Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

APCL Analytical Report

Submitted to:
SOTA Environmental
Attention: Yu Zeng
16835 W. Bernardo Dr, Ste. 212
San Diego CA 92127
Tel: (858)485-8100 Fax: (858)485-0812

Service ID #: 801-015020
Collected by: MES/JNT
Collected on: 07/31/01

Received: 07/31/01
Extracted: N/A
Tested: 08/01-06/01
Reported: 08/10/01

Sample Description: Water from Pasadena, CA
Project Description: Job#00HW019 JPL

Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result ER-23 01-05020-1	MW-20-5 01-05020-2	MW-23-5 01-05020-3
Perchlorate	E314	µg/L	4	<4	-	<4
Chromium (VI)	7196	mg/L	0.01	<0.01	<0.01	-

Component Analyzed	Method	Unit	PQL	Analysis Result MW-23-4 01-05020-4	MW-23-3 01-05020-5	MW-23-2 01-05020-6	MW-23-1 01-05020-7
Perchlorate	E314	µg/L	4	<4	<4	<4	<4
Chromium (VI)	7196	mg/L	0.01	<0.01	<0.01	<0.01	<0.01

Component Analyzed	Method	Unit	PQL	Analysis Result ER-23 01-05020-1	MW-23-3 01-05020-5
Volatile Organic Compounds					
Dilution Factor				1	1
Bromodichloromethane	524.2	µg/L	0.5	0.4J	-
Carbon tetrachloride	524.2	µg/L	0.5	<0.5	<0.5
Chloroform	524.2	µg/L	0.5	0.3J	<0.5
1,1-Dichloroethane	524.2	µg/L	0.5	<0.5	<0.5
1,2-Dichloroethane	524.2	µg/L	0.5	<0.5	<0.5
1,1-Dichloroethene	524.2	µg/L	0.5	<0.5	<0.5
Tetrachloroethene	524.2	µg/L	0.5	<0.5	<0.5
Trichloroethene	524.2	µg/L	0.5	<0.5	<0.5
1,1,2-Trichlorotrifluoroethane	524.2	µg/L	0.5	<0.5	<0.5

Component Analyzed	Method	Unit	PQL	Analysis Result MW-23-2 01-05020-6	MW-23-1 01-05020-7	Trip Blank 01-05020-8
Volatile Organic Compounds						
Dilution Factor				1	1	1
Carbon tetrachloride	524.2	µg/L	0.5	<0.5	0.6	<0.5
Chloroform	524.2	µg/L	0.5	0.5	0.5	<0.5
1,1-Dichloroethane	524.2	µg/L	0.5	<0.5	0.4J	<0.5
1,2-Dichloroethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,1-Dichloroethene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
Methylene chloride	524.2	µg/L	1	-	-	2

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APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result MW-23-2 01-05020-6	MW-23-1 01-05020-7	Trip Blank 01-05020-8
Tetrachloroethene	524.2	μg/L	0.5	0.6	0.9	<0.5
1,2,3-Trichlorobenzene	524.2	μg/L	0.5	1.2	-	-
Trichloroethene	524.2	μg/L	0.5	0.3J	1.9	<0.5
1,1,2-Trichlorotrifluoroethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit
N.D.: Not Detected or less than the practical quantitation limit. "-": Analysis is not required.
J: Reported between PQL and MDL.
Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

Respectfully submitted,

Dominic Lau
Laboratory Director
Applied P & Ch Laboratory

APCL

Applied P & Ch Laboratory

13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Chain of Custody

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Client: SOTA ENVIRONMENTAL TECH. Contact: PAUL JEFFERS Tel #: 858-485-8100 Fax #: 858-485-0812
Address: 16835 W. BERNARDO DR. #212 City: SAN DIEGO State: CA Zip code: 92127
Bill to: SOTA
Project Name/Code JPL Job #00HW019 P.O. #
Project Address PASADENA, CA APCL Quotation #
Due Date: ☐regular ☐rush: ___ days ___ hours Sampled by: MES/JNT

Analysis Items

Field Sample ID No.	Sample Description	Date Collected	Time Collected	Sample Matrix	Preser-vation	# of Containers	VDCs (524.2)	PERCHLORATE (314)	TOTAL Cr (200.8)	Cr VI (314)	Remarks
	TRIP BLANK	7/31/01	820	H_2O	HCl	2	X				
	ER-23	7/31/01	825	H_2O	PER LAB	5	X	X	X	X	
	MW-23-5	7/31/01	854	H_2O	PER LAB	1		X			
	MW-23-4	7/31/01	917	H_2O	PER LAB	2		X	X	X	
	MW-23-3	7/31/01	946	H_2O	PER LAB	5	X	X	X	X	
	MW-23-2	7/31/01	1006	H_2O	PER LAB	5	X	X	X	X	
	MW-23-1	7/31/01	1031	H_2O	PER LAB	5	X	X	X	X	
	MW-20-5	7/31/01	1243	H_2O	—	1				X	

White – With report
Yellow – Lab copy
Pink – Originator

5020

EPA LEVEL IV (D) QA/QC

QC Requirement: ☐Regular; ☐QA/QC Report; ☐WIP; ☐Raw Data; ☐Extended Raw Data ☐CLP; ☐ACE ☐AFCEE ☐NEESA ___ (E, C or D); ☐Other _____ (Please specify)

Sample Disposal: ☐Return ☐Disposal by APCL ☐Hold for _____ days after receiving date. **If not specified, samples will be discarded 45 days after samples are received.**

Sample Conditions: ☐Intact; ☐Broken. Cooler Seal: ☐Intact; ☐Broken; ☐ None . Tag # _____ Temperature: ☐ Room ☐Cold (_____ °C).

Relinquished by [signature] Date/Time 7/31/01 / 1745 Received by [signature] Date/Time 7/31/01 / 1745

Relinquished by Date/Time / Received by Date/Time /

APCL USE ONLY Service # Note:

Clients understand that all terms described in the proposals, quotations for this project, and/or the general terms provided in the current APCL price schedules will be followed. APCL reserves the right to terminate its service or withhold delivery of any reports, if in APCL's sole discretion the terms of the project have been broken.

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APCL Analytical Report

Submitted to:
SOTA Environmental
Attention: Yu Zeng
16835 W. Bernardo Dr, Ste. 212
San Diego CA 92127
Tel: (858)485-8100 Fax: (858)485-0812

Service ID #: 801-015003
Collected by: MES/JNT
Collected on: 07/30/01

Received: 07/30/01
Extracted: N/A
Tested: 07/30-08/13/01
Reported: 08/14/01

Sample Description: Water from Pasadena, CA
Project Description: Job#00HW019 JPL

Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result ER-14 01-05003-1	MW-14-1 01-05003-2	MW-14-5 01-05003-3	MW-14-4 01-05003-4
Perchlorate	E314	μg/L	4	<4	<4	<4	<4
Chromium (VI)	7196	mg/L	0.01	<0.01	<0.01	-	<0.01
Volatile Organic Compounds							
Dilution Factor				1	1	1	1
Bromodichloromethane	524.2	μg/L	0.5	0.4J	-	-	-
Carbon tetrachloride	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
Chloroform	524.2	μg/L	0.5	0.3J	<0.5	<0.5	<0.5
1,1-Dichloroethane	524.2	μg/L	0.5	<0.5	0.7	<0.5	<0.5
1,2-Dichloroethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethene	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
Methylene chloride	524.2	μg/L	1	-	1J	-	1
Tetrachloroethene	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethene	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichlorotrifluoroethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5

Component Analyzed	Method	Unit	PQL	Analysis Result MW-14-3 01-05003-5	MW-14-2 01-05003-6	MW-14-2D 01-05003-7	Trip Blank 01-05003-8
Perchlorate	E314	μg/L	4	<4	<4	<4	-
Chromium (VI)	7196	mg/L	0.01	<0.01	<0.01	<0.01	-
Volatile Organic Compounds							
Dilution Factor				1	1	1	1
Carbon tetrachloride	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
Chloroform	524.2	μg/L	0.5	0.6	0.6	0.6	<0.5
1,1-Dichloroethane	524.2	μg/L	0.5	0.4J	0.4J	0.5J	<0.5
1,2-Dichloroethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethene	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
Methylene chloride	524.2	μg/L	1	2	2	2.1	2.3

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APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result MW-14-3 01-05003-5	MW-14-2 01-05003-6	MW-14-2D 01-05003-7	Trip Blank 01-05003-8
Tetrachloroethene	524.2	μg/L	0.5	0.7	0.8	0.8	<0.5
1,2,3-Trichlorobenzene	524.2	μg/L	0.5	1.3	1.2	0.9	-
Trichloroethene	524.2	μg/L	0.5	1.1	2.7	3.4	<0.5
1,1,2-Trichlorotrifluoroethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit
N.D.: Not Detected or less than the practical quantitation limit. "-": Analysis is not required.
J: Reported between PQL and MDL.
Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

Respectfully submitted,

Dominic Lau
Laboratory Director
Applied P & Ch Laboratory

APCL
Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
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Chain of Custody

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Client: SOTA ENVIRONMENTAL TECH. Contact: PAUL JEFFERS Tel #: 858-485-8100 Fax #: 858-485-0812
Address: 16835 W. BERNARDO DR. #212 City: SAN DIEGO State: CA Zip code: 92127
Bill to: SOTA
Project Name/Code JPL Job #00HW019 P.O. #
Project Address PASADENA, CA APCL Quotation #
Due Date: ☐regular ☐rush: ___ days ___ hours Sampled by: MES/JNT

Analysis Items

Field Sample ID No.	Sample Description	Date Collected	Time Collected	Sample Matrix	Preservation	# of Containers	VOLs (524.2)	PERCHLORATE (314)	TOTAL Cr (200.8)	Cr VI (7196)	MS/MSD	Remarks
	TRIP BLANK	7/30/01	1115	H_2O	HCl	2	X					
	ER-14	7/30/01	1120	H_2O	PER LAB	5	X	X	X	X		
	MW-14-5	7/30/01	1147	H_2O	PER LAB	4	X	X				
	MW-14-4	7/30/01	1212	H_2O	PER LAB	5	X	X	X	X		
	MW-14-3	7/30/01	1241	H_2O	PER LAB	10	X	X	X	X	X	
	MW-14-2	7/30/01	1322	H_2O	PER LAB	5	X	X	X	X		
	MW-14-2D	7/30/01	1322	H_2O	PER LAB	5	X	X	X	X		
	MW-14-1	7/30/01	1409	H_2O	PER LAB	5	X	X	X	X		

White – With report
Yellow – Lab copy
Pink – Originator

EPA LEVEL IV (D) QA/QC

5003

QC Requirement: ☐Regular; ☐QA/QC Report; ☐WIP; ☐Raw Data; ☐Extended Raw Data ☐CLP; ☐ACE ☐AFCEE ☐NEESA ___(E, C or D); ☐Other _____(Please specify)
Sample Disposal: ☐Return ☐Disposal by APCL ☐Hold for _____ days after receiving date. **If not specified, samples will be discarded 45 days after samples are received.**
Sample Conditions: ☐Intact; ☐Broken. Cooler Seal: ☐Intact; ☐Broken; ☐ None. Tag # _____ Temperature: ☐ Room ☐Cold (_____ °C).

Relinquished by [signature] Date/Time 7/30/01 / 1625 Received by [signature] Date/Time 7/30/01 / 1625
Relinquished by Date/Time / Received by Date/Time /

APCL USE ONLY Service # Note:

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APCL Analytical Report

Submitted to:
SOTA Environmental
Attention: Yu Zeng
16835 W. Bernardo Dr, Ste. 212
San Diego CA 92127
Tel: (858)485-8100 Fax: (858)485-0812

Service ID #: 801-014964
Collected by: MES/JNT
Collected on: 07/27/01

Received: 07/27/01
Extracted: N/A
Tested: 07/27-31/01
Reported: 08/06/01

Sample Description: Water from Pasadena, CA
Project Description: Job#00HW019 JPL

Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result ER-4 01-04964-1	MW-4-1 01-04964-2
Perchlorate	E314	µg/L	4	<4	<4
Volatile Organic Compounds					
Dilution Factor				1	1
Bromodichloromethane	524.2	µg/L	0.5	0.5J	-
Carbon tetrachloride	524.2	µg/L	0.5	<0.5	<0.5
Chloroform	524.2	µg/L	0.5	<0.5	<0.5
1,1-Dichloroethane	524.2	µg/L	0.5	<0.5	<0.5
1,2-Dichloroethane	524.2	µg/L	0.5	<0.5	<0.5
1,1-Dichloroethene	524.2	µg/L	0.5	<0.5	<0.5
Tetrachloroethene	524.2	µg/L	0.5	<0.5	<0.5
Trichloroethene	524.2	µg/L	0.5	<0.5	<0.5
1,1,2-Trichlorotrifluoroethane	524.2	µg/L	0.5	<0.5	<0.5

Component Analyzed	Method	Unit	PQL	Analysis Result MW-4-3 01-04964-5	MW-4-2 01-04964-6	Trip Blank 01-04964-7
Perchlorate	E314	µg/L	4	<4	20	-
Volatile Organic Compounds						
Dilution Factor				1	1	1
Carbon tetrachloride	524.2	µg/L	0.5	<0.5	0.7	<0.5
Chloroform	524.2	µg/L	0.5	<0.5	1.0	<0.5
1,1-Dichloroethane	524.2	µg/L	0.5	<0.5	0.5	<0.5
1,2-Dichloroethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,1-Dichloroethene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
Ethylbenzene	524.2	µg/L	0.5	1.8	-	-
Methylene chloride	524.2	µg/L	1	-	-	2
Styrene	524.2	µg/L	0.5	0.3J	-	-
Tetrachloroethene	524.2	µg/L	0.5	<0.5	1.1	<0.5
Trichloroethene	524.2	µg/L	0.5	<0.5	1.6	<0.5
Trichlorofluoromethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,1,2-Trichlorotrifluoroethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5

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APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result ER-4 01-04964-1	MW-4-1 01-04964-2	MW-4-5 01-04964-3
Chromium (VI)	7196	mg/L	0.01	<0.01	<0.01	<0.01

Component Analyzed	Method	Unit	PQL	Analysis Result MW-4-4 01-04964-4	MW-4-3 01-04964-5	MW-4-2 01-04964-6
Chromium (VI)	7196	mg/L	0.01	<0.01	<0.01	<0.01

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit
N.D.: Not Detected or less than the practical quantitation limit. "-": Analysis is not required.
J: Reported between PQL and MDL.
Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

Respectfully submitted,

Dominic Lau
Laboratory Director
Applied P & Ch Laboratory

Applied P & Ch Laboratory

APCL

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Chain of Custody

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Client: SOTA ENVIRONMENTAL TECH. Contact: PAUL JEFFERS Tel #: 858-485-8100 Fax #: 858-485-0812

Address: 16835 W. BERNARDO DR. #212 City: SAN DIEGO State: CA Zip code: 92127

Bill to: SOTA

Project Name/Code JPL Job # 00HW019 P.O. #

Project Address PASADENA, CA APCL Quotation #

Due Date: ☐regular ☐rush: ___ days ___ hours Sampled by: MES/JNT

Field Sample ID No.	Sample Description	Date Collected	Time Collected	Sample Matrix	Preservation	# of Containers	VOCs (524.2)	PERCHLORATE (314)	TOTAL Cr (200.8)	Cr VI (7196)									Remarks
	TRIP BLANK	7/27/01	10:00	H_2O	HCl	2	X												
	ER-4	7/27/01	1021	H_2O	PER LAB	5	X	X	X	X									
	MW-4-5	7/27/01	1012	H_2O	PER LAB	2			X	X									
	MW-4-4	7/27/01	1030	H_2O	PER LAB	2			X	X									
	MW-4-3	7/27/01	1057	H_2O	PER LAB	5	X	X	X	X									
	MW-4-2	7/27/01	1118	H_2O	PER LAB	5	X	X	X	X									
	MW-4-1	7/27/01	1140	H_2O	PER LAB	5	X	X	X	X									

Analysis Items

White – With report
Yellow – Lab copy
Pink – Originator

EPA LEVEL IV (D) QA/QC

7/27/01

4964

QC Requirement: ☐Regular; ☐QA/QC Report; ☐WIP; ☐Raw Data; ☐Extended Raw Data ☐CLP; ☐ACE ☐AFCEE ☐NEESA ___ (E, C or D); ☐Other _____ (Please specify)

Sample Disposal: ☐Return ☐Disposal by APCL ☐Hold for _____ days after receiving date. **If not specified, samples will be discarded 45 days after samples are received.**

Sample Conditions: ☐Intact; ☐Broken. Cooler Seal: ☐Intact; ☐Broken; ☐ None . Tag # _____ Temperature: ☐ Room ☐Cold (_____ °C).

Relinquished by [signature] Date/Time 7/27/01 / 1300 Received by Paul C Date/Time 7/27/01 / 1300

Relinquished by Date/Time / Received by Date/Time /

APCL USE ONLY Service # Note:

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Tel: (909) 590-1828 Fax: (909) 590-1498

APCL Analytical Report

Submitted to:
SOTA Environmental
Attention: Yu Zeng
16835 W. Bernardo Dr, Ste. 212
San Diego CA 92127
Tel: (858)485-8100 Fax: (858)485-0812

Service ID #: 801-014946
Collected by: MES/JNT
Collected on: 07/26/01

Received: 07/26/01
Extracted: N/A
Tested: 07/26-30/01
Reported: 08/01/01

Sample Description: Water from Pasadena, CA
Project Description: Job#00HW019 JPL

Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result ER-24 01-04946-1	Field Blank 01-04946-2	MW-24-4 01-04946-3	MW-24-3 01-04946-4
Perchlorate	E314	µg/L	4	<4	<4	-	<4
Chromium (VI)	7196	mg/L	0.01	<0.01	<0.01	<0.01	<0.01
Volatile Organic Compounds							
Dilution Factor				1	1	1	1
Benzene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Bromobenzene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Bromochloromethane	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Bromodichloromethane	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Bromoform	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Bromomethane	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
n-Butylbenzene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
sec-Butylbenzene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
tert-Butylbenzene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Carbon tetrachloride	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Chlorobenzene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Chlorodibromomethane	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Chloroethane	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Chloroform	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Chloromethane	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
2-Chlorotoluene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
4-Chlorotoluene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
1,2-Dibromo-3-chloropropane (DB	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
1,2-Dibromoethane (EDB)	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Dibromomethane	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
1,2-Dichlorobenzene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
1,3-Dichlorobenzene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
1,4-Dichlorobenzene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Dichlorodifluoromethane	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
1,1-Dichloroethane	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
1,2-Dichloroethane	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
1,1-Dichloroethene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
cis-1,2-Dichloroethene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
trans-1,2-Dichloroethene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5

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APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result ER-24 01-04946-1	Field Blank 01-04946-2	MW-24-4 01-04946-3	MW-24-3 01-04946-4
1,2-Dichloroethene (Total)	524.2	μg/L	0.5	<0.5	<0.5	-	<0.5
1,2-Dichloropropane	524.2	μg/L	0.5	<0.5	<0.5	-	<0.5
1,3-Dichloropropane	524.2	μg/L	0.5	<0.5	<0.5	-	<0.5
2,2-Dichloropropane	524.2	μg/L	0.5	<0.5	<0.5	-	<0.5
1,1-Dichloropropene	524.2	μg/L	0.5	<0.5	<0.5	-	<0.5
cis-1,3-Dichloropropene	524.2	μg/L	0.5	<0.5	<0.5	-	<0.5
trans-1,3-Dichloropropene	524.2	μg/L	0.5	<0.5	<0.5	-	<0.5
Ethylbenzene	524.2	μg/L	0.5	<0.5	<0.5	-	<0.5
Hexachlorobutadiene	524.2	μg/L	0.5	<0.5	<0.5	-	<0.5
Isopropylbenzene (Cumene)	524.2	μg/L	0.5	<0.5	<0.5	-	<0.5
p-Isopropyltoluene	524.2	μg/L	0.5	<0.5	<0.5	-	<0.5
Methylene chloride	524.2	μg/L	1	<1	<1	-	<1
Methyl-t-Butyl ether (MTBE)	524.2	μg/L	1	<1	<1	-	<1
Naphthalene	524.2	μg/L	0.5	<0.5	<0.5	-	<0.5
n-Propylbenzene	524.2	μg/L	0.5	<0.5	<0.5	-	<0.5
Styrene	524.2	μg/L	0.5	<0.5	<0.5	-	<0.5
1,1,1,2-Tetrachloroethane	524.2	μg/L	0.5	<0.5	<0.5	-	<0.5
1,1,2,2-Tetrachloroethane	524.2	μg/L	0.5	<0.5	<0.5	-	<0.5
Tetrachloroethene	524.2	μg/L	0.5	<0.5	<0.5	-	<0.5
Toluene	524.2	μg/L	0.5	<0.5	<0.5	-	<0.5
1,2,3-Trichlorobenzene	524.2	μg/L	0.5	<0.5	<0.5	-	<0.5
1,2,4-Trichlorobenzene	524.2	μg/L	0.5	<0.5	<0.5	-	<0.5
1,1,1-Trichloroethane	524.2	μg/L	0.5	<0.5	<0.5	-	<0.5
1,1,2-Trichloroethane	524.2	μg/L	0.5	<0.5	<0.5	-	<0.5
Trichloroethene	524.2	μg/L	0.5	<0.5	<0.5	-	<0.5
Trichlorofluoromethane	524.2	μg/L	0.5	<0.5	<0.5	-	<0.5
1,2,3-Trichloropropane	524.2	μg/L	0.5	<0.5	<0.5	-	<0.5
1,1,2-Trichlorotrifluoroethane	524.2	μg/L	1	<1	<1	-	<1
1,2,4-Trimethylbenzene	524.2	μg/L	0.5	<0.5	<0.5	-	<0.5
1,3,5-Trimethylbenzene	524.2	μg/L	0.5	<0.5	<0.5	-	<0.5
Vinyl chloride	524.2	μg/L	0.5	<0.5	<0.5	-	<0.5
o-Xylene	524.2	μg/L	0.5	<0.5	<0.5	-	<0.5
m/p-Xylene	524.2	μg/L	0.5	<0.5	<0.5	-	<0.5

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APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result MW-24-3D 01-04946-5	MW-24-2 01-04946-6	MW-24-1 01-04946-7	Trip Blank 01-04946-8
Chromium (VI)	7196	mg/L	0.01	<0.01	<0.01	<0.01	-
Dilution Factor				1	10	10	1
Perchlorate	E314	µg/L	4	<4	420	440	-
Volatile Organic Compounds							
Dilution Factor				1	1	1	1
Benzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Bromobenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Bromochloromethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Bromodichloromethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Bromoform	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Bromomethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
n-Butylbenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
sec-Butylbenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
tert-Butylbenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Carbon tetrachloride	524.2	µg/L	0.5	<0.5	15.2	6.5	<0.5
Chlorobenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Chlorodibromomethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Chloroethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Chloroform	524.2	µg/L	0.5	<0.5	6.4	2.5	<0.5
Chloromethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
2-Chlorotoluene	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
4-Chlorotoluene	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dibromo-3-chloropropane (DB	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dibromoethane (EDB)	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Dibromomethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichlorobenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,3-Dichlorobenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,4-Dichlorobenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Dichlorodifluoromethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethane	524.2	µg/L	0.5	<0.5	0.4J	<0.5	<0.5
1,1-Dichloroethene	524.2	µg/L	0.5	<0.5	0.8	<0.5	<0.5
cis-1,2-Dichloroethene	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-Dichloroethene	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethene (Total)	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloropropane	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,3-Dichloropropane	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
2,2-Dichloropropane	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloropropene	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
cis-1,3-Dichloropropene	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
trans-1,3-Dichloropropene	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5

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APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result MW-24-3D 01-04946-5	MW-24-2 01-04946-6	MW-24-1 01-04946-7	Trip Blank 01-04946-8
Ethylbenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobutadiene	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Isopropylbenzene (Cumene)	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
p-Isopropyltoluene	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Methylene chloride	524.2	µg/L	1	<1	<1	<1	<1
Methyl-t-Butyl ether (MTBE)	524.2	µg/L	1	<1	<1	<1	<1
Naphthalene	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
n-Propylbenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Styrene	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1,1,2-Tetrachloroethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene	524.2	µg/L	0.5	<0.5	0.5	0.3J	<0.5
Toluene	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2,3-Trichlorobenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-Trichlorobenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethene	524.2	µg/L	0.5	<0.5	2.4	2.9	<0.5
Trichlorofluoromethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2,3-Trichloropropane	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichlorotrifluoroethane	524.2	µg/L	1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,3,5-Trimethylbenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Vinyl chloride	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
o-Xylene	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
m/p-Xylene	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit

N.D.: Not Detected or less than the practical quantitation limit. "-": Analysis is not required.

J: Reported between PQL and MDL.

Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

Respectfully submitted,

Dominic Lau
Laboratory Director
Applied P & Ch Laboratory

APCL

Applied P & Ch Laboratory

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Chain of Custody

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Client: SOTA ENVIRONMENTAL TECH. Contact: PAUL JEFFERS Tel #: 858-485-8100 Fax #: 858-485-0812

Address: 16835 W. BERNARDO DR. #212 City: SAN DIEGO State: CA Zip code: 92127

Bill to: SOTA

Project Name/Code JPL Job #00HW019 P.O. #

Project Address PASADENA, CA APCL Quotation #

Due Date: ☐regular ☐rush: ___ days ___ hours Sampled by: MES/JNT

Field Sample ID No.	Sample Description	Date Collected	Time Collected	Sample Matrix	Preservation	# of Containers	VOCs (5242)	PERCHLORATE (314)	TOTAL Cr (200.8)	Cr VI (7196)	MS/MSD								Remarks
	TRIP BLANK	7/26/01	1120	H_2O	HCl	2	X												
	ER-24	7/26/01	1125	H_2O	PER LAB	5	X	X	X	X									
	MW-24-4	7/26/01	1150	H_2O	PER LAB	2			X	X									
	MW-24-3	7/26/01	1220	H_2O	PER LAB	5	X	X	X	X									
	MW-24-3D	7/26/01	1220	H_2O	PER LAB	5	X	X	X	X									
	MW-24-2	7/26/01	1305	H_2O	PER LAB	10	X	X	X	X	X								
	MW-24-1	7/26/01	1357	H_2O	PER LAB	5	X	X	X	X									
	FIELD BLANK	7/26/01	1225	H_2O	PER LAB	5	X	X	X	X									

Analysis Items

White – With report
Yellow – Lab copy
Pink – Originator

EPA LEVEL IV (D)
QA/QC

4946

QC Requirement: ☐Regular; ☐QA/QC Report; ☐WIP; ☐Raw Data; ☐Extended Raw Data ☐CLP; ☐ACE ☐AFCEE ☐NEESA ___(E, C or D); ☐Other _____ (Please specify)

Sample Disposal: ☐Return ☐Disposal by APCL ☐Hold for _____ days after receiving date. **If not specified, samples will be discarded 45 days after samples are received.**

Sample Conditions: ☐Intact; ☐Broken. Cooler Seal: ☐Intact; ☐Broken; ☐ None . Tag # _____ Temperature: ☐ Room ☐Cold (_____ °C).

Relinquished by [signature] Date/Time 7/26/01 1600 Received by [signature] Date/Time 7/26/01 1600

Relinquished by Date/Time / Received by Date/Time /

APCL USE ONLY Service # Note:

Clients understand that all terms described in the proposals, quotations for this project, and/or the general terms provided in the current APCL price schedules will be followed. APCL reserves the right to terminate its service or withhold delivery of any reports, if in APCL's sole discretion the terms of the project have been broken.

Applied P & Ch Laboratory
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Tel: (909) 590-1828 Fax: (909) 590-1498

APCL Analytical Report

Submitted to:
SOTA Environmental
Attention: Yu Zeng
16835 W. Bernardo Dr, Ste. 212
San Diego CA 92127
Tel: (858)485-8100 Fax: (858)485-0812

Service ID #: 801-014919
Collected by: MES/JNT
Collected on: 07/25/01

Received: 07/25/01
Extracted: N/A
Tested: 07/26-31/01
Reported: 08/06/01

Sample Description: Water from Pasadena, CA
Project Description: Job#00HW019 JPL

Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result ER-12 01-04919-1	MW-12-1 01-04919-2	MW-12-5 01-04919-3
Perchlorate	E314	μg/L	4	<4	<4	<4
Volatile Organic Compounds						
Dilution Factor				1	1	1
Carbon tetrachloride	524.2	μg/L	0.5	<0.5	<0.5	1.4
Chloroform	524.2	μg/L	0.5	<0.5	<0.5	0.4J
1,1-Dichloroethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5
1,2-Dichloroethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5
1,1-Dichloroethene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
Tetrachloroethene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
Trichloroethene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
1,1,2-Trichlorotrifluoroethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5

Component Analyzed	Method	Unit	PQL	Analysis Result MW-12-4 01-04919-4	MW-12-3 01-04919-5	MW-12-2 01-04919-6	Trip Blank 01-04919-7
Perchlorate	E314	μg/L	4	<4	<4	<4	-
Volatile Organic Compounds							
Dilution Factor				1	1	1	1
Carbon tetrachloride	524.2	μg/L	0.5	3.5	10.6	<0.5	<0.5
Chloroform	524.2	μg/L	0.5	1	1.5	<0.5	<0.5
1,1-Dichloroethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethene	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
Methylene chloride	524.2	μg/L	1	-	-	-	2
Tetrachloroethene	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethene	524.2	μg/L	0.5	0.4J	<0.5	<0.5	<0.5
1,1,2-Trichlorotrifluoroethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5

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APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result ER-12 01-04919-1	MW-12-1 01-04919-2	MW-12-3 01-04919-5	MW-12-2 01-04919-6
Chromium (VI)	7196	mg/L	0.01	<0.01	<0.01	<0.01	<0.01

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit

N.D.: Not Detected or less than the practical quantitation limit. "-": Analysis is not required.

J: Reported between PQL and MDL.

Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

Respectfully submitted,

Dominic Lau
Laboratory Director
Applied P & Ch Laboratory

Applied P & Ch Laboratory

APCL

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Chain of Custody

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Page 1 of 1

Client: SOTA ENVIRONMENTAL TECH. Contact: PAUL JEFFERS Tel #: 858-485-8100 Fax #: 858-485-0812

Address: 16835 W. BERNARDO DR. #212 City: SAN DIEGO State: CA Zip code: 92127

Bill to: SOTA

Project Name/Code JPL Job #00HW019 P.O. #

Project Address PASADENA, CA APCL Quotation #

Due Date: ☐regular ☐rush: ___ days ___ hours Sampled by: MES/JNT

White – With report
Yellow – Lab copy
Pink – Originator

Field Sample ID No.	Sample Description	Date Collected	Time Collected	Sample Matrix	Preservation	# of Containers	VOCs (524.2)	PERCH-DRATE (314)	TOTAL Cr (200.8)	Cr VI (7196)	Remarks
	TRIP BLANK	7/25/01	1100	H_2O	HCl	2	X				
	ER-12	7/25/01	1100	H_2O	PER LAB	5	X	X	X	X	EPA LEVEL IV (5) QA/QC
	MW-12-5	7/25/01	1123	H_2O	PER LAB	4	X	X			
	MW-12-4	7/25/01	1151	H_2O	PER LAB	4	X	X			
	MW-12-3	7/25/01	1216	H_2O	PER LAB	5	X	X	X	X	
	MW-12-2	7/25/01	1245	H_2O	PER LAB	5	X	X	X	X	
	MW-12-1	7/25/01	1318	H_2O	PER LAB	5	X	X	X	X	

4919

QC Requirement: ☐Regular; ☐QA/QC Report; ☐WIP; ☐Raw Data; ☐Extended Raw Data ☐CLP; ☐ACE ☐AFCEE ☐NEESA ___ (E, C or D); ☐Other _____ (Please specify)

Sample Disposal: ☐Return ☐Disposal by APCL ☐Hold for _____ days after receiving date. **If not specified, samples will be discarded 45 days after samples are received.**

Sample Conditions: ☐Intact; ☐Broken. Cooler Seal: ☐Intact; ☐Broken; ☐ None . Tag # _____ Temperature: ☐ Room ☐Cold (_____ °C).

Relinquished by [signature] Date/Time 7/25/01 / 1800 Received by [signature] Date/Time 7-25-01 / 1800

Relinquished by Date/Time / Received by Date/Time /

APCL USE ONLY Service # Note:

Clients understand that all terms described in the proposals, quotations for this project, and/or the general terms provided in the current APCL price schedules will be followed. APCL reserves the right to terminate its service or withhold delivery of any reports, if in APCL's sole discretion the terms of the project have been broken.

Applied P & Ch Laboratory
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Tel: (909) 590-1828 Fax: (909) 590-1498

APCL Analytical Report

Submitted to:
SOTA Environmental
Attention: Yu Zeng
16835 W. Bernardo Dr, Ste. 212
San Diego CA 92127
Tel: (858)485-8100 Fax: (858)485-0812

Service ID #: 801-014824
Collected by: MES/JNT
Collected on: 07/20/01

Received: 07/20/01
Extracted: N/A
Tested: 07/20-26/01
Reported: 08/01/01

Sample Description: Water from Pasadena, CA
Project Description: Job#00HW019 JPL

Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result ER-11 01-04824-1	MW-11-1 01-04824-2	MW-11-4 01-04824-3
Perchlorate	E314	μg/L	4	<4	<4	<4
Volatile Organic Compounds						
Dilution Factor				1	1	1
Benzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
Bromobenzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
Bromochloromethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5
Bromodichloromethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5
Bromoform	524.2	μg/L	0.5	<0.5	<0.5	<0.5
Bromomethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5
n-Butylbenzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
sec-Butylbenzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
tert-Butylbenzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
Carbon tetrachloride	524.2	μg/L	0.5	<0.5	<0.5	<0.5
Chlorobenzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
Chlorodibromomethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5
Chloroethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5
Chloroform	524.2	μg/L	0.5	<0.5	<0.5	0.6
Chloromethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5
2-Chlorotoluene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
4-Chlorotoluene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
1,2-Dibromo-3-chloropropane (DB	524.2	μg/L	0.5	<0.5	<0.5	<0.5
1,2-Dibromoethane (EDB)	524.2	μg/L	0.5	<0.5	<0.5	<0.5
Dibromomethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5
1,2-Dichlorobenzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
1,3-Dichlorobenzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
1,4-Dichlorobenzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
Dichlorodifluoromethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5
1,2-Dichloroethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5
1,1-Dichloroethene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
cis-1,2-Dichloroethene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
trans-1,2-Dichloroethene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
1,2-Dichloroethene (Total)	524.2	μg/L	0.5	<0.5	<0.5	<0.5

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APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result ER-11 01-04824-1	MW-11-1 01-04824-2	MW-11-4 01-04824-3
1,2-Dichloropropane	524.2	μg/L	0.5	<0.5	<0.5	<0.5
1,3-Dichloropropane	524.2	μg/L	0.5	<0.5	<0.5	<0.5
2,2-Dichloropropane	524.2	μg/L	0.5	<0.5	<0.5	<0.5
1,1-Dichloropropene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
cis-1,3-Dichloropropene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
trans-1,3-Dichloropropene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
Ethylbenzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
Hexachlorobutadiene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
Isopropylbenzene (Cumene)	524.2	μg/L	0.5	<0.5	<0.5	<0.5
p-Isopropyltoluene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
Methylene chloride	524.2	μg/L	1	<1	<1	<1
Methyl-t-Butyl ether (MTBE)	524.2	μg/L	1	<1	<1	<1
Naphthalene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
n-Propylbenzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
Styrene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
1,1,1,2-Tetrachloroethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5
Tetrachloroethene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
Toluene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
1,2,3-Trichlorobenzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
1,2,4-Trichlorobenzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5
Trichloroethene	524.2	μg/L	0.5	<0.5	1.2	<0.5
Trichlorofluoromethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5
1,2,3-Trichloropropane	524.2	μg/L	0.5	<0.5	<0.5	<0.5
1,1,2-Trichlorotrifluoroethane	524.2	μg/L	1	<1	<1	<1
1,2,4-Trimethylbenzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
1,3,5-Trimethylbenzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
Vinyl chloride	524.2	μg/L	0.5	<0.5	<0.5	<0.5
o-Xylene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
m/p-Xylene	524.2	μg/L	0.5	<0.5	<0.5	<0.5

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Component Analyzed	Method	Unit	PQL	Analysis Result MW-11-3 01-04824-4	MW-11-2 01-04824-5	Trip Blank 01-04824-6
Perchlorate	E314	µg/L	4	<4	<4	-
Volatile Organic Compounds						
Dilution Factor				1	1	1
Benzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
Bromobenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
Bromochloromethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5
Bromodichloromethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5
Bromoform	524.2	µg/L	0.5	<0.5	<0.5	<0.5
Bromomethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5
n-Butylbenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
sec-Butylbenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
tert-Butylbenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
Carbon tetrachloride	524.2	µg/L	0.5	0.4J	0.7	<0.5
Chlorobenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
Chlorodibromomethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5
Chloroethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5
Chloroform	524.2	µg/L	0.5	0.5	0.5	<0.5
Chloromethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5
2-Chlorotoluene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
4-Chlorotoluene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,2-Dibromo-3-chloropropane (DB	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,2-Dibromoethane (EDB)	524.2	µg/L	0.5	<0.5	<0.5	<0.5
Dibromomethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,2-Dichlorobenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,3-Dichlorobenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,4-Dichlorobenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
Dichlorodifluoromethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,2-Dichloroethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,1-Dichloroethene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
cis-1,2-Dichloroethene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
trans-1,2-Dichloroethene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,2-Dichloroethene (Total)	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,2-Dichloropropane	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,3-Dichloropropane	524.2	µg/L	0.5	<0.5	<0.5	<0.5
2,2-Dichloropropane	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,1-Dichloropropene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
cis-1,3-Dichloropropene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
trans-1,3-Dichloropropene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
Ethylbenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
Hexachlorobutadiene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
Isopropylbenzene (Cumene)	524.2	µg/L	0.5	<0.5	<0.5	<0.5

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APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result MW-11-3 01-04824-4	MW-11-2 01-04824-5	Trip Blank 01-04824-6
p-Isopropyltoluene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
Methylene chloride	524.2	μg/L	1	<1	<1	2.1
Methyl-t-Butyl ether (MTBE)	524.2	μg/L	1	<1	<1	<1
Naphthalene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
n-Propylbenzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
Styrene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
1,1,1,2-Tetrachloroethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5
Tetrachloroethene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
Toluene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
1,2,3-Trichlorobenzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
1,2,4-Trichlorobenzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5
Trichloroethene	524.2	μg/L	0.5	<0.5	0.4J	<0.5
Trichlorofluoromethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5
1,2,3-Trichloropropane	524.2	μg/L	0.5	<0.5	<0.5	<0.5
1,1,2-Trichlorotrifluoroethane	524.2	μg/L	1	<1	<1	<1
1,2,4-Trimethylbenzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
1,3,5-Trimethylbenzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
Vinyl chloride	524.2	μg/L	0.5	<0.5	<0.5	<0.5
o-Xylene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
m/p-Xylene	524.2	μg/L	0.5	<0.5	<0.5	<0.5

Component Analyzed	Method	Unit	PQL	Analysis Result ER-11 01-04824-1	MW-11-1 01-04824-2	MW-11-3 01-04824-4	MW-11-2 01-04824-5
Chromium (VI)	7196	mg/L	0.01	<0.01	<0.01	<0.01	<0.01

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit
N.D.: Not Detected or less than the practical quantitation limit. "-": Analysis is not required.
J: Reported between PQL and MDL.
Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

Respectfully submitted,

Dominic Lau
Laboratory Director
Applied P & Ch Laboratory

Applied P & Ch Laboratory

APCL

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Chain of Custody

Please Print in pen

Page 1 of 1

Client: SOTA ENVIRONMENTAL TECH. Contact: PAUL JEFFERS Tel #: 858-485-8100 Fax #: 858-485-0812

Address: 16835 W. BERNARDO DR. #212 City: SAN DIEGO State: CA Zip code: 92127

Bill to: SOTA

Project Name/Code JPL Job #00HW019 P.O. #

Project Address PASADENA, CA APCL Quotation #

Due Date: ☐regular ☐rush: ___ days ___ hours Sampled by: MES/JNT

Field Sample ID No.	Sample Description	Date Collected	Time Collected	Sample Matrix	Preservation	# of Containers	VOCs (524.2)	PERCHLORATE (314)	TOTAL Cr (200.8)	Cr VI (7196)											Remarks
	TRIP BLANK	7/20/01	930	H_2O	HCl	2	X														
	ER-11	7/20/01	1010	H_2O	PER LAB	5	X	X	X	X											
	MW-11-4	7/20/01	1003	H_2O	PER LAB	4	X	X													
	MW-11-3	7/20/01	1053	H_2O	PER LAB	5	X	X	X	X											
	MW-11-2	7/20/01	1116	H_2O	PER LAB	5	X	X	X	X											
	MW-11-1	7/20/01	1142	H_2O	PER LAB	5	X	X	X	X											

4824

White – With report
Yellow – Lab copy
Pink – Originator

EPA LEVEL II (B) QA/QC

QC Requirement: ☐Regular; ☐QA/QC Report; ☐WIP; ☐Raw Data; ☐Extended Raw Data ☐CLP; ☐ACE ☐AFCEE ☐NEESA ___(E, C or D); ☐Other _____(Please specify)

Sample Disposal: ☐Return ☐Disposal by APCL ☐Hold for _____ days after receiving date. **If not specified, samples will be discarded 45 days after samples are received.**

Sample Conditions: ☐Intact; ☐Broken. Cooler Seal: ☐Intact; ☐Broken; ☐ None . Tag # _____ Temperature: ☐ Room ☐Cold (_____ °C).

Relinquished by [signature] Date/Time 7/20/01 / 1320 Received by [signature] Date/Time 7/20/01 / 1320

Relinquished by Date/Time / Received by Date/Time /

APCL USE ONLY Service # Note:

Clients understand that all terms described in the proposals, quotations for this project, and/or the general terms provided in the current APCL price schedules will be followed. APCL reserves the right to terminate its service or withhold delivery of any reports, if in APCL's sole discretion the terms of the project have been broken.

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APCL Analytical Report

Submitted to:
SOTA Environmental
Attention: Yu Zeng
16835 W. Bernardo Dr, Ste. 212
San Diego CA 92127
Tel: (858)485-8100 Fax: (858)485-0812

Service ID #: 801-014794
Collected by: MES/JNT
Collected on: 07/19/01

Received: 07/19/01
Extracted: N/A
Tested: 07/20-23/01
Reported: 07/25/01

Sample Description: Water from Pasadena, CA
Project Description: Job#00HW019 JPL

Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result ER-22 01-04794-1	MW-8 01-04794-2	MW-22-1 01-04794-3
Perchlorate	E314	μg/L	4	<4	13	<4
Volatile Organic Compounds						
Dilution Factor				1	1	1
Benzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
Bromobenzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
Bromochloromethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5
Bromodichloromethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5
Bromoform	524.2	μg/L	0.5	<0.5	<0.5	<0.5
Bromomethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5
n-Butylbenzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
sec-Butylbenzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
tert-Butylbenzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
Carbon tetrachloride	524.2	μg/L	0.5	<0.5	<0.5	<0.5
Chlorobenzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
Chlorodibromomethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5
Chloroethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5
Chloroform	524.2	μg/L	0.5	<0.5	<0.5	0.3J
Chloromethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5
2-Chlorotoluene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
4-Chlorotoluene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
1,2-Dibromo-3-chloropropane (DB	524.2	μg/L	0.5	<0.5	<0.5	<0.5
1,2-Dibromoethane (EDB)	524.2	μg/L	0.5	<0.5	<0.5	<0.5
Dibromomethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5
1,2-Dichlorobenzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
1,3-Dichlorobenzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
1,4-Dichlorobenzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
Dichlorodifluoromethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	524.2	μg/L	0.5	<0.5	<0.5	0.3J
1,2-Dichloroethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5
1,1-Dichloroethene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
cis-1,2-Dichloroethene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
trans-1,2-Dichloroethene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
1,2-Dichloroethene (Total)	524.2	μg/L	0.5	<0.5	<0.5	<0.5

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APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result ER-22 01-04794-1	MW-8 01-04794-2	MW-22-1 01-04794-3
1,2-Dichloropropane	524.2	μg/L	0.5	<0.5	<0.5	<0.5
1,3-Dichloropropane	524.2	μg/L	0.5	<0.5	<0.5	<0.5
2,2-Dichloropropane	524.2	μg/L	0.5	<0.5	<0.5	<0.5
1,1-Dichloropropene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
cis-1,3-Dichloropropene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
trans-1,3-Dichloropropene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
Ethylbenzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
Hexachlorobutadiene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
Isopropylbenzene (Cumene)	524.2	μg/L	0.5	<0.5	<0.5	<0.5
p-Isopropyltoluene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
Methylene chloride	524.2	μg/L	1	<1	<1	<1
Methyl-t-Butyl ether (MTBE)	524.2	μg/L	1	<1	<1	<1
Naphthalene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
n-Propylbenzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
Styrene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
1,1,1,2-Tetrachloroethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5
Tetrachloroethene	524.2	μg/L	0.5	<0.5	<0.5	1.9
Toluene	524.2	μg/L	0.5	0.5	<0.5	<0.5
1,2,3-Trichlorobenzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
1,2,4-Trichlorobenzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5
Trichloroethene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
Trichlorofluoromethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5
1,2,3-Trichloropropane	524.2	μg/L	0.5	<0.5	<0.5	<0.5
1,2,4-Trimethylbenzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
1,3,5-Trimethylbenzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
Vinyl chloride	524.2	μg/L	0.5	<0.5	<0.5	<0.5
o-Xylene	524.2	μg/L	0.5	<0.5	<0.5	<0.5
m/p-Xylene	524.2	μg/L	0.5	<0.5	<0.5	<0.5

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APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result MW-22-2 01-04794-4	MW-22-3 01-04794-5	MW-22-4 01-04794-6	Trip Blank 01-04794-7
Perchlorate	E314	µg/L	4	<4	<4	<4	-
Volatile Organic Compounds							
Dilution Factor				1	1	1	1
Benzene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Bromobenzene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Bromochloromethane	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Bromodichloromethane	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Bromoform	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Bromomethane	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
n-Butylbenzene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
sec-Butylbenzene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
tert-Butylbenzene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Carbon tetrachloride	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Chlorobenzene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Chlorodibromomethane	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Chloroethane	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Chloroform	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Chloromethane	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
2-Chlorotoluene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
4-Chlorotoluene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
1,2-Dibromo-3-chloropropane (DB	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
1,2-Dibromoethane (EDB)	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Dibromomethane	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
1,2-Dichlorobenzene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
1,3-Dichlorobenzene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
1,4-Dichlorobenzene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Dichlorodifluoromethane	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
1,1-Dichloroethane	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
1,2-Dichloroethane	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
1,1-Dichloroethene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
cis-1,2-Dichloroethene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
trans-1,2-Dichloroethene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
1,2-Dichloroethene (Total)	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
1,2-Dichloropropane	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
1,3-Dichloropropane	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
2,2-Dichloropropane	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
1,1-Dichloropropene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
cis-1,3-Dichloropropene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
trans-1,3-Dichloropropene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Ethylbenzene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Hexachlorobutadiene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5

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APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result MW-22-2 01-04794-4	MW-22-3 01-04794-5	MW-22-4 01-04794-6	Trip Blank 01-04794-7
Isopropylbenzene (Cumene)	524.2	μg/L	0.5	<0.5	<0.5	-	<0.5
p-Isopropyltoluene	524.2	μg/L	0.5	<0.5	<0.5	-	<0.5
Methylene chloride	524.2	μg/L	1	<1	<1	-	<1
Methyl-t-Butyl ether (MTBE)	524.2	μg/L	1	<1	<1	-	<1
Naphthalene	524.2	μg/L	0.5	<0.5	<0.5	-	<0.5
n-Propylbenzene	524.2	μg/L	0.5	<0.5	<0.5	-	<0.5
Styrene	524.2	μg/L	0.5	<0.5	<0.5	-	<0.5
1,1,1,2-Tetrachloroethane	524.2	μg/L	0.5	<0.5	<0.5	-	<0.5
1,1,2,2-Tetrachloroethane	524.2	μg/L	0.5	<0.5	<0.5	-	<0.5
Tetrachloroethene	524.2	μg/L	0.5	<0.5	<0.5	-	<0.5
Toluene	524.2	μg/L	0.5	<0.5	<0.5	-	<0.5
1,2,3-Trichlorobenzene	524.2	μg/L	0.5	<0.5	<0.5	-	<0.5
1,2,4-Trichlorobenzene	524.2	μg/L	0.5	<0.5	<0.5	-	<0.5
1,1,1-Trichloroethane	524.2	μg/L	0.5	<0.5	<0.5	-	<0.5
1,1,2-Trichloroethane	524.2	μg/L	0.5	<0.5	<0.5	-	<0.5
Trichloroethene	524.2	μg/L	0.5	0.3J	<0.5	-	<0.5
Trichlorofluoromethane	524.2	μg/L	0.5	<0.5	<0.5	-	<0.5
1,2,3-Trichloropropane	524.2	μg/L	0.5	<0.5	<0.5	-	<0.5
1,2,4-Trimethylbenzene	524.2	μg/L	0.5	<0.5	<0.5	-	<0.5
1,3,5-Trimethylbenzene	524.2	μg/L	0.5	<0.5	<0.5	-	<0.5
Vinyl chloride	524.2	μg/L	0.5	<0.5	<0.5	-	<0.5
o-Xylene	524.2	μg/L	0.5	<0.5	<0.5	-	<0.5
m/p-Xylene	524.2	μg/L	0.5	<0.5	<0.5	-	<0.5

Component Analyzed	Method	Unit	PQL	Analysis Result ER-22 01-04794-1	MW-8 01-04794-2	MW-22-1 01-04794-3	MW-22-2 01-04794-4
Chromium (VI)	7196	mg/L	0.01	<0.01	<0.01	<0.01	<0.01

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit
N.D.: Not Detected or less than the practical quantitation limit. "-": Analysis is not required.
J: Reported between PQL and MDL.
Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

Respectfully submitted,

Dominic Lau
Laboratory Director
Applied P & Ch Laboratory

APCL

Applied P & Ch Laboratory

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Chain of Custody

Please Print in pen Page 1 of 1

Client: SOTA ENVIRONMENTAL TECH. Contact: PAUL JEFFERS Tel #: 858-485-8100 Fax #: 858-485-0812

Address: 16835 W. BERNARDO DR. #212 City: SAN DIEGO State: CA Zip code: 92127

Bill to: SOTA

Project Name/Code JPL Job # 00HW019 P.O. #

Project Address PASADENA, CA APCL Quotation #

Due Date: ☐regular ☐rush: ___ days ___ hours Sampled by: MES/JNT

Analysis Items

Field Sample ID No.	Sample Description	Date Collected	Time Collected	Sample Matrix	Preservation	# of Containers	VOCs (524.2)	PERCHLORATE (314)	TOTAL Cr (200.8)	Cr VI (7196)	MS/MSD	Remarks
	MW-22-4	7/19/01	1018	H_2O	PER LAB	1		X				
	MW-22-3	7/19/01	1044	H_2O	PER LAB	4	X	X				
	MW-22-2	7/19/01	1115	H_2O	PER LAB	5	X	X	X	X		
	MW-22-1	7/19/01	1200	H_2O	PER LAB	5	X	X	X	X		
	TRIP BLANK	7/19/01	1000	H_2O	~~PER~~ 7/19/01 HCl	2	X					
	ER-22	7/19/01	1030	H_2O	PER LAB	5	X	X	X	X		
	MW-8	7/19/01	1340	H_2O	PER LAB	10	X	X	X	X	X	

4794

White – With report
Yellow – Lab copy
Pink – Originator

EPA LEVEL IV (D) QA/QC

QC Requirement: ☐Regular; ☐QA/QC Report; ☐WIP; ☐Raw Data; ☐Extended Raw Data ☐CLP; ☐ACE ☐AFCEE ☐NEESA ___(E, C or D); ☐Other _____(Please specify)

Sample Disposal: ☐Return ☐Disposal by APCL ☐Hold for _____ days after receiving date. **If not specified, samples will be discarded 45 days after samples are received.**

Sample Conditions: ☐Intact; ☐Broken. Cooler Seal: ☐Intact; ☐Broken; ☐ None . Tag # _____ Temperature: ☐ Room ☐Cold (_____ °C).

Relinquished by [signature] Date/Time 7/19/01 / 1535 Received by [signature] Date/Time 7/19/01 / 1535

Relinquished by Date/Time / Received by Date/Time /

APCL USE ONLY Service # Note:

Clients understand that all terms described in the proposals, quotations for this project, and/or the general terms provided in the current APCL price schedules will be followed. APCL reserves the right to terminate its service or withhold delivery of any reports, if in APCL's sole discretion the terms of the project have been broken.

Applied P & Ch Laboratory
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APCL Analytical Report

Submitted to:
SOTA Environmental
Attention: Yu Zeng
16835 W. Bernardo Dr, Ste. 212
San Diego CA 92127
Tel: (858)485-8100 Fax: (858)485-0812

Service ID #: 801-014770
Collected by: MES/JNT
Collected on: 07/18/01

Received: 07/18/01
Extracted: N/A
Tested: 07/20/01
Reported: 07/24/01

Sample Description: Water
Project Description: Job#00HW019 JPL

Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result ER-19 01-04770-1	MW-19-5 01-04770-2	MW-19-4 01-04770-3	MW-19-1 01-04770-4
Perchlorate	314	μg/L	4	<4	<4	<4	<4
Volatile Organic Compounds							
Dilution Factor				1	1	1	1
Benzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
Bromobenzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
Bromochloromethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
Bromodichloromethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
Bromoform	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
Bromomethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
n-Butylbenzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
sec-Butylbenzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
tert-Butylbenzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
Carbon tetrachloride	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
Chlorodibromomethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
Chloroethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
Chloroform	524.2	μg/L	0.5	0.4J	0.5J	2.4	<0.5
Chloromethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
2-Chlorotoluene	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
4-Chlorotoluene	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dibromo-3-chloropropane (DB	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dibromoethane (EDB)	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
Dibromomethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichlorobenzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,3-Dichlorobenzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,4-Dichlorobenzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
Dichlorodifluoromethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethene	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
cis-1,2-Dichloroethene	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-Dichloroethene	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethene (Total)	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5

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APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result ER-19 01-04770-1	MW-19-5 01-04770-2	MW-19-4 01-04770-3	MW-19-1 01-04770-4
1,2-Dichloropropane	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,3-Dichloropropane	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
2,2-Dichloropropane	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloropropene	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
cis-1,3-Dichloropropene	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
trans-1,3-Dichloropropene	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobutadiene	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
Isopropylbenzene (Cumene)	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
p-Isopropyltoluene	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
Methylene chloride	524.2	μg/L	1	0.9J	<1	<1	<1
Methyl-t-Butyl ether (MTBE)	524.2	μg/L	1	<1	<1	<1	<1
Naphthalene	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
n-Propylbenzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
Styrene	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1,1,2-Tetrachloroethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene	524.2	μg/L	0.5	<0.5	1.1	<0.5	<0.5
Toluene	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2,3-Trichlorobenzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-Trichlorobenzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethene	524.2	μg/L	0.5	<0.5	0.4J	<0.5	<0.5
Trichlorofluoromethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2,3-Trichloropropane	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-Trimethylbenzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,3,5-Trimethylbenzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
Vinyl chloride	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
o-Xylene	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
m/p-Xylene	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5

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APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result MW-19-3 01-04770-5	MW-19-2 01-04770-6	MW-19-2D 01-04770-7	Trip Blank 01-04770-8
Perchlorate	314	µg/L	4	<4	<4	<4	-
Volatile Organic Compounds							
Dilution Factor				1	1	1	1
Benzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Bromobenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Bromochloromethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Bromodichloromethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Bromoform	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Bromomethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
n-Butylbenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
sec-Butylbenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
tert-Butylbenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Carbon tetrachloride	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Chlorodibromomethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Chloroethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Chloroform	524.2	µg/L	0.5	0.5J	0.5J	1.1	<0.5
Chloromethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
2-Chlorotoluene	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
4-Chlorotoluene	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dibromo-3-chloropropane (DB	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dibromoethane (EDB)	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Dibromomethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichlorobenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,3-Dichlorobenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,4-Dichlorobenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Dichlorodifluoromethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethene	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
cis-1,2-Dichloroethene	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-Dichloroethene	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethene (Total)	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloropropane	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,3-Dichloropropane	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
2,2-Dichloropropane	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloropropene	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
cis-1,3-Dichloropropene	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
trans-1,3-Dichloropropene	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobutadiene	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5

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APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result MW-19-3 01-04770-5	MW-19-2 01-04770-6	MW-19-2D 01-04770-7	Trip Blank 01-04770-8
Isopropylbenzene (Cumene)	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
p-Isopropyltoluene	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
Methylene chloride	524.2	μg/L	1	<1	<1	<1	0.8J
Methyl-t-Butyl ether (MTBE)	524.2	μg/L	1	<1	<1	<1	<1
Naphthalene	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
n-Propylbenzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
Styrene	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1,1,2-Tetrachloroethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene	524.2	μg/L	0.5	1.8	0.5J	0.8	<0.5
Toluene	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2,3-Trichlorobenzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-Trichlorobenzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethene	524.2	μg/L	0.5	0.9	1.2	1.6	<0.5
Trichlorofluoromethane	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2,3-Trichloropropane	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-Trimethylbenzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,3,5-Trimethylbenzene	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
Vinyl chloride	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
o-Xylene	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
m/p-Xylene	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit

N.D.: Not Detected or less than the practical quantitation limit. "-": Analysis is not required.

J: Reported between PQL and MDL.

Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

Respectfully submitted,

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