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CLIENT: **ARCADIS**

PROJECT: **OMEGA CHEMICAL**

SDG: **06G064**

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** - Not Requested

EMAX
LABORATORIES, INC.
1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax:(310) 618-0818

Date: 08-08-2006
EMAX Batch No.: 06G064

Attn: Ron Halpern

Arcadis
1400 North Harbor Blvd, Ste 700
Fullerton CA 92835

Subject: Laboratory Report
Project: Omega Chemical

Enclosed is the Laboratory report for samples received on 07/12/06.
The data reported include :

Sample ID	Control #	Col Date	Matrix	Analysis
OC2-PMW17A-0-37	G064-01	07/11/06	WATER	VOLATILE ORGANICS BY GC/MS
				1,2,3-TRICHLOROPROPANE SIM
				ANIONS BY IC
				CHROMIUM HEXAVALENT BY IC
				PERCHLORATE BY IC
				SOLIDS TOTAL DISSOLVED
				TOTAL ORGANIC CARBON
				N-NITROSODIMETHYLAMINE BY GCMS
OC2-PMW17B-0-38	G064-02	07/12/06	WATER	VOLATILE ORGANICS BY GC/MS
				1,2,3-TRICHLOROPROPANE SIM
				1,4-DIOXANE BY 8270 SIM
				ANIONS BY IC
				CHROMIUM HEXAVALENT BY IC
				CYANIDE TOTAL
				SILICA, DISSOLVED
				METALS, DISSOLVED BY ICP-MS
				MERCURY DISSOLVED
				PERCHLORATE BY IC
				SEMIVOLATILE ORGANICS SIM

Sample ID	Control #	Col Date	Matrix	Analysis
				SOLIDS TOTAL DISSOLVED
				TKN
				TOTAL ORGANIC CARBON
				N-NITROSODIMETHYLAMINE BY GCMS
				SEMIVOLATILE ORGANICS BY GCMS
OC2-PMW17C-0-39	G064-03	07/12/06	WATER	VOLATILE ORGANICS BY GC/MS
				1,2,3-TRICHLOROPROPANE SIM
				1,4-DIOXANE BY 8270 SIM
				ANIONS BY IC
				CHROMIUM HEXAVALENT BY IC
				CYANIDE TOTAL
				SILICA, DISSOLVED
				METALS, DISSOLVED BY ICP-MS
				MERCURY DISSOLVED
				PERCHLORATE BY IC
				SEMIVOLATILE ORGANICS SIM
				SOLIDS TOTAL DISSOLVED
				TKN
				TOTAL ORGANIC CARBON
				N-NITROSODIMETHYLAMINE BY GCMS
				SEMIVOLATILE ORGANICS BY GCMS
OC2-PMW19-0-34	G064-04	07/12/06	WATER	VOLATILE ORGANICS BY GC/MS
				1,2,3-TRICHLOROPROPANE SIM
				ANIONS BY IC
				CHROMIUM HEXAVALENT BY IC
				PERCHLORATE BY IC
				SOLIDS TOTAL DISSOLVED
				TOTAL ORGANIC CARBON
				N-NITROSODIMETHYLAMINE BY GCMS
OC2-PMW21-0-40	G064-05	07/12/06	WATER	VOLATILE ORGANICS BY GC/MS
				1,2,3-TRICHLOROPROPANE SIM
				1,4-DIOXANE BY 8270 SIM
				ANIONS BY IC
				CHROMIUM HEXAVALENT BY IC
				CYANIDE TOTAL
				SILICA, DISSOLVED
				METALS, DISSOLVED BY ICP-MS
				MERCURY DISSOLVED
				PERCHLORATE BY IC
				SEMIVOLATILE ORGANICS SIM
				SOLIDS TOTAL DISSOLVED

Sample ID	Control #	Col Date	Matrix	Analysis
				TKN
				TOTAL ORGANIC CARBON
				N-NITROSODIMETHYLAMINE BY GCMS
				SEMIVOLATILE ORGANICS BY GCMS
OC2-00-W-2-35	G064-06	07/12/06	WATER	VOLATILE ORGANICS BY GC/MS
OC2-00-W-4-36	G064-07	07/12/06	WATER	VOLATILE ORGANICS BY GC/MS

Note : N-Nitrosodimethylamine by GCMS was subcontracted to Maxxam Analytics, Inc.

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Kam Y. Pang, Ph.D.
Laboratory Director

CHAIN OF CUSTODY

06G064 3

EMAX LABORATORIES, INC.
1835 W. 205th Street, Torrance, CA 90501
Tel #: 310-618-8889 Fax #: 310-618-0818
Email: info@emaxlabs.com

PO NUMBER: CA000696.0001
SAMPLE STORAGE: M2 / N4
EMAX CONTROL NO. *
PROJECT CODE: CA000696.0001

CLIENT: ARCADIS
PROJECT: OMEGA CHEMICAL OU2
COORDINATOR: RON HALPERN
TEL: 949.294.1532 FAX: EMAIL:
SEND REPORT TO: RON HALPERN
COMPANY: ARCADIS
ADDRESS: 1400 North Harbor Blvd #700, Fullerton CA 92835
EMAX PM: Richard B

MATRIX CODE	PRESERVATIVE CODE
DW=Drinking Water	IC = Ice
GW=Ground Water	HC = HCl
WW=Waste Water	HN=HNO3
SD=Solid Waste SL=Sludge	SH=NaOH
SS=Soil/ Sediment	ST=Na2S2O3
WP=Wipes PP=Pure Products	ZA=Zinc Acetate
AR=Air	HS=H_2SO_4
O=	

ANALYSIS REQUIRED: VOC 8260B; 1,4,3 TCP 8260 SIM; TOC 415.1; NDMA 1625; Cr+6, Anions, TDS, Perchlorate

TAT: ☐ Rush ____hrs. ☐ Rush ____days ☐ 7 days ☒ 14 days ☒ 21 days ☐ 30 days ☐ ____days ☐

	LAB	SAMPLE ID CLIENT	SAMPLING LOCATION	DATE	TIME	CONTAINER NO.	SIZE	TYPE	MATRIX CODE	QC	HC	HC	HC	HC	IC				COMMENTS
1	1	OC2-PMW17A-0-37		7/12/04	1553	3	40mL	VOA	GW		X								
	2					3						X							
	3					1							X						
	4					2	1L	Amber						X					
	5					1	250	Poly							X				
	6																		
	7																		
	8																		
	9																		
	0																		

Instructions: For Anions, Cr+6, TDS, perchlorate see page 2

Cooler #	Temp. (°C)	Sample #s
1	3.0	
2	3.2	
3	3.5	
4	2.8	

SAMPLER
COURIER/AIRBILL

RELINQUISHED BY	Date	Time	RECEIVED BY
[signature]	7/12/04	17:30	[signature]
[signature]	7/12/04	1849	[signature]

NOTICE: Turn-around-time (TAT) for samples shall not begin untill all discrepancies have been resolved. For samples received and discrepacies resolved after 1500 hrs, TAT shall start at 0800 hrs the next business day. The client is responsible for all cost associted with sample disposal. Samples shall be disposed of as soon as practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is pre-arranged with EMAX. Disposal fee for samples defined by CA Title 22 as non-hazardous shall be $5.00 per sample. EMAX will return hazardous samples to the client at the client's expense unless directed in writing otherwise.

1503

4

CHAIN OF CUSTODY

EMAX LABORATORIES, INC.
1835 W. 205th Street, Torrance, CA 90501
Tel #: 310-618-8889 Fax #: 310-618-0818
Email: info@emaxlabs.com

PO NUMBER CA006646.0001
SAMPLE STORAGE
EMAX CONTROL NO. * 06G064
PROJECT CODE CA006646.0001

CLIENT: ARCADIS
PROJECT: OMEGA CHEMICAL OU2
COORDINATOR: RON HALPERN
TEL: 949 294 1532 FAX: EMAIL:
SEND REPORT TO: RON HALPERN
COMPANY: ARCADIS
ADDRESS: 1400 N. HARBOR BLVD #700, FULLERTON, CA 92835
EMAX PM: Richard B

MATRIX CODE	PRESERVATIVE CODE
DW=Drinking Water	IC = Ice
GW=Ground Water	HC = HCl
WW=Waste Water	HN=HNO3
SD=Solid Waste SL=Sludge	SH=NaOH
SS=Soil/ Sediment	ST=Na2S2O3
WP=Wipes PP=Pure Products	ZA=Zinc Acetate
AR=Air	HS=H_2SO_4
O=	

TAT: ☐ Rush ____hrs. ☐ Rush ____days ☐ 7 days ☒ 14 days ☒ 21 days ☐ 30 days ☐ ____days ☐

LAB	SAMPLE ID CLIENT	SAMPLING LOCATION	DATE	TIME	CONTAINER NO.	SIZE	TYPE	MATRIX CODE	QC	VOC 8260B (HCl)	1,4,3TCP 8260 SIM (HCl)	TOC 4151 (HCl)	SVOC 8270C (Ice)	NDMA 1625 (Ice)	1,4 Dioxane 8270C (Ice)	Dissolved TAL Metals (Ice)	TKN 351.3 (H2SO4)	COMMENTS
1	OC2-PMW17B-0-38		7/12/06	1235	3	40mL	VOA	GW		X								
2					3						X							
3					1							X						
4					2	1 lt	Amber						X					
5					2									X				
6					1										X			
7					1	500	Poly									X		NOT FILTERED
8					1	500											X	
9																		
0																		

Instructions

Dissolved TAL Metals + Boron + Silica by 6010/7000, 200.8, 245.1
Note - Sample not filtered or preserved - Lab to filter + preserve.

Cooler #	Temp. (°C)	Sample #s

SAMPLER

COURIER/AIRBILL

RELINQUISHED BY	Date	Time	RECEIVED BY
[signature]	7/12/06	17:30	[signature]
[signature]	7/12/06	1849	[signature]

NOTICE: Turn-around-time (TAT) for samples shall not begin untill all discrepancies have been resolved. For samples received and discrepacies resolved after 1500 hrs, TAT shall start at 0800 hrs the next business day. The client is responsible for all cost associted with sample disposal. Samples shall be disposed of as soon as practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is pre-arranged with EMAX. Disposal fee for samples defined by CA Title 22 as non-hazardous shall be $5.00 per sample. EMAX will return hazardous samples to the client at the client's expense unless directed in writing otherwise.

