND	ND	0.00710	ND	ND	ND	ND	1.9	--	1.0*
Organochlorine Pesticide - Endrine	mg/kg	ND	ND	ND	ND	ND	0.00200	ND	ND	ND	ND	19	--	0.2
Polychlorinated Biphenyls	mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--
Title 22 Metal - Arsenic	mg/kg	2.60	2.31	5.67	7.76	5.12	5.86	3.01	1.63	4.11	3.60	0.68	0.11 (12 ^{^^})	500
Title 22 Metal - Barium	mg/kg	86.6	88.1	110	102	107	112	99.4	40.0	114	85.6	15,000	--	10,000
Title 22 Metal - Chromium	mg/kg	7.06	7.43	8.59	7.96	7.60	8.56	8.20	63.0	8.70	10.2	--	36,000	2,500
Title 22 Metal - Cobalt	mg/kg	4.45	4.17	5.68	5.86	5.55	5.36	5.04	2.05J	5.22	5.17	23	--	8,000
Title 22 Metal - Copper	mg/kg	19.3	19.6	34.8	28.9	28.6	27.0	22.3	10.6	22.7	39.2	3,100	--	2,500
Title 22 Metal - Lead	mg/kg	11.6	12.5	10.9	13.2	9.22	21.0	9.33	3.06	10.6	9.57	400	80	1,000
Title 22 Metal - Mercury	mg/kg	ND	0.120J	0.382	0.278	0.198	0.192	0.154	0.145J	0.271	0.179	23	1.0	20
Title 22 Metal - Molybdenum	mg/kg	0.292J	0.470J	0.422J	1.14J	0.429J	0.456J	0.397J	0.415J	0.415J	0.645J	360	--	3,500
Title 22 Metal - Nickel	mg/kg	12.2	12.1	17.0	15.5	15.3	15.8	14.2	7.65	16.5	18.3	1,500	490	2,000
Title 22 Metal - Vanadium	mg/kg	26.5	27.1	32.9	31.7	32.7	30.1	29.5	19.6	27.9	28.6	390	390	2,400
Title 22 Metal - Zinc	mg/kg	94.6	93.5	124	120	113	119	103	38.0	108	82.5	23,000	--	5,000

Acronyms and Notes:

- ND = Not detected above the laboratory method detection limit. See Sediment Assessment Report Appendix for the Analytical Laboratory Report limits.
- " J " = Detection above the laboratory method detection limit and below the laboratory practical quantitation limit. See Sediment Assessment Report Appendix for the Analytical Laboratory Report limits.
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- Cal-DTSC = California Department of Toxic Substances Control. Human and Ecological Risk Office, Human Health Risk Assessment Note Number 3, DTSC-modified Regional Screening Levels, June 2018.
- CCR = California Code of Regulations. Title 22, Division 4.5, Chapter 11, Article 3, §66261.24, Characteristics of Toxicity, Total Threshold Limit Concentrations, March 2019.
- " ^ " = Indicates a risk-based screening level and is a regulatory guideline, not a limit.
- " ^^ " = DTSC regional background arsenic soil concentration in Los Angeles County, undated.
- " * " = Concentration limit for cumulative concentrations of DDD/DDE/DDT.

Unless identified, all other analytes or constituents tested were not detected above the analytical laboratory method detection limit and below the practical quantitation limit.

APPENDIX



American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Ordered By

LA County Dept. of Public Works
GMED 900 S. Fremont Ave, 4th Floor
Alhambra, CA 91803-

Number of Pages 97
Date Received 02/28/2019
Date Reported 03/07/2019

Telephone: (626)458-4923
Attention: Greg Sena

Job Number	Order Date	Client
96484	02/28/2019	LACDPW

Project ID: HF00710004
Project Name: Devil's Gate Reservoir Restor.
Site: Devil's Gate Reservoir Restor.

Enclosed please find results of analyses of 21 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____

Approved By: _____

Cyrus Razmara, Ph.D.
Laboratory Director



AMERICAN ENVIRONMENTAL TESTING LABORATORY
 2834 NORTH NAOMI ST. BURBANK, CALIFORNIA 91504 DHS # 1541 LACSD# 10181
 TEL (888) 288-AETL (818) 845-8200 FAX (818) 845-8840 www.aetlab.com

CHAIN OF CUSTODY RECORD
111491

COMPANY LACO PUBLIC WORKS PROJECT MANAGER PREEDY SENA, CEG
 COMPANY ADDRESS 700 S. FARMONT AVE. PHONE 626.458.4943
ALHAMBRA CA 91803-1331 FAX 626.458.4913
 PROJECT NAME, DEVIL'S GATE RESERVOIR RESTORATION PROJECT# HFC0710004
 SITE NAME AND ADDRESS DEVIL'S GATE RESERVOIR PO# 19CN-HCU444

AETL JOB No. 96484 Page 1 of 2

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED										TEST INSTRUCTIONS & COMMENTS						
							OCPS	OCPS	OCPS	OCPS	OCPS	OCPS	OCPS	OCPS	OCPS	OCPS		OCPS	OCPS	OCPS	OCPS		
1	B2-1	02/28/19	08:30	SOIL	4 WBS 2-STAR ICEU	ICEU	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	* CARBON CHAIN BREAKDOWN	
2	B2-2		08:40																				
3	B2-3		09:10																				
4	B5-1		10:30																				
5	B5-2		10:40																				
6	B5-3		10:45																				
7	B5-4		11:00																				
8	B6-1		12:30																				
9	B6-2		12:40																				
10	B6-3		12:50																				
11	B6-4		13:00																				
12	B7-1		14:00																				
13	B7-2		14:10																				
14	B7-3		14:35																				
15	B7-4		14:50																				

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS 90 PROPERLY COOLED Y / N / NA
 CUSTODY SEALS Y / N / NA SAMPLES INTACT Y / N / NA
 RECEIVED IN GOOD COND. Y / N SAMPLES ACCEPTED Y / N

TURN AROUND TIME
 NORMAL RUSH SAME DAY NEXT DAY
 2 DAYS 3 DAYS

DATA DELIVERABLE REQUIRED
 HARD COPY
 PDF
 GEOTRACKER (GLOBAL ID)
 OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY: SAMPLER: Signature: _____ Printed Name: _____ Date: 02/28/19 Time: 16:45
RECEIVED BY: 1. Signature: _____ Printed Name: _____ Date: _____ Time: _____
RELINQUISHED BY: 2. Signature: _____ Printed Name: _____ Date: _____ Time: _____
RECEIVED BY: 3. Signature: _____ Printed Name: _____ Date: 02/28/19 Time: 17:35

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



AMERICAN ENVIRONMENTAL TESTING LABORATORY
 2834 NORTH NAOMI ST. BURBANK, CALIFORNIA 91504 DHS # 1541 LACSD# 10181
 TEL (888) 288-AETL (818) 845-8200 FAX (818) 845-8840 www.aetlab.com

CHAIN OF CUSTODY RECORD
111490

COMPANY: LACO PUBLIC WORKS PROJECT MANAGER: WREAGAL SERRA, CEG
 COMPANY ADDRESS: 900 S. FARMONT AVE. PHONE: 626.458.4903
ALHAMBRA, CA 91803 FAX: 626.458.4913
 PROJECT NAME: DEVIL'S CREEK RESERVOIR RESTORATION HF00R10004
 SITE NAME AND ADDRESS: DEVIL'S CREEK RESERVOIR 19CN-AC00444

AETL JOB No. 96484 Page 2 of 2

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED	TEST INSTRUCTIONS & COMMENTS
B7-5	96484.16	02/25/18	15:00	SOIL	HVARY 2 JARS I/E/V		TITLE: MTHL GC/MS 174218 X GCPS 80819 X SVECS 80820 X TDA-C 80821 X TDA-D 80822 X PCB'S 80823 X VOC'S TOX'S 80824 X DEICHLORITE 314.0	* CARBON CHAIN BREASONN
B8-1	96484.17		15:45					
B8-2	96484.18		15:50					
B8-3	96484.19		15:55					
B8-4	96484.20		16:10					
B8-5	96484.21		16:15					

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS: <u>36</u>	PROPERLY COOLED: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N / NA	RELINQUISHED BY: <u>1.</u>	RELINQUISHED BY: <u>2.</u>	RELINQUISHED BY: <u>3.</u>
CUSTODY SEALS: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N / NA	SAMPLES INTACT: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N / NA	Signature: _____ Printed Name: _____ Date: _____	Signature: _____ Printed Name: _____ Date: _____	Signature: _____ Printed Name: _____ Date: _____
RECEIVED IN GOOD COND: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	SAMPLES ACCEPTED: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Date: <u>02/28/18</u> Time: <u>16:45</u>	Date: _____ Time: _____	Date: <u>02/28/18</u> Time: <u>17:30</u>
TURN AROUND TIME	DATA DELIVERABLE REQUIRED	RECEIVED BY: <u>1.</u>	RECEIVED BY: <u>2.</u>	RECEIVED BY: <u>3.</u>
<input type="checkbox"/> NORMAL <input checked="" type="checkbox"/> RUSH	<input type="checkbox"/> HARD COPY <input type="checkbox"/> PDF <input type="checkbox"/> GEOTRACKER (GLOBAL ID) <input type="checkbox"/> OTHER (PLEASE SPECIFY) _____	Signature: _____ Printed Name: _____ Date: _____	Signature: _____ Printed Name: _____ Date: _____	Signature: _____ Printed Name: _____ Date: _____

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

COOLER RECEIPT FORM

Client Name: <u>LACDPW</u>			
Project Name:			
AETL Job Number: <u>96484</u>			
Date Received: <u>02/28/19</u>		Received by: <u>A.J.</u>	
Carrier: <input checked="" type="checkbox"/> AETL Courier <input type="checkbox"/> Client <input type="checkbox"/> GSO <input type="checkbox"/> FedEx <input type="checkbox"/> UPS			
<input type="checkbox"/> Others:			
Samples were received in: <input checked="" type="checkbox"/> Cooler (<u>3</u>) <input type="checkbox"/> Other (Specify):			
Inside temperature of shipping container No 1: <u>3.2</u> , No 2: <u>3.2</u> , No 3: <u>3.3</u>			
Type of sample containers: <input checked="" type="checkbox"/> VOA, <input type="checkbox"/> Glass bottles, <input type="checkbox"/> Wide mouth jars, <input type="checkbox"/> HDPE bottles, <input type="checkbox"/> Metal sleeves, <input type="checkbox"/> Others (Specify): <u>21x5035 kits</u>			
How are samples preserved: <input type="checkbox"/> None, <input checked="" type="checkbox"/> Ice, <input type="checkbox"/> Blue Ice, <input type="checkbox"/> Dry Ice			
<input type="checkbox"/> None, <input type="checkbox"/> HNO ₃ , <input type="checkbox"/> NaOH, <input type="checkbox"/> ZnOAc, <input type="checkbox"/> HCl, <input type="checkbox"/> Na ₂ S ₂ O ₃ , <input checked="" type="checkbox"/> MeOH			
<input type="checkbox"/> Other (Specify): <u>NaHSO₄H₂O</u>			
	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	<u>Y</u>		
2. Are the Sample labels legible?	<u>Y</u>		
3. Do samples match the COC?	<u>Y</u>		
4. Are the required analyses clear?	<u>Y</u>		
5. Is there enough samples for required analysis?	<u>Y</u>		
6. Are samples sealed with evidence tape?	<u>Y</u>		
7. Are sample containers in good condition?	<u>Y</u>		
8. Are samples preserved?	<u>Y</u>		
9. Are samples preserved properly for the intended analysis?	<u>Y</u>		
10. Are the VOAs free of headspace?	<u>Y</u>		
11. Are the jars free of headspace?	<u>Y</u>		

Explain all "No" answers for above questions:



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Page: 1 A

Ordered By

LA County Dept. of Public Works
GMED 900 S. Fremont Ave, 4th Floor
Alhambra, CA 91803-

Project ID: HF00710004
Date Received 02/28/2019
Date Reported 03/07/2019

Telephone: (626) 458-4923

Attention: Greg Sena

Job Number	Order Date	Client
96484	02/28/2019	LACDPW

CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 21 samples with the following specification on 02/28/2019.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
96484.01	B2-1	02/28/2019	Soil	6
96484.02	B2-2	02/28/2019	Soil	6
96484.03	B2-3	02/28/2019	Soil	6
96484.04	B5-1	02/28/2019	Soil	6
96484.05	B5-2	02/28/2019	Soil	6
96484.06	B5-3	02/28/2019	Soil	6
96484.07	B5-4	02/28/2019	Soil	6
96484.08	B6-1	02/28/2019	Soil	6
96484.09	B6-2	02/28/2019	Soil	6
96484.10	B6-3	02/28/2019	Soil	6
96484.11	B6-4	02/28/2019	Soil	6
96484.12	B7-1	02/28/2019	Soil	6
96484.13	B7-2	02/28/2019	Soil	6
96484.14	B7-3	02/28/2019	Soil	6
96484.15	B7-4	02/28/2019	Soil	6
96484.16	B7-5	02/28/2019	Soil	6
96484.17	B8-1	02/28/2019	Soil	6
96484.18	B8-2	02/28/2019	Soil	6
96484.19	B8-3	02/28/2019	Soil	6
96484.20	B8-4	02/28/2019	Soil	6
96484.21	B8-5	02/28/2019	Soil	6

Method ^ Submethod	Req Date	Priority	TAT	Units
(314.0)	03/04/2019	3	Rush	ug/Kg
(6010B/7000CAM) ^ DEVILGATE	03/04/2019	3	Rush	mg/Kg
(8081A) ^ DEVILGATE	03/04/2019	3	Rush	mg/Kg
(8082) ^ DEVILGATE	03/04/2019	3	Rush	mg/Kg

Continued



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Page: 1 B

Ordered By

LA County Dept. of Public Works
GMED 900 S. Fremont Ave, 4th Floor
Alhambra, CA 91803-

Project ID: HF00710004
Date Received 02/28/2019
Date Reported 03/07/2019

Telephone: (626) 458-4923

Attention: Greg Sena

Job Number	Order Date	Client
96484	02/28/2019	LACDPW

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

Method	Submethod	Req Date	Priority	TAT	Units
96484.21	B8-5	02/28/2019	3	Soil	6
(8260B)	^ DEVILGATE	03/04/2019	3	Rush	mg/Kg
(8270C)	^ DEVILGATE	03/04/2019	3	Rush	mg/Kg
(M8015D)	^ C13-C40	03/04/2019	3	Rush	mg/Kg
(M8015G)		03/04/2019	3	Rush	mg/Kg
TPHI		03/04/2019	3	Rush	mg/Kg

The samples were analyzed as specified on the enclosed chain of custody. Analytical non-conformances have been noted on the report.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: 

Approved By: 

Cyrus Razmara, Ph.D.
Laboratory Director



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ANALYTICAL RESULTS

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LA County Dept. of Public Works
 GMED
 900 S. Fremont Ave, 4th Floor
 Alhambra, CA 91803-

Site

Devil's Gate Reservoir Restor.

Telephone: (626)458-4923

Attn: Greg Sena

Page: 2

Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0301192A2

Our Lab I.D.		Method Blank	96484.01	96484.02	96484.03	96484.04	
Client Sample I.D.			B2-1	B2-2	B2-3	B5-1	
Date Sampled			02/28/2019	02/28/2019	02/28/2019	02/28/2019	
Date Prepared		03/02/2019	02/28/2019	02/28/2019	02/28/2019	02/28/2019	
Preparation Method		5030	5035A	5035A	5035A	5035A	
Date Analyzed		03/02/2019	03/02/2019	03/02/2019	03/02/2019	03/02/2019	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Acetone	0.0050	0.0050	ND	ND	ND	ND	ND
Benzene	0.0010	0.0050	ND	0.00120J	0.00326J	0.00244J	0.00336J
Bromobenzene (Phenyl bromide)	0.0050	0.0050	ND	ND	ND	ND	ND
Bromochloromethane	0.0050	0.0050	ND	ND	ND	ND	ND
Bromodichloromethane	0.0050	0.0050	ND	ND	ND	ND	ND
Bromoform (Tribromomethane)	0.0050	0.0050	ND	ND	ND	ND	ND
Bromomethane (Methyl bromide)	0.0050	0.0050	ND	ND	ND	ND	ND
2-Butanone (MEK)	0.0050	0.0050	ND	ND	ND	ND	ND
n-Butylbenzene	0.0050	0.0050	ND	ND	ND	ND	ND
sec-Butylbenzene	0.0050	0.0050	ND	ND	ND	ND	ND
tert-Butylbenzene	0.0050	0.0050	ND	ND	ND	ND	ND
Carbon Disulfide	0.0050	0.0050	ND	ND	ND	ND	ND
Carbon tetrachloride	0.0050	0.0050	ND	ND	ND	ND	ND
Chlorobenzene	0.0050	0.0050	ND	ND	ND	ND	ND
Chloroethane	0.0050	0.0050	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	0.0050	0.0050	ND	ND	ND	ND	ND
Chloroform (Trichloromethane)	0.0050	0.0050	ND	ND	ND	ND	ND
Chloromethane (Methyl chloride)	0.0050	0.0050	ND	ND	ND	ND	ND
2-Chlorotoluene	0.0050	0.0050	ND	ND	ND	ND	ND
4-Chlorotoluene	0.0050	0.0050	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane (DBCP)	0.0050	0.0050	ND	ND	ND	ND	ND
Dibromochloromethane	0.0050	0.0050	ND	ND	ND	ND	ND
1,2-Dibromoethane (EDB)	0.0050	0.0050	ND	ND	ND	ND	ND
Dibromomethane	0.0050	0.0050	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	0.0050	0.0050	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	0.0050	0.0050	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	0.0050	0.0050	ND	ND	ND	ND	ND



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ANALYTICAL RESULTS

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Project ID: HF00710004
 Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0301192A2

Our Lab I.D.		Method Blank	96484.01	96484.02	96484.03	96484.04	
Client Sample I.D.			B2-1	B2-2	B2-3	B5-1	
Date Sampled			02/28/2019	02/28/2019	02/28/2019	02/28/2019	
Date Prepared		03/02/2019	02/28/2019	02/28/2019	02/28/2019	02/28/2019	
Preparation Method		5030	5035A	5035A	5035A	5035A	
Date Analyzed		03/02/2019	03/02/2019	03/02/2019	03/02/2019	03/02/2019	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Dichlorodifluoromethane	0.0050	0.0050	ND	ND	ND	ND	ND
1,1-Dichloroethane	0.0050	0.0050	ND	ND	ND	ND	ND
1,2-Dichloroethane (EDC)	0.0050	0.0050	ND	ND	ND	ND	ND
1,1-Dichloroethene	0.0050	0.0050	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.0050	0.0050	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	0.0050	0.0050	ND	ND	ND	ND	ND
1,2-Dichloropropane	0.0050	0.0050	ND	ND	ND	ND	ND
1,3-Dichloropropane	0.0050	0.0050	ND	ND	ND	ND	ND
2,2-Dichloropropane	0.0050	0.0050	ND	ND	ND	ND	ND
1,1-Dichloropropene	0.0050	0.0050	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.0050	0.0050	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.0050	0.0050	ND	ND	ND	ND	ND
Ethylbenzene	0.0010	0.0050	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.0050	0.0050	ND	ND	ND	ND	ND
2-Hexanone	0.0050	0.0050	ND	ND	ND	ND	ND
Iodomethane	0.0050	0.0050	ND	ND	ND	ND	ND
Isopropylbenzene	0.0050	0.0050	ND	ND	ND	ND	ND
p-Isopropyltoluene	0.0050	0.0050	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	0.0050	0.0050	ND	ND	ND	ND	ND
Methylene chloride (DCM)	0.0050	0.0050	ND	ND	ND	ND	ND
Naphthalene	0.0050	0.0050	ND	ND	ND	ND	ND
n-Propylbenzene	0.0050	0.0050	ND	ND	ND	ND	ND
Styrene	0.0050	0.0050	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	0.0050	0.0050	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.0050	0.0050	ND	ND	ND	ND	ND
Tetrachloroethene	0.0050	0.0050	ND	ND	ND	ND	ND
Toluene (Methyl benzene)	0.0010	0.0050	ND	ND	0.00122J	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0050	0.0050	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	0.0050	0.0050	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.0050	0.0050	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.0050	0.0050	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.0050	0.0050	ND	ND	ND	ND	ND
Trichloroethene	0.0050	0.0050	ND	ND	ND	ND	ND
Trichlorofluoromethane	0.0050	0.0050	ND	ND	ND	ND	ND



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ANALYTICAL RESULTS

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Project ID: HF00710004
 Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0301192A2

Our Lab I.D.		Method Blank	96484.01	96484.02	96484.03	96484.04	
Client Sample I.D.			B2-1	B2-2	B2-3	B5-1	
Date Sampled			02/28/2019	02/28/2019	02/28/2019	02/28/2019	
Date Prepared		03/02/2019	02/28/2019	02/28/2019	02/28/2019	02/28/2019	
Preparation Method		5030	5035A	5035A	5035A	5035A	
Date Analyzed		03/02/2019	03/02/2019	03/02/2019	03/02/2019	03/02/2019	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
1,2,3-Trichloropropane	0.0050	0.0050	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	0.0050	0.0050	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	0.0050	0.0050	ND	ND	ND	ND	ND
Vinyl Acetate	0.0050	0.0050	ND	ND	ND	ND	ND
Vinyl chloride (Chloroethene)	0.0050	0.0050	ND	ND	ND	ND	ND
o-Xylene	0.0010	0.0050	ND	ND	ND	ND	ND
m,p-Xylenes	0.0010	0.0050	ND	ND	ND	ND	ND
tert-Butyl alcohol (TBA)	0.0200	0.0200	ND	ND	ND	ND	ND
Diisopropyl ether (DIPE)	0.0020	0.0020	ND	ND	ND	ND	ND
Ethyl alcohol (Ethanol)	0.100	0.100	ND	ND	ND	ND	ND
Ethyl-tert-butyl ether (ETBE)	0.0020	0.0020	ND	ND	ND	ND	ND
Methyl-tert-butyl ether (MTBE)	0.0050	0.0050	ND	ND	ND	ND	ND
tert-Amyl methyl ether (TAME)	0.0020	0.0020	ND	ND	ND	ND	ND
Our Lab I.D.		Method Blank	96484.01	96484.02	96484.03	96484.04	
Surrogates	%Rec.Limit	% Rec.	% Rec.	% Rec.	% Rec.	% Rec.	
Bromofluorobenzene	75-125	96.1	96.5	97.6	94.8	96.2	
Dibromofluoromethane	75-125	118	120	120	122	120	
Toluene-d8	75-125	95.3	94.2	95.0	96.1	95.1	



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ANALYTICAL RESULTS

Ordered By

LA County Dept. of Public Works
 GMED
 900 S. Fremont Ave, 4th Floor
 Alhambra, CA 91803-

Site

Devil's Gate Reservoir Restor.