5

CHAIN OF CUSTODY

EMAX LABORATORIES, INC.
1835 W. 205th Street, Torrance, CA 90501
Tel #: 310-618-8889 Fax #: 310-618-0818
Email: info@emaxlabs.com

PO NUMBER: CA000646.0001
SAMPLE STORAGE
EMAX CONTROL NO. *
PROJECT CODE: CA000646.0001

CLIENT: ARCADIS
PROJECT: OMEGA CHEMICAL OU2
COORDINATOR: RON HALPERN
TEL: 949 294 1532 FAX: EMAIL:
SEND REPORT TO: RON HALPERN
COMPANY: ARCADIS
ADDRESS: 1400 N. HARBOR BLVD #700, FULLERTON, CA 92835
EMAX PM: Richard B

MATRIX CODE	PRESERVATIVE CODE
DW=Drinking Water	IC = Ice
GW=Ground Water	HC = HCl
WW=Waste Water	HN=HNO3
SD=Solid Waste SL=Sludge	SH=NaOH
SS=Soil/ Sediment	ST=Na2S2O3
WP=Wipes PP=Pure Products	ZA=Zinc Acetate
AR=Air	HS=H_2SO_4
O=	

ANALYSIS REQUIRED: Cr6, Anions, TDS, perchlorate; CYANIDE 335.2

TAT:
- ☐ Rush ____hrs.
- ☐ Rush ____days
- ☐ 7 days
- ☒ 14 days
- ☒ 21 days
- ☐ 30 days
- ☐ ____days
- ☐

	SAMPLE ID LAB	SAMPLE ID CLIENT	SAMPLING LOCATION	SAMPLING DATE	SAMPLING TIME	CONTAINER NO.	CONTAINER SIZE	CONTAINER TYPE	MATRIX CODE	QC	PRESERVATIVE CODE IC	PRESERVATIVE CODE NaOH	COMMENTS
2	1	OC2-PMW17B-0-38		7/12/06	1235	1	250	POLY	GW		X		
	2	↓		↓	↓	1	125	↓	↓			X	
	3												
	4												
	5												
	6												
	7												
	8												
	9												
	0												

Instructions: For Anions, Cr6, TDS, perchlorate see pg 2

Cooler #	Temp. (°C)	Sample #s

SAMPLER

RELINQUISHED BY	Date	Time	RECEIVED BY
[signature]	7/12/06	17:30	[signature]
[signature]	7/12/06	1849	[signature]

COURIER/AIRBILL

NOTICE: Turn-around-time (TAT) for samples shall not begin untill all discrepancies have been resolved. For samples received and discrepacies resolved after 1500 hrs, TAT shall start at 0800 hrs the next business day. The client is responsible for all cost associted with sample disposal. Samples shall be disposed of as soon as practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is pre-arranged with EMAX. Disposal fee for samples defined by CA Title 22 as non-hazardous shall be $5.00 per sample. EMAX will return hazardous samples to the client at the client's expense unless directed in writing otherwise.

1005

6

CHAIN OF CUSTODY

EMAX LABORATORIES, INC.
1835 W. 205th Street, Torrance, CA 90501
Tel #: 310-618-8889 Fax #: 310-618-0818
Email: info@emaxlabs.com

PO NUMBER: CA000646.0001
SAMPLE STORAGE
EMAX CONTROL NO. * 06G064
PROJECT CODE: CA000646.0001

CLIENT: ARCADIS
PROJECT: OMEGA CHEMICAL OU2
COORDINATOR: RON HALPERN
TEL: 949 294 1532 FAX: EMAIL:
SEND REPORT TO: RON HALPERN
COMPANY: ARCADIS
ADDRESS: 1400 N. Harbor Blvd #700, FULLERTON, CA 92835
EMAX PM: Richard B

MATRIX CODE	PRESERVATIVE CODE
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SS=Soil/ Sediment	ST=Na2S2O3
WP=Wipes PP=Pure Products	ZA=Zinc Acetate
AR=Air	HS=H_2SO_4
O=	

TAT: ☐ Rush ____hrs. ☐ Rush ____days ☐ 7 days ☐ 14 days ☒ 21 days ☐ 30 days ☐ ____days ☐

LAB	SAMPLE ID CLIENT	SAMPLING LOCATION	DATE	TIME	CONTAINER NO.	SIZE	TYPE	MATRIX CODE	QC	VOC 8260B (HC)	1,2,3 TCP 8260 SIM (HC)	TOC 415.1 (HC)	SVOC 8270C (IC)	NDMA 1625 (IC)	1,4 DIOXANE 8270C (IC)	dissolved TAL METALS (IC)	TKN 351.3 (H2SO4)	COMMENTS
3 * 1	OC2-PMW17C-0-39		7/12/06	1330	3	40mL	VOA	GW		X								
* 2					3						X							
* 3					1							X						
* 4					2	1L	Amber						X					
* 5					2									X				
* 6					1										X			
* 7					1	500	Poly									X		NOT FILTERED
* 8					1												X	
* 9																		
* 0																		

Instructions: For Dissolved TAL Metals see page 4

Cooler #	Temp. (°C)	Sample #s

SAMPLER

COURIER/AIRBILL

RELINQUISHED BY	Date	Time	RECEIVED BY
[signature]	7/12/06	1713	[signature]
[signature]	7/12/06	1849	[signature]

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1005

7

CHAIN OF CUSTODY

EMAX LABORATORIES, INC.
1835 W. 205th Street, Torrance, CA 90501
Tel #: 310-618-8889 Fax #: 310-618-0818
Email: info@emaxlabs.com

PO NUMBER: CA000646.0001
SAMPLE STORAGE
EMAX CONTROL NO. * 06 G064
PROJECT CODE: CA000646.0001

CLIENT: ARCADIS
PROJECT: OMEGA CHEMICAL OU2
COORDINATOR: RON HALPERN
TEL: 949 394 1532 FAX: EMAIL:
SEND REPORT TO: RON HALPERN
COMPANY: ARCADIS
ADDRESS: 1400 N. Harbor Blvd #700, Fullerton, CA 92835
EMAX PM: Richard

MATRIX CODE	PRESERVATIVE CODE
DW=Drinking Water	IC = Ice
GW=Ground Water	HC = HCl
WW=Waste Water	HN=HNO3
SD=Solid Waste SL=Sludge	SH=NaOH
SS=Soil/ Sediment	ST=Na2S2O3
WP=Wipes PP=Pure Products	ZA=Zinc Acetate
AR=Air	HS=H_2SO_4
O=	

ANALYSIS REQUIRED: Cr+6, Anions, TDS, Perchlorate, CYANIDE

TAT:
- ☐ Rush ____hrs.
- ☐ Rush ____days
- ☐ 7 days
- ☐ 14 days
- ☒ 21 days
- ☐ 30 days
- ☐ ____days
- ☐

LAB	SAMPLE ID CLIENT	SAMPLING LOCATION	DATE	TIME	CONTAINER NO.	SIZE	TYPE	MATRIX CODE	QC	IC	NaOH	COMMENTS
3 1	OC2-PMW17C-039		7/12/06	1330	1	250	Poly	GW		X		
2	↓		↓	↓	1	125	↓	↓			X	
3												
4												
5												
6												
7												
8												
9												
0												

Instructions: For Anions, Cr+6, TDS, Perchlorate see page 2

Cooler #	Temp. (°C)	Sample #s

SAMPLER

RELINQUISHED BY	Date	Time	RECEIVED BY
[signature]	7/12/06	17:30	[signature]
[signature]	7/12/06	1848	[signature]

COURIER/AIRBILL

NOTICE: Turn-around-time (TAT) for samples shall not begin untill all discrepancies have been resolved. For samples received and discrepacies resolved after 1500 hrs, TAT shall start at 0800 hrs the next business day. The client is responsible for all cost associted with sample disposal. Samples shall be disposed of as soon as practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is pre-arranged with EMAX. Disposal fee for samples defined by CA Title 22 as non-hazardous shall be $5.00 per sample. EMAX will return hazardous samples to the client at the client's expense unless directed in writing otherwise.

1007

1

CHAIN OF CUSTODY

EMAX LABORATORIES, INC.
1835 W. 205th Street, Torrance, CA 90501
Tel #: 310-618-8889 Fax #: 310-618-0818
Email: info@emaxlabs.com

PO NUMBER: CA00646.0001
SAMPLE STORAGE
EMAX CONTROL NO. * 06 G064
PROJECT CODE: CA00646.0001

CLIENT: ARCADIS
PROJECT: OMEGA CHEMICAL OC2
COORDINATOR: RON HALPERN
TEL: 949-294-1532 EMAIL: rhalpern@arcadis-us.com
SEND REPORT TO: RON HALPERN
COMPANY: ARCADIS
ADDRESS: 1400 N. HARBOR BLVD #700, FULLERTON, CA 92835
EMAX PM: Richard B

MATRIX CODE	PRESERVATIVE CODE
DW=Drinking Water	IC = Ice
GW=Ground Water	HC = HCl
WW=Waste Water	HN=HNO3
SD=Solid Waste SL=Sludge	SH=NaOH
SS=Soil/ Sediment	ST=Na2S2O3
WP=Wipes PP=Pure Products	ZA=Zinc Acetate
AR=Air	HS=H_2SO_4
O=	

ANALYSIS REQUIRED: VOC HCL 8260B; 1,4,3TCP 8260SIM; TSS 4151/8366B; [illegible]; NDMA 1625; [illegible]; [illegible]; [illegible]

TAT: ☐ Rush ____hrs. ☐ Rush ____days ☐ 7 days ☐ 14 days ☒ 21 days ☐ 30 days ☐ ____days ☐

	SAMPLE ID LAB	SAMPLE ID CLIENT	SAMPLING LOCATION	SAMPLING DATE	SAMPLING TIME	CONTAINER NO.	CONTAINER SIZE	CONTAINER TYPE	MATRIX CODE	QC	VOC HCL 8260B (HC)	1,4,3TCP 8260SIM (HC)	TSS 4151/8366B (HC)	[illegible] (PP)	NDMA 1625 (IC)	[illegible] (IC)	[illegible] (IC)	[illegible] (HS)	COMMENTS
4	1	OC2-PMW19-0-34		7/12/06	1635	3	40ml	VOA	GW		X								
	2					3						X							
	3					1							X						
	4					2	1 lt	Amber											
	5					2									X				
	6					1													
	7					1	500	Poly											NOT FILTERED
	8					1	500												
	9																		
	0																		

Instructions

Send PDF + Excel reports to Ron Halpern rhalpern@arcadis-us.com

Cooler #	Temp. (°C)	Sample #s

SAMPLER

COURIER/AIRBILL

RELINQUISHED BY	Date	Time	RECEIVED BY
[signature]	7/12/06	17:30	[signature]
[signature]	7/12/06	1849	[signature]

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1000

2

CHAIN OF CUSTODY

EMAX LABORATORIES, INC.
1835 W. 205th Street, Torrance, CA 90501
Tel #: 310-618-8889 Fax #: 310-618-0818
Email: info@emaxlabs.com

PO NUMBER CA000646.0001
SAMPLE STORAGE
EMAX CONTROL NO. *06G064
PROJECT CODE CA000646.0001

CLIENT: ARCADIS
PROJECT: OMEGA CHEMICAL OU2
COORDINATOR: RON HALPERN
TEL: 949-294-1572 FAX: EMAIL:
SEND REPORT TO: RON HALPERN
COMPANY: ARCADIS
ADDRESS: 1400 N. HARBOR BLVD #700, FULLERTON, CA 92835
EMAX PM: Richard B

MATRIX CODE	PRESERVATIVE CODE
DW=Drinking Water	IC = Ice
GW=Ground Water	HC = HCl
WW=Waste Water	HN=HNO3
SD=Solid Waste SL=Sludge	SH=NaOH
SS=Soil/ Sediment	ST=Na2S2O3
WP=Wipes PP=Pure Products	ZA=Zinc Acetate
AR=Air	HS=H_2SO_4
O=	

ANALYSIS REQUIRED: Anions TDS Perchlorate, Cr+6

TAT:
- [ ] Rush ____hrs.
- [ ] Rush ____days
- [ ] 7 days
- [x] 14 days
- [x] 21 days
- [ ] 30 days
- [ ] ____days
- [ ]

LAB	SAMPLE ID CLIENT	SAMPLING LOCATION	DATE	TIME	CONTAINER NO.	SIZE	TYPE	MATRIX CODE	QC	PRESERVATIVE CODE IC	COMMENTS
4 1	OC2-PMW-10-0-34		7/12/06	1635	1	125	Poly	GW			
2			Y		1	250	Y	Y		X	
3											
4											
5											
6											
7											
8											
9											
0											

Instructions: Anions: Bromide, Chloride, Fluoride, Sulfates, Nitrate as N, Nitrite as N, orthophosphates by EPA 300.0; TDS by 160.1; Cr+6 by 218.6; Perchlorate by 314

Cooler #	Temp. (°C)	Sample #s

SAMPLER:
COURIER/AIRBILL:

RELINQUISHED BY	Date	Time	RECEIVED BY
[signature]	7/12/06	17:30	[signature]
[signature]	7/12/06	1849	[signature]

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1005

CHAIN OF CUSTODY

EMAX LABORATORIES, INC.
1835 W. 205th Street, Torrance, CA 90501
Tel #: 310-618-8889 Fax #: 310-618-0818
Email: info@emaxlabs.com

PO NUMBER CA000646.0001
SAMPLE STORAGE

EMAX CONTROL NO. * 06 G064
PROJECT CODE: CA000646.0001

CLIENT: ARCADIS
PROJECT: OMEGA CHEMICAL OU2
COORDINATOR: RON HALPERN
TEL: 949 294 1532 FAX: EMAIL:
SEND REPORT TO: RON HALPERN
COMPANY: ARCADIS
ADDRESS: 1400 N Harbor Blvd #700, Fullerton, CA 92835
EMAX PM: Richard B

MATRIX CODE	PRESERVATIVE CODE
DW=Drinking Water	IC = Ice
GW=Ground Water	HC = HCl
WW=Waste Water	HN=HNO3
SD=Solid Waste SL=Sludge	SH=NaOH
SS=Soil/ Sediment	ST=Na2S2O3
WP=Wipes PP=Pure Products	ZA=Zinc Acetate
AR=Air	HS=H_2SO_4
O=	

TAT: ☐ Rush ____hrs. ☐ Rush ____days ☐ 7 days ☒ 14 days ☒ 21 days ☐ 30 days ☐ ____days ☐

LAB	SAMPLE ID CLIENT	SAMPLING LOCATION	DATE	TIME	CONTAINER NO.	SIZE	TYPE	MATRIX CODE	QC	VOC 8260B (HC)	1,4,3TCP 8260SIM (HC)	TOC 415.1 (HC)	SVOC 8270C (2)	NDMA 1625 8270C (2)	1,4 DIOXANE (2)	dissolved TAL METALS (2)	TKN 351.3 (H2SO4)	COMMENTS
5 1	OC2-PMW21-0-40		7/12/06	1500	3	40mL	VOA	GW		X								
2					3						X							
3					1							X						
4					2	1L	amber						X					
5					2									X				
6					1										X			
7					1	500	Poly									X		NOT FILTERED
8					1												X	
9																		
0																		

Instructions: For Dissolved TAL Metals see page 4

Cooler #	Temp. (°C)	Sample #s

SAMPLER

RELINQUISHED BY	Date	Time	COURIER/AIRBILL	RECEIVED BY
[signature]	7/12/06	17:30		[signature]
[signature]	7/12/06	15:45		

NOTICE: Turn-around-time (TAT) for samples shall not begin untill all discrepancies have been resolved. For samples received and discrepacies resolved after 1500 hrs, TAT shall start at 0800 hrs the next business day. The client is responsible for all cost associted with sample disposal. Samples shall be disposed of as soon as practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is pre-arranged with EMAX. Disposal fee for samples defined by CA Title 22 as non-hazardous shall be $5.00 per sample. EMAX will return hazardous samples to the client at the client's expense unless directed in writing otherwise.

8

CHAIN OF CUSTODY

EMAX LABORATORIES, INC.
1835 W. 205th Street, Torrance, CA 90501
Tel #: 310-618-8889 Fax #: 310-618-0818
Email: info@emaxlabs.com

PO NUMBER CA000646.0001
SAMPLE STORAGE
EMAX CONTROL NO. * 06 G064
PROJECT CODE CA000646.0001

CLIENT: ARCADIS
PROJECT: OMEGA CHEMICAL OU2
COORDINATOR: RON HALPERN
PHONE: 949 294 1532 FAX: EMAIL:
SEND REPORT TO: RON HALPERN
COMPANY: ARCADIS
ADDRESS: 1400 N. Harbor Blvd #700, Fullerton, CA 92835
EMAX PM: Richard B

MATRIX CODE	PRESERVATIVE CODE
DW=Drinking Water	IC = Ice
GW=Ground Water	HC = HCl
WW=Waste Water	HN=HNO3
SD=Solid Waste SL=Sludge	SH=NaOH
SS=Soil/ Sediment	ST=Na2S2O3
WP=Wipes PP=Pure Products	ZA=Zinc Acetate
AR=Air	HS=H_2SO_4
O=	

ANALYSIS REQUIRED: Cr+6, Anions, TDS, Perchlorate, Cyanide

TAT:
- ☐ Rush ____hrs.
- ☐ Rush ____days
- ☐ 7 days
- ☒ 14 days
- ☒ 21 days
- ☐ 30 days
- ☐ ____days
- ☐

LAB	SAMPLE ID CLIENT	SAMPLING LOCATION	DATE	TIME	CONTAINER NO.	SIZE	TYPE	MATRIX CODE	QC	Cr+6	Anions	TDS	Perchlorate	Cyanide				COMMENTS
5 1	OC2-PMW21-0-40		7/12/04	1500	1	250	Poly	GW		X								
2	↓ ↓		↓		1	125	↓	↓			X							
3																		
4																		
5																		
6																		
7																		
8																		
9																		
0																		

Instructions: For Anions, Cr+6, TDS, perchlorate see pg 4

Cooler #	Temp. (°C)	Sample #s

SAMPLER

COURIER/AIRBILL

RELINQUISHED BY	Date	Time	RECEIVED BY
[signature]	7/12/04	17:30	[signature]
[signature]	7/12/04	18:49	[signature]

NOTICE: Turn-around-time (TAT) for samples shall not begin untill all discrepancies have been resolved. For samples received and discrepacies resolved after 1500 hrs, TAT shall start at 0800 hrs the next business day. The client is responsible for all cost associted with sample disposal. Samples shall be disposed of as soon as practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is pre-arranged with EMAX. Disposal fee for samples defined by CA Title 22 as non-hazardous shall be $5.00 per sample. EMAX will return hazardous samples to the client at the client's expense unless directed in writing otherwise.

1044

SAMPLE RECEIPT FORM 1

Type of Delivery	Delivered By/Airbill	ECN	06G064
☑ EMAX Courier	SEE C.O.C	Recepient	PATEL
☐ Client Delivery		Date	07/12/06
☐ Third Party		Time	18:49

COC Inspection

☑ Client Name	☑ Sampler Name	☑ Sampling Date/Time/Location
☑ Address	☑ Courier Signature/Date/Time	☑ Analysis Required
☑ Client PM/FC	☐ TAT	☑ Matrix
☑ Tel #/Fax #	☑ Sample ID	☐ Preservative (if any)
Safety Issues ☑ None	☐ High Concentrations expected	☐ Superfund Site Samples
Comments: ☐ Rad Screening Required		

Packaging Inspection

Container	☑ Cooler	☐ Box	☐	☐
Condition	☐ Custody Seal	☑ Intact	☐ Damaged	☐
Packaging	☑ Bubble Pack	☐ Styrofoam	☑ Sufficient	☑ RB
Temperatures	☑ Cooler 1 T-3.0	☑ Cooler 2 T-3.2	☑ Cooler 3 T-3.5	☑ Cooler 4 T-2.8
	☐ Cooler 5 ____	☐ Cooler 6 ____	☐ Cooler 7 ____	☐ Cooler 8 ____
	☐ Cooler 9 ____	☐ Cooler 10 ____	☐ Cooler 11 ____	☐ Cooler 12 ____

Comments:

LSCID	Client ID	Discrepancy	Corrective Action
01	OC2-PMW17A-037	ID READS TIME 16:35 VS 15:53	Follow COC
		READS ON C.O.C.	
04	OC2-pmW19-0-34	ID READS TIME 15:53 VS 16:35	
		READS ON C.O.C	
06	OC2-00-W-2-35	REC'D (3) VIALS EXTRA DATE	Analyze for VOCs
		7/12/06, TIME-8:30 NOT LISTED	as per client
		ON C.O.C FOR 8260.	
07	OC2-00-W-4-36	REC'D (1) VIAL TRIPBLANK	
		FOR 8260, DATE# 7/12/06	
		TIME# 8:30 NOT LISTED ON	
		C.O.C	

LSCID : Lab Sample Container ID

REVIEWS

Sample Labeling ____ Date 07/12/06

SRF ____ Date 7/12/06

PM ____ Date 7/13/06

REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.
N		Indicates presumptive evidence of a compound.
B	B	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

LABORATORY REPORT FOR

ARCADIS

OMEGA CHEMICAL

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

SDG#: 06G064

CASE NARRATIVE

CLIENT: **ARCADIS**

PROJECT: **OMEGA CHEMICAL**

SDG: **06G064**

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Seven (7) water samples were received on 07/12/06 for Volatile Organic analysis by Method 5030B/8260B in accordance with USEPA SW846, 3rd ed.

1. **Holding Time**

   Analytical holding time was met.

2. **Tuning and Calibration**

   Tuning and calibration were carried out at 12-hour interval. All QC requirements were met.

3. **Method Blank**

   Method blanks were free of contamination at the reporting limit.

4. **Surrogate Recovery**

   Recoveries were within QC limit.

5. **Lab Control Sample/Lab Control Sample Duplicate**

   Recoveries were within QC limit.

6. **Matrix Spike/Matrix Spike Duplicate**

   No MS/MSD sample was designated in this SDG.

7. **Sample Analysis**

   Samples were analyzed according to the prescribed QC procedures. All criteria were met.

LAB CHRONICLE
VOLATILE ORGANICS BY GC/MS

Client : ARCADIS
Project : OMEGA CHEMICAL

SDG NO. : 06G064
Instrument ID : T-005

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	V005G40Q	1	NA	07/21/0618:37	07/21/0618:37	RGQ482	RGQ022	V005G40	Method Blank
LCS1W	V005G40L	1	NA	07/21/0616:47	07/21/0616:47	RGQ479	RGQ022	V005G40	Lab Control Sample (LCS)
LCD1W	V005G40C	1	NA	07/21/0617:24	07/21/0617:24	RGQ480	RGQ022	V005G40	LCS Duplicate
OC2-00-W-4-36	G064-07	1	NA	07/21/0619:13	07/21/0619:13	RGQ483	RGQ022	V005G40	Field Sample
OC2-PMW17A-0-37	G064-01	1	NA	07/21/0621:41	07/21/0621:41	RGQ487	RGQ022	V005G40	Field Sample
OC2-PMW19-0-34	G064-04	1	NA	07/21/0623:33	07/21/0623:33	RGQ490	RGQ022	V005G40	Field Sample
OC2-PMW21-0-40	G064-05	1	NA	07/22/0600:10	07/22/0600:10	RGQ491	RGQ022	V005G40	Field Sample
OC2-00-W-2-35	G064-06	1	NA	07/22/0600:46	07/22/0600:46	RGQ492	RGQ022	V005G40	Field Sample
MBLK2W	V005G46Q	1	NA	07/25/0603:03	07/25/0603:03	RGQ544	RGQ022	V005G46	Method Blank
LCS2W	V005G46L	1	NA	07/25/0601:12	07/25/0601:12	RGQ541	RGQ022	V005G46	Lab Control Sample (LCS)
LCD2W	V005G46C	1	NA	07/25/0601:49	07/25/0601:49	RGQ542	RGQ022	V005G46	LCS Duplicate
OC2-PMW17A-0-37DL	G064-01T	25	NA	07/25/0603:40	07/25/0603:40	RGQ545	RGQ022	V005G46	Diluted Sample
OC2-PMW17B-0-38	G064-02R	1	NA	07/25/0604:18	07/25/0604:18	RGQ546	RGQ022	V005G46	Field Sample
OC2-PMW17B-0-38DL	G064-02T	5	NA	07/25/0604:55	07/25/0604:55	RGQ547	RGQ022	V005G46	Diluted Sample
OC2-PMW17C-0-39	G064-03R	1	NA	07/25/0605:32	07/25/0605:32	RGQ548	RGQ022	V005G46	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: ARCADIS	Date Collected:	07/11/06
Project	: OMEGA CHEMICAL	Date Received:	07/12/06
Batch No.	: 06G064	Date Extracted:	07/21/06 21:41
Sample ID:	OC2-PMW17A-0-37	Date Analyzed:	07/21/06 21:41
Lab Samp ID:	G064-01	Dilution Factor:	1
Lab File ID:	RGQ487	Matrix :	WATER
Ext Btch ID:	VO05G40	% Moisture :	NA
Calib. Ref.:	RGQ022	Instrument ID :	T-005

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1	.2
1,1,1-TRICHLOROETHANE	62	.5	.2
1,1,2,2-TETRACHLOROETHANE	ND	.5	.2
1,1,2-TRICHLOROETHANE	.7	.5	.2
1,1-DICHLOROETHANE	160E	.5	.2
1,1-DICHLOROETHENE	180E	.5	.2
1,1-DICHLOROPROPENE	ND	.5	.2
1,2,3-TRICHLOROBENZENE	ND	1	.2
1,2,4-TRICHLOROBENZENE	ND	1	.2
1,2,4-TRIMETHYLBENZENE	ND	.5	.2
1,2-DIBROMO-3-CHLOROPROPANE	ND	1	.5
1,2-DICHLOROBENZENE	ND	.5	.2
1,2-DICHLOROETHANE	13	.5	.2
1,2-DICHLOROPROPANE	ND	.5	.2
1,2-DIBROMOETHANE	ND	.5	.2
1,3,5-TRIMETHYLBENZENE	ND	1	.2
1,3-DICHLOROBENZENE	ND	.5	.2
1,3-DICHLOROPROPANE	ND	.5	.2
1,4-DICHLOROBENZENE	ND	.5	.2
2,2-DICHLOROPROPANE	ND	1	.2
2-CHLOROTOLUENE	ND	1	.2
4-CHLOROTOLUENE	ND	1	.2
BENZENE	ND	.5	.2
BROMODICHLOROMETHANE	ND	.5	.2
BROMOFORM	ND	.5	.3
BROMOMETHANE	ND	.5	.2
CARBON DISULFIDE	ND	1	.2
CARBON TETRACHLORIDE	ND	.5	.2
CHLOROBENZENE	ND	1	.2
CHLOROETHANE	ND	.5	.2
CHLOROFORM	1.9	1	.2
CHLOROMETHANE	ND	1	.2
CIS-1,2-DICHLOROETHENE	300E	.5	.2
CIS-1,3-DICHLOROPROPENE	ND	.5	.2
CYCLOHEXANE	ND	1	.2
DIBROMOCHLOROMETHANE	ND	1	.2
DIBROMOMETHANE	ND	1	.2
DICHLORODIFLUOROMETHANE	ND	1	.3
ETHYLBENZENE	ND	.5	.2
HEXACHLOROBUTADIENE	ND	1	.2
ISOPROPYL BENZENE	ND	.5	.2
M/P-XYLENES	ND	1	.5
METHYL ACETATE	ND	1	.5
METHYLCYCLOHEXANE	ND	1	.2
METHYLENE CHLORIDE	ND	1	.5
N-BUTYLBENZENE	ND	1	.2
N-PROPYLBENZENE	ND	1	.2
NAPHTHALENE	ND	2	.5
O-XYLENE	ND	1	.2
SEC-BUTYLBENZENE	ND	1	.2
STYRENE	ND	.5	.2
TERT-BUTYLBENZENE	ND	1	.2
TETRACHLOROETHENE	540E	.5	.2
TOLUENE	ND	.5	.2
TRANS-1,2-DICHLOROETHENE	1.8	.5	.2
TRANS-1,3-DICHLOROPROPENE	ND	.5	.2
TRICHLOROETHENE	160E	.5	.2
TRICHLOROFLUOROMETHANE	5.6	1	.2
VINYL ACETATE	ND	2	.5
VINYL CHLORIDE	.91	.5	.2
FC 113	8	1	.2
MTBE	.47J	1	.2
XYLENES, TOTAL	ND	2	.7
ACETONE	ND	10	5
2-BUTANONE	ND	5	1
2-HEXANONE	ND	10	5
4-METHYL-2-PENTANONE	ND	10	5

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	103	70-140
4-BROMOFLUOROBENZENE	101	70-130
TOLUENE-D8	105	70-140

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client : ARCADIS	Date Collected: 07/11/06
Project : OMEGA CHEMICAL	Date Received: 07/12/06
Batch No. : 06G064	Date Extracted: 07/25/06 03:40
Sample ID: OC2-PMW17A-0-37DL	Date Analyzed: 07/25/06 03:40
Lab Samp ID: G064-01T	Dilution Factor: 25
Lab File ID: RGQ545	Matrix : WATER
Ext Btch ID: VO05G46	% Moisture : NA
Calib. Ref.: RGQ022	Instrument ID : T-005

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	25	5
1,1,1-TRICHLOROETHANE	60	12	5
1,1,2,2-TETRACHLOROETHANE	ND	12	5
1,1,2-TRICHLOROETHANE	ND	12	5
1,1-DICHLOROETHANE	170	12	5
1,1-DICHLOROETHENE	370	12	5
1,1-DICHLOROPROPENE	ND	12	5
1,2,3-TRICHLOROBENZENE	ND	25	5
1,2,4-TRICHLOROBENZENE	ND	25	5
1,2,4-TRIMETHYLBENZENE	ND	12	5
1,2-DIBROMO-3-CHLOROPROPANE	ND	25	12
1,2-DICHLOROBENZENE	ND	12	5
1,2-DICHLOROETHANE	13	12	5
1,2-DICHLOROPROPANE	ND	12	5
1,2-DIBROMOETHANE	ND	12	5
1,3,5-TRIMETHYLBENZENE	ND	25	5
1,3-DICHLOROBENZENE	ND	12	5
1,3-DICHLOROPROPANE	ND	12	5
1,4-DICHLOROBENZENE	ND	12	5
2,2-DICHLOROPROPANE	ND	25	5
2-CHLOROTOLUENE	ND	25	5
4-CHLOROTOLUENE	ND	25	5
BENZENE	ND	12	5
BROMODICHLOROMETHANE	ND	12	5
BROMOFORM	ND	12	7.5
BROMOMETHANE	ND	12	5
CARBON DISULFIDE	ND	25	5
CARBON TETRACHLORIDE	ND	12	5
CHLOROBENZENE	ND	25	5
CHLOROETHANE	ND	12	5
CHLOROFORM	ND	25	5
CHLOROMETHANE	ND	25	5
CIS-1,2-DICHLOROETHENE	290	12	5
CIS-1,3-DICHLOROPROPENE	ND	12	5
CYCLOHEXANE	ND	25	5
DIBROMOCHLOROMETHANE	ND	25	5
DIBROMOMETHANE	ND	25	5
DICHLORODIFLUOROMETHANE	ND	25	7.5
ETHYLBENZENE	ND	12	5
HEXACHLOROBUTADIENE	ND	25	5
ISOPROPYL BENZENE	ND	12	5
M/P-XYLENES	ND	25	12
METHYL ACETATE	ND	25	12
METHYLCYCLOHEXANE	ND	25	5
METHYLENE CHLORIDE	ND	25	12
N-BUTYLBENZENE	ND	25	5
N-PROPYLBENZENE	ND	25	5
NAPHTHALENE	ND	50	12
O-XYLENE	ND	25	5
SEC-BUTYLBENZENE	ND	25	5
STYRENE	ND	12	5
TERT-BUTYLBENZENE	ND	25	5
TETRACHLOROETHENE	450	12	5
TOLUENE	ND	12	5
TRANS-1,2-DICHLOROETHENE	ND	12	5
TRANS-1,3-DICHLOROPROPENE	ND	12	5
TRICHLOROETHENE	150	12	5
TRICHLOROFLUOROMETHANE	9.7J	25	5
VINYL ACETATE	ND	50	12
VINYL CHLORIDE	ND	12	5
FC 113	9.3J	25	5
MTBE	ND	25	5
XYLENES, TOTAL	ND	50	18
ACETONE	ND	250	120
2-BUTANONE	ND	120	25
2-HEXANONE	ND	250	120
4-METHYL-2-PENTANONE	ND	250	120

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	107	70-140
4-BROMOFLUOROBENZENE	102	70-130
TOLUENE-D8	103	70-140

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client : ARCADIS	Date Collected: 07/12/06
Project : OMEGA CHEMICAL	Date Received: 07/12/06
Batch No. : 06G064	Date Extracted: 07/25/06 04:18
Sample ID: OC2-PMW17B-0-38	Date Analyzed: 07/25/06 04:18
Lab Samp ID: G064-02R	Dilution Factor: 1
Lab File ID: RGQ546	Matrix : WATER
Ext Btch ID: VO05G46	% Moisture : NA
Calib. Ref.: RGQ022	Instrument ID : T-005

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1	.2
1,1,1-TRICHLOROETHANE	.94	.5	.2
1,1,2,2-TETRACHLOROETHANE	ND	.5	.2
1,1,2-TRICHLOROETHANE	ND	.5	.2
1,1-DICHLOROETHANE	1.4	.5	.2
1,1-DICHLOROETHENE	39	.5	.2
1,1-DICHLOROPROPENE	ND	.5	.2
1,2,3-TRICHLOROBENZENE	ND	1	.2
1,2,4-TRICHLOROBENZENE	ND	1	.2
1,2,4-TRIMETHYLBENZENE	ND	.5	.2
1,2-DIBROMO-3-CHLOROPROPANE	ND	1	.5
1,2-DICHLOROBENZENE	ND	.5	.2
1,2-DICHLOROETHANE	.41J	.5	.2
1,2-DICHLOROPROPANE	ND	.5	.2
1,2-DIBROMOETHANE	ND	.5	.2
1,3,5-TRIMETHYLBENZENE	ND	1	.2
1,3-DICHLOROBENZENE	ND	.5	.2
1,3-DICHLOROPROPANE	ND	.5	.2
1,4-DICHLOROBENZENE	ND	.5	.2
2,2-DICHLOROPROPANE	ND	1	.2
2-CHLOROTOLUENE	ND	1	.2
4-CHLOROTOLUENE	ND	1	.2
BENZENE	ND	.5	.2
BROMODICHLOROMETHANE	ND	.5	.2
BROMOFORM	ND	.5	.3
BROMOMETHANE	ND	.5	.2
CARBON DISULFIDE	ND	1	.2
CARBON TETRACHLORIDE	.31J	.5	.2
CHLOROBENZENE	ND	1	.2
CHLOROETHANE	ND	.5	.2
CHLOROFORM	1.3	1	.2
CHLOROMETHANE	ND	1	.2
CIS-1,2-DICHLOROETHENE	6.5	.5	.2
CIS-1,3-DICHLOROPROPENE	ND	.5	.2
CYCLOHEXANE	ND	1	.2
DIBROMOCHLOROMETHANE	ND	1	.2
DIBROMOMETHANE	ND	1	.2
DICHLORODIFLUOROMETHANE	ND	1	.3
ETHYLBENZENE	ND	.5	.2
HEXACHLOROBUTADIENE	ND	1	.2
ISOPROPYL BENZENE	ND	.5	.2
M/P-XYLENES	ND	1	.5
METHYL ACETATE	ND	1	.5
METHYLCYCLOHEXANE	ND	1	.2
METHYLENE CHLORIDE	ND	1	.5
N-BUTYLBENZENE	ND	1	.2
N-PROPYLBENZENE	ND	1	.2
NAPHTHALENE	ND	2	.5
O-XYLENE	ND	1	.2
SEC-BUTYLBENZENE	ND	1	.2
STYRENE	ND	.5	.2
TERT-BUTYLBENZENE	ND	1	.2
TETRACHLOROETHENE	130E	.5	.2
TOLUENE	ND	.5	.2
TRANS-1,2-DICHLOROETHENE	ND	.5	.2
TRANS-1,3-DICHLOROPROPENE	ND	.5	.2
TRICHLOROETHENE	160E	.5	.2
TRICHLOROFLUOROMETHANE	33	1	.2
VINYL ACETATE	ND	2	.5
VINYL CHLORIDE	ND	.5	.2
FC 113	70E	1	.2
MTBE	ND	1	.2
XYLENES, TOTAL	ND	2	.7
ACETONE	6.1J	10	5
2-BUTANONE	ND	5	1
2-HEXANONE	ND	10	5
4-METHYL-2-PENTANONE	ND	10	5

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	104	70-140
4-BROMOFLUOROBENZENE	103	70-130
TOLUENE-D8	103	70-140

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: ARCADIS	Date Collected:	07/12/06
Project	: OMEGA CHEMICAL	Date Received:	07/12/06
Batch No.	: 06G064	Date Extracted:	07/25/06 04:55
Sample ID:	OC2-PMW17B-0-38DL	Date Analyzed:	07/25/06 04:55
Lab Samp ID:	G064-02T	Dilution Factor:	5
Lab File ID:	RGQ547	Matrix :	WATER
Ext Btch ID:	VO05G46	% Moisture :	NA
Calib. Ref.:	RGQ022	Instrument ID :	T-005