Telephone: (626)458-4923

Attn: Greg Sena

Page: 5

Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0301192A2

Our Lab I.D.			96484.05	96484.06	96484.07	96484.08	96484.09
Client Sample I.D.			B5-2	B5-3	B5-4	B6-1	B6-2
Date Sampled			02/28/2019	02/28/2019	02/28/2019	02/28/2019	02/28/2019
Date Prepared			02/28/2019	02/28/2019	02/28/2019	02/28/2019	02/28/2019
Preparation Method			5035A	5035A	5035A	5035A	5035A
Date Analyzed			03/02/2019	03/02/2019	03/02/2019	03/02/2019	03/02/2019
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Acetone	0.0050	0.0050	ND	ND	ND	ND	ND
Benzene	0.0010	0.0050	0.00285J	ND	ND	0.00713	0.00128J
Bromobenzene (Phenyl bromide)	0.0050	0.0050	ND	ND	ND	ND	ND
Bromochloromethane	0.0050	0.0050	ND	ND	ND	ND	ND
Bromodichloromethane	0.0050	0.0050	ND	ND	ND	ND	ND
Bromoform (Tribromomethane)	0.0050	0.0050	ND	ND	ND	ND	ND
Bromomethane (Methyl bromide)	0.0050	0.0050	ND	ND	ND	ND	ND
2-Butanone (MEK)	0.0050	0.0050	ND	ND	ND	ND	ND
n-Butylbenzene	0.0050	0.0050	ND	ND	ND	ND	ND
sec-Butylbenzene	0.0050	0.0050	ND	ND	ND	ND	ND
tert-Butylbenzene	0.0050	0.0050	ND	ND	ND	ND	ND
Carbon Disulfide	0.0050	0.0050	ND	ND	ND	ND	ND
Carbon tetrachloride	0.0050	0.0050	ND	ND	ND	ND	ND
Chlorobenzene	0.0050	0.0050	ND	ND	ND	ND	ND
Chloroethane	0.0050	0.0050	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	0.0050	0.0050	ND	ND	ND	ND	ND
Chloroform (Trichloromethane)	0.0050	0.0050	ND	ND	ND	ND	ND
Chloromethane (Methyl chloride)	0.0050	0.0050	ND	ND	ND	ND	ND
2-Chlorotoluene	0.0050	0.0050	ND	ND	ND	ND	ND
4-Chlorotoluene	0.0050	0.0050	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane (DBCP)	0.0050	0.0050	ND	ND	ND	ND	ND
Dibromochloromethane	0.0050	0.0050	ND	ND	ND	ND	ND
1,2-Dibromoethane (EDB)	0.0050	0.0050	ND	ND	ND	ND	ND
Dibromomethane	0.0050	0.0050	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	0.0050	0.0050	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	0.0050	0.0050	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	0.0050	0.0050	ND	ND	ND	ND	ND



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ANALYTICAL RESULTS

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Project ID: HF00710004
 Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0301192A2

Our Lab I.D.			96484.05	96484.06	96484.07	96484.08	96484.09
Client Sample I.D.			B5-2	B5-3	B5-4	B6-1	B6-2
Date Sampled			02/28/2019	02/28/2019	02/28/2019	02/28/2019	02/28/2019
Date Prepared			02/28/2019	02/28/2019	02/28/2019	02/28/2019	02/28/2019
Preparation Method			5035A	5035A	5035A	5035A	5035A
Date Analyzed			03/02/2019	03/02/2019	03/02/2019	03/02/2019	03/02/2019
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Dichlorodifluoromethane	0.0050	0.0050	ND	ND	ND	ND	ND
1,1-Dichloroethane	0.0050	0.0050	ND	ND	ND	ND	ND
1,2-Dichloroethane (EDC)	0.0050	0.0050	ND	ND	ND	ND	ND
1,1-Dichloroethene	0.0050	0.0050	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.0050	0.0050	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	0.0050	0.0050	ND	ND	ND	ND	ND
1,2-Dichloropropane	0.0050	0.0050	ND	ND	ND	ND	ND
1,3-Dichloropropane	0.0050	0.0050	ND	ND	ND	ND	ND
2,2-Dichloropropane	0.0050	0.0050	ND	ND	ND	ND	ND
1,1-Dichloropropene	0.0050	0.0050	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.0050	0.0050	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.0050	0.0050	ND	ND	ND	ND	ND
Ethylbenzene	0.0010	0.0050	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.0050	0.0050	ND	ND	ND	ND	ND
2-Hexanone	0.0050	0.0050	ND	ND	ND	ND	ND
Iodomethane	0.0050	0.0050	ND	ND	ND	ND	ND
Isopropylbenzene	0.0050	0.0050	ND	ND	ND	ND	ND
p-Isopropyltoluene	0.0050	0.0050	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	0.0050	0.0050	ND	ND	ND	ND	ND
Methylene chloride (DCM)	0.0050	0.0050	ND	ND	ND	ND	ND
Naphthalene	0.0050	0.0050	ND	ND	ND	ND	ND
n-Propylbenzene	0.0050	0.0050	ND	ND	ND	ND	ND
Styrene	0.0050	0.0050	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	0.0050	0.0050	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.0050	0.0050	ND	ND	ND	ND	ND
Tetrachloroethene	0.0050	0.0050	ND	ND	ND	ND	ND
Toluene (Methyl benzene)	0.0010	0.0050	ND	ND	ND	0.00213J	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0050	0.0050	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	0.0050	0.0050	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.0050	0.0050	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.0050	0.0050	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.0050	0.0050	ND	ND	ND	ND	ND
Trichloroethene	0.0050	0.0050	ND	ND	ND	ND	ND
Trichlorofluoromethane	0.0050	0.0050	ND	ND	ND	ND	ND



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ANALYTICAL RESULTS

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Project ID: HF00710004
 Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0301192A2

Our Lab I.D.			96484.05	96484.06	96484.07	96484.08	96484.09
Client Sample I.D.			B5-2	B5-3	B5-4	B6-1	B6-2
Date Sampled			02/28/2019	02/28/2019	02/28/2019	02/28/2019	02/28/2019
Date Prepared			02/28/2019	02/28/2019	02/28/2019	02/28/2019	02/28/2019
Preparation Method			5035A	5035A	5035A	5035A	5035A
Date Analyzed			03/02/2019	03/02/2019	03/02/2019	03/02/2019	03/02/2019
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results	Results
1,2,3-Trichloropropane	0.0050	0.0050	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	0.0050	0.0050	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	0.0050	0.0050	ND	ND	ND	ND	ND
Vinyl Acetate	0.0050	0.0050	ND	ND	ND	ND	ND
Vinyl chloride (Chloroethene)	0.0050	0.0050	ND	ND	ND	ND	ND
o-Xylene	0.0010	0.0050	ND	ND	ND	ND	ND
m,p-Xylenes	0.0010	0.0050	ND	ND	ND	ND	ND
tert-Butyl alcohol (TBA)	0.0200	0.0200	ND	ND	ND	ND	ND
Diisopropyl ether (DIPE)	0.0020	0.0020	ND	ND	ND	ND	ND
Ethyl alcohol (Ethanol)	0.100	0.100	ND	ND	ND	ND	ND
Ethyl-tert-butyl ether (ETBE)	0.0020	0.0020	ND	ND	ND	ND	ND
Methyl-tert-butyl ether (MTBE)	0.0050	0.0050	ND	ND	ND	ND	ND
tert-Amyl methyl ether (TAME)	0.0020	0.0020	ND	ND	ND	ND	ND
Our Lab I.D.			96484.05	96484.06	96484.07	96484.08	96484.09
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Bromofluorobenzene	75-125		96.2	96.7	97.1	97.1	94.7
Dibromofluoromethane	75-125		115	113	110	113	113
Toluene-d8	75-125		95.3	94.4	94.6	94.6	92.6



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Ordered By

LA County Dept. of Public Works
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 900 S. Fremont Ave, 4th Floor
 Alhambra, CA 91803-

Site

Devil's Gate Reservoir Restor.

Telephone: (626)458-4923

Attn: Greg Sena

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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0302192A1

Our Lab I.D.			Method Blank	96484.10	96484.11	96484.12	96484.13
Client Sample I.D.				B6-3	B6-4	B7-1	B7-2
Date Sampled				02/28/2019	02/28/2019	02/28/2019	02/28/2019
Date Prepared			03/02/2019	02/28/2019	02/28/2019	02/28/2019	02/28/2019
Preparation Method			5030	5035A	5035A	5035A	5035A
Date Analyzed			03/02/2019	03/02/2019	03/02/2019	03/02/2019	03/02/2019
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Acetone	0.0050	0.0050	ND	ND	ND	ND	ND
Benzene	0.0010	0.0050	ND	0.00100J	0.00387J	0.00322J	0.00200J
Bromobenzene (Phenyl bromide)	0.0050	0.0050	ND	ND	ND	ND	ND
Bromochloromethane	0.0050	0.0050	ND	ND	ND	ND	ND
Bromodichloromethane	0.0050	0.0050	ND	ND	ND	ND	ND
Bromoform (Tribromomethane)	0.0050	0.0050	ND	ND	ND	ND	ND
Bromomethane (Methyl bromide)	0.0050	0.0050	ND	ND	ND	ND	ND
2-Butanone (MEK)	0.0050	0.0050	ND	ND	ND	ND	ND
n-Butylbenzene	0.0050	0.0050	ND	ND	ND	ND	ND
sec-Butylbenzene	0.0050	0.0050	ND	ND	ND	ND	ND
tert-Butylbenzene	0.0050	0.0050	ND	ND	ND	ND	ND
Carbon Disulfide	0.0050	0.0050	ND	ND	ND	ND	ND
Carbon tetrachloride	0.0050	0.0050	ND	ND	ND	ND	ND
Chlorobenzene	0.0050	0.0050	ND	ND	ND	ND	ND
Chloroethane	0.0050	0.0050	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	0.0050	0.0050	ND	ND	ND	ND	ND
Chloroform (Trichloromethane)	0.0050	0.0050	ND	ND	ND	ND	ND
Chloromethane (Methyl chloride)	0.0050	0.0050	ND	ND	ND	ND	ND
2-Chlorotoluene	0.0050	0.0050	ND	ND	ND	ND	ND
4-Chlorotoluene	0.0050	0.0050	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane (DBCP)	0.0050	0.0050	ND	ND	ND	ND	ND
Dibromochloromethane	0.0050	0.0050	ND	ND	ND	ND	ND
1,2-Dibromoethane (EDB)	0.0050	0.0050	ND	ND	ND	ND	ND
Dibromomethane	0.0050	0.0050	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	0.0050	0.0050	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	0.0050	0.0050	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	0.0050	0.0050	ND	ND	ND	ND	ND



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ANALYTICAL RESULTS

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Project ID: HF00710004
 Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0302192A1

Our Lab I.D.		Method Blank	96484.10	96484.11	96484.12	96484.13	
Client Sample I.D.			B6-3	B6-4	B7-1	B7-2	
Date Sampled			02/28/2019	02/28/2019	02/28/2019	02/28/2019	
Date Prepared		03/02/2019	02/28/2019	02/28/2019	02/28/2019	02/28/2019	
Preparation Method		5030	5035A	5035A	5035A	5035A	
Date Analyzed		03/02/2019	03/02/2019	03/02/2019	03/02/2019	03/02/2019	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Dichlorodifluoromethane	0.0050	0.0050	ND	ND	ND	ND	ND
1,1-Dichloroethane	0.0050	0.0050	ND	ND	ND	ND	ND
1,2-Dichloroethane (EDC)	0.0050	0.0050	ND	ND	ND	ND	ND
1,1-Dichloroethene	0.0050	0.0050	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.0050	0.0050	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	0.0050	0.0050	ND	ND	ND	ND	ND
1,2-Dichloropropane	0.0050	0.0050	ND	ND	ND	ND	ND
1,3-Dichloropropane	0.0050	0.0050	ND	ND	ND	ND	ND
2,2-Dichloropropane	0.0050	0.0050	ND	ND	ND	ND	ND
1,1-Dichloropropene	0.0050	0.0050	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.0050	0.0050	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.0050	0.0050	ND	ND	ND	ND	ND
Ethylbenzene	0.0010	0.0050	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.0050	0.0050	ND	ND	ND	ND	ND
2-Hexanone	0.0050	0.0050	ND	ND	ND	ND	ND
Iodomethane	0.0050	0.0050	ND	ND	ND	ND	ND
Isopropylbenzene	0.0050	0.0050	ND	ND	ND	ND	ND
p-Isopropyltoluene	0.0050	0.0050	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	0.0050	0.0050	ND	ND	ND	ND	ND
Methylene chloride (DCM)	0.0050	0.0050	ND	ND	ND	ND	ND
Naphthalene	0.0050	0.0050	ND	ND	ND	ND	ND
n-Propylbenzene	0.0050	0.0050	ND	ND	ND	ND	ND
Styrene	0.0050	0.0050	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	0.0050	0.0050	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.0050	0.0050	ND	ND	ND	ND	ND
Tetrachloroethene	0.0050	0.0050	ND	ND	ND	ND	ND
Toluene (Methyl benzene)	0.0010	0.0050	ND	ND	0.00100J	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0050	0.0050	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	0.0050	0.0050	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.0050	0.0050	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.0050	0.0050	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.0050	0.0050	ND	ND	ND	ND	ND
Trichloroethene	0.0050	0.0050	ND	ND	ND	ND	ND
Trichlorofluoromethane	0.0050	0.0050	ND	ND	ND	ND	ND



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ANALYTICAL RESULTS

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Project ID: HF00710004
 Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0302192A1

Our Lab I.D.		Method Blank	96484.10	96484.11	96484.12	96484.13	
Client Sample I.D.			B6-3	B6-4	B7-1	B7-2	
Date Sampled			02/28/2019	02/28/2019	02/28/2019	02/28/2019	
Date Prepared		03/02/2019	02/28/2019	02/28/2019	02/28/2019	02/28/2019	
Preparation Method		5030	5035A	5035A	5035A	5035A	
Date Analyzed		03/02/2019	03/02/2019	03/02/2019	03/02/2019	03/02/2019	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
1,2,3-Trichloropropane	0.0050	0.0050	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	0.0050	0.0050	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	0.0050	0.0050	ND	ND	ND	ND	ND
Vinyl Acetate	0.0050	0.0050	ND	ND	ND	ND	ND
Vinyl chloride (Chloroethene)	0.0050	0.0050	ND	ND	ND	ND	ND
o-Xylene	0.0010	0.0050	ND	ND	ND	ND	ND
m,p-Xylenes	0.0010	0.0050	ND	ND	ND	ND	ND
tert-Butyl alcohol (TBA)	0.0200	0.0200	ND	ND	ND	ND	ND
Diisopropyl ether (DIPE)	0.0020	0.0020	ND	ND	ND	ND	ND
Ethyl alcohol (Ethanol)	0.100	0.100	ND	ND	ND	ND	ND
Ethyl-tert-butyl ether (ETBE)	0.0020	0.0020	ND	ND	ND	ND	ND
Methyl-tert-butyl ether (MTBE)	0.0050	0.0050	ND	ND	ND	ND	ND
tert-Amyl methyl ether (TAME)	0.0020	0.0020	ND	ND	ND	ND	ND
Our Lab I.D.		Method Blank	96484.10	96484.11	96484.12	96484.13	
Surrogates	%Rec.Limit	% Rec.	% Rec.	% Rec.	% Rec.	% Rec.	
Bromofluorobenzene	75-125	95.3	95.3	96.0	98.1	94.8	
Dibromofluoromethane	75-125	109	107	107	110	106	
Toluene-d8	75-125	94.9	93.7	92.9	93.1	91.9	



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Ordered By

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 GMED
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Site

Devil's Gate Reservoir Restor.

Telephone: (626)458-4923

Attn: Greg Sena

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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0302192A1

Our Lab I.D.			96484.14	96484.15	96484.16	96484.17	96484.18
Client Sample I.D.			B7-3	B7-4	B7-5	B8-1	B8-2
Date Sampled			02/28/2019	02/28/2019	02/28/2019	02/28/2019	02/28/2019
Date Prepared			02/28/2019	02/28/2019	02/28/2019	02/28/2019	02/28/2019
Preparation Method			5035A	5035A	5035A	5035A	5035A
Date Analyzed			03/02/2019	03/02/2019	03/02/2019	03/02/2019	03/02/2019
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Acetone	0.0050	0.0050	ND	ND	ND	ND	ND
Benzene	0.0010	0.0050	0.00215J	0.00200J	ND	0.00206J	0.00182J
Bromobenzene (Phenyl bromide)	0.0050	0.0050	ND	ND	ND	ND	ND
Bromochloromethane	0.0050	0.0050	ND	ND	ND	ND	ND
Bromodichloromethane	0.0050	0.0050	ND	ND	ND	ND	ND
Bromoform (Tribromomethane)	0.0050	0.0050	ND	ND	ND	ND	ND
Bromomethane (Methyl bromide)	0.0050	0.0050	ND	ND	ND	ND	ND
2-Butanone (MEK)	0.0050	0.0050	ND	ND	ND	ND	ND
n-Butylbenzene	0.0050	0.0050	ND	ND	ND	ND	ND
sec-Butylbenzene	0.0050	0.0050	ND	ND	ND	ND	ND
tert-Butylbenzene	0.0050	0.0050	ND	ND	ND	ND	ND
Carbon Disulfide	0.0050	0.0050	ND	ND	ND	ND	ND
Carbon tetrachloride	0.0050	0.0050	ND	ND	ND	ND	ND
Chlorobenzene	0.0050	0.0050	ND	ND	ND	ND	ND
Chloroethane	0.0050	0.0050	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	0.0050	0.0050	ND	ND	ND	ND	ND
Chloroform (Trichloromethane)	0.0050	0.0050	ND	ND	ND	ND	ND
Chloromethane (Methyl chloride)	0.0050	0.0050	ND	ND	ND	ND	ND
2-Chlorotoluene	0.0050	0.0050	ND	ND	ND	ND	ND
4-Chlorotoluene	0.0050	0.0050	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane (DBCP)	0.0050	0.0050	ND	ND	ND	ND	ND
Dibromochloromethane	0.0050	0.0050	ND	ND	ND	ND	ND
1,2-Dibromoethane (EDB)	0.0050	0.0050	ND	ND	ND	ND	ND
Dibromomethane	0.0050	0.0050	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	0.0050	0.0050	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	0.0050	0.0050	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	0.0050	0.0050	ND	ND	ND	ND	ND



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ANALYTICAL RESULTS

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Project ID: HF00710004
 Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0302192A1

Our Lab I.D.			96484.14	96484.15	96484.16	96484.17	96484.18
Client Sample I.D.			B7-3	B7-4	B7-5	B8-1	B8-2
Date Sampled			02/28/2019	02/28/2019	02/28/2019	02/28/2019	02/28/2019
Date Prepared			02/28/2019	02/28/2019	02/28/2019	02/28/2019	02/28/2019
Preparation Method			5035A	5035A	5035A	5035A	5035A
Date Analyzed			03/02/2019	03/02/2019	03/02/2019	03/02/2019	03/02/2019
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Dichlorodifluoromethane	0.0050	0.0050	ND	ND	ND	ND	ND
1,1-Dichloroethane	0.0050	0.0050	ND	ND	ND	ND	ND
1,2-Dichloroethane (EDC)	0.0050	0.0050	ND	ND	ND	ND	ND
1,1-Dichloroethene	0.0050	0.0050	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.0050	0.0050	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	0.0050	0.0050	ND	ND	ND	ND	ND
1,2-Dichloropropane	0.0050	0.0050	ND	ND	ND	ND	ND
1,3-Dichloropropane	0.0050	0.0050	ND	ND	ND	ND	ND
2,2-Dichloropropane	0.0050	0.0050	ND	ND	ND	ND	ND
1,1-Dichloropropene	0.0050	0.0050	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.0050	0.0050	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.0050	0.0050	ND	ND	ND	ND	ND
Ethylbenzene	0.0010	0.0050	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.0050	0.0050	ND	ND	ND	ND	ND
2-Hexanone	0.0050	0.0050	ND	ND	ND	ND	ND
Iodomethane	0.0050	0.0050	ND	ND	ND	ND	ND
Isopropylbenzene	0.0050	0.0050	ND	ND	ND	ND	ND
p-Isopropyltoluene	0.0050	0.0050	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	0.0050	0.0050	ND	ND	ND	ND	ND
Methylene chloride (DCM)	0.0050	0.0050	ND	ND	ND	ND	ND
Naphthalene	0.0050	0.0050	ND	ND	ND	ND	ND
n-Propylbenzene	0.0050	0.0050	ND	ND	ND	ND	ND
Styrene	0.0050	0.0050	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	0.0050	0.0050	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.0050	0.0050	ND	ND	ND	ND	ND
Tetrachloroethene	0.0050	0.0050	ND	ND	ND	ND	ND
Toluene (Methyl benzene)	0.0010	0.0050	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0050	0.0050	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	0.0050	0.0050	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.0050	0.0050	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.0050	0.0050	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.0050	0.0050	ND	ND	ND	ND	ND
Trichloroethene	0.0050	0.0050	ND	ND	ND	ND	ND
Trichlorofluoromethane	0.0050	0.0050	ND	ND	ND	ND	ND



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ANALYTICAL RESULTS

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Project ID: HF00710004
 Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0302192A1

Our Lab I.D.			96484.14	96484.15	96484.16	96484.17	96484.18
Client Sample I.D.			B7-3	B7-4	B7-5	B8-1	B8-2
Date Sampled			02/28/2019	02/28/2019	02/28/2019	02/28/2019	02/28/2019
Date Prepared			02/28/2019	02/28/2019	02/28/2019	02/28/2019	02/28/2019
Preparation Method			5035A	5035A	5035A	5035A	5035A
Date Analyzed			03/02/2019	03/02/2019	03/02/2019	03/02/2019	03/02/2019
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results	Results
1,2,3-Trichloropropane	0.0050	0.0050	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	0.0050	0.0050	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	0.0050	0.0050	ND	ND	ND	ND	ND
Vinyl Acetate	0.0050	0.0050	ND	ND	ND	ND	ND
Vinyl chloride (Chloroethene)	0.0050	0.0050	ND	ND	ND	ND	ND
o-Xylene	0.0010	0.0050	ND	ND	ND	ND	ND
m,p-Xylenes	0.0010	0.0050	ND	ND	ND	ND	ND
tert-Butyl alcohol (TBA)	0.0200	0.0200	ND	ND	ND	ND	ND
Diisopropyl ether (DIPE)	0.0020	0.0020	ND	ND	ND	ND	ND
Ethyl alcohol (Ethanol)	0.100	0.100	ND	ND	ND	ND	ND
Ethyl-tert-butyl ether (ETBE)	0.0020	0.0020	ND	ND	ND	ND	ND
Methyl-tert-butyl ether (MTBE)	0.0050	0.0050	ND	ND	ND	ND	ND
tert-Amyl methyl ether (TAME)	0.0020	0.0020	ND	ND	ND	ND	ND
Our Lab I.D.			96484.14	96484.15	96484.16	96484.17	96484.18
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Bromofluorobenzene	75-125		96.1	97.7	98.1	95.7	97.3
Dibromofluoromethane	75-125		109	108	110	107	108
Toluene-d8	75-125		91.1	92.4	94.1	92.8	93.7



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Devil's Gate Reservoir Restor.

Telephone: (626)458-4923

Attn: Greg Sena

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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0302192A1

Our Lab I.D.			96484.19	96484.20	96484.21		
Client Sample I.D.			B8-3	B8-4	B8-5		
Date Sampled			02/28/2019	02/28/2019	02/28/2019		
Date Prepared			02/28/2019	02/28/2019	02/28/2019		
Preparation Method			5035A	5035A	5035A		
Date Analyzed			03/02/2019	03/02/2019	03/02/2019		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	MDL	PQL	Results	Results	Results		
Acetone	0.0050	0.0050	ND	ND	ND		
Benzene	0.0010	0.0050	0.00147J	0.00407J	ND		
Bromobenzene (Phenyl bromide)	0.0050	0.0050	ND	ND	ND		
Bromochloromethane	0.0050	0.0050	ND	ND	ND		
Bromodichloromethane	0.0050	0.0050	ND	ND	ND		
Bromoform (Tribromomethane)	0.0050	0.0050	ND	ND	ND		
Bromomethane (Methyl bromide)	0.0050	0.0050	ND	ND	ND		
2-Butanone (MEK)	0.0050	0.0050	ND	ND	ND		
n-Butylbenzene	0.0050	0.0050	ND	ND	ND		
sec-Butylbenzene	0.0050	0.0050	ND	ND	ND		
tert-Butylbenzene	0.0050	0.0050	ND	ND	ND		
Carbon Disulfide	0.0050	0.0050	ND	ND	ND		
Carbon tetrachloride	0.0050	0.0050	ND	ND	ND		
Chlorobenzene	0.0050	0.0050	ND	ND	ND		
Chloroethane	0.0050	0.0050	ND	ND	ND		
2-Chloroethyl vinyl ether	0.0050	0.0050	ND	ND	ND		
Chloroform (Trichloromethane)	0.0050	0.0050	ND	ND	ND		
Chloromethane (Methyl chloride)	0.0050	0.0050	ND	ND	ND		
2-Chlorotoluene	0.0050	0.0050	ND	ND	ND		
4-Chlorotoluene	0.0050	0.0050	ND	ND	ND		
1,2-Dibromo-3-chloropropane (DBCP)	0.0050	0.0050	ND	ND	ND		
Dibromochloromethane	0.0050	0.0050	ND	ND	ND		
1,2-Dibromoethane (EDB)	0.0050	0.0050	ND	ND	ND		
Dibromomethane	0.0050	0.0050	ND	ND	ND		
1,2-Dichlorobenzene	0.0050	0.0050	ND	ND	ND		
1,3-Dichlorobenzene	0.0050	0.0050	ND	ND	ND		
1,4-Dichlorobenzene	0.0050	0.0050	ND	ND	ND		



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Project ID: HF00710004
 Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0302192A1

Our Lab I.D.			96484.19	96484.20	96484.21		
Client Sample I.D.			B8-3	B8-4	B8-5		
Date Sampled			02/28/2019	02/28/2019	02/28/2019		
Date Prepared			02/28/2019	02/28/2019	02/28/2019		
Preparation Method			5035A	5035A	5035A		
Date Analyzed			03/02/2019	03/02/2019	03/02/2019		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	MDL	PQL	Results	Results	Results		
Dichlorodifluoromethane	0.0050	0.0050	ND	ND	ND		
1,1-Dichloroethane	0.0050	0.0050	ND	ND	ND		
1,2-Dichloroethane (EDC)	0.0050	0.0050	ND	ND	ND		
1,1-Dichloroethene	0.0050	0.0050	ND	ND	ND		
cis-1,2-Dichloroethene	0.0050	0.0050	ND	ND	ND		
trans-1,2-Dichloroethene	0.0050	0.0050	ND	ND	ND		
1,2-Dichloropropane	0.0050	0.0050	ND	ND	ND		
1,3-Dichloropropane	0.0050	0.0050	ND	ND	ND		
2,2-Dichloropropane	0.0050	0.0050	ND	ND	ND		
1,1-Dichloropropene	0.0050	0.0050	ND	ND	ND		
cis-1,3-Dichloropropene	0.0050	0.0050	ND	ND	ND		
trans-1,3-Dichloropropene	0.0050	0.0050	ND	ND	ND		
Ethylbenzene	0.0010	0.0050	ND	ND	ND		
Hexachlorobutadiene	0.0050	0.0050	ND	ND	ND		
2-Hexanone	0.0050	0.0050	ND	ND	ND		
Iodomethane	0.0050	0.0050	ND	ND	ND		
Isopropylbenzene	0.0050	0.0050	ND	ND	ND		
p-Isopropyltoluene	0.0050	0.0050	ND	ND	ND		
4-Methyl-2-pentanone (MIBK)	0.0050	0.0050	ND	ND	ND		
Methylene chloride (DCM)	0.0050	0.0050	ND	ND	ND		
Naphthalene	0.0050	0.0050	ND	ND	ND		
n-Propylbenzene	0.0050	0.0050	ND	ND	ND		
Styrene	0.0050	0.0050	ND	ND	ND		
1,1,1,2-Tetrachloroethane	0.0050	0.0050	ND	ND	ND		
1,1,2,2-Tetrachloroethane	0.0050	0.0050	ND	ND	ND		
Tetrachloroethene	0.0050	0.0050	ND	ND	ND		
Toluene (Methyl benzene)	0.0010	0.0050	ND	ND	ND		
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0050	0.0050	ND	ND	ND		
1,2,3-Trichlorobenzene	0.0050	0.0050	ND	ND	ND		
1,2,4-Trichlorobenzene	0.0050	0.0050	ND	ND	ND		
1,1,1-Trichloroethane	0.0050	0.0050	ND	ND	ND		
1,1,2-Trichloroethane	0.0050	0.0050	ND	ND	ND		
Trichloroethene	0.0050	0.0050	ND	ND	ND		
Trichlorofluoromethane	0.0050	0.0050	ND	ND	ND		



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Project ID: HF00710004
 Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0302192A1

Our Lab I.D.			96484.19	96484.20	96484.21		
Client Sample I.D.			B8-3	B8-4	B8-5		
Date Sampled			02/28/2019	02/28/2019	02/28/2019		
Date Prepared			02/28/2019	02/28/2019	02/28/2019		
Preparation Method			5035A	5035A	5035A		
Date Analyzed			03/02/2019	03/02/2019	03/02/2019		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	MDL	PQL	Results	Results	Results		
1,2,3-Trichloropropane	0.0050	0.0050	ND	ND	ND		
1,2,4-Trimethylbenzene	0.0050	0.0050	ND	ND	ND		
1,3,5-Trimethylbenzene	0.0050	0.0050	ND	ND	ND		
Vinyl Acetate	0.0050	0.0050	ND	ND	ND		
Vinyl chloride (Chloroethene)	0.0050	0.0050	ND	ND	ND		
o-Xylene	0.0010	0.0050	ND	ND	ND		
m,p-Xylenes	0.0010	0.0050	ND	ND	ND		
tert-Butyl alcohol (TBA)	0.0200	0.0200	ND	ND	ND		
Diisopropyl ether (DIPE)	0.0020	0.0020	ND	ND	ND		
Ethyl alcohol (Ethanol)	0.100	0.100	ND	ND	ND		
Ethyl-tert-butyl ether (ETBE)	0.0020	0.0020	ND	ND	ND		
Methyl-tert-butyl ether (MTBE)	0.0050	0.0050	ND	ND	ND		
tert-Amyl methyl ether (TAME)	0.0020	0.0020	ND	ND	ND		
Our Lab I.D.			96484.19	96484.20	96484.21		
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.		
Bromofluorobenzene	75-125		95.3	96.1	95.1		
Dibromofluoromethane	75-125		105	109	107		
Toluene-d8	75-125		91.6	92.7	92.4		



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Telephone: (626)458-4923

Attn: Greg Sena

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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 0301190B2

Our Lab I.D.		Method Blank	96484.01	96484.02	96484.03	96484.04
Client Sample I.D.			B2-1	B2-2	B2-3	B5-1
Date Sampled			02/28/2019	02/28/2019	02/28/2019	02/28/2019
Date Prepared		03/02/2019	02/28/2019	02/28/2019	02/28/2019	02/28/2019
Preparation Method		5030	5035A	5035A	5035A	5035A
Date Analyzed		03/02/2019	03/02/2019	03/02/2019	03/02/2019	03/02/2019
Matrix		Soil	Soil	Soil	Soil	Soil
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor		1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results
TPH as Gasoline and Light HC. (C4-C12)	0.100	1.000	ND	ND	0.677J	ND
Our Lab I.D.		Method Blank	96484.01	96484.02	96484.03	96484.04
Surrogates	%Rec.Limit	% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Bromofluorobenzene	75-125	95.0	97.8	101	106	102



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Attn: Greg Sena

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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 0301190B2

Our Lab I.D.			96484.05	96484.06	96484.07	96484.08	96484.09
Client Sample I.D.			B5-2	B5-3	B5-4	B6-1	B6-2
Date Sampled			02/28/2019	02/28/2019	02/28/2019	02/28/2019	02/28/2019
Date Prepared			02/28/2019	02/28/2019	02/28/2019	02/28/2019	02/28/2019
Preparation Method			5035A	5035A	5035A	5035A	5035A
Date Analyzed			03/02/2019	03/02/2019	03/02/2019	03/02/2019	03/02/2019
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results	Results
TPH as Gasoline and Light HC. (C4-C12)	0.100	1.000	ND	ND	ND	ND	ND
Our Lab I.D.			96484.05	96484.06	96484.07	96484.08	96484.09
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Bromofluorobenzene	75-125		110	106	104	109	106



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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 030119OB2

Our Lab I.D.			96484.10	96484.11	96484.12	96484.13	96484.14
Client Sample I.D.			B6-3	B6-4	B7-1	B7-2	B7-3
Date Sampled			02/28/2019	02/28/2019	02/28/2019	02/28/2019	02/28/2019
Date Prepared			02/28/2019	02/28/2019	02/28/2019	02/28/2019	02/28/2019
Preparation Method			5035A	5035A	5035A	5035A	5035A
Date Analyzed			03/02/2019	03/02/2019	03/02/2019	03/02/2019	03/02/2019
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results	Results
TPH as Gasoline and Light HC. (C4-C12)	0.100	1.000	ND	ND	ND	ND	ND
Our Lab I.D.			96484.10	96484.11	96484.12	96484.13	96484.14
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Bromofluorobenzene	75-125		99.4	102	105	102	106



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Attn: Greg Sena

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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 0301190B2

Our Lab I.D.			96484.15			
Client Sample I.D.			B7-4			
Date Sampled			02/28/2019			
Date Prepared			02/28/2019			
Preparation Method			5035A			
Date Analyzed			03/02/2019			
Matrix			Soil			
Units			mg/Kg			
Dilution Factor			1			
Analytes	MDL	PQL	Results			
TPH as Gasoline and Light HC. (C4-C12)	0.100	1.000	ND			
Our Lab I.D.			96484.15			
Surrogates	%Rec.Limit		% Rec.			
Bromofluorobenzene	75-125		106			



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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 030119OB3

Our Lab I.D.			Method Blank	96484.16	96484.17	96484.18	
Client Sample I.D.				B7-5	B8-1	B8-2	
Date Sampled				02/28/2019	02/28/2019	02/28/2019	
Date Prepared			03/02/2019	02/28/2019	02/28/2019	02/28/2019	
Preparation Method			5030	5035A	5035A	5035A	
Date Analyzed			03/02/2019	03/02/2019	03/02/2019	03/02/2019	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	
TPH as Gasoline and Light HC. (C4-C12)	0.100	1.000	ND	ND	ND	ND	
Our Lab I.D.			Method Blank	96484.16	96484.17	96484.18	
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	
Bromofluorobenzene	75-125		95.8	105	114	102	



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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 030419NB1

Our Lab I.D.			Method Blank	96484.19	96484.20	96484.21	
Client Sample I.D.				B8-3	B8-4	B8-5	
Date Sampled				02/28/2019	02/28/2019	02/28/2019	
Date Prepared			03/04/2019	02/28/2019	02/28/2019	02/28/2019	
Preparation Method			5030	5035A	5035A	5035A	
Date Analyzed			03/04/2019	03/04/2019	03/04/2019	03/04/2019	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	
TPH as Gasoline and Light HC. (C4-C12)	0.100	1.000	ND	ND	ND	ND	
Our Lab I.D.			Method Blank	96484.19	96484.20	96484.21	
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	
Bromofluorobenzene	75-125		93.2	106	100	101	



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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 030119DB2

Our Lab I.D.		Method Blank	96484.01	96484.02	96484.03	96484.04	
Client Sample I.D.			B2-1	B2-2	B2-3	B5-1	
Date Sampled			02/28/2019	02/28/2019	02/28/2019	02/28/2019	
Date Prepared		03/01/2019	03/01/2019	03/01/2019	03/01/2019	03/01/2019	
Preparation Method		3550B	3550B	3550B	3550B	3550B	
Date Analyzed		03/01/2019	03/01/2019	03/01/2019	03/01/2019	03/01/2019	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
TPH as Diesel (C13-C22)	1.0	5.0	ND	7.33	9.64	5.12	ND
TPH as Heavy Hydrocarbons (C23-C40)	1.0	5.0	ND	5.39	11.1	5.26	ND
TPH Total as Diesel and Heavy HC.C13-C40	1.0	5.0	ND	12.7	20.7	10.4	ND
Our Lab I.D.		Method Blank	96484.01	96484.02	96484.03	96484.04	
Surrogates	%Rec.Limit	% Rec.	% Rec.	% Rec.	% Rec.	% Rec.	
Chlorobenzene	75-125	103	106	108	106	105	



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Devil's Gate Reservoir Restor.

Telephone: (626)458-4923

Attn: Greg Sena

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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 030119DB2

Our Lab I.D.			96484.05	96484.06	96484.07	96484.08	96484.09
Client Sample I.D.			B5-2	B5-3	B5-4	B6-1	B6-2
Date Sampled			02/28/2019	02/28/2019	02/28/2019	02/28/2019	02/28/2019
Date Prepared			03/01/2019	03/01/2019	03/01/2019	03/01/2019	03/01/2019
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			03/01/2019	03/01/2019	03/02/2019	03/02/2019	03/02/2019
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results	Results
TPH as Diesel (C13-C22)	1.0	5.0	3.97J	ND	ND	ND	6.83
TPH as Heavy Hydrocarbons (C23-C40)	1.0	5.0	14.1	ND	ND	8.02	16.6
TPH Total as Diesel and Heavy HC.C13-C40	1.0	5.0	18.1	ND	ND	8.02	23.4
Our Lab I.D.			96484.05	96484.06	96484.07	96484.08	96484.09
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Chlorobenzene	75-125		107	105	104	105	105



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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 030119DB2

Our Lab I.D.			96484.10	96484.11	96484.12	96484.13	96484.14
Client Sample I.D.			B6-3	B6-4	B7-1	B7-2	B7-3
Date Sampled			02/28/2019	02/28/2019	02/28/2019	02/28/2019	02/28/2019
Date Prepared			03/01/2019	03/01/2019	03/01/2019	03/01/2019	03/01/2019
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			03/02/2019	03/02/2019	03/02/2019	03/02/2019	03/02/2019
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results	Results
TPH as Diesel (C13-C22)	1.0	5.0	ND	ND	ND	ND	ND
TPH as Heavy Hydrocarbons (C23-C40)	1.0	5.0	ND	ND	9.01	45.2	85.8
TPH Total as Diesel and Heavy HC.C13-C40	1.0	5.0	ND	ND	9.01	45.2	85.8
Our Lab I.D.			96484.10	96484.11	96484.12	96484.13	96484.14
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Chlorobenzene	75-125		106	106	106	106	106



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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 030119DB2

Our Lab I.D.			96484.15	96484.16	96484.17		
Client Sample I.D.			B7-4	B7-5	B8-1		
Date Sampled			02/28/2019	02/28/2019	02/28/2019		
Date Prepared			03/01/2019	03/01/2019	03/01/2019		
Preparation Method			3550B	3550B	3550B		
Date Analyzed			03/02/2019	03/02/2019	03/02/2019		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	MDL	PQL	Results	Results	Results		
TPH as Diesel (C13-C22)	1.0	5.0	ND	ND	ND		
TPH as Heavy Hydrocarbons (C23-C40)	1.0	5.0	ND	ND	ND		
TPH Total as Diesel and Heavy HC.C13-C40	1.0	5.0	ND	ND	ND		
Our Lab I.D.			96484.15	96484.16	96484.17		
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.		
Chlorobenzene	75-125		104	105	108		



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Telephone: (626)458-4923

Attn: Greg Sena

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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 030119DB3

Our Lab I.D.		Method Blank	96484.18	96484.19	96484.20	96484.21	
Client Sample I.D.			B8-2	B8-3	B8-4	B8-5	
Date Sampled			02/28/2019	02/28/2019	02/28/2019	02/28/2019	
Date Prepared		03/01/2019	03/01/2019	03/01/2019	03/01/2019	03/01/2019	
Preparation Method		3550B	3550B	3550B	3550B	3550B	
Date Analyzed		03/02/2019	03/02/2019	03/02/2019	03/02/2019	03/02/2019	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
TPH as Diesel (C13-C22)	1.0	5.0	ND	ND	ND	ND	ND
TPH as Heavy Hydrocarbons (C23-C40)	1.0	5.0	ND	ND	12.6	22.6	ND
TPH Total as Diesel and Heavy HC.C13-C40	1.0	5.0	ND	ND	12.6	22.6	ND
Our Lab I.D.		Method Blank	96484.18	96484.19	96484.20	96484.21	
Surrogates	%Rec.Limit	% Rec.	% Rec.	% Rec.	% Rec.	% Rec.	
Chlorobenzene	75-125	102	101	106	107	103	



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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: TPHI, Total Petroleum Hydrocarbons Identification

QC Batch No: TPHI

Our Lab I.D.		Method Blank	96484.01	96484.02	96484.03	96484.04	
Client Sample I.D.			B2-1	B2-2	B2-3	B5-1	
Date Sampled			02/28/2019	02/28/2019	02/28/2019	02/28/2019	
Date Prepared		03/01/2019	03/01/2019	03/01/2019	03/01/2019	03/01/2019	
Preparation Method		3550B	3550B	3550B	3550B	3550B	
Date Analyzed		03/01/2019	03/01/2019	03/01/2019	03/01/2019	03/01/2019	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
TPH - Light Naptha	1.00	1.00	ND	ND	ND	ND	ND
TPH - Aviation Gas	1.00	1.00	ND	ND	ND	ND	ND
TPH - Stoddard Solvent	1.00	1.00	ND	ND	ND	ND	ND
TPH - Heavy Naptha	1.00	1.00	ND	ND	ND	ND	ND
TPH - Gasoline	1.00	1.00	ND	ND	ND	ND	ND
TPH - Jet Fuel (JP4)	1.00	5.00	ND	ND	ND	ND	ND
TPH - Jet Fuel (JP5)	1.00	5.00	ND	ND	ND	ND	ND
TPH - Jet Fuel (JP8)	1.00	5.00	ND	ND	ND	ND	ND
TPH - Kerosene	1.00	5.00	ND	ND	ND	ND	ND
TPH - Diesel (FFP)	1.00	5.00	ND	7.33	9.64	5.12	ND
TPH - Fuel Oil #6	1.00	5.00	ND	ND	ND	ND	ND
TPH - CrudeOil	1.00	5.00	ND	ND	ND	ND	ND
TPH - Hydraulic Oil / Motor Oil	1.00	5.00	ND	5.39	11.1	5.26	ND
TPH - WD-40	1.00	5.00	ND	ND	ND	ND	ND



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Telephone: (626)458-4923

Attn: Greg Sena

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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: TPHI, Total Petroleum Hydrocarbons Identification

QC Batch No: TPHI

Our Lab I.D.		96484.05	96484.06	96484.07	96484.08	96484.09	
Client Sample I.D.		B5-2	B5-3	B5-4	B6-1	B6-2	
Date Sampled		02/28/2019	02/28/2019	02/28/2019	02/28/2019	02/28/2019	
Date Prepared		03/01/2019	03/01/2019	03/01/2019	03/01/2019	03/01/2019	
Preparation Method		3550B	3550B	3550B	3550B	3550B	
Date Analyzed		03/01/2019	03/01/2019	03/01/2019	03/01/2019	03/01/2019	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
TPH - Light Naptha	1.00	1.00	ND	ND	ND	ND	ND
TPH - Aviation Gas	1.00	1.00	ND	ND	ND	ND	ND
TPH - Stoddard Solvent	1.00	1.00	ND	ND	ND	ND	ND
TPH - Heavy Naptha	1.00	1.00	ND	ND	ND	ND	ND
TPH - Gasoline	1.00	1.00	ND	ND	ND	ND	ND
TPH - Jet Fuel (JP4)	1.00	5.00	ND	ND	ND	ND	ND
TPH - Jet Fuel (JP5)	1.00	5.00	ND	ND	ND	ND	ND
TPH - Jet Fuel (JP8)	1.00	5.00	ND	ND	ND	ND	ND
TPH - Kerosene	1.00	5.00	ND	ND	ND	ND	ND
TPH - Diesel (FFP)	1.00	5.00	3.97J	ND	ND	ND	6.83
TPH - Fuel Oil #6	1.00	5.00	ND	ND	ND	ND	ND
TPH - CrudeOil	1.00	5.00	ND	ND	ND	ND	ND
TPH - Hydraulic Oil / Motor Oil	1.00	5.00	14.1	ND	ND	8.02	16.6
TPH - WD-40	1.00	5.00	ND	ND	ND	ND	ND



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Telephone: (626)458-4923

Attn: Greg Sena

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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: TPHI, Total Petroleum Hydrocarbons Identification

QC Batch No: TPHI

Our Lab I.D.		96484.10	96484.11	96484.12	96484.13	96484.14	
Client Sample I.D.		B6-3	B6-4	B7-1	B7-2	B7-3	
Date Sampled		02/28/2019	02/28/2019	02/28/2019	02/28/2019	02/28/2019	
Date Prepared		03/01/2019	03/01/2019	03/01/2019	03/01/2019	03/01/2019	
Preparation Method		3550B	3550B	3550B	3550B	3550B	
Date Analyzed		03/01/2019	03/01/2019	03/01/2019	03/01/2019	03/01/2019	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
TPH - Light Naptha	1.00	1.00	ND	ND	ND	ND	ND
TPH - Aviation Gas	1.00	1.00	ND	ND	ND	ND	ND
TPH - Stoddard Solvent	1.00	1.00	ND	ND	ND	ND	ND
TPH - Heavy Naptha	1.00	1.00	ND	ND	ND	ND	ND
TPH - Gasoline	1.00	1.00	ND	ND	ND	ND	ND
TPH - Jet Fuel (JP4)	1.00	5.00	ND	ND	ND	ND	ND
TPH - Jet Fuel (JP5)	1.00	5.00	ND	ND	ND	ND	ND
TPH - Jet Fuel (JP8)	1.00	5.00	ND	ND	ND	ND	ND
TPH - Kerosene	1.00	5.00	ND	ND	ND	ND	ND
TPH - Diesel (FFP)	1.00	5.00	ND	ND	ND	ND	ND
TPH - Fuel Oil #6	1.00	5.00	ND	ND	ND	ND	ND
TPH - CrudeOil	1.00	5.00	ND	ND	ND	ND	ND
TPH - Hydraulic Oil / Motor Oil	1.00	5.00	ND	ND	9.01	45.2	85.8
TPH - WD-40	1.00	5.00	ND	ND	ND	ND	ND



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Telephone: (626)458-4923

Attn: Greg Sena

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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: TPHI, Total Petroleum Hydrocarbons Identification

QC Batch No: TPHI

Our Lab I.D.		96484.15	96484.16	96484.17	96484.18	96484.19	
Client Sample I.D.		B7-4	B7-5	B8-1	B8-2	B8-3	
Date Sampled		02/28/2019	02/28/2019	02/28/2019	02/28/2019	02/28/2019	
Date Prepared		03/01/2019	03/01/2019	03/01/2019	03/01/2019	03/01/2019	
Preparation Method		3550B	3550B	3550B	3550B	3550B	
Date Analyzed		03/01/2019	03/01/2019	03/01/2019	03/02/2019	03/02/2019	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
TPH - Light Naptha	1.00	1.00	ND	ND	ND	ND	ND
TPH - Aviation Gas	1.00	1.00	ND	ND	ND	ND	ND
TPH - Stoddard Solvent	1.00	1.00	ND	ND	ND	ND	ND
TPH - Heavy Naptha	1.00	1.00	ND	ND	ND	ND	ND
TPH - Gasoline	1.00	1.00	ND	ND	ND	ND	ND
TPH - Jet Fuel (JP4)	1.00	5.00	ND	ND	ND	ND	ND
TPH - Jet Fuel (JP5)	1.00	5.00	ND	ND	ND	ND	ND
TPH - Jet Fuel (JP8)	1.00	5.00	ND	ND	ND	ND	ND
TPH - Kerosene	1.00	5.00	ND	ND	ND	ND	ND
TPH - Diesel (FFP)	1.00	5.00	ND	ND	ND	ND	ND
TPH - Fuel Oil #6	1.00	5.00	ND	ND	ND	ND	ND
TPH - CrudeOil	1.00	5.00	ND	ND	ND	ND	ND
TPH - Hydraulic Oil / Motor Oil	1.00	5.00	ND	ND	ND	ND	12.6
TPH - WD-40	1.00	5.00	ND	ND	ND	ND	ND



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Telephone: (626)458-4923

Attn: Greg Sena

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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: TPHI, Total Petroleum Hydrocarbons Identification

QC Batch No: TPHI

Our Lab I.D.		96484.20	96484.21			
Client Sample I.D.		B8-4	B8-5			
Date Sampled		02/28/2019	02/28/2019			
Date Prepared		03/01/2019	03/01/2019			
Preparation Method		3550B	3550B			
Date Analyzed		03/02/2019	03/02/2019			
Matrix		Soil	Soil			
Units		mg/Kg	mg/Kg			
Dilution Factor		1	1			
Analytes	MDL	PQL	Results	Results		
TPH - Light Naptha	1.00	1.00	ND	ND		
TPH - Aviation Gas	1.00	1.00	ND	ND		
TPH - Stoddard Solvent	1.00	1.00	ND	ND		
TPH - Heavy Naptha	1.00	1.00	ND	ND		
TPH - Gasoline	1.00	1.00	ND	ND		
TPH - Jet Fuel (JP4)	1.00	5.00	ND	ND		
TPH - Jet Fuel (JP5)	1.00	5.00	ND	ND		
TPH - Jet Fuel (JP8)	1.00	5.00	ND	ND		
TPH - Kerosene	1.00	5.00	ND	ND		
TPH - Diesel (FFP)	1.00	5.00	ND	ND		
TPH - Fuel Oil #6	1.00	5.00	ND	ND		
TPH - CrudeOil	1.00	5.00	ND	ND		
TPH - Hydraulic Oil / Motor Oil	1.00	5.00	22.6	ND		
TPH - WD-40	1.00	5.00	ND	ND		



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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8270C), Semivolatile Organic Compounds by GC/MS (SW-846)

QC Batch No: 030119JB1

Our Lab I.D.			Method Blank	96484.01	96484.02	96484.03	96484.04
Client Sample I.D.				B2-1	B2-2	B2-3	B5-1
Date Sampled				02/28/2019	02/28/2019	02/28/2019	02/28/2019
Date Prepared			03/01/2019	03/01/2019	03/01/2019	03/01/2019	03/01/2019
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			03/01/2019	03/01/2019	03/01/2019	03/01/2019	03/01/2019
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Acenaphthene	0.10	0.10	ND	ND	ND	ND	ND
Acenaphthylene	0.10	0.10	ND	ND	ND	ND	ND
Anthracene	0.10	0.10	ND	ND	ND	ND	ND
Azobenzene	0.10	0.10	ND	ND	ND	ND	ND
Benzidine	3.0	3.0	ND	ND	ND	ND	ND
Benzo(a)anthracene	0.10	0.10	ND	ND	ND	ND	ND
Benzo(a)pyrene	0.10	0.10	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.10	0.10	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.10	0.10	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	0.10	0.10	ND	ND	ND	ND	ND
Benzoic Acid	0.50	0.50	ND	ND	ND	ND	ND
Benzyl Alcohol	0.10	0.10	ND	ND	ND	ND	ND
Bis(2-Chloroethoxy)methane	0.10	0.10	ND	ND	ND	ND	ND
Bis(2-Chloroethyl)ether	0.10	0.10	ND	ND	ND	ND	ND
Bis(2-chloroisopropyl) ether	0.10	0.10	ND	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate	0.20	0.20	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	0.10	0.10	ND	ND	ND	ND	ND
Butyl benzyl phthalate	0.10	0.10	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	0.10	0.10	ND	ND	ND	ND	ND
4-Chloroaniline	0.10	0.10	ND	ND	ND	ND	ND
2-Chloronaphthalene	0.10	0.10	ND	ND	ND	ND	ND
2-Chlorophenol	0.10	0.10	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	0.10	0.10	ND	ND	ND	ND	ND
Chrysene	0.10	0.10	ND	ND	ND	ND	ND
Di-n-butyl phthalate	0.10	0.10	ND	ND	ND	ND	ND
Di-n-octyl phthalate (Diocetyl ester)	0.10	0.10	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	0.10	0.10	ND	ND	ND	ND	ND



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ANALYTICAL RESULTS

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Project ID: HF00710004
 Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8270C), Semivolatile Organic Compounds by GC/MS (SW-846)

QC Batch No: 030119JB1

Our Lab I.D.			Method Blank	96484.01	96484.02	96484.03	96484.04
Client Sample I.D.				B2-1	B2-2	B2-3	B5-1
Date Sampled				02/28/2019	02/28/2019	02/28/2019	02/28/2019
Date Prepared			03/01/2019	03/01/2019	03/01/2019	03/01/2019	03/01/2019
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			03/01/2019	03/01/2019	03/01/2019	03/01/2019	03/01/2019
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Dibenzofuran	0.10	0.10	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	0.10	0.10	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	0.10	0.10	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	0.10	0.10	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	0.10	0.10	ND	ND	ND	ND	ND
2,4-Dichlorophenol	0.10	0.10	ND	ND	ND	ND	ND
2,6-Dichlorophenol	0.10	0.10	ND	ND	ND	ND	ND
Diethyl phthalate (Diethyl ester)	0.10	0.10	ND	ND	ND	ND	ND
Dimethyl phthalate (Dimethyl ester)	0.10	0.10	ND	ND	ND	ND	ND
2,4-Dimethylphenol	0.10	0.10	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	0.10	0.10	ND	ND	ND	ND	ND
2,4-Dinitrophenol	0.10	0.10	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	0.10	0.10	ND	ND	ND	ND	ND
2,6-Dinitrotoluene (2,6-DNT)	0.10	0.10	ND	ND	ND	ND	ND
1,2-Diphenylhydrazine	0.10	0.10	ND	ND	ND	ND	ND
Fluoranthene	0.10	0.10	ND	ND	ND	ND	ND
Fluorene	0.10	0.10	ND	ND	ND	ND	ND
Hexachlorobenzene	0.10	0.10	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.10	0.10	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	0.10	0.10	ND	ND	ND	ND	ND
Hexachloroethane	0.10	0.10	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.10	0.10	ND	ND	ND	ND	ND
Isophorone	0.10	0.10	ND	ND	ND	ND	ND
2-Methylnaphthalene	0.10	0.10	ND	ND	ND	ND	ND
4-Methylphenol	0.10	0.10	ND	ND	ND	ND	ND
2-Methylphenol (2-Cresol)	0.10	0.10	ND	ND	ND	ND	ND
3-Methylphenol (3-Cresol)	0.10	0.10	ND	ND	ND	ND	ND
N-Nitroso-Di-n-propylamine	0.10	0.10	ND	ND	ND	ND	ND
Naphthalene	0.10	0.10	ND	ND	ND	ND	ND
2-Naphthylamine	3.0	3.0	ND	ND	ND	ND	ND
2-Nitroaniline	0.10	0.10	ND	ND	ND	ND	ND
3-Nitroaniline	0.10	0.10	ND	ND	ND	ND	ND
4-Nitroaniline	0.10	0.10	ND	ND	ND	ND	ND
Nitrobenzene (NB)	0.10	0.10	ND	ND	ND	ND	ND



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ANALYTICAL RESULTS

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Project ID: HF00710004
 Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8270C), Semivolatile Organic Compounds by GC/MS (SW-846)

QC Batch No: 030119JB1

Our Lab I.D.		Method Blank	96484.01	96484.02	96484.03	96484.04	
Client Sample I.D.			B2-1	B2-2	B2-3	B5-1	
Date Sampled			02/28/2019	02/28/2019	02/28/2019	02/28/2019	
Date Prepared		03/01/2019	03/01/2019	03/01/2019	03/01/2019	03/01/2019	
Preparation Method		3550B	3550B	3550B	3550B	3550B	
Date Analyzed		03/01/2019	03/01/2019	03/01/2019	03/01/2019	03/01/2019	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
4-Nitrophenol	0.10	0.10	ND	ND	ND	ND	ND
2-Nitrophenol (o-Nitrophenol)	0.10	0.10	ND	ND	ND	ND	ND
N-nitrosodiphenylamine	0.10	0.10	ND	ND	ND	ND	ND
Pentachlorophenol	0.10	0.10	ND	ND	ND	ND	ND
Phenanthrene	0.10	0.10	ND	ND	ND	ND	ND
Phenol	0.10	0.10	ND	ND	ND	ND	ND
Pyrene	0.10	0.10	ND	ND	ND	ND	ND
Pyridine	0.10	0.10	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.10	0.10	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	0.10	0.10	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	0.10	0.10	ND	ND	ND	ND	ND
Our Lab I.D.		Method Blank	96484.01	96484.02	96484.03	96484.04	
Surrogates	%Rec.Limit	% Rec.	% Rec.	% Rec.	% Rec.	% Rec.	
2-Fluorophenol	25-121	65.2	62.2	64.6	58.4	44.4	
2-Fluorobiphenyl	30-115	83.2	72.8	72.4	68.8	50.4	
Nitrobenzene-d5	23-120	78.0	69.6	71.2	64.8	46.8	
Phenol-d6	21-113	69.8	65.2	66.2	61.2	47.4	
p-Terphenyl-D14	18-137	88.0	82.4	88.0	80.8	57.2	
2,4,6-Tribromophenol	19-122	84.2	69.8	70.6	72.2	49.4	



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Ordered By

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GMED
900 S. Fremont Ave, 4th Floor
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Site

Devil's Gate Reservoir Restor.

Telephone: (626)458-4923

Attn: Greg Sena

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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8270C), Semivolatile Organic Compounds by GC/MS (SW-846)

QC Batch No: 030119JB1

Our Lab I.D.			96484.05	96484.06	96484.07	96484.08	96484.09
Client Sample I.D.			B5-2	B5-3	B5-4	B6-1	B6-2
Date Sampled			02/28/2019	02/28/2019	02/28/2019	02/28/2019	02/28/2019
Date Prepared			03/01/2019	03/01/2019	03/01/2019	03/01/2019	03/01/2019
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			03/04/2019	03/01/2019	03/01/2019	03/04/2019	03/04/2019
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Acenaphthene	0.10	0.10	ND	ND	ND	ND	ND
Acenaphthylene	0.10	0.10	ND	ND	ND	ND	ND
Anthracene	0.10	0.10	ND	ND	ND	ND	ND
Azobenzene	0.10	0.10	ND	ND	ND	ND	ND
Benzidine	3.0	3.0	ND	ND	ND	ND	ND
Benzo(a)anthracene	0.10	0.10	ND	ND	ND	ND	ND
Benzo(a)pyrene	0.10	0.10	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.10	0.10	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.10	0.10	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	0.10	0.10	ND	ND	ND	ND	ND
Benzoic Acid	0.50	0.50	ND	ND	ND	ND	ND
Benzyl Alcohol	0.10	0.10	ND	ND	ND	ND	ND
Bis(2-Chloroethoxy)methane	0.10	0.10	ND	ND	ND	ND	ND
Bis(2-Chloroethyl)ether	0.10	0.10	ND	ND	ND	ND	ND
Bis(2-chloroisopropyl) ether	0.10	0.10	ND	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate	0.20	0.20	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	0.10	0.10	ND	ND	ND	ND	ND
Butyl benzyl phthalate	0.10	0.10	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	0.10	0.10	ND	ND	ND	ND	ND
4-Chloroaniline	0.10	0.10	ND	ND	ND	ND	ND
2-Chloronaphthalene	0.10	0.10	ND	ND	ND	ND	ND
2-Chlorophenol	0.10	0.10	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	0.10	0.10	ND	ND	ND	ND	ND
Chrysene	0.10	0.10	ND	ND	ND	ND	ND
Di-n-butyl phthalate	0.10	0.10	ND	ND	ND	ND	ND
Di-n-octyl phthalate (Diocetyl ester)	0.10	0.10	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	0.10	0.10	ND	ND	ND	ND	ND



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Project ID: HF00710004
 Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8270C), Semivolatile Organic Compounds by GC/MS (SW-846)

QC Batch No: 030119JB1

Our Lab I.D.			96484.05	96484.06	96484.07	96484.08	96484.09
Client Sample I.D.			B5-2	B5-3	B5-4	B6-1	B6-2
Date Sampled			02/28/2019	02/28/2019	02/28/2019	02/28/2019	02/28/2019
Date Prepared			03/01/2019	03/01/2019	03/01/2019	03/01/2019	03/01/2019
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			03/04/2019	03/01/2019	03/01/2019	03/04/2019	03/04/2019
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Dibenzofuran	0.10	0.10	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	0.10	0.10	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	0.10	0.10	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	0.10	0.10	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	0.10	0.10	ND	ND	ND	ND	ND
2,4-Dichlorophenol	0.10	0.10	ND	ND	ND	ND	ND
2,6-Dichlorophenol	0.10	0.10	ND	ND	ND	ND	ND
Diethyl phthalate (Diethyl ester)	0.10	0.10	ND	ND	ND	ND	ND
Dimethyl phthalate (Dimethyl ester)	0.10	0.10	ND	ND	ND	ND	ND
2,4-Dimethylphenol	0.10	0.10	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	0.10	0.10	ND	ND	ND	ND	ND
2,4-Dinitrophenol	0.10	0.10	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	0.10	0.10	ND	ND	ND	ND	ND
2,6-Dinitrotoluene (2,6-DNT)	0.10	0.10	ND	ND	ND	ND	ND
1,2-Diphenylhydrazine	0.10	0.10	ND	ND	ND	ND	ND
Fluoranthene	0.10	0.10	ND	ND	ND	ND	ND
Fluorene	0.10	0.10	ND	ND	ND	ND	ND
Hexachlorobenzene	0.10	0.10	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.10	0.10	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	0.10	0.10	ND	ND	ND	ND	ND
Hexachloroethane	0.10	0.10	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.10	0.10	ND	ND	ND	ND	ND
Isophorone	0.10	0.10	ND	ND	ND	ND	ND
2-Methylnaphthalene	0.10	0.10	ND	ND	ND	ND	ND
4-Methylphenol	0.10	0.10	ND	ND	ND	ND	ND
2-Methylphenol (2-Cresol)	0.10	0.10	ND	ND	ND	ND	ND
3-Methylphenol (3-Cresol)	0.10	0.10	ND	ND	ND	ND	ND
N-Nitroso-Di-n-propylamine	0.10	0.10	ND	ND	ND	ND	ND
Naphthalene	0.10	0.10	ND	ND	ND	ND	ND
2-Naphthylamine	3.0	3.0	ND	ND	ND	ND	ND
2-Nitroaniline	0.10	0.10	ND	ND	ND	ND	ND
3-Nitroaniline	0.10	0.10	ND	ND	ND	ND	ND
4-Nitroaniline	0.10	0.10	ND	ND	ND	ND	ND
Nitrobenzene (NB)	0.10	0.10	ND	ND	ND	ND	ND



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ANALYTICAL RESULTS

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Project ID: HF00710004
 Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8270C), Semivolatile Organic Compounds by GC/MS (SW-846)

QC Batch No: 030119JB1

Our Lab I.D.			96484.05	96484.06	96484.07	96484.08	96484.09
Client Sample I.D.			B5-2	B5-3	B5-4	B6-1	B6-2
Date Sampled			02/28/2019	02/28/2019	02/28/2019	02/28/2019	02/28/2019
Date Prepared			03/01/2019	03/01/2019	03/01/2019	03/01/2019	03/01/2019
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			03/04/2019	03/01/2019	03/01/2019	03/04/2019	03/04/2019
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results	Results
4-Nitrophenol	0.10	0.10	ND	ND	ND	ND	ND
2-Nitrophenol (o-Nitrophenol)	0.10	0.10	ND	ND	ND	ND	ND
N-nitrosodiphenylamine	0.10	0.10	ND	ND	ND	ND	ND
Pentachlorophenol	0.10	0.10	ND	ND	ND	ND	ND
Phenanthrene	0.10	0.10	ND	ND	ND	ND	ND
Phenol	0.10	0.10	ND	ND	ND	ND	ND
Pyrene	0.10	0.10	ND	ND	ND	ND	ND
Pyridine	0.10	0.10	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.10	0.10	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	0.10	0.10	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	0.10	0.10	ND	ND	ND	ND	ND
Our Lab I.D.			96484.05	96484.06	96484.07	96484.08	96484.09
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
2-Fluorophenol	25-121		42.8	55.8	55.0	49.2	51.2
2-Fluorobiphenyl	30-115		48.4	64.8	68.8	62.8	60.0
Nitrobenzene-d5	23-120		46.0	62.0	63.2	59.6	55.6
Phenol-d6	21-113		44.4	57.6	58.0	46.0	52.2
p-Terphenyl-D14	18-137		54.4	75.6	84.0	64.4	67.6
2,4,6-Tribromophenol	19-122		50.4	69.0	66.0	53.8	63.2



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Site

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GMED
900 S. Fremont Ave, 4th Floor
Alhambra, CA 91803-

Devil's Gate Reservoir Restor.

Telephone: (626)458-4923

Attn: Greg Sena

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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8270C), Semivolatile Organic Compounds by GC/MS (SW-846)

QC Batch No: 030119JB1

Our Lab I.D.			96484.10	96484.11	96484.12	96484.13	96484.14
Client Sample I.D.			B6-3	B6-4	B7-1	B7-2	B7-3
Date Sampled			02/28/2019	02/28/2019	02/28/2019	02/28/2019	02/28/2019
Date Prepared			03/01/2019	03/01/2019	03/01/2019	03/01/2019	03/01/2019
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			03/01/2019	03/02/2019	03/02/2019	03/04/2019	03/04/2019
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Acenaphthene	0.10	0.10	ND	ND	ND	ND	ND
Acenaphthylene	0.10	0.10	ND	ND	ND	ND	ND
Anthracene	0.10	0.10	ND	ND	ND	ND	ND
Azobenzene	0.10	0.10	ND	ND	ND	ND	ND
Benzidine	3.0	3.0	ND	ND	ND	ND	ND
Benzo(a)anthracene	0.10	0.10	ND	ND	ND	ND	ND
Benzo(a)pyrene	0.10	0.10	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.10	0.10	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.10	0.10	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	0.10	0.10	ND	ND	ND	ND	ND
Benzoic Acid	0.50	0.50	ND	ND	ND	ND	ND
Benzyl Alcohol	0.10	0.10	ND	ND	ND	ND	ND
Bis(2-Chloroethoxy)methane	0.10	0.10	ND	ND	ND	ND	ND
Bis(2-Chloroethyl)ether	0.10	0.10	ND	ND	ND	ND	ND
Bis(2-chloroisopropyl) ether	0.10	0.10	ND	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate	0.20	0.20	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	0.10	0.10	ND	ND	ND	ND	ND
Butyl benzyl phthalate	0.10	0.10	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	0.10	0.10	ND	ND	ND	ND	ND
4-Chloroaniline	0.10	0.10	ND	ND	ND	ND	ND
2-Chloronaphthalene	0.10	0.10	ND	ND	ND	ND	ND
2-Chlorophenol	0.10	0.10	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	0.10	0.10	ND	ND	ND	ND	ND
Chrysene	0.10	0.10	ND	ND	ND	ND	ND
Di-n-butyl phthalate	0.10	0.10	ND	ND	ND	ND	ND
Di-n-octyl phthalate (Diocetyl ester)	0.10	0.10	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	0.10	0.10	ND	ND	ND	ND	ND



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ANALYTICAL RESULTS

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Project ID: HF00710004
 Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8270C), Semivolatile Organic Compounds by GC/MS (SW-846)

QC Batch No: 030119JB1

Our Lab I.D.			96484.10	96484.11	96484.12	96484.13	96484.14
Client Sample I.D.			B6-3	B6-4	B7-1	B7-2	B7-3
Date Sampled			02/28/2019	02/28/2019	02/28/2019	02/28/2019	02/28/2019
Date Prepared			03/01/2019	03/01/2019	03/01/2019	03/01/2019	03/01/2019
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			03/01/2019	03/02/2019	03/02/2019	03/04/2019	03/04/2019
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Dibenzofuran	0.10	0.10	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	0.10	0.10	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	0.10	0.10	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	0.10	0.10	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	0.10	0.10	ND	ND	ND	ND	ND
2,4-Dichlorophenol	0.10	0.10	ND	ND	ND	ND	ND
2,6-Dichlorophenol	0.10	0.10	ND	ND	ND	ND	ND
Diethyl phthalate (Diethyl ester)	0.10	0.10	ND	ND	ND	ND	ND
Dimethyl phthalate (Dimethyl ester)	0.10	0.10	ND	ND	ND	ND	ND
2,4-Dimethylphenol	0.10	0.10	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	0.10	0.10	ND	ND	ND	ND	ND
2,4-Dinitrophenol	0.10	0.10	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	0.10	0.10	ND	ND	ND	ND	ND
2,6-Dinitrotoluene (2,6-DNT)	0.10	0.10	ND	ND	ND	ND	ND
1,2-Diphenylhydrazine	0.10	0.10	ND	ND	ND	ND	ND
Fluoranthene	0.10	0.10	ND	ND	ND	ND	ND
Fluorene	0.10	0.10	ND	ND	ND	ND	ND
Hexachlorobenzene	0.10	0.10	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.10	0.10	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	0.10	0.10	ND	ND	ND	ND	ND
Hexachloroethane	0.10	0.10	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.10	0.10	ND	ND	ND	ND	ND
Isophorone	0.10	0.10	ND	ND	ND	ND	ND
2-Methylnaphthalene	0.10	0.10	ND	ND	ND	ND	ND
4-Methylphenol	0.10	0.10	ND	ND	ND	ND	ND
2-Methylphenol (2-Cresol)	0.10	0.10	ND	ND	ND	ND	ND
3-Methylphenol (3-Cresol)	0.10	0.10	ND	ND	ND	ND	ND
N-Nitroso-Di-n-propylamine	0.10	0.10	ND	ND	ND	ND	ND
Naphthalene	0.10	0.10	ND	ND	ND	ND	ND
2-Naphthylamine	3.0	3.0	ND	ND	ND	ND	ND
2-Nitroaniline	0.10	0.10	ND	ND	ND	ND	ND
3-Nitroaniline	0.10	0.10	ND	ND	ND	ND	ND
4-Nitroaniline	0.10	0.10	ND	ND	ND	ND	ND
Nitrobenzene (NB)	0.10	0.10	ND	ND	ND	ND	ND



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ANALYTICAL RESULTS

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Project ID: HF00710004
 Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8270C), Semivolatile Organic Compounds by GC/MS (SW-846)

QC Batch No: 030119JB1

Our Lab I.D.			96484.10	96484.11	96484.12	96484.13	96484.14
Client Sample I.D.			B6-3	B6-4	B7-1	B7-2	B7-3
Date Sampled			02/28/2019	02/28/2019	02/28/2019	02/28/2019	02/28/2019
Date Prepared			03/01/2019	03/01/2019	03/01/2019	03/01/2019	03/01/2019
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			03/01/2019	03/02/2019	03/02/2019	03/04/2019	03/04/2019
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results	Results
4-Nitrophenol	0.10	0.10	ND	ND	ND	ND	ND
2-Nitrophenol (o-Nitrophenol)	0.10	0.10	ND	ND	ND	ND	ND
N-nitrosodiphenylamine	0.10	0.10	ND	ND	ND	ND	ND
Pentachlorophenol	0.10	0.10	ND	ND	ND	ND	ND
Phenanthrene	0.10	0.10	ND	ND	ND	ND	ND
Phenol	0.10	0.10	ND	ND	ND	ND	ND
Pyrene	0.10	0.10	ND	ND	ND	ND	ND
Pyridine	0.10	0.10	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.10	0.10	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	0.10	0.10	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	0.10	0.10	ND	ND	ND	ND	ND
Our Lab I.D.			96484.10	96484.11	96484.12	96484.13	96484.14
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
2-Fluorophenol	25-121		53.6	46.6	51.2	49.2	42.2
2-Fluorobiphenyl	30-115		62.8	56.8	64.0	60.8	56.8
Nitrobenzene-d5	23-120		58.8	52.8	57.2	60.4	52.0
Phenol-d6	21-113		54.8	48.6	53.6	50.8	42.0
p-Terphenyl-D14	18-137		76.0	63.2	73.2	64.4	57.6
2,4,6-Tribromophenol	19-122		63.2	53.6	61.2	64.4	58.8



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Site

Devil's Gate Reservoir Restor.

Telephone: (626)458-4923

Attn: Greg Sena

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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8270C), Semivolatile Organic Compounds by GC/MS (SW-846)

QC Batch No: 030119JB1

Our Lab I.D.			96484.15	96484.16	96484.17		
Client Sample I.D.			B7-4	B7-5	B8-1		
Date Sampled			02/28/2019	02/28/2019	02/28/2019		
Date Prepared			03/01/2019	03/01/2019	03/01/2019		
Preparation Method			3550B	3550B	3550B		
Date Analyzed			03/02/2019	03/02/2019	03/04/2019		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	MDL	PQL	Results	Results	Results		
Acenaphthene	0.10	0.10	ND	ND	ND		
Acenaphthylene	0.10	0.10	ND	ND	ND		
Anthracene	0.10	0.10	ND	ND	ND		
Azobenzene	0.10	0.10	ND	ND	ND		
Benzidine	3.0	3.0	ND	ND	ND		
Benzo(a)anthracene	0.10	0.10	ND	ND	ND		
Benzo(a)pyrene	0.10	0.10	ND	ND	ND		
Benzo(b)fluoranthene	0.10	0.10	ND	ND	ND		
Benzo(g,h,i)perylene	0.10	0.10	ND	ND	ND		
Benzo(k)fluoranthene	0.10	0.10	ND	ND	ND		
Benzoic Acid	0.50	0.50	ND	ND	ND		
Benzyl Alcohol	0.10	0.10	ND	ND	ND		
Bis(2-Chloroethoxy)methane	0.10	0.10	ND	ND	ND		
Bis(2-Chloroethyl)ether	0.10	0.10	ND	ND	ND		
Bis(2-chloroisopropyl) ether	0.10	0.10	ND	ND	ND		
Bis(2-ethylhexyl) phthalate	0.20	0.20	ND	ND	ND		
4-Bromophenyl phenyl ether	0.10	0.10	ND	ND	ND		
Butyl benzyl phthalate	0.10	0.10	ND	ND	ND		
4-Chloro-3-methylphenol	0.10	0.10	ND	ND	ND		
4-Chloroaniline	0.10	0.10	ND	ND	ND		
2-Chloronaphthalene	0.10	0.10	ND	ND	ND		
2-Chlorophenol	0.10	0.10	ND	ND	ND		
4-Chlorophenyl phenyl ether	0.10	0.10	ND	ND	ND		
Chrysene	0.10	0.10	ND	ND	ND		
Di-n-butyl phthalate	0.10	0.10	ND	ND	ND		
Di-n-octyl phthalate (Dioctyl ester)	0.10	0.10	ND	ND	ND		
Dibenzo(a,h)anthracene	0.10	0.10	ND	ND	ND		



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ANALYTICAL RESULTS

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Project ID: HF00710004
 Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8270C), Semivolatile Organic Compounds by GC/MS (SW-846)

QC Batch No: 030119JB1

Our Lab I.D.			96484.15	96484.16	96484.17		
Client Sample I.D.			B7-4	B7-5	B8-1		
Date Sampled			02/28/2019	02/28/2019	02/28/2019		
Date Prepared			03/01/2019	03/01/2019	03/01/2019		
Preparation Method			3550B	3550B	3550B		
Date Analyzed			03/02/2019	03/02/2019	03/04/2019		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	MDL	PQL	Results	Results	Results		
Dibenzofuran	0.10	0.10	ND	ND	ND		
1,2-Dichlorobenzene	0.10	0.10	ND	ND	ND		
1,3-Dichlorobenzene	0.10	0.10	ND	ND	ND		
1,4-Dichlorobenzene	0.10	0.10	ND	ND	ND		
3,3'-Dichlorobenzidine	0.10	0.10	ND	ND	ND		
2,4-Dichlorophenol	0.10	0.10	ND	ND	ND		
2,6-Dichlorophenol	0.10	0.10	ND	ND	ND		
Diethyl phthalate (Diethyl ester)	0.10	0.10	ND	ND	ND		
Dimethyl phthalate (Dimethyl ester)	0.10	0.10	ND	ND	ND		
2,4-Dimethylphenol	0.10	0.10	ND	ND	ND		
4,6-Dinitro-2-methylphenol	0.10	0.10	ND	ND	ND		
2,4-Dinitrophenol	0.10	0.10	ND	ND	ND		
2,4-Dinitrotoluene	0.10	0.10	ND	ND	ND		
2,6-Dinitrotoluene (2,6-DNT)	0.10	0.10	ND	ND	ND		
1,2-Diphenylhydrazine	0.10	0.10	ND	ND	ND		
Fluoranthene	0.10	0.10	ND	ND	ND		
Fluorene	0.10	0.10	ND	ND	ND		
Hexachlorobenzene	0.10	0.10	ND	ND	ND		
Hexachlorobutadiene	0.10	0.10	ND	ND	ND		
Hexachlorocyclopentadiene	0.10	0.10	ND	ND	ND		
Hexachloroethane	0.10	0.10	ND	ND	ND		
Indeno(1,2,3-cd)pyrene	0.10	0.10	ND	ND	ND		
Isophorone	0.10	0.10	ND	ND	ND		
2-Methylnaphthalene	0.10	0.10	ND	ND	ND		
4-Methylphenol	0.10	0.10	ND	ND	ND		
2-Methylphenol (2-Cresol)	0.10	0.10	ND	ND	ND		
3-Methylphenol (3-Cresol)	0.10	0.10	ND	ND	ND		
N-Nitroso-Di-n-propylamine	0.10	0.10	ND	ND	ND		
Naphthalene	0.10	0.10	ND	ND	ND		
2-Naphthylamine	3.0	3.0	ND	ND	ND		
2-Nitroaniline	0.10	0.10	ND	ND	ND		
3-Nitroaniline	0.10	0.10	ND	ND	ND		
4-Nitroaniline	0.10	0.10	ND	ND	ND		
Nitrobenzene (NB)	0.10	0.10	ND	ND	ND		



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ANALYTICAL RESULTS

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Project ID: HF00710004
 Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8270C), Semivolatile Organic Compounds by GC/MS (SW-846)

QC Batch No: 030119JB1

Our Lab I.D.			96484.15	96484.16	96484.17		
Client Sample I.D.			B7-4	B7-5	B8-1		
Date Sampled			02/28/2019	02/28/2019	02/28/2019		
Date Prepared			03/01/2019	03/01/2019	03/01/2019		
Preparation Method			3550B	3550B	3550B		
Date Analyzed			03/02/2019	03/02/2019	03/04/2019		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	MDL	PQL	Results	Results	Results		
4-Nitrophenol	0.10	0.10	ND	ND	ND		
2-Nitrophenol (o-Nitrophenol)	0.10	0.10	ND	ND	ND		
N-nitrosodiphenylamine	0.10	0.10	ND	ND	ND		
Pentachlorophenol	0.10	0.10	ND	ND	ND		
Phenanthrene	0.10	0.10	ND	ND	ND		
Phenol	0.10	0.10	ND	ND	ND		
Pyrene	0.10	0.10	ND	ND	ND		
Pyridine	0.10	0.10	ND	ND	ND		
1,2,4-Trichlorobenzene	0.10	0.10	ND	ND	ND		
2,4,5-Trichlorophenol	0.10	0.10	ND	ND	ND		
2,4,6-Trichlorophenol	0.10	0.10	ND	ND	ND		
Our Lab I.D.			96484.15	96484.16	96484.17		
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.		
2-Fluorophenol	25-121		56.4	53.6	47.8		
2-Fluorobiphenyl	30-115		68.4	63.6	60.8		
Nitrobenzene-d5	23-120		64.4	58.0	55.6		
Phenol-d6	21-113		58.0	55.2	49.4		
p-Terphenyl-D14	18-137		76.4	76.0	58.8		
2,4,6-Tribromophenol	19-122		72.8	66.2	60.2		



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Ordered By

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 Alhambra, CA 91803-

Site

Devil's Gate Reservoir Restor.

Telephone: (626)458-4923

Attn: Greg Sena

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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8270C), Semivolatile Organic Compounds by GC/MS (SW-846)

QC Batch No: 030419JB1

Our Lab I.D.			Method Blank	96484.18	96484.19	96484.20	96484.21
Client Sample I.D.				B8-2	B8-3	B8-4	B8-5
Date Sampled				02/28/2019	02/28/2019	02/28/2019	02/28/2019
Date Prepared			03/04/2019	03/04/2019	03/04/2019	03/04/2019	03/04/2019
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			03/04/2019	03/04/2019	03/04/2019	03/04/2019	03/04/2019
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Acenaphthene	0.10	0.10	ND	ND	ND	ND	ND
Acenaphthylene	0.10	0.10	ND	ND	ND	ND	ND
Anthracene	0.10	0.10	ND	ND	ND	ND	ND
Azobenzene	0.10	0.10	ND	ND	ND	ND	ND
Benzidine	3.0	3.0	ND	ND	ND	ND	ND
Benzo(a)anthracene	0.10	0.10	ND	ND	ND	ND	ND
Benzo(a)pyrene	0.10	0.10	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.10	0.10	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.10	0.10	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	0.10	0.10	ND	ND	ND	ND	ND
Benzoic Acid	0.50	0.50	ND	ND	ND	ND	ND
Benzyl Alcohol	0.10	0.10	ND	ND	ND	ND	ND
Bis(2-Chloroethoxy)methane	0.10	0.10	ND	ND	ND	ND	ND
Bis(2-Chloroethyl)ether	0.10	0.10	ND	ND	ND	ND	ND
Bis(2-chloroisopropyl) ether	0.10	0.10	ND	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate	0.20	0.20	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	0.10	0.10	ND	ND	ND	ND	ND
Butyl benzyl phthalate	0.10	0.10	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	0.10	0.10	ND	ND	ND	ND	ND
4-Chloroaniline	0.10	0.10	ND	ND	ND	ND	ND
2-Chloronaphthalene	0.10	0.10	ND	ND	ND	ND	ND
2-Chlorophenol	0.10	0.10	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	0.10	0.10	ND	ND	ND	ND	ND
Chrysene	0.10	0.10	ND	ND	ND	ND	ND
Di-n-butyl phthalate	0.10	0.10	ND	ND	ND	ND	ND
Di-n-octyl phthalate (Diocetyl ester)	0.10	0.10	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	0.10	0.10	ND	ND	ND	ND	ND



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ANALYTICAL RESULTS

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Project ID: HF00710004
 Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8270C), Semivolatile Organic Compounds by GC/MS (SW-846)

QC Batch No: 030419JB1

Our Lab I.D.			Method Blank	96484.18	96484.19	96484.20	96484.21
Client Sample I.D.				B8-2	B8-3	B8-4	B8-5
Date Sampled				02/28/2019	02/28/2019	02/28/2019	02/28/2019
Date Prepared			03/04/2019	03/04/2019	03/04/2019	03/04/2019	03/04/2019
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			03/04/2019	03/04/2019	03/04/2019	03/04/2019	03/04/2019
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Dibenzofuran	0.10	0.10	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	0.10	0.10	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	0.10	0.10	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	0.10	0.10	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	0.10	0.10	ND	ND	ND	ND	ND
2,4-Dichlorophenol	0.10	0.10	ND	ND	ND	ND	ND
2,6-Dichlorophenol	0.10	0.10	ND	ND	ND	ND	ND
Diethyl phthalate (Diethyl ester)	0.10	0.10	ND	ND	ND	ND	ND
Dimethyl phthalate (Dimethyl ester)	0.10	0.10	ND	ND	ND	ND	ND
2,4-Dimethylphenol	0.10	0.10	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	0.10	0.10	ND	ND	ND	ND	ND
2,4-Dinitrophenol	0.10	0.10	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	0.10	0.10	ND	ND	ND	ND	ND
2,6-Dinitrotoluene (2,6-DNT)	0.10	0.10	ND	ND	ND	ND	ND
1,2-Diphenylhydrazine	0.10	0.10	ND	ND	ND	ND	ND
Fluoranthene	0.10	0.10	ND	ND	ND	ND	ND
Fluorene	0.10	0.10	ND	ND	ND	ND	ND
Hexachlorobenzene	0.10	0.10	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.10	0.10	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	0.10	0.10	ND	ND	ND	ND	ND
Hexachloroethane	0.10	0.10	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.10	0.10	ND	ND	ND	ND	ND
Isophorone	0.10	0.10	ND	ND	ND	ND	ND
2-Methylnaphthalene	0.10	0.10	ND	ND	ND	ND	ND
4-Methylphenol	0.10	0.10	ND	ND	ND	ND	ND
2-Methylphenol (2-Cresol)	0.10	0.10	ND	ND	ND	ND	ND
3-Methylphenol (3-Cresol)	0.10	0.10	ND	ND	ND	ND	ND
N-Nitroso-Di-n-propylamine	0.10	0.10	ND	ND	ND	ND	ND
Naphthalene	0.10	0.10	ND	ND	ND	ND	ND
2-Naphthylamine	3.0	3.0	ND	ND	ND	ND	ND
2-Nitroaniline	0.10	0.10	ND	ND	ND	ND	ND
3-Nitroaniline	0.10	0.10	ND	ND	ND	ND	ND
4-Nitroaniline	0.10	0.10	ND	ND	ND	ND	ND
Nitrobenzene (NB)	0.10	0.10	ND	ND	ND	ND	ND



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ANALYTICAL RESULTS

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Project ID: HF00710004
 Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8270C), Semivolatile Organic Compounds by GC/MS (SW-846)

QC Batch No: 030419JB1

Our Lab I.D.		Method Blank	96484.18	96484.19	96484.20	96484.21	
Client Sample I.D.			B8-2	B8-3	B8-4	B8-5	
Date Sampled			02/28/2019	02/28/2019	02/28/2019	02/28/2019	
Date Prepared		03/04/2019	03/04/2019	03/04/2019	03/04/2019	03/04/2019	
Preparation Method		3550B	3550B	3550B	3550B	3550B	
Date Analyzed		03/04/2019	03/04/2019	03/04/2019	03/04/2019	03/04/2019	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
4-Nitrophenol	0.10	0.10	ND	ND	ND	ND	ND
2-Nitrophenol (o-Nitrophenol)	0.10	0.10	ND	ND	ND	ND	ND
N-nitrosodiphenylamine	0.10	0.10	ND	ND	ND	ND	ND
Pentachlorophenol	0.10	0.10	ND	ND	ND	ND	ND
Phenanthrene	0.10	0.10	ND	ND	ND	ND	ND
Phenol	0.10	0.10	ND	ND	ND	ND	ND
Pyrene	0.10	0.10	ND	ND	ND	ND	ND
Pyridine	0.10	0.10	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.10	0.10	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	0.10	0.10	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	0.10	0.10	ND	ND	ND	ND	ND
Our Lab I.D.		Method Blank	96484.18	96484.19	96484.20	96484.21	
Surrogates	%Rec.Limit	% Rec.	% Rec.	% Rec.	% Rec.	% Rec.	
2-Fluorophenol	25-121	64.6	28.6	57.4	40.4	54.0	
2-Fluorobiphenyl	30-115	76.0	31.7	64.8	49.2	61.2	
Nitrobenzene-d5	23-120	71.6	30.1	63.2	44.8	56.8	
Phenol-d6	21-113	67.2	29.4	58.2	41.4	51.6	
p-Terphenyl-D14	18-137	89.6	32.4	64.8	50.0	62.4	
2,4,6-Tribromophenol	19-122	73.8	29.2	70.6	46.6	61.8	



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Telephone: (626)458-4923

Attn: Greg Sena

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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 030119EB2

Our Lab I.D.		Method Blank	96484.01	96484.02	96484.03	96484.04	
Client Sample I.D.			B2-1	B2-2	B2-3	B5-1	
Date Sampled			02/28/2019	02/28/2019	02/28/2019	02/28/2019	
Date Prepared		03/01/2019	03/01/2019	03/01/2019	03/01/2019	03/01/2019	
Preparation Method		3550B	3550B	3550B	3550B	3550B	
Date Analyzed		03/01/2019	03/01/2019	03/01/2019	03/01/2019	03/01/2019	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Aldrin	0.001	0.002	ND	ND	ND	ND	ND
Chlordane (Total)	0.001	0.002	ND	ND	ND	ND	ND
Chlordane (alpha)	0.001	0.002	ND	ND	ND	ND	ND
4,4'-DDD (DDD)	0.001	0.002	ND	ND	ND	ND	ND
4,4'-DDE (DDE)	0.001	0.002	ND	ND	ND	ND	ND
4,4'-DDT (DDT)	0.001	0.002	ND	ND	ND	ND	ND
Dieldrin	0.001	0.002	ND	ND	ND	ND	ND
Endosulfan 1	0.001	0.002	ND	ND	ND	ND	ND
Endosulfan 11	0.001	0.002	ND	ND	ND	ND	ND
Endosulfan sulfate	0.001	0.002	ND	ND	ND	ND	ND
Endrin	0.001	0.002	ND	ND	ND	ND	ND
Endrin aldehyde	0.001	0.002	ND	ND	ND	ND	ND
Chlordane (gamma)	0.001	0.002	ND	ND	ND	ND	ND
Heptachlor	0.001	0.002	ND	ND	ND	ND	ND
Heptachlor epoxide	0.001	0.002	ND	ND	ND	ND	ND
alpha-Hexachlorocyclohexane (Alpha-BHC)	0.001	0.002	ND	ND	ND	ND	ND
beta-Hexachlorocyclohexane (Betta-BHC)	0.001	0.002	ND	ND	ND	ND	ND
delta-Hexachlorocyclohexane (Delta-BHC)	0.001	0.002	ND	ND	ND	ND	ND
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	0.001	0.002	ND	ND	ND	ND	ND
Methoxychlor	0.005	0.010	ND	ND	ND	ND	ND
Toxaphene	0.025	0.050	ND	ND	ND	ND	ND



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ANALYTICAL RESULTS

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Project ID: HF00710004
Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.		Method Blank	96484.01	96484.02	96484.03	96484.04
Surrogates	%Rec.Limit	% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150	101	87.2	124	124	88.0
Tetrachloro-m-xylene	30-150	94.0	72.4	105	88.4	59.6



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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 030119EB2

Our Lab I.D.			96484.05	96484.06	96484.07	96484.08	96484.09
Client Sample I.D.			B5-2	B5-3	B5-4	B6-1	B6-2
Date Sampled			02/28/2019	02/28/2019	02/28/2019	02/28/2019	02/28/2019
Date Prepared			03/01/2019	03/01/2019	03/01/2019	03/01/2019	03/01/2019
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			03/01/2019	03/01/2019	03/01/2019	03/01/2019	03/01/2019
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Aldrin	0.001	0.002	ND	ND	ND	ND	ND
Chlordane (Total)	0.001	0.002	ND	ND	ND	ND	0.00153J
Chlordane (alpha)	0.001	0.002	ND	ND	ND	ND	ND
4,4'-DDD (DDD)	0.001	0.002	ND	ND	ND	ND	ND
4,4'-DDE (DDE)	0.001	0.002	ND	ND	ND	ND	ND
4,4'-DDT (DDT)	0.001	0.002	ND	ND	ND	ND	ND
Dieldrin	0.001	0.002	ND	ND	ND	ND	ND
Endosulfan 1	0.001	0.002	ND	ND	ND	ND	ND
Endosulfan 11	0.001	0.002	ND	ND	ND	ND	ND
Endosulfan sulfate	0.001	0.002	ND	ND	ND	ND	ND
Endrin	0.001	0.002	ND	ND	ND	ND	ND
Endrin aldehyde	0.001	0.002	ND	ND	ND	ND	ND
Chlordane (gamma)	0.001	0.002	ND	ND	ND	ND	ND
Heptachlor	0.001	0.002	ND	ND	ND	ND	ND
Heptachlor epoxide	0.001	0.002	ND	ND	ND	ND	ND
alpha-Hexachlorocyclohexane (Alpha-BHC)	0.001	0.002	ND	ND	ND	ND	ND
beta-Hexachlorocyclohexane (Betta-BHC)	0.001	0.002	ND	ND	ND	ND	ND
delta-Hexachlorocyclohexane (Delta-BHC)	0.001	0.002	ND	ND	ND	ND	ND
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	0.001	0.002	ND	ND	ND	ND	ND
Methoxychlor	0.005	0.010	ND	ND	ND	ND	ND
Toxaphene	0.025	0.050	ND	ND	ND	ND	ND



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ANALYTICAL RESULTS

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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			96484.05	96484.06	96484.07	96484.08	96484.09
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150		119	92.8	122	108	133
Tetrachloro-m-xylene	30-150		108	64.0	109	93.2	112



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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 030119EB2

Our Lab I.D.			96484.10	96484.11	96484.12	96484.13	96484.14
Client Sample I.D.			B6-3	B6-4	B7-1	B7-2	B7-3
Date Sampled			02/28/2019	02/28/2019	02/28/2019	02/28/2019	02/28/2019
Date Prepared			03/01/2019	03/01/2019	03/01/2019	03/01/2019	03/01/2019
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			03/01/2019	03/01/2019	03/01/2019	03/01/2019	03/01/2019
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Aldrin	0.001	0.002	ND	ND	ND	ND	ND
Chlordane (Total)	0.001	0.002	ND	ND	0.00241	0.00114J	0.00388
Chlordane (alpha)	0.001	0.002	ND	ND	0.00114J	ND	0.00194J
4,4'-DDD (DDD)	0.001	0.002	ND	ND	0.00103J	ND	ND
4,4'-DDE (DDE)	0.001	0.002	ND	ND	0.00103J	0.00114J	0.00833
4,4'-DDT (DDT)	0.001	0.002	ND	ND	0.00117J	0.00102J	0.00603
Dieldrin	0.001	0.002	ND	ND	ND	ND	ND
Endosulfan 1	0.001	0.002	ND	ND	ND	ND	ND
Endosulfan 11	0.001	0.002	ND	ND	ND	ND	ND
Endosulfan sulfate	0.001	0.002	ND	ND	ND	ND	ND
Endrin	0.001	0.002	ND	ND	ND	ND	ND
Endrin aldehyde	0.001	0.002	ND	ND	ND	ND	ND
Chlordane (gamma)	0.001	0.002	ND	ND	0.00127J	ND	0.00194J
Heptachlor	0.001	0.002	ND	ND	ND	ND	ND
Heptachlor epoxide	0.001	0.002	ND	ND	ND	ND	ND
alpha-Hexachlorocyclohexane (Alpha-BHC)	0.001	0.002	ND	ND	ND	ND	ND
beta-Hexachlorocyclohexane (Beta-BHC)	0.001	0.002	ND	ND	ND	ND	ND
delta-Hexachlorocyclohexane (Delta-BHC)	0.001	0.002	ND	ND	ND	ND	ND
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	0.001	0.002	ND	ND	ND	ND	ND
Methoxychlor	0.005	0.010	ND	ND	ND	ND	ND
Toxaphene	0.025	0.050	ND	ND	ND	ND	ND



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ANALYTICAL RESULTS

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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.		96484.10	96484.11	96484.12	96484.13	96484.14
Surrogates	%Rec.Limit	% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150	142	131	107	148	134
Tetrachloro-m-xylene	30-150	114	114	143	117	127



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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 030119EB2

Our Lab I.D.			96484.15	96484.16			
Client Sample I.D.			B7-4	B7-5			
Date Sampled			02/28/2019	02/28/2019			
Date Prepared			03/01/2019	03/01/2019			
Preparation Method			3550B	3550B			
Date Analyzed			03/01/2019	03/01/2019			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	MDL	PQL	Results	Results			
Aldrin	0.001	0.002	ND	ND			
Chlordane (Total)	0.001	0.002	ND	ND			
Chlordane (alpha)	0.001	0.002	ND	ND			
4,4'-DDD (DDD)	0.001	0.002	ND	ND			
4,4'-DDE (DDE)	0.001	0.002	ND	ND			
4,4'-DDT (DDT)	0.001	0.002	ND	ND			
Dieldrin	0.001	0.002	ND	ND			
Endosulfan 1	0.001	0.002	ND	ND			
Endosulfan 11	0.001	0.002	ND	ND			
Endosulfan sulfate	0.001	0.002	ND	ND			
Endrin	0.001	0.002	ND	ND			
Endrin aldehyde	0.001	0.002	ND	ND			
Chlordane (gamma)	0.001	0.002	ND	ND			
Heptachlor	0.001	0.002	ND	ND			
Heptachlor epoxide	0.001	0.002	ND	ND			
alpha-Hexachlorocyclohexane (Alpha-BHC)	0.001	0.002	ND	ND			
beta-Hexachlorocyclohexane (Betta-BHC)	0.001	0.002	ND	ND			
delta-Hexachlorocyclohexane (Delta-BHC)	0.001	0.002	ND	ND			
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	0.001	0.002	ND	ND			
Methoxychlor	0.005	0.010	ND	ND			
Toxaphene	0.025	0.050	ND	ND			



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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			96484.15	96484.16			
Surrogates	%Rec.Limit		% Rec.	% Rec.			
Decachlorobiphenyl	30-150		81.6	145			
Tetrachloro-m-xylene	30-150		119	115			



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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 030419EB1

Our Lab I.D.		Method Blank	96484.17	96484.18	96484.19	96484.20	
Client Sample I.D.			B8-1	B8-2	B8-3	B8-4	
Date Sampled			02/28/2019	02/28/2019	02/28/2019	02/28/2019	
Date Prepared		03/04/2019	03/04/2019	03/04/2019	03/04/2019	03/04/2019	
Preparation Method		3550B	3550B	3550B	3550B	3550B	
Date Analyzed		03/04/2019	03/04/2019	03/04/2019	03/04/2019	03/04/2019	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Aldrin	0.001	0.002	ND	ND	ND	ND	ND
Chlordane (Total)	0.001	0.002	ND	0.00435	ND	0.00115J	ND
Chlordane (alpha)	0.001	0.002	ND	0.00202	ND	ND	ND
4,4'-DDD (DDD)	0.001	0.002	ND	ND	ND	ND	ND
4,4'-DDE (DDE)	0.001	0.002	ND	0.0130	ND	ND	ND
4,4'-DDT (DDT)	0.001	0.002	ND	0.00710	ND	ND	ND
Dieldrin	0.001	0.002	ND	ND	ND	ND	ND
Endosulfan 1	0.001	0.002	ND	ND	ND	ND	ND
Endosulfan 11	0.001	0.002	ND	ND	ND	ND	ND
Endosulfan sulfate	0.001	0.002	ND	ND	ND	ND	ND
Endrin	0.001	0.002	ND	0.00200	ND	ND	ND
Endrin aldehyde	0.001	0.002	ND	ND	ND	ND	ND
Chlordane (gamma)	0.001	0.002	ND	0.00233	ND	ND	ND
Heptachlor	0.001	0.002	ND	ND	ND	ND	ND
Heptachlor epoxide	0.001	0.002	ND	ND	ND	ND	ND
alpha-Hexachlorocyclohexane (Alpha-BHC)	0.001	0.002	ND	ND	ND	ND	ND
beta-Hexachlorocyclohexane (Betta-BHC)	0.001	0.002	ND	ND	ND	ND	ND
delta-Hexachlorocyclohexane (Delta-BHC)	0.001	0.002	ND	ND	ND	ND	ND
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	0.001	0.002	ND	ND	ND	ND	ND
Methoxychlor	0.005	0.010	ND	ND	ND	ND	ND
Toxaphene	0.025	0.050	ND	ND	ND	ND	ND



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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.		Method Blank	96484.17	96484.18	96484.19	96484.20
Surrogates	%Rec.Limit	% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150	103	139	142	138	138
Tetrachloro-m-xylene	30-150	91.2	122	111	114	128



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Devil's Gate Reservoir Restor.

Telephone: (626)458-4923

Attn: Greg Sena

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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 030419EB1

Our Lab I.D.	96484.21		
Client Sample I.D.	B8-5		
Date Sampled	02/28/2019		
Date Prepared	03/04/2019		
Preparation Method	3550B		
Date Analyzed	03/04/2019		
Matrix	Soil		
Units	mg/Kg		
Dilution Factor	1		
Analytes	MDL	PQL	Results
Aldrin	0.001	0.002	ND
Chlordane (Total)	0.001	0.002	ND
Chlordane (alpha)	0.001	0.002	ND
4,4'-DDD (DDD)	0.001	0.002	ND
4,4'-DDE (DDE)	0.001	0.002	ND
4,4'-DDT (DDT)	0.001	0.002	ND
Dieldrin	0.001	0.002	ND
Endosulfan 1	0.001	0.002	ND
Endosulfan 11	0.001	0.002	ND
Endosulfan sulfate	0.001	0.002	ND
Endrin	0.001	0.002	ND
Endrin aldehyde	0.001	0.002	ND
Chlordane (gamma)	0.001	0.002	ND
Heptachlor	0.001	0.002	ND
Heptachlor epoxide	0.001	0.002	ND
alpha-Hexachlorocyclohexane (Alpha-BHC)	0.001	0.002	ND
beta-Hexachlorocyclohexane (Betta-BHC)	0.001	0.002	ND
delta-Hexachlorocyclohexane (Delta-BHC)	0.001	0.002	ND
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	0.001	0.002	ND
Methoxychlor	0.005	0.010	ND
Toxaphene	0.025	0.050	ND



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ANALYTICAL RESULTS

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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.		96484.21				
Surrogates	%Rec.Limit	% Rec.				
Decachlorobiphenyl	30-150	120				
Tetrachloro-m-xylene	30-150	99.2				



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Telephone: (626)458-4923

Attn: Greg Sena

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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 030119ZB1

Our Lab I.D.		Method Blank	96484.01	96484.02	96484.03	96484.04	
Client Sample I.D.			B2-1	B2-2	B2-3	B5-1	
Date Sampled			02/28/2019	02/28/2019	02/28/2019	02/28/2019	
Date Prepared		03/01/2019	03/01/2019	03/01/2019	03/01/2019	03/01/2019	
Preparation Method		3550B	3550B	3550B	3550B	3550B	
Date Analyzed		03/04/2019	03/04/2019	03/04/2019	03/04/2019	03/04/2019	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Aroclor-1016 (PCB-1016)	0.010	0.010	ND	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	0.010	0.010	ND	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	0.010	0.010	ND	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	0.010	0.010	ND	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	0.010	0.010	ND	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	0.010	0.010	ND	ND	ND	ND	ND
Aroclor-1260 (PCB-1260)	0.010	0.010	ND	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	0.010	0.010	ND	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	0.010	0.010	ND	ND	ND	ND	ND
Total PCB	0.010	0.010	ND	ND	ND	ND	ND
Our Lab I.D.		Method Blank	96484.01	96484.02	96484.03	96484.04	
Surrogates	%Rec.Limit	% Rec.	% Rec.	% Rec.	% Rec.	% Rec.	
Decachlorobiphenyl	30-150	115	89.2	139	95.6	70.8	
Tetrachloro-m-xylene	30-150	108	63.2	105	70.4	84.0	



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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 030119ZB1

Our Lab I.D.			96484.05	96484.06	96484.07	96484.08	96484.09
Client Sample I.D.			B5-2	B5-3	B5-4	B6-1	B6-2
Date Sampled			02/28/2019	02/28/2019	02/28/2019	02/28/2019	02/28/2019
Date Prepared			03/01/2019	03/01/2019	03/01/2019	03/01/2019	03/01/2019
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			03/04/2019	03/04/2019	03/04/2019	03/04/2019	03/04/2019
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Aroclor-1016 (PCB-1016)	0.010	0.010	ND	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	0.010	0.010	ND	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	0.010	0.010	ND	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	0.010	0.010	ND	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	0.010	0.010	ND	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	0.010	0.010	ND	ND	ND	ND	ND
Aroclor-1260 (PCB-1260)	0.010	0.010	ND	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	0.010	0.010	ND	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	0.010	0.010	ND	ND	ND	ND	ND
Total PCB	0.010	0.010	ND	ND	ND	ND	ND
Our Lab I.D.			96484.05	96484.06	96484.07	96484.08	96484.09
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150		124	116	104	82.8	94.0
Tetrachloro-m-xylene	30-150		56.4	105	94.8	66.0	101



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Attn: Greg Sena

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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 030119ZB1

Our Lab I.D.			96484.10	96484.11	96484.12	96484.13	96484.14
Client Sample I.D.			B6-3	B6-4	B7-1	B7-2	B7-3
Date Sampled			02/28/2019	02/28/2019	02/28/2019	02/28/2019	02/28/2019
Date Prepared			03/01/2019	03/01/2019	03/01/2019	03/01/2019	03/01/2019
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			03/04/2019	03/05/2019	03/05/2019	03/05/2019	03/05/2019
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Aroclor-1016 (PCB-1016)	0.010	0.010	ND	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	0.010	0.010	ND	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	0.010	0.010	ND	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	0.010	0.010	ND	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	0.010	0.010	ND	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	0.010	0.010	ND	ND	ND	ND	ND
Aroclor-1260 (PCB-1260)	0.010	0.010	ND	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	0.010	0.010	ND	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	0.010	0.010	ND	ND	ND	ND	ND
Total PCB	0.010	0.010	ND	ND	ND	ND	ND
Our Lab I.D.			96484.10	96484.11	96484.12	96484.13	96484.14
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150		133	132	149	122	138
Tetrachloro-m-xylene	30-150		94.0	81.2	108	94.4	104



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Telephone: (626)458-4923

Attn: Greg Sena

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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 030119ZB1

Our Lab I.D.			96484.15	96484.16		
Client Sample I.D.			B7-4	B7-5		
Date Sampled			02/28/2019	02/28/2019		
Date Prepared			03/01/2019	03/01/2019		
Preparation Method			3550B	3550B		
Date Analyzed			03/05/2019	03/05/2019		
Matrix			Soil	Soil		
Units			mg/Kg	mg/Kg		
Dilution Factor			1	1		
Analytes	MDL	PQL	Results	Results		
Aroclor-1016 (PCB-1016)	0.010	0.010	ND	ND		
Aroclor-1221 (PCB-1221)	0.010	0.010	ND	ND		
Aroclor-1232 (PCB-1232)	0.010	0.010	ND	ND		
Aroclor-1242 (PCB-1242)	0.010	0.010	ND	ND		
Aroclor-1248 (PCB-1248)	0.010	0.010	ND	ND		
Aroclor-1254 (PCB-1254)	0.010	0.010	ND	ND		
Aroclor-1260 (PCB-1260)	0.010	0.010	ND	ND		
Aroclor-1262 (PCB-1262)	0.010	0.010	ND	ND		
Aroclor-1268 (PCB-1268)	0.010	0.010	ND	ND		
Total PCB	0.010	0.010	ND	ND		
Our Lab I.D.			96484.15	96484.16		
Surrogates	%Rec.Limit		% Rec.	% Rec.		
Decachlorobiphenyl	30-150		138	112		
Tetrachloro-m-xylene	30-150		72.8	87.2		



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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 030419ZB1

Our Lab I.D.		Method Blank	96484.17	96484.18	96484.19	96484.20	
Client Sample I.D.			B8-1	B8-2	B8-3	B8-4	
Date Sampled			02/28/2019	02/28/2019	02/28/2019	02/28/2019	
Date Prepared		03/04/2019	03/04/2019	03/04/2019	03/04/2019	03/04/2019	
Preparation Method		3550B	3550B	3550B	3550B	3550B	
Date Analyzed		03/04/2019	03/04/2019	03/04/2019	03/04/2019	03/04/2019	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Aroclor-1016 (PCB-1016)	0.010	0.010	ND	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	0.010	0.010	ND	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	0.010	0.010	ND	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	0.010	0.010	ND	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	0.010	0.010	ND	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	0.010	0.010	ND	ND	ND	ND	ND
Aroclor-1260 (PCB-1260)	0.010	0.010	ND	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	0.010	0.010	ND	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	0.010	0.010	ND	ND	ND	ND	ND
Total PCB	0.010	0.010	ND	ND	ND	ND	ND
Our Lab I.D.		Method Blank	96484.17	96484.18	96484.19	96484.20	
Surrogates	%Rec.Limit	% Rec.	% Rec.	% Rec.	% Rec.	% Rec.	
Decachlorobiphenyl	30-150	96.0	113	114	110	116	
Tetrachloro-m-xylene	30-150	106	100	100	133	110	



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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 030419ZB1

Our Lab I.D.			96484.21			
Client Sample I.D.			B8-5			
Date Sampled			02/28/2019			
Date Prepared			03/04/2019			
Preparation Method			3550B			
Date Analyzed			03/04/2019			
Matrix			Soil			
Units			mg/Kg			
Dilution Factor			1			
Analytes	MDL	PQL	Results			
Aroclor-1016 (PCB-1016)	0.010	0.010	ND			
Aroclor-1221 (PCB-1221)	0.010	0.010	ND			
Aroclor-1232 (PCB-1232)	0.010	0.010	ND			
Aroclor-1242 (PCB-1242)	0.010	0.010	ND			
Aroclor-1248 (PCB-1248)	0.010	0.010	ND			
Aroclor-1254 (PCB-1254)	0.010	0.010	ND			
Aroclor-1260 (PCB-1260)	0.010	0.010	ND			
Aroclor-1262 (PCB-1262)	0.010	0.010	ND			
Aroclor-1268 (PCB-1268)	0.010	0.010	ND			
Total PCB	0.010	0.010	ND			
Our Lab I.D.			96484.21			
Surrogates	%Rec.Limit		% Rec.			
Decachlorobiphenyl	30-150		97.2			
Tetrachloro-m-xylene	30-150		91.2			



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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0301191C13

Our Lab I.D.			Method Blank	96484.01	96484.02	96484.03	96484.04
Client Sample I.D.				B2-1	B2-2	B2-3	B5-1
Date Sampled				02/28/2019	02/28/2019	02/28/2019	02/28/2019
Date Prepared			03/01/2019	03/01/2019	03/01/2019	03/01/2019	03/01/2019
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			03/05/2019	03/05/2019	03/05/2019	03/05/2019	03/05/2019
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Antimony	0.50	5.00	ND	ND	ND	ND	ND
Arsenic	0.38	1.00	ND	ND	ND	ND	3.15
Barium	0.077	0.500	ND	23.2	29.0	35.6	50.0
Beryllium	0.050	0.500	ND	ND	ND	ND	ND
Cadmium	0.050	0.500	ND	ND	ND	ND	ND
Chromium	0.060	0.500	ND	ND	2.86	5.51	4.02
Cobalt	0.25	2.50	ND	1.25J	1.65J	1.72J	1.99J
Copper	0.12	1.00	ND	5.41	6.31	7.70	9.49
Lead	0.25	2.50	ND	1.77J	3.38	4.77	4.89
Mercury (By EPA 7471)	0.020	0.150	ND	0.111J	0.107J	0.113J	0.294
Molybdenum	0.25	2.50	ND	ND	ND	0.300J	ND
Nickel	0.058	0.500	ND	2.54	3.62	4.62	4.60
Selenium	0.51	1.00	ND	ND	ND	ND	ND
Silver	0.050	0.500	ND	ND	ND	ND	ND
Thallium	0.73	5.00	ND	ND	ND	ND	ND
Vanadium	0.050	0.500	ND	15.1	16.2	18.0	18.0
Zinc	0.25	2.50	ND	26.3	32.8	37.4	45.9



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Devil's Gate Reservoir Restor.

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Attn: Greg Sena

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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0301191C13

Our Lab I.D.			96484.05	96484.06	96484.07	96484.08	96484.09
Client Sample I.D.			B5-2	B5-3	B5-4	B6-1	B6-2
Date Sampled			02/28/2019	02/28/2019	02/28/2019	02/28/2019	02/28/2019
Date Prepared			03/01/2019	03/01/2019	03/01/2019	03/01/2019	03/01/2019
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			03/05/2019	03/05/2019	03/05/2019	03/05/2019	03/05/2019
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Antimony	0.50	5.00	ND	ND	ND	ND	ND
Arsenic	0.38	1.00	3.77	1.35	2.11	4.49	4.67
Barium	0.077	0.500	84.3	46.5	64.6	90.5	142
Beryllium	0.050	0.500	ND	ND	ND	ND	ND
Cadmium	0.050	0.500	ND	ND	ND	ND	ND
Chromium	0.060	0.500	8.25	4.45	6.65	7.55	9.40
Cobalt	0.25	2.50	4.94	2.62	3.64	4.93	5.97
Copper	0.12	1.00	27.8	9.93	15.5	29.1	30.8
Lead	0.25	2.50	11.4	4.82	9.45	13.0	15.0
Mercury (By EPA 7471)	0.020	0.150	0.161	0.111J	0.112J	0.212	0.289
Molybdenum	0.25	2.50	0.252J	0.274J	ND	0.381J	0.578J
Nickel	0.058	0.500	15.0	6.05	9.30	14.4	14.5
Selenium	0.51	1.00	ND	ND	ND	ND	ND
Silver	0.050	0.500	ND	ND	ND	ND	ND
Thallium	0.73	5.00	ND	ND	ND	ND	ND
Vanadium	0.050	0.500	29.8	22.6	24.7	28.8	32.7
Zinc	0.25	2.50	107	55.9	80.9	102	142



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Devil's Gate Reservoir Restor.

Telephone: (626)458-4923

Attn: Greg Sena

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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0301191C13

Our Lab I.D.	96484.10		
Client Sample I.D.	B6-3		
Date Sampled	02/28/2019		
Date Prepared	03/01/2019		
Preparation Method	3050B		
Date Analyzed	03/05/2019		
Matrix	Soil		
Units	mg/Kg		
Dilution Factor	1		
Analytes	MDL	PQL	Results
Antimony	0.50	5.00	ND
Arsenic	0.38	1.00	3.70
Barium	0.077	0.500	112
Beryllium	0.050	0.500	ND
Cadmium	0.050	0.500	ND
Chromium	0.060	0.500	9.35
Cobalt	0.25	2.50	5.30
Copper	0.12	1.00	22.0
Lead	0.25	2.50	6.18
Mercury (By EPA 7471)	0.020	0.150	0.160
Molybdenum	0.25	2.50	0.649J
Nickel	0.058	0.500	15.6
Selenium	0.51	1.00	ND
Silver	0.050	0.500	ND
Thallium	0.73	5.00	ND
Vanadium	0.050	0.500	30.9
Zinc	0.25	2.50	110



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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0301191C14

Our Lab I.D.		Method Blank	96484.11	96484.12	96484.13	96484.14	
Client Sample I.D.			B6-4	B7-1	B7-2	B7-3	
Date Sampled			02/28/2019	02/28/2019	02/28/2019	02/28/2019	
Date Prepared		03/01/2019	03/01/2019	03/01/2019	03/01/2019	03/01/2019	
Preparation Method		3050B	3050B	3050B	3050B	3050B	
Date Analyzed		03/05/2019	03/05/2019	03/05/2019	03/05/2019	03/05/2019	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Antimony	0.50	5.00	ND	ND	ND	ND	ND
Arsenic	0.38	1.00	ND	ND	2.60	2.31	5.67
Barium	0.077	0.500	ND	48.8	86.6	88.1	110
Beryllium	0.050	0.500	ND	ND	ND	ND	ND
Cadmium	0.050	0.500	ND	ND	ND	ND	ND
Chromium	0.060	0.500	ND	0.113J	7.06	7.43	8.59
Cobalt	0.25	2.50	ND	2.48J	4.45	4.17	5.68
Copper	0.12	1.00	ND	10.6	19.3	19.6	34.8
Lead	0.25	2.50	ND	3.09	11.6	12.5	10.9
Mercury (By EPA 7471)	0.020	0.150	ND	0.194	ND	0.120J	0.382
Molybdenum	0.25	2.50	ND	0.535J	0.292J	0.470J	0.422J
Nickel	0.058	0.500	ND	6.48	12.2	12.1	17.0
Selenium	0.51	1.00	ND	ND	ND	ND	ND
Silver	0.050	0.500	ND	ND	ND	ND	ND
Thallium	0.73	5.00	ND	ND	ND	ND	ND
Vanadium	0.050	0.500	ND	20.7	26.5	27.1	32.9
Zinc	0.25	2.50	ND	50.7	94.6	93.5	124



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Telephone: (626)458-4923

Attn: Greg Sena

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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0301191C14

Our Lab I.D.		96484.15	96484.16	96484.17	96484.18	96484.19	
Client Sample I.D.		B7-4	B7-5	B8-1	B8-2	B8-3	
Date Sampled		02/28/2019	02/28/2019	02/28/2019	02/28/2019	02/28/2019	
Date Prepared		03/01/2019	03/01/2019	03/01/2019	03/01/2019	03/01/2019	
Preparation Method		3050B	3050B	3050B	3050B	3050B	
Date Analyzed		03/05/2019	03/05/2019	03/05/2019	03/05/2019	03/05/2019	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Antimony	0.50	5.00	ND	ND	ND	ND	ND
Arsenic	0.38	1.00	7.76	5.12	5.86	3.01	1.63
Barium	0.077	0.500	102	107	112	99.4	40.0
Beryllium	0.050	0.500	ND	ND	ND	ND	ND
Cadmium	0.050	0.500	ND	ND	ND	ND	ND
Chromium	0.060	0.500	7.96	7.60	8.56	8.20	63.0
Cobalt	0.25	2.50	5.86	5.55	5.36	5.04	2.05J
Copper	0.12	1.00	28.9	28.6	27.0	22.3	10.6
Lead	0.25	2.50	13.2	9.22	21.0	9.33	3.06
Mercury (By EPA 7471)	0.020	0.150	0.278	0.198	0.192	0.154	0.145J
Molybdenum	0.25	2.50	1.14J	0.429J	0.456J	0.397J	0.415J
Nickel	0.058	0.500	15.5	15.3	15.8	14.2	7.65
Selenium	0.51	1.00	ND	ND	ND	ND	ND
Silver	0.050	0.500	ND	ND	ND	ND	ND
Thallium	0.73	5.00	ND	ND	ND	ND	ND
Vanadium	0.050	0.500	31.7	32.7	30.1	29.5	19.6
Zinc	0.25	2.50	120	113	119	103	38.0



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Telephone: (626)458-4923

Attn: Greg Sena

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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0301191C14

Our Lab I.D.			96484.20	96484.21		
Client Sample I.D.			B8-4	B8-5		
Date Sampled			02/28/2019	02/28/2019		
Date Prepared			03/01/2019	03/01/2019		
Preparation Method			3050B	3050B		
Date Analyzed			03/05/2019	03/05/2019		
Matrix			Soil	Soil		
Units			mg/Kg	mg/Kg		
Dilution Factor			1	1		
Analytes	MDL	PQL	Results	Results		
Antimony	0.50	5.00	ND	ND		
Arsenic	0.38	1.00	4.11	3.60		
Barium	0.077	0.500	114	85.6		
Beryllium	0.050	0.500	ND	ND		
Cadmium	0.050	0.500	ND	ND		
Chromium	0.060	0.500	8.70	10.2		
Cobalt	0.25	2.50	5.22	5.17		
Copper	0.12	1.00	22.7	39.2		
Lead	0.25	2.50	10.6	9.57		
Mercury (By EPA 7471)	0.020	0.150	0.271	0.179		
Molybdenum	0.25	2.50	0.415J	0.645J		
Nickel	0.058	0.500	16.5	18.3		
Selenium	0.51	1.00	ND	ND		
Silver	0.050	0.500	ND	ND		
Thallium	0.73	5.00	ND	ND		
Vanadium	0.050	0.500	27.9	28.6		
Zinc	0.25	2.50	108	82.5		



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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (314.0), Perchlorate by Ion Chromatography

QC Batch No: 030119-1

Our Lab I.D.		Method Blank	96484.01	96484.02	96484.03	96484.04
Client Sample I.D.			B2-1	B2-2	B2-3	B5-1
Date Sampled			02/28/2019	02/28/2019	02/28/2019	02/28/2019
Date Prepared		03/01/2019	03/01/2019	03/01/2019	03/01/2019	03/01/2019
Preparation Method		314.0	314.0	314.0	314.0	314.0
Date Analyzed		03/04/2019	03/04/2019	03/04/2019	03/04/2019	03/04/2019
Matrix		Soil	Soil	Soil	Soil	Soil
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Dilution Factor		1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results
Perchlorate	5.0	20.0	ND	ND	ND	ND



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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (314.0), Perchlorate by Ion Chromatography

QC Batch No: 030119-1

Our Lab I.D.		96484.05	96484.06	96484.07	96484.08	96484.09
Client Sample I.D.		B5-2	B5-3	B5-4	B6-1	B6-2
Date Sampled		02/28/2019	02/28/2019	02/28/2019	02/28/2019	02/28/2019
Date Prepared		03/01/2019	03/01/2019	03/01/2019	03/01/2019	03/01/2019
Preparation Method		314.0	314.0	314.0	314.0	314.0
Date Analyzed		03/04/2019	03/04/2019	03/04/2019	03/04/2019	03/04/2019
Matrix		Soil	Soil	Soil	Soil	Soil
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Dilution Factor		1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results
Perchlorate	5.0	20.0	ND	ND	ND	ND



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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (314.0), Perchlorate by Ion Chromatography

QC Batch No: 030119-1

Our Lab I.D.		96484.10				
Client Sample I.D.		B6-3				
Date Sampled		02/28/2019				
Date Prepared		03/01/2019				
Preparation Method		314.0				
Date Analyzed		03/04/2019				
Matrix		Soil				
Units		ug/Kg				
Dilution Factor		1				
Analytes	MDL	PQL	Results			
Perchlorate	5.0	20.0	ND			



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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (314.0), Perchlorate by Ion Chromatography

QC Batch No: 030419-2

Our Lab I.D.		Method Blank	96484.11	96484.12	96484.13	96484.14
Client Sample I.D.			B6-4	B7-1	B7-2	B7-3
Date Sampled			02/28/2019	02/28/2019	02/28/2019	02/28/2019
Date Prepared		03/04/2019	03/04/2019	03/04/2019	03/04/2019	03/04/2019
Preparation Method		314.0	314.0	314.0	314.0	314.0
Date Analyzed		03/04/2019	03/04/2019	03/04/2019	03/04/2019	03/04/2019
Matrix		Soil	Soil	Soil	Soil	Soil
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Dilution Factor		1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results
Perchlorate	5.0	20.0	ND	ND	ND	ND



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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (314.0), Perchlorate by Ion Chromatography

QC Batch No: 030419-2

Our Lab I.D.		96484.15	96484.16	96484.17	96484.18	96484.19
Client Sample I.D.		B7-4	B7-5	B8-1	B8-2	B8-3
Date Sampled		02/28/2019	02/28/2019	02/28/2019	02/28/2019	02/28/2019
Date Prepared		03/04/2019	03/04/2019	03/04/2019	03/04/2019	03/04/2019
Preparation Method		314.0	314.0	314.0	314.0	314.0
Date Analyzed		03/04/2019	03/04/2019	03/04/2019	03/04/2019	03/04/2019
Matrix		Soil	Soil	Soil	Soil	Soil
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Dilution Factor		1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results
Perchlorate	5.0	20.0	ND	ND	ND	ND



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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (314.0), Perchlorate by Ion Chromatography

QC Batch No: 030419-2

Our Lab I.D.		96484.20	96484.21			
Client Sample I.D.		B8-4	B8-5			
Date Sampled		02/28/2019	02/28/2019			
Date Prepared		03/04/2019	03/04/2019			
Preparation Method		314.0	314.0			
Date Analyzed		03/04/2019	03/04/2019			
Matrix		Soil	Soil			
Units		ug/Kg	ug/Kg			
Dilution Factor		1	1			
Analytes	MDL	PQL	Results	Results		
Perchlorate	5.0	20.0	ND	ND		



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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (314.0), Perchlorate by Ion Chromatography

QC Batch No: 030119-1; Dup or Spiked Sample: 96484.01; LCS: Clean Sand; QC Prepared: 03/01/2019; QC Analyzed: 03/04/2019;
 Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Perchlorate	0.00	100	94.6	94.6	100	81.5	81.5	14.9	70-130	<30

QC Batch No: 030119-1; Dup or Spiked Sample: 96484.01; LCS: Clean Sand; QC Prepared: 03/01/2019; QC Analyzed: 03/04/2019;
 Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Perchlorate	100	83.0	83.0	100	85.9	85.9	3.4	80-120	<30



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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (314.0), Perchlorate by Ion Chromatography

QC Batch No: 030419-2; Dup or Spiked Sample: 96484.11; LCS: Clean Sand; LCS Prepared: 03/04/2019; LCS Analyzed: 03/04/2019;
 Units: ug/Kg

Analytes	LCS	LCS	LCS	LCS DUP	LCS DUP	LCS DUP	LCS RPD	LCS/LCSD	LCS RPD	
	Concen	Recov	% REC	Concen	Recov	% REC	% REC	% Limit	% Limit	
Perchlorate	100	91.2	91.2	100	86.9	86.9	4.8	80-120	<30	



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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0301191C13; Dup or Spiked Sample: 96484.01; LCS: Clean Sand; LCS Prepared: 03/01/2019; LCS Analyzed: 03/05/2019;
 Units: mg/Kg

Analytes	LCS	LCS	LCS	LCS DUP	LCS DUP	LCS DUP	LCS RPD	LCS/LCSD	LCS RPD	
	Concen	Recov	% REC	Concen	Recov	% REC	% REC	% Limit	% Limit	
Antimony	10.0	10.1	101	10.0	10.0	100	<1	75-125	<15	
Arsenic	10.0	10.0	100	10.0	9.76	97.6	2.4	75-125	<15	
Barium	10.0	9.95	99.5	10.0	9.90	99.0	<1	75-125	<15	
Beryllium	10.0	10.5	105	10.0	10.6	106	<1	75-125	<15	
Cadmium	10.0	10.0	100	10.0	10.0	100	<1	75-125	<15	
Chromium	10.0	10.3	103	10.0	10.4	104	<1	75-125	<15	
Cobalt	10.0	7.69	76.9	10.0	7.60	76.0	1.2	75-125	<15	
Copper	10.0	9.71	97.1	10.0	10.2	102	4.9	75-125	<15	
Lead	10.0	8.91	89.1	10.0	9.05	90.5	1.6	75-125	<15	
Mercury (By EPA 7471)	0.500	0.448	89.6	0.500	0.448	89.6	<1	75-125	<15	
Molybdenum	10.0	12.0	120	10.0	12.0	120	<1	75-125	<15	
Nickel	10.0	11.7	117	10.0	9.98	99.8	15.9	75-125	<15	
Selenium	10.0	10.1	101	10.0	10.0	100	<1	75-125	<15	
Silver	10.0	8.74	87.4	10.0	8.48	84.8	3.0	75-125	<15	
Thallium	10.0	7.56	75.6	10.0	7.54	75.4	<1	75-125	<15	
Vanadium	10.0	9.43	94.3	10.0	9.79	97.9	3.7	75-125	<15	
Zinc	10.0	9.96	99.6	10.0	10.0	100	<1	75-125	<15	



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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0301191C14; LCS: Clean Sand; LCS Prepared: 03/01/2019; LCS Analyzed: 03/05/2019; Units: mg/Kg

Analytes	LCS	LCS	LCS	LCS DUP	LCS DUP	LCS DUP	LCS RPD	LCS/LCSD	LCS RPD	
	Concen	Recov	% REC	Concen	Recov	% REC	% REC	% Limit	% Limit	
Antimony	10.0	10.2	102	10.0	10.4	104	1.9	75-125	<15	
Arsenic	10.0	9.81	98.1	10.0	9.91	99.1	1.0	75-125	<15	
Barium	10.0	10.1	101	10.0	10.0	100	<1	75-125	<15	
Beryllium	10.0	9.95	99.5	10.0	10.3	103	3.5	75-125	<15	
Cadmium	10.0	9.76	97.6	10.0	10.1	101	3.4	75-125	<15	
Chromium	10.0	9.99	99.9	10.0	10.1	101	1.1	75-125	<15	
Cobalt	10.0	7.90	79.0	10.0	7.60	76.0	3.9	75-125	<15	
Copper	10.0	10.3	103	10.0	10.1	101	2.0	75-125	<15	
Lead	10.0	8.72	87.2	10.0	8.82	88.2	1.1	75-125	<15	
Mercury (By EPA 7471)	0.500	0.434	86.7	0.500	0.391	78.2	10.3	75-125	<15	
Molybdenum	10.0	11.7	117	10.0	12.1	121	3.4	75-125	<15	
Nickel	10.0	9.85	98.5	10.0	9.98	99.8	1.3	75-125	<15	
Selenium	10.0	10.5	105	10.0	9.71	97.1	7.8	75-125	<15	
Silver	10.0	8.17	81.7	10.0	8.51	85.1	4.1	75-125	<15	
Thallium	10.0	7.56	75.6	10.0	7.58	75.8	<1	75-125	<15	
Vanadium	10.0	9.27	92.7	10.0	10.3	103	10.5	75-125	<15	
Zinc	10.0	9.74	97.4	10.0	9.37	93.7	3.9	75-125	<15	



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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 030119EB2; Dup or Spiked Sample: 96484.06; LCS: Clean Sand; QC Prepared: 03/01/2019; QC Analyzed: 03/01/2019;
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aldrin	0.00	0.0200	0.0155	77.5	0.0200	0.0144	72.0	7.4	40-150	<40
4,4'-DDT (DDT)	0.00	0.0500	0.0470	94.0	0.0500	0.0413	82.6	12.9	40-150	<40
Dieldrin	0.00	0.0500	0.0468	93.6	0.0500	0.0422	84.4	10.3	40-150	<40
Endrin	0.00	0.0500	0.0670	134	0.0500	0.0600	120	11.0	40-150	<40
Heptachlor	0.00	0.0200	0.0157	78.5	0.0200	0.0145	72.5	7.9	40-150	<40
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	0.00	0.0200	0.0152	76.0	0.0200	0.0138	69.0	9.7	40-150	<40
Surrogates										
Decachlorobiphenyl	0.00	0.0250	0.0245	98.0	0.0250	0.0231	92.4	5.9	30-150	<40
Tetrachloro-m-xylene	0.00	0.0250	0.0183	73.2	0.0250	0.0177	70.8	3.3	30-150	<40

QC Batch No: 030119EB2; Dup or Spiked Sample: 96484.06; LCS: Clean Sand; QC Prepared: 03/01/2019; QC Analyzed: 03/01/2019;
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Aldrin	0.0200	0.0189	94.5	0.0200	0.0188	94.0	<1	50-150	<40	
4,4'-DDT (DDT)	0.0500	0.0491	98.2	0.0500	0.0451	90.2	8.5	50-150	<40	
Dieldrin	0.0500	0.0535	107	0.0500	0.0515	103	3.8	50-150	<40	
Endrin	0.0500	0.0720	144	0.0500	0.0665	133	7.9	50-150	<40	
Heptachlor	0.0200	0.0191	95.5	0.0200	0.0185	92.5	3.2	50-150	<40	
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	0.0200	0.0187	93.5	0.0200	0.0179	89.5	4.4	50-150	<40	
Surrogates										
Decachlorobiphenyl	0.0250	0.0260	104	0.0250	0.0240	96.0	8.0	30-150	<40	
Tetrachloro-m-xylene	0.0250	0.0241	96.4	0.0250	0.0232	92.8	3.8	30-150	<40	



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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 030419EB1; Dup or Spiked Sample: 96484.21; LCS: Clean Sand; QC Prepared: 03/04/2019; QC Analyzed: 03/04/2019;
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aldrin	0.00	0.0200	0.0232	116	0.0200	0.0252	126	8.3	40-150	<40
4,4'-DDT (DDT)	0.00	0.0500	0.0600	120	0.0500	0.0590	118	1.7	40-150	<40
Dieldrin	0.00	0.0500	0.0640	128	0.0500	0.0660	132	3.1	40-150	<40
Endrin	0.00	0.0500	0.0660	132	0.0500	0.0690	138	4.4	40-150	<40
Heptachlor	0.00	0.0200	0.0228	114	0.0200	0.0244	122	6.8	40-150	<40
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	0.00	0.0200	0.0198	99.0	0.0200	0.0214	107	7.8	40-150	<40
Surrogates										
Decachlorobiphenyl	0.00	0.0250	0.0328	131	0.0250	0.0298	119	9.6	30-150	<40
Tetrachloro-m-xylene	0.00	0.0250	0.0275	110	0.0250	0.0265	106	3.7	30-150	<40

QC Batch No: 030419EB1; Dup or Spiked Sample: 96484.21; LCS: Clean Sand; QC Prepared: 03/04/2019; QC Analyzed: 03/04/2019;
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Aldrin	0.0200	0.0177	88.5	0.0200	0.0185	92.5	4.4	50-150	<40
4,4'-DDT (DDT)	0.0500	0.0402	80.4	0.0500	0.0457	91.4	12.8	50-150	<40
Dieldrin	0.0500	0.0475	95.0	0.0500	0.0520	104	9.0	50-150	<40
Endrin	0.0500	0.0580	116	0.0500	0.0645	129	10.6	50-150	<40
Heptachlor	0.0200	0.0164	82.0	0.0200	0.0175	87.5	6.5	50-150	<40
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	0.0200	0.0155	77.5	0.0200	0.0168	84.0	8.0	50-150	<40
Surrogates									
Decachlorobiphenyl	0.0250	0.0226	90.4	0.0250	0.0243	97.2	7.2	30-150	<40
Tetrachloro-m-xylene	0.0250	0.0211	84.4	0.0250	0.0221	88.4	4.6	30-150	<40



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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 030119ZB1; Dup or Spiked Sample: 96484.06; LCS: Clean Sand; QC Prepared: 03/01/2019; QC Analyzed: 03/04/2019;
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aroclor-1016 (PCB-1016)	0.00	0.500	0.530	106	0.500	0.505	101	4.8	50-150	<40
Aroclor-1260 (PCB-1260)	0.00	0.500	0.545	109	0.500	0.560	112	2.7	50-150	<40
Surrogates										
Decachlorobiphenyl	0.00	0.0250	0.0293	117	0.0250	0.0290	116	<1	30-150	<40
Tetrachloro-m-xylene	0.00	0.0250	0.0253	101	0.0250	0.0263	105	3.9	30-150	<40

QC Batch No: 030119ZB1; Dup or Spiked Sample: 96484.06; LCS: Clean Sand; QC Prepared: 03/01/2019; QC Analyzed: 03/04/2019;
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Aroclor-1016 (PCB-1016)	0.500	0.515	103	50-150						
Aroclor-1260 (PCB-1260)	0.500	0.491	98.2	50-150						
Surrogates										
Decachlorobiphenyl	0.0250	0.0343	137	30-150						
Tetrachloro-m-xylene	0.0250	0.0270	108	30-150						



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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 030419ZB1; Dup or Spiked Sample: 96484.21; LCS: Clean Sand; QC Prepared: 03/04/2019; QC Analyzed: 03/04/2019;
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aroclor-1016 (PCB-1016)	0.00	0.500	0.595	119	0.500	0.675	135	12.6	50-150	<40
Aroclor-1260 (PCB-1260)	0.00	0.500	0.530	106	0.500	0.590	118	10.7	50-150	<40
Surrogates										
Decachlorobiphenyl	0.00	0.0250	0.0320	128	0.0250	0.0360	144	11.8	30-150	<40
Tetrachloro-m-xylene	0.00	0.0250	0.0303	121	0.0250	0.0330	132	8.7	30-150	<40

QC Batch No: 030419ZB1; Dup or Spiked Sample: 96484.21; LCS: Clean Sand; QC Prepared: 03/04/2019; QC Analyzed: 03/04/2019;
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Aroclor-1016 (PCB-1016)	0.500	0.422	84.4	50-150						
Aroclor-1260 (PCB-1260)	0.500	0.421	84.2	50-150						
Surrogates										
Decachlorobiphenyl	0.0250	0.0234	93.6	30-150						
Tetrachloro-m-xylene	0.0250	0.0183	73.2	30-150						



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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0301192A2; Dup or Spiked Sample: 96484.05; LCS: Clean Sand; QC Prepared: 03/01/2019; MS Analyzed: 03/02/2019;
 LCS Analyzed: 03/01/2019; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzene	0.00	50.0	39.4	78.7	50.0	41.9	83.7	6.2	75-125	<20
Carbon tetrachloride	0.00	50.0	61.0	122	50.0	65.5 M	131	7.1	75-125	<20
Chlorobenzene	0.00	50.0	36.2 M	72.4	50.0	37.5	75.0	3.5	75-125	<20
Chloroform (Trichloromethane)	0.00	50.0	48.8	97.6	50.0	50.5	101	3.4	75-125	<20
1,2-Dichlorobenzene	0.00	50.0	31.7 M	63.4	50.0	32.7 M	65.4	3.1	75-125	<20
1,1-Dichloroethane	0.00	50.0	57.5	115	50.0	57.5	115	<1	75-125	<20
1,1-Dichloroethene	0.00	50.0	54.5	109	50.0	56.0	112	2.7	75-125	<20
cis-1,2-Dichloroethene	0.00	50.0	41.2	82.4	50.0	44.0	88.0	6.6	75-125	<20
Ethylbenzene	0.00	50.0	37.2 M	74.4	50.0	38.5	77.0	3.4	75-125	<20
n-Propylbenzene	0.00	50.0	35.3 M	70.6	50.0	36.7 M	73.4	3.9	75-125	<20
Toluene (Methyl benzene)	0.00	50.0	36.6 M	73.2	50.0	38.4	76.8	4.8	75-125	<20
1,1,1-Trichloroethane	0.00	50.0	58.0	116	50.0	61.5	123	5.9	75-125	<20
1,1,2-Trichloroethane	0.00	50.0	38.7	77.4	50.0	39.8	79.6	2.8	75-125	<20
Trichloroethene	0.00	50.0	45.2	90.4	50.0	48.2	96.4	6.4	75-125	<20
1,2,4-Trimethylbenzene	0.00	50.0	36.7 M	73.4	50.0	39.3	78.6	6.8	75-125	<20
1,3,5-Trimethylbenzene	0.00	50.0	36.9 M	73.8	50.0	39.4	78.8	6.6	75-125	<20
o-Xylene	0.00	50.0	35.5 M	71.0	50.0	36.6 M	73.2	3.1	75-125	<20
m,p-Xylenes	0.00	100	71.9 M	71.9	100	73.8 M	73.8	2.6	75-125	<20
Methyl-tert-butyl ether (MTBE)	0.00	50.0	59.0	118	50.0	61.5	123	4.1	75-125	<20
Surrogates										
Bromofluorobenzene	0.00	50.0	49.0	97.9	50.0	49.2	98.3	<1	75-125	<20
Dibromofluoromethane	0.00	50.0	54.0	108	50.0	52.5	105	2.8	75-125	<20
Toluene-d8	0.00	50.0	45.6	91.2	50.0	45.4	90.7	<1	75-125	<20



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Project ID: HF00710004
 Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0301192A2; Dup or Spiked Sample: 96484.05; LCS: Clean Sand; QC Prepared: 03/01/2019; MS Analyzed: 03/02/2019;
 LCS Analyzed: 03/01/2019; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Benzene	50.0	53.5	107	50.0	55.0	110	2.8	75-125	<20
Carbon tetrachloride	50.0	57.5	115	50.0	56.5	113	1.8	75-125	<20
Chlorobenzene	50.0	48.4	96.8	50.0	50.5	101	4.2	75-125	<20
Chloroform (Trichloromethane)	50.0	58.5	117	50.0	61.5	123	5.0	75-125	<20
1,2-Dichlorobenzene	50.0	51.0	102	50.0	51.0	102	<1	75-125	<20
1,1-Dichloroethane	50.0	60.0	120	50.0	60.0	120	<1	75-125	<20
1,1-Dichloroethene	50.0	57.5	115	50.0	60.0	120	4.3	75-125	<20
cis-1,2-Dichloroethene	50.0	51.5	103	50.0	52.0	104	<1	75-125	<20
Ethylbenzene	50.0	48.9	97.8	50.0	50.5	101	3.2	75-125	<20
n-Propylbenzene	50.0	52.0	104	50.0	51.5	103	<1	75-125	<20
Toluene (Methyl benzene)	50.0	47.2	94.4	50.0	48.5	97.0	2.7	75-125	<20
1,1,1-Trichloroethane	50.0	61.5	123	50.0	55.5	111	10.3	75-125	<20
1,1,2-Trichloroethane	50.0	51.0	102	50.0	53.5	107	4.8	75-125	<20
Trichloroethene	50.0	61.5	123	50.0	59.5	119	3.3	75-125	<20
1,2,4-Trimethylbenzene	50.0	54.0	108	50.0	54.0	108	<1	75-125	<20
1,3,5-Trimethylbenzene	50.0	55.0	110	50.0	54.5	109	<1	75-125	<20
o-Xylene	50.0	46.1	92.2	50.0	47.0	94.0	1.9	75-125	<20
m,p-Xylenes	100	95.9	95.9	100	98.1	98.1	2.3	75-125	<20
Methyl-tert-butyl ether (MTBE)	50.0	62.5	125	50.0	61.0	122	2.4	75-125	<20
Surrogates									
Bromofluorobenzene	50.0	51.0	102	50.0	49.7	99.3	2.7	75-125	<20
Dibromofluoromethane	50.0	56.0	112	50.0	56.5	113	<1	75-125	<20
Toluene-d8	50.0	45.7	91.3	50.0	45.5	90.9	<1	75-125	<20



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Devil's Gate Reservoir Restor.

Telephone: (626)458-4923

Attn: Greg Sena

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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0302192A1; Dup or Spiked Sample: 96484.18; LCS: Clean Sand; LCS Prepared: 03/02/2019; LCS Analyzed: 03/02/2019;
 Units: mg/Kg

Analytes	LCS	LCS	LCS	LCS DUP	LCS DUP	LCS DUP	LCS RPD	LCS/LCSD	LCS RPD	
	Concen	Recov	% REC	Concen	Recov	% REC	% REC	% Limit	% Limit	
Benzene	50.0	50.0	100	50.0	52.5	105	4.9	75-125	<20	
Carbon tetrachloride	50.0	60.5	121	50.0	62.5	125	3.3	75-125	<20	
Chlorobenzene	50.0	44.9	89.8	50.0	47.0	94.0	4.6	75-125	<20	
Chloroform (Trichloromethane)	50.0	57.5	115	50.0	58.5	117	1.7	75-125	<20	
1,2-Dichlorobenzene	50.0	45.6	91.2	50.0	49.5	99.0	8.2	75-125	<20	
1,1-Dichloroethane	50.0	61.5	123	50.0	57.5	115	6.7	75-125	<20	
1,1-Dichloroethene	50.0	58.0	116	50.0	61.0	122	5.0	75-125	<20	
cis-1,2-Dichloroethene	50.0	47.7	95.4	50.0	49.0	98.0	2.7	75-125	<20	
Ethylbenzene	50.0	45.3	90.6	50.0	47.5	95.0	4.7	75-125	<20	
n-Propylbenzene	50.0	45.4	90.8	50.0	49.0	98.0	7.6	75-125	<20	
Toluene (Methyl benzene)	50.0	43.4	86.8	50.0	45.5	91.0	4.7	75-125	<20	
1,1,1-Trichloroethane	50.0	62.5	125	50.0	60.0	120	4.1	75-125	<20	
1,1,2-Trichloroethane	50.0	50.0	100	50.0	52.0	104	3.9	75-125	<20	
Trichloroethene	50.0	60.0	120	50.0	59.5	119	<1	75-125	<20	
1,2,4-Trimethylbenzene	50.0	49.0	98.0	50.0	53.0	106	7.8	75-125	<20	
1,3,5-Trimethylbenzene	50.0	49.5	99.0	50.0	53.0	106	6.8	75-125	<20	
o-Xylene	50.0	42.9	85.8	50.0	45.0	90.0	4.8	75-125	<20	
m,p-Xylenes	100	87.7	87.7	100	91.1	91.1	3.8	75-125	<20	
Methyl-tert-butyl ether (MTBE)	50.0	62.0	124	50.0	60.5	121	2.4	75-125	<20	
Surrogates										
Bromofluorobenzene	50.0	49.6	99.2	50.0	50.5	101	1.8	75-125	<20	
Dibromofluoromethane	50.0	54.0	108	50.0	52.5	105	2.8	75-125	<20	
Toluene-d8	50.0	45.5	91.0	50.0	45.2	90.4	<1	75-125	<20	



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Attn: Greg Sena

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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8270C), Semivolatile Organic Compounds by GC/MS (SW-846)

QC Batch No: 030119JB1; Dup or Spiked Sample: 96484.06; LCS: Clean Sand; QC Prepared: 03/01/2019; QC Analyzed: 03/01/2019;
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Acenaphthene	0.00	2.50	1.47	58.8	2.50	1.48	59.2	<1	46-118	<20
4-Chloro-3-methylphenol	0.00	5.00	2.98	59.6	5.00	3.02	60.4	1.3	39-98	<20
2-Chlorophenol	0.00	5.00	2.60	52.0	5.00	2.71	54.2	4.1	27-123	<20
1,4-Dichlorobenzene	0.00	2.50	1.40	56.0	2.50	1.43	57.2	2.1	36-97	<20
2,4-Dinitrotoluene	0.00	2.50	1.58	63.2	2.50	1.62	64.8	2.5	24-96	<20
N-Nitroso-Di-n-propylamine	0.00	2.50	1.60	64.0	2.50	1.63	65.2	1.9	41-116	<20
4-Nitrophenol	0.00	5.00	2.85	57.0	5.00	3.15	63.0	10.0	10-110	<20
Pentachlorophenol	0.00	5.00	2.86	57.2	5.00	3.03	60.6	5.8	40-125	<20
Phenol	0.00	5.00	2.43	48.6	5.00	2.54	50.8	4.4	12-89	<20
Pyrene	0.00	2.50	1.59	63.6	2.50	1.51	60.4	5.2	26-127	<20
1,2,4-Trichlorobenzene	0.00	2.50	1.54	61.6	2.50	1.59	63.6	3.2	39-98	<20
Surrogates										
2-Fluorophenol	0.00	5.00	2.50	50.0	5.00	2.68	53.6	6.9	25-121	<20
2-Fluorobiphenyl	0.00	2.50	1.52	60.8	2.50	1.57	62.8	3.2	30-115	<20
Nitrobenzene-d5	0.00	2.50	1.44	57.6	2.50	1.47	58.8	2.1	23-120	<20
p-Terphenyl-D14	0.00	2.50	1.81	72.4	2.50	1.71	68.4	5.7	18-137	<20
Phenol-d6	0.00	5.00	2.61	52.2	5.00	2.74	54.8	4.9	24-113	<20
2,4,6-Tribromophenol	0.00	5.00	3.53	70.6	5.00	3.46	69.2	2.0	19-122	<20

QC Batch No: 030119JB1; Dup or Spiked Sample: 96484.06; LCS: Clean Sand; QC Prepared: 03/01/2019; QC Analyzed: 03/01/2019;
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit
Acenaphthene	2.50	1.90	76.0	31-137
4-Chloro-3-methylphenol	5.00	4.32	86.4	40-99
2-Chlorophenol	5.00	3.89	77.8	25-102
1,4-Dichlorobenzene	2.50	1.89	75.6	28-104
2,4-Dinitrotoluene	2.50	2.14	85.6	28-89
N-Nitroso-Di-n-propylamine	2.50	2.09	83.6	41-126
4-Nitrophenol	5.00	4.40	88.0	11-114



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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8270C), Semivolatile Organic Compounds by GC/MS (SW-846)

QC Batch No: 030119JB1; Dup or Spiked Sample: 96484.06; LCS: Clean Sand; QC Prepared: 03/01/2019; QC Analyzed: 03/01/2019;
Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Pentachlorophenol	5.00	4.79	95.8	17-125						
Phenol	5.00	3.67	73.4	26-90						
Pyrene	2.50	1.95	78.0	35-142						
1,2,4-Trichlorobenzene	2.50	2.13	85.2	38-107						
Surrogates										
2-Fluorophenol	5.00	3.33	66.6	25-121						
2-Fluorobiphenyl	2.50	1.98	79.2	30-115						
Nitrobenzene-d5	2.50	1.90	76.0	23-120						
p-Terphenyl-D14	2.50	2.11	84.4	18-137						
Phenol-d6	5.00	3.42	68.4	24-113						
2,4,6-Tribromophenol	5.00	4.74	94.8	19-122						



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Attn: Greg Sena

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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8270C), Semivolatile Organic Compounds by GC/MS (SW-846)

QC Batch No: 030419JB1; Dup or Spiked Sample: 96484.21; LCS: Clean Sand; QC Prepared: 03/04/2019; QC Analyzed: 03/04/2019;
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Acenaphthene	0.00	2.50	1.70	68.0	2.50	1.75	70.0	2.9	46-118	<20
4-Chloro-3-methylphenol	0.00	5.00	3.59	71.8	5.00	3.43	68.6	4.6	39-98	<20
2-Chlorophenol	0.00	5.00	3.08	61.6	5.00	3.07	61.4	<1	27-123	<20
1,4-Dichlorobenzene	0.00	2.50	1.61	64.4	2.50	1.61	64.4	<1	36-97	<20
2,4-Dinitrotoluene	0.00	2.50	1.81	72.4	2.50	1.79	71.6	1.1	24-96	<20
N-Nitroso-Di-n-propylamine	0.00	2.50	1.87	74.8	2.50	1.86	74.4	<1	41-116	<20
4-Nitrophenol	0.00	5.00	3.61	72.2	5.00	3.41	68.2	5.7	10-110	<20
Pentachlorophenol	0.00	5.00	4.40	88.0	5.00	4.16	83.2	5.6	40-125	<20
Phenol	0.00	5.00	2.85	57.0	5.00	2.83	56.6	<1	12-89	<20
Pyrene	0.00	2.50	1.73	69.2	2.50	1.70	68.0	1.7	26-127	<20
1,2,4-Trichlorobenzene	0.00	2.50	1.77	70.8	2.50	1.73	69.2	2.3	39-98	<20
Surrogates										
2-Fluorophenol	0.00	5.00	2.74	54.8	5.00	2.81	56.2	2.5	25-121	<20
2-Fluorobiphenyl	0.00	2.50	1.68	67.2	2.50	1.71	68.4	1.8	30-115	<20
Nitrobenzene-d5	0.00	2.50	1.62	64.8	2.50	1.60	64.0	1.2	23-120	<20
p-Terphenyl-D14	0.00	2.50	1.84	73.6	2.50	1.79	71.6	2.8	18-137	<20
Phenol-d6	0.00	5.00	2.95	59.0	5.00	2.94	58.8	<1	24-113	<20
2,4,6-Tribromophenol	0.00	5.00	3.93	78.6	5.00	3.84	76.8	2.3	19-122	<20

QC Batch No: 030419JB1; Dup or Spiked Sample: 96484.21; LCS: Clean Sand; QC Prepared: 03/04/2019; QC Analyzed: 03/04/2019;
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit
Acenaphthene	2.50	2.02	80.8	31-137
4-Chloro-3-methylphenol	5.00	3.93	78.6	40-99
2-Chlorophenol	5.00	3.62	72.4	25-102
1,4-Dichlorobenzene	2.50	1.94	77.6	28-104
2,4-Dinitrotoluene	2.50	2.06	82.4	28-89
N-Nitroso-Di-n-propylamine	2.50	2.13	85.2	41-126
4-Nitrophenol	5.00	3.58	71.6	11-114



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Project ID: HF00710004
Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (8270C), Semivolatile Organic Compounds by GC/MS (SW-846)

QC Batch No: 030419JB1; Dup or Spiked Sample: 96484.21; LCS: Clean Sand; QC Prepared: 03/04/2019; QC Analyzed: 03/04/2019;
Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Pentachlorophenol	5.00	3.57	71.4	17-125						
Phenol	5.00	3.40	68.0	26-90						
Pyrene	2.50	2.03	81.2	35-142						
1,2,4-Trichlorobenzene	2.50	2.01	80.4	38-107						
Surrogates										
2-Fluorophenol	5.00	3.63	72.6	25-121						
2-Fluorobiphenyl	2.50	2.12	84.8	30-115						
Nitrobenzene-d5	2.50	2.02	80.8	23-120						
p-Terphenyl-D14	2.50	2.25	90.0	18-137						
Phenol-d6	5.00	3.76	75.2	24-113						
2,4,6-Tribromophenol	5.00	4.80	96.0	19-122						



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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 030119DB2; Dup or Spiked Sample: 96484.06; LCS: Clean Sand; QC Prepared: 03/01/2019; QC Analyzed: 03/01/2019;
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Diesel (C13-C22)	0.00	500	515	103	500	510	102	<1	75-125	<20
Surrogates										
Chlorobenzene	0.00	100	98.0	98.0	100	98.1	98.1	<1	75-125	<20

QC Batch No: 030119DB2; Dup or Spiked Sample: 96484.06; LCS: Clean Sand; QC Prepared: 03/01/2019; QC Analyzed: 03/01/2019;
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
TPH as Diesel (C13-C22)	500	505	101	500	486	97.2	3.8	75-125	<20
Surrogates									
Chlorobenzene	100	99.8	99.8	100	99.3	99.3	<1	75-125	<20



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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 030119DB3; Dup or Spiked Sample: 96484.21; LCS: Clean Sand; QC Prepared: 03/01/2019; QC Analyzed: 03/02/2019;
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Diesel (C13-C22)	0.00	500	515	103	500	515	103	<1	75-125	<20
Surrogates										
Chlorobenzene	0.00	100	99.6	99.6	100	99.4	99.4	<1	75-125	<20

QC Batch No: 030119DB3; Dup or Spiked Sample: 96484.21; LCS: Clean Sand; QC Prepared: 03/01/2019; QC Analyzed: 03/02/2019;
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
TPH as Diesel (C13-C22)	500	525	105	500	515	103	1.9	75-125	<20
Surrogates									
Chlorobenzene	100	101	101	100	100	100	<1	75-125	<20



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Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 030119OB2; Dup or Spiked Sample: 96484.05AGA; LCS: Clean Sand; QC Prepared: 03/01/2019; QC Analyzed: 03/02/2019;
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Gasoline and Light HC. (C4-C12)	0.0269	1.00	0.909	88.2	1.00	0.906	87.9	<1	75-125	<20
Surrogates										
Bromofluorobenzene	0.00	0.0500	0.0515	103	0.0500	0.0545	109	5.7	75-125	<20

QC Batch No: 030119OB2; Dup or Spiked Sample: 96484.05AGA; LCS: Clean Sand; QC Prepared: 03/01/2019; QC Analyzed: 03/02/2019;
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
TPH as Gasoline and Light HC. (C4-C12)	1.00	1.01	101	1.00	1.00	100	<1	75-125	<20
Surrogates									
Bromofluorobenzene	0.0500	0.0481	96.2	0.0500	0.0515	103	6.8	75-125	<20



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QUALITY CONTROL RESULTS

Ordered By

LA County Dept. of Public Works
 GMED
 900 S. Fremont Ave, 4th Floor
 Alhambra, CA 91803-

Site

Devil's Gate Reservoir Restor.

Telephone: (626)458-4923

Attn: Greg Sena

Page: 96

Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 030119OB3; LCS: Clean Sand; LCS Prepared: 03/01/2019; LCS Analyzed: 03/02/2019; Units: mg/Kg

Analytes	LCS	LCS	LCS	LCS DUP	LCS DUP	LCS DUP	LCS RPD	LCS/LCSD	LCS RPD	
	Concen	Recov	% REC	Concen	Recov	% REC	% REC	% Limit	% Limit	
TPH as Gasoline and Light HC. (C4-C12)	1.00	0.857	85.7	1.00	0.860	86.0	<1	75-125	<20	
Surrogates										
Bromofluorobenzene	0.0500	0.0495	99.0	0.0500	0.0474	94.8	4.3	75-125	<20	



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Page: 97

Project ID: HF00710004

Project Name: Devil's Gate Reservoir Restor.

AETL Job Number	Submitted	Client
96484	02/28/2019	LACDPW

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 030419NB1; LCS: Clean Sand; LCS Prepared: 03/04/2019; LCS Analyzed: 03/04/2019; Units: mg/Kg

Analytes	LCS	LCS	LCS	LCS DUP	LCS DUP	LCS DUP	LCS RPD	LCS/LCSD	LCS RPD	
	Concen	Recov	% REC	Concen	Recov	% REC	% REC	% Limit	% Limit	
TPH as Gasoline and Light HC. (C4-C12)	1.00	0.872	87.2	1.00	0.874	87.4	<1	75-125	<20	
Surrogates										
Bromofluorobenzene	0.0500	0.0540	108	0.0500	0.0510	102	5.7	75-125	<20	



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Data Qualifiers and Descriptors

Data Qualifier:

- #: Recovery is not within acceptable control limits.
- *: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

Definition:

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference