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	5	1
1,1,1-TRICHLOROETHANE	ND	2.5	1
1,1,2,2-TETRACHLOROETHANE	ND	2.5	1
1,1,2-TRICHLOROETHANE	ND	2.5	1
1,1-DICHLOROETHANE	1.4J	2.5	1
1,1-DICHLOROETHENE	39	2.5	1
1,1-DICHLOROPROPENE	ND	2.5	1
1,2,3-TRICHLOROBENZENE	ND	5	1
1,2,4-TRICHLOROBENZENE	ND	5	1
1,2,4-TRIMETHYLBENZENE	ND	2.5	1
1,2-DIBROMO-3-CHLOROPROPANE	ND	5	2.5
1,2-DICHLOROBENZENE	ND	2.5	1
1,2-DICHLOROETHANE	ND	2.5	1
1,2-DICHLOROPROPANE	ND	2.5	1
1,2-DIBROMOETHANE	ND	2.5	1
1,3,5-TRIMETHYLBENZENE	ND	5	1
1,3-DICHLOROBENZENE	ND	2.5	1
1,3-DICHLOROPROPANE	ND	2.5	1
1,4-DICHLOROBENZENE	ND	2.5	1
2,2-DICHLOROPROPANE	ND	5	1
2-CHLOROTOLUENE	ND	5	1
4-CHLOROTOLUENE	ND	5	1
BENZENE	ND	2.5	1
BROMODICHLOROMETHANE	ND	2.5	1
BROMOFORM	ND	2.5	1.5
BROMOMETHANE	ND	2.5	1
CARBON DISULFIDE	ND	5	1
CARBON TETRACHLORIDE	ND	2.5	1
CHLOROBENZENE	ND	5	1
CHLOROETHANE	ND	2.5	1
CHLOROFORM	1.5J	5	1
CHLOROMETHANE	ND	5	1
CIS-1,2-DICHLOROETHENE	6.6	2.5	1
CIS-1,3-DICHLOROPROPENE	ND	2.5	1
CYCLOHEXANE	ND	5	1
DIBROMOCHLOROMETHANE	ND	5	1
DIBROMOMETHANE	ND	5	1
DICHLORODIFLUOROMETHANE	ND	5	1.5
ETHYLBENZENE	ND	2.5	1
HEXACHLOROBUTADIENE	ND	5	1
ISOPROPYL BENZENE	ND	2.5	1
M/P-XYLENES	ND	5	2.5
METHYL ACETATE	ND	5	2.5
METHYLCYCLOHEXANE	ND	5	1
METHYLENE CHLORIDE	ND	5	2.5
N-BUTYLBENZENE	ND	5	1
N-PROPYLBENZENE	ND	5	1
NAPHTHALENE	ND	10	2.5
O-XYLENE	ND	5	1
SEC-BUTYLBENZENE	ND	5	1
STYRENE	ND	2.5	1
TERT-BUTYLBENZENE	ND	5	1
TETRACHLOROETHENE	130	2.5	1
TOLUENE	ND	2.5	1
TRANS-1,2-DICHLOROETHENE	ND	2.5	1
TRANS-1,3-DICHLOROPROPENE	ND	2.5	1
TRICHLOROETHENE	150	2.5	1
TRICHLOROFLUOROMETHANE	34	5	1
VINYL ACETATE	ND	10	2.5
VINYL CHLORIDE	ND	2.5	1
FC 113	69	5	1
MTBE	ND	5	1
XYLENES, TOTAL	ND	10	3.5
ACETONE	ND	50	25
2-BUTANONE	ND	25	5
2-HEXANONE	ND	50	25
4-METHYL-2-PENTANONE	ND	50	25

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	105	70-140
4-BROMOFLUOROBENZENE	102	70-130
TOLUENE-D8	102	70-140

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: ARCADIS	Date Collected:	07/12/06
Project	: OMEGA CHEMICAL	Date Received:	07/12/06
Batch No.	: 06G064	Date Extracted:	07/25/06 05:32
Sample ID:	OC2-PMW17C-0-39	Date Analyzed:	07/25/06 05:32
Lab Samp ID:	G064-03R	Dilution Factor:	1
Lab File ID:	RGQ548	Matrix :	WATER
Ext Btch ID:	VO05G46	% Moisture :	NA
Calib. Ref.:	RGQ022	Instrument ID :	T-005

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1	.2
1,1,1-TRICHLOROETHANE	ND	.5	.2
1,1,2,2-TETRACHLOROETHANE	ND	.5	.2
1,1,2-TRICHLOROETHANE	ND	.5	.2
1,1-DICHLOROETHANE	ND	.5	.2
1,1-DICHLOROETHENE	ND	.5	.2
1,1-DICHLOROPROPENE	ND	.5	.2
1,2,3-TRICHLOROBENZENE	ND	1	.2
1,2,4-TRICHLOROBENZENE	ND	1	.2
1,2,4-TRIMETHYLBENZENE	ND	.5	.2
1,2-DIBROMO-3-CHLOROPROPANE	ND	1	.5
1,2-DICHLOROBENZENE	ND	.5	.2
1,2-DICHLOROETHANE	ND	.5	.2
1,2-DICHLOROPROPANE	ND	.5	.2
1,2-DIBROMOETHANE	ND	.5	.2
1,3,5-TRIMETHYLBENZENE	ND	1	.2
1,3-DICHLOROBENZENE	ND	.5	.2
1,3-DICHLOROPROPANE	ND	.5	.2
1,4-DICHLOROBENZENE	ND	.5	.2
2,2-DICHLOROPROPANE	ND	1	.2
2-CHLOROTOLUENE	ND	1	.2
4-CHLOROTOLUENE	ND	1	.2
BENZENE	ND	.5	.2
BROMODICHLOROMETHANE	ND	.5	.2
BROMOFORM	ND	.5	.3
BROMOMETHANE	ND	.5	.2
CARBON DISULFIDE	ND	1	.2
CARBON TETRACHLORIDE	.2J	.5	.2
CHLOROBENZENE	ND	1	.2
CHLOROETHANE	ND	.5	.2
CHLOROFORM	.27J	1	.2
CHLOROMETHANE	ND	1	.2
CIS-1,2-DICHLOROETHENE	ND	.5	.2
CIS-1,3-DICHLOROPROPENE	ND	.5	.2
CYCLOHEXANE	ND	1	.2
DIBROMOCHLOROMETHANE	ND	1	.2
DIBROMOMETHANE	ND	1	.2
DICHLORODIFLUOROMETHANE	ND	1	.3
ETHYLBENZENE	ND	.5	.2
HEXACHLOROBUTADIENE	ND	1	.2
ISOPROPYL BENZENE	ND	.5	.2
M/P-XYLENES	ND	1	.5
METHYL ACETATE	ND	1	.5
METHYLCYCLOHEXANE	ND	1	.2
METHYLENE CHLORIDE	ND	1	.5
N-BUTYLBENZENE	ND	1	.2
N-PROPYLBENZENE	ND	1	.2
NAPHTHALENE	ND	2	.5
O-XYLENE	ND	1	.2
SEC-BUTYLBENZENE	ND	1	.2
STYRENE	ND	.5	.2
TERT-BUTYLBENZENE	ND	1	.2
TETRACHLOROETHENE	1	.5	.2
TOLUENE	ND	.5	.2
TRANS-1,2-DICHLOROETHENE	ND	.5	.2
TRANS-1,3-DICHLOROPROPENE	ND	.5	.2
TRICHLOROETHENE	14	.5	.2
TRICHLOROFLUOROMETHANE	ND	1	.2
VINYL ACETATE	ND	2	.5
VINYL CHLORIDE	ND	.5	.2
FC 113	ND	1	.2
MTBE	ND	1	.2
XYLENES, TOTAL	ND	2	.7
ACETONE	ND	10	5
2-BUTANONE	ND	5	1
2-HEXANONE	ND	10	5
4-METHYL-2-PENTANONE	ND	10	5

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	104	70-140
4-BROMOFLUOROBENZENE	102	70-130
TOLUENE-D8	103	70-140

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: ARCADIS	Date Collected:	07/12/06
Project	: OMEGA CHEMICAL	Date Received:	07/12/06
Batch No.	: 06G064	Date Extracted:	07/21/06 23:33
Sample ID:	OC2-PMW19-0-34	Date Analyzed:	07/21/06 23:33
Lab Samp ID:	G064-04	Dilution Factor:	1
Lab File ID:	RGQ490	Matrix :	WATER
Ext Btch ID:	VO05G40	% Moisture :	NA
Calib. Ref.:	RGQ022	Instrument ID :	T-005

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1	.2
1,1,1-TRICHLOROETHANE	ND	.5	.2
1,1,2,2-TETRACHLOROETHANE	ND	.5	.2
1,1,2-TRICHLOROETHANE	ND	.5	.2
1,1-DICHLOROETHANE	ND	.5	.2
1,1-DICHLOROETHENE	ND	.5	.2
1,1-DICHLOROPROPENE	ND	.5	.2
1,2,3-TRICHLOROBENZENE	ND	1	.2
1,2,4-TRICHLOROBENZENE	ND	1	.2
1,2,4-TRIMETHYLBENZENE	ND	.5	.2
1,2-DIBROMO-3-CHLOROPROPANE	ND	1	.5
1,2-DICHLOROBENZENE	ND	.5	.2
1,2-DICHLOROETHANE	ND	.5	.2
1,2-DICHLOROPROPANE	ND	.5	.2
1,2-DIBROMOETHANE	ND	.5	.2
1,3,5-TRIMETHYLBENZENE	ND	1	.2
1,3-DICHLOROBENZENE	ND	.5	.2
1,3-DICHLOROPROPANE	ND	.5	.2
1,4-DICHLOROBENZENE	ND	.5	.2
2,2-DICHLOROPROPANE	ND	1	.2
2-CHLOROTOLUENE	ND	1	.2
4-CHLOROTOLUENE	ND	1	.2
BENZENE	ND	.5	.2
BROMODICHLOROMETHANE	ND	.5	.2
BROMOFORM	ND	.5	.3
BROMOMETHANE	ND	.5	.2
CARBON DISULFIDE	ND	1	.2
CARBON TETRACHLORIDE	ND	.5	.2
CHLOROBENZENE	ND	1	.2
CHLOROETHANE	ND	.5	.2
CHLOROFORM	ND	1	.2
CHLOROMETHANE	ND	1	.2
CIS-1,2-DICHLOROETHENE	ND	.5	.2
CIS-1,3-DICHLOROPROPENE	ND	.5	.2
CYCLOHEXANE	ND	1	.2
DIBROMOCHLOROMETHANE	ND	1	.2
DIBROMOMETHANE	ND	1	.2
DICHLORODIFLUOROMETHANE	ND	1	.3
ETHYLBENZENE	ND	.5	.2
HEXACHLOROBUTADIENE	ND	1	.2
ISOPROPYL BENZENE	ND	.5	.2
M/P-XYLENES	ND	1	.5
METHYL ACETATE	ND	1	.5
METHYLCYCLOHEXANE	ND	1	.2
METHYLENE CHLORIDE	ND	1	.5
N-BUTYLBENZENE	ND	1	.2
N-PROPYLBENZENE	ND	1	.2
NAPHTHALENE	ND	2	.5
O-XYLENE	ND	1	.2
SEC-BUTYLBENZENE	ND	1	.2
STYRENE	ND	.5	.2
TERT-BUTYLBENZENE	ND	1	.2
TETRACHLOROETHENE	ND	.5	.2
TOLUENE	ND	.5	.2
TRANS-1,2-DICHLOROETHENE	ND	.5	.2
TRANS-1,3-DICHLOROPROPENE	ND	.5	.2
TRICHLOROETHENE	.3J	.5	.2
TRICHLOROFLUOROMETHANE	ND	1	.2
VINYL ACETATE	ND	2	.5
VINYL CHLORIDE	ND	.5	.2
FC 113	ND	1	.2
MTBE	ND	1	.2
XYLENES, TOTAL	ND	2	.7
ACETONE	ND	10	5
2-BUTANONE	ND	5	1
2-HEXANONE	ND	10	5
4-METHYL-2-PENTANONE	ND	10	5

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	105	70-140
4-BROMOFLUOROBENZENE	101	70-130
TOLUENE-D8	104	70-140

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client : ARCADIS	Date Collected: 07/12/06
Project : OMEGA CHEMICAL	Date Received: 07/12/06
Batch No. : 06G064	Date Extracted: 07/22/06 00:10
Sample ID: OC2-PMW21-0-40	Date Analyzed: 07/22/06 00:10
Lab Samp ID: G064-05	Dilution Factor: 1
Lab File ID: RGQ491	Matrix : WATER
Ext Btch ID: VO05G40	% Moisture : NA
Calib. Ref.: RGQ022	Instrument ID : T-005

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1	.2
1,1,1-TRICHLOROETHANE	.95	.5	.2
1,1,2,2-TETRACHLOROETHANE	ND	.5	.2
1,1,2-TRICHLOROETHANE	ND	.5	.2
1,1-DICHLOROETHANE	ND	.5	.2
1,1-DICHLOROETHENE	.59	.5	.2
1,1-DICHLOROPROPENE	ND	.5	.2
1,2,3-TRICHLOROBENZENE	ND	1	.2
1,2,4-TRICHLOROBENZENE	ND	1	.2
1,2,4-TRIMETHYLBENZENE	ND	.5	.2
1,2-DIBROMO-3-CHLOROPROPANE	ND	1	.5
1,2-DICHLOROBENZENE	ND	.5	.2
1,2-DICHLOROETHANE	ND	.5	.2
1,2-DICHLOROPROPANE	ND	.5	.2
1,2-DIBROMOETHANE	ND	.5	.2
1,3,5-TRIMETHYLBENZENE	ND	1	.2
1,3-DICHLOROBENZENE	ND	.5	.2
1,3-DICHLOROPROPANE	ND	.5	.2
1,4-DICHLOROBENZENE	ND	.5	.2
2,2-DICHLOROPROPANE	ND	1	.2
2-CHLOROTOLUENE	ND	1	.2
4-CHLOROTOLUENE	ND	1	.2
BENZENE	ND	.5	.2
BROMODICHLOROMETHANE	ND	.5	.2
BROMOFORM	ND	.5	.3
BROMOMETHANE	ND	.5	.2
CARBON DISULFIDE	ND	1	.2
CARBON TETRACHLORIDE	ND	.5	.2
CHLOROBENZENE	ND	1	.2
CHLOROETHANE	ND	.5	.2
CHLOROFORM	.34J	1	.2
CHLOROMETHANE	ND	1	.2
CIS-1,2-DICHLOROETHENE	ND	.5	.2
CIS-1,3-DICHLOROPROPENE	ND	.5	.2
CYCLOHEXANE	ND	1	.2
DIBROMOCHLOROMETHANE	ND	1	.2
DIBROMOMETHANE	ND	1	.2
DICHLORODIFLUOROMETHANE	ND	1	.3
ETHYLBENZENE	ND	.5	.2
HEXACHLOROBUTADIENE	ND	1	.2
ISOPROPYL BENZENE	ND	.5	.2
M/P-XYLENES	ND	1	.5
METHYL ACETATE	ND	1	.5
METHYLCYCLOHEXANE	ND	1	.2
METHYLENE CHLORIDE	ND	1	.5
N-BUTYLBENZENE	ND	1	.2
N-PROPYLBENZENE	ND	1	.2
NAPHTHALENE	ND	2	.5
O-XYLENE	ND	1	.2
SEC-BUTYLBENZENE	ND	1	.2
STYRENE	ND	.5	.2
TERT-BUTYLBENZENE	ND	1	.2
TETRACHLOROETHENE	2.2	.5	.2
TOLUENE	ND	.5	.2
TRANS-1,2-DICHLOROETHENE	ND	.5	.2
TRANS-1,3-DICHLOROPROPENE	ND	.5	.2
TRICHLOROETHENE	.29J	.5	.2
TRICHLOROFLUOROMETHANE	ND	1	.2
VINYL ACETATE	ND	2	.5
VINYL CHLORIDE	ND	.5	.2
FC 113	ND	1	.2
MTBE	ND	1	.2
XYLENES, TOTAL	ND	2	.7
ACETONE	ND	10	5
2-BUTANONE	ND	5	1
2-HEXANONE	ND	10	5
4-METHYL-2-PENTANONE	ND	10	5

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	104	70-140
4-BROMOFLUOROBENZENE	101	70-130
TOLUENE-D8	104	70-140

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client : ARCADIS	Date Collected: 07/12/06
Project : OMEGA CHEMICAL	Date Received: 07/12/06
Batch No. : 06G064	Date Extracted: 07/22/06 00:46
Sample ID: OC2-00-W-2-35	Date Analyzed: 07/22/06 00:46
Lab Samp ID: G064-06	Dilution Factor: 1
Lab File ID: RGQ492	Matrix : WATER
Ext Btch ID: V005G40	% Moisture : NA
Calib. Ref.: RGQ022	Instrument ID : T-005

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1	.2
1,1,1-TRICHLOROETHANE	ND	.5	.2
1,1,2,2-TETRACHLOROETHANE	ND	.5	.2
1,1,2-TRICHLOROETHANE	ND	.5	.2
1,1-DICHLOROETHANE	ND	.5	.2
1,1-DICHLOROETHENE	ND	.5	.2
1,1-DICHLOROPROPENE	ND	.5	.2
1,2,3-TRICHLOROBENZENE	ND	1	.2
1,2,4-TRICHLOROBENZENE	ND	1	.2
1,2,4-TRIMETHYLBENZENE	ND	.5	.2
1,2-DIBROMO-3-CHLOROPROPANE	ND	1	.5
1,2-DICHLOROBENZENE	ND	.5	.2
1,2-DICHLOROETHANE	ND	.5	.2
1,2-DICHLOROPROPANE	ND	.5	.2
1,2-DIBROMOETHANE	ND	.5	.2
1,3,5-TRIMETHYLBENZENE	ND	1	.2
1,3-DICHLOROBENZENE	ND	.5	.2
1,3-DICHLOROPROPANE	ND	.5	.2
1,4-DICHLOROBENZENE	ND	.5	.2
2,2-DICHLOROPROPANE	ND	1	.2
2-CHLOROTOLUENE	ND	1	.2
4-CHLOROTOLUENE	ND	1	.2
BENZENE	ND	.5	.2
BROMODICHLOROMETHANE	ND	.5	.2
BROMOFORM	ND	.5	.3
BROMOMETHANE	ND	.5	.2
CARBON DISULFIDE	ND	1	.2
CARBON TETRACHLORIDE	ND	.5	.2
CHLOROBENZENE	ND	1	.2
CHLOROETHANE	ND	.5	.2
CHLOROFORM	.34J	1	.2
CHLOROMETHANE	ND	1	.2
CIS-1,2-DICHLOROETHENE	ND	.5	.2
CIS-1,3-DICHLOROPROPENE	ND	.5	.2
CYCLOHEXANE	ND	1	.2
DIBROMOCHLOROMETHANE	ND	1	.2
DIBROMOMETHANE	ND	1	.2
DICHLORODIFLUOROMETHANE	ND	1	.3
ETHYLBENZENE	ND	.5	.2
HEXACHLOROBUTADIENE	ND	1	.2
ISOPROPYL BENZENE	ND	.5	.2
M/P-XYLENES	ND	1	.5
METHYL ACETATE	ND	1	.5
METHYLCYCLOHEXANE	ND	1	.2
METHYLENE CHLORIDE	ND	1	.5
N-BUTYLBENZENE	ND	1	.2
N-PROPYLBENZENE	ND	1	.2
NAPHTHALENE	ND	2	.5
O-XYLENE	ND	1	.2
SEC-BUTYLBENZENE	ND	1	.2
STYRENE	ND	.5	.2
TERT-BUTYLBENZENE	ND	1	.2
TETRACHLOROETHENE	ND	.5	.2
TOLUENE	ND	.5	.2
TRANS-1,2-DICHLOROETHENE	ND	.5	.2
TRANS-1,3-DICHLOROPROPENE	ND	.5	.2
TRICHLOROETHENE	ND	.5	.2
TRICHLOROFLUOROMETHANE	ND	1	.2
VINYL ACETATE	ND	2	.5
VINYL CHLORIDE	ND	.5	.2
FC 113	ND	1	.2
MTBE	ND	1	.2
XYLENES, TOTAL	ND	2	.7
ACETONE	ND	10	5
2-BUTANONE	ND	5	1
2-HEXANONE	ND	10	5
4-METHYL-2-PENTANONE	ND	10	5

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	106	70-140
4-BROMOFLUOROBENZENE	101	70-130
TOLUENE-D8	103	70-140

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client : ARCADIS	Date Collected: 07/12/06
Project : OMEGA CHEMICAL	Date Received: 07/12/06
Batch No. : 06G064	Date Extracted: 07/21/06 19:13
Sample ID: OC2-00-W-4-36	Date Analyzed: 07/21/06 19:13
Lab Samp ID: G064-07	Dilution Factor: 1
Lab File ID: RGQ483	Matrix : WATER
Ext Btch ID: V005G40	% Moisture : NA
Calib. Ref.: RGQ022	Instrument ID : T-005

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1	.2
1,1,1-TRICHLOROETHANE	ND	.5	.2
1,1,2,2-TETRACHLOROETHANE	ND	.5	.2
1,1,2-TRICHLOROETHANE	ND	.5	.2
1,1-DICHLOROETHANE	ND	.5	.2
1,1-DICHLOROETHENE	ND	.5	.2
1,1-DICHLOROPROPENE	ND	.5	.2
1,2,3-TRICHLOROBENZENE	ND	1	.2
1,2,4-TRICHLOROBENZENE	ND	1	.2
1,2,4-TRIMETHYLBENZENE	ND	.5	.2
1,2-DIBROMO-3-CHLOROPROPANE	ND	1	.5
1,2-DICHLOROBENZENE	ND	.5	.2
1,2-DICHLOROETHANE	ND	.5	.2
1,2-DICHLOROPROPANE	ND	.5	.2
1,2-DIBROMOETHANE	ND	.5	.2
1,3,5-TRIMETHYLBENZENE	ND	1	.2
1,3-DICHLOROBENZENE	ND	.5	.2
1,3-DICHLOROPROPANE	ND	.5	.2
1,4-DICHLOROBENZENE	ND	.5	.2
2,2-DICHLOROPROPANE	ND	1	.2
2-CHLOROTOLUENE	ND	1	.2
4-CHLOROTOLUENE	ND	1	.2
BENZENE	ND	.5	.2
BROMODICHLOROMETHANE	ND	.5	.2
BROMOFORM	ND	.5	.3
BROMOMETHANE	ND	.5	.2
CARBON DISULFIDE	ND	1	.2
CARBON TETRACHLORIDE	ND	.5	.2
CHLOROBENZENE	ND	1	.2
CHLOROETHANE	ND	.5	.2
CHLOROFORM	ND	1	.2
CHLOROMETHANE	ND	1	.2
CIS-1,2-DICHLOROETHENE	ND	.5	.2
CIS-1,3-DICHLOROPROPENE	ND	.5	.2
CYCLOHEXANE	ND	1	.2
DIBROMOCHLOROMETHANE	ND	1	.2
DIBROMOMETHANE	ND	1	.2
DICHLORODIFLUOROMETHANE	ND	1	.3
ETHYLBENZENE	ND	.5	.2
HEXACHLOROBUTADIENE	ND	1	.2
ISOPROPYL BENZENE	ND	.5	.2
M/P-XYLENES	ND	1	.5
METHYL ACETATE	ND	1	.5
METHYLCYCLOHEXANE	ND	1	.2
METHYLENE CHLORIDE	ND	1	.5
N-BUTYLBENZENE	ND	1	.2
N-PROPYLBENZENE	ND	1	.2
NAPHTHALENE	ND	2	.5
O-XYLENE	ND	1	.2
SEC-BUTYLBENZENE	ND	1	.2
STYRENE	ND	.5	.2
TERT-BUTYLBENZENE	ND	1	.2
TETRACHLOROETHENE	ND	.5	.2
TOLUENE	ND	.5	.2
TRANS-1,2-DICHLOROETHENE	ND	.5	.2
TRANS-1,3-DICHLOROPROPENE	ND	.5	.2
TRICHLOROETHENE	ND	.5	.2
TRICHLOROFLUOROMETHANE	ND	1	.2
VINYL ACETATE	ND	2	.5
VINYL CHLORIDE	ND	.5	.2
FC 113	ND	1	.2
MTBE	ND	1	.2
XYLENES, TOTAL	ND	2	.7
ACETONE	ND	10	5
2-BUTANONE	ND	5	1
2-HEXANONE	ND	10	5
4-METHYL-2-PENTANONE	ND	10	5

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	102	70-140
4-BROMOFLUOROBENZENE	105	70-130
TOLUENE-D8	106	70-140

QC SUMMARIES

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: ARCADIS	Date Collected:	NA
Project	: OMEGA CHEMICAL	Date Received:	07/21/06
Batch No.	: 06G064	Date Extracted:	07/21/06 18:37
Sample ID:	MBLK1W	Date Analyzed:	07/21/06 18:37
Lab Samp ID:	V005G40Q	Dilution Factor:	1
Lab File ID:	RGQ482	Matrix :	WATER
Ext Btch ID:	V005G40	% Moisture :	NA
Calib. Ref.:	RGQ022	Instrument ID :	T-005

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1	.2
1,1,1-TRICHLOROETHANE	ND	.5	.2
1,1,2,2-TETRACHLOROETHANE	ND	.5	.2
1,1,2-TRICHLOROETHANE	ND	.5	.2
1,1-DICHLOROETHANE	ND	.5	.2
1,1-DICHLOROETHENE	ND	.5	.2
1,1-DICHLOROPROPENE	ND	.5	.2
1,2,3-TRICHLOROBENZENE	ND	1	.2
1,2,4-TRICHLOROBENZENE	ND	1	.2
1,2,4-TRIMETHYLBENZENE	ND	.5	.2
1,2-DIBROMO-3-CHLOROPROPANE	ND	1	.5
1,2-DICHLOROBENZENE	ND	.5	.2
1,2-DICHLOROETHANE	ND	.5	.2
1,2-DICHLOROPROPANE	ND	.5	.2
1,2-DIBROMOETHANE	ND	.5	.2
1,3,5-TRIMETHYLBENZENE	ND	1	.2
1,3-DICHLOROBENZENE	ND	.5	.2
1,3-DICHLOROPROPANE	ND	.5	.2
1,4-DICHLOROBENZENE	ND	.5	.2
2,2-DICHLOROPROPANE	ND	1	.2
2-CHLOROTOLUENE	ND	1	.2
4-CHLOROTOLUENE	ND	1	.2
BENZENE	ND	.5	.2
BROMODICHLOROMETHANE	ND	.5	.2
BROMOFORM	ND	.5	.3
BROMOMETHANE	ND	.5	.2
CARBON DISULFIDE	ND	1	.2
CARBON TETRACHLORIDE	ND	.5	.2
CHLOROBENZENE	ND	1	.2
CHLOROETHANE	ND	.5	.2
CHLOROFORM	ND	1	.2
CHLOROMETHANE	ND	1	.2
CIS-1,2-DICHLOROETHENE	ND	.5	.2
CIS-1,3-DICHLOROPROPENE	ND	.5	.2
CYCLOHEXANE	ND	1	.2
DIBROMOCHLOROMETHANE	ND	1	.2
DIBROMOMETHANE	ND	1	.2
DICHLORODIFLUOROMETHANE	ND	1	.3
ETHYLBENZENE	ND	.5	.2
HEXACHLOROBUTADIENE	ND	1	.2
ISOPROPYL BENZENE	ND	.5	.2
M/P-XYLENES	ND	1	.5
METHYL ACETATE	ND	1	.5
METHYLCYCLOHEXANE	ND	1	.2
METHYLENE CHLORIDE	ND	1	.5
N-BUTYLBENZENE	ND	1	.2
N-PROPYLBENZENE	ND	1	.2
NAPHTHALENE	ND	2	.5
O-XYLENE	ND	1	.2
SEC-BUTYLBENZENE	ND	1	.2
STYRENE	ND	.5	.2
TERT-BUTYLBENZENE	ND	1	.2
TETRACHLOROETHENE	ND	.5	.2
TOLUENE	ND	.5	.2
TRANS-1,2-DICHLOROETHENE	ND	.5	.2
TRANS-1,3-DICHLOROPROPENE	ND	.5	.2
TRICHLOROETHENE	ND	.5	.2
TRICHLOROFLUOROMETHANE	ND	1	.2
VINYL ACETATE	ND	2	.5
VINYL CHLORIDE	ND	.5	.2
FC 113	ND	1	.2
MTBE	ND	1	.2
XYLENES, TOTAL	ND	2	.7
ACETONE	ND	10	5
2-BUTANONE	ND	5	1
2-HEXANONE	ND	10	5
4-METHYL-2-PENTANONE	ND	10	5

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	107	70-140
4-BROMOFLUOROBENZENE	107	70-130
TOLUENE-D8	102	70-130

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: ARCADIS
PROJECT: OMEGA CHEMICAL
BATCH NO.: 06G064
METHOD: SW 5030B/8260B

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	VO05G40Q	VO05G40L	VO05G40C		
LAB FILE ID:	RGQ482	RGQ479	RGQ480		
DATE EXTRACTED:	07/21/0618:37	07/21/0616:47	07/21/0617:24	DATE COLLECTED:	NA
DATE ANALYZED:	07/21/0618:37	07/21/0616:47	07/21/0617:24	DATE RECEIVED:	07/21/06
PREP. BATCH:	VO05G40	VO05G40	VO05G40		
CALIB. REF:	RGQ022	RGQ022	RGQ022		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	10	8.73	87	10	8.84	88	1	70-130	30
Benzene	ND	10	10	100	10	10.4	104	3	70-130	30
Chlorobenzene	ND	10	10.3	103	10	10.4	104	1	70-130	30
Toluene	ND	10	10.5	105	10	10.7	107	2	70-130	30
Trichloroethene	ND	10	9.66	97	10	10.1	101	4	70-130	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	10	10.5	105	10	10.2	102	70-140
4-Bromofluorobenzene	10	10	100	10	9.95	99	70-130
Toluene-d8	10	10.5	105	10	10.4	104	70-130

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: ARCADIS	Date Collected:	NA
Project	: OMEGA CHEMICAL	Date Received:	07/25/06
Batch No.	: 06G064	Date Extracted:	07/25/06 03:03
Sample ID:	MBLK2W	Date Analyzed:	07/25/06 03:03
Lab Samp ID:	V005G46Q	Dilution Factor:	1
Lab File ID:	RGQ544	Matrix :	WATER
Ext Btch ID:	V005G46	% Moisture :	NA
Calib. Ref.:	RGQ022	Instrument ID :	T-005

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1	.2
1,1,1-TRICHLOROETHANE	ND	.5	.2
1,1,2,2-TETRACHLOROETHANE	ND	.5	.2
1,1,2-TRICHLOROETHANE	ND	.5	.2
1,1-DICHLOROETHANE	ND	.5	.2
1,1-DICHLOROETHENE	ND	.5	.2
1,1-DICHLOROPROPENE	ND	.5	.2
1,2,3-TRICHLOROBENZENE	ND	1	.2
1,2,4-TRICHLOROBENZENE	ND	1	.2
1,2,4-TRIMETHYLBENZENE	ND	.5	.2
1,2-DIBROMO-3-CHLOROPROPANE	ND	1	.5
1,2-DICHLOROBENZENE	ND	.5	.2
1,2-DICHLOROETHANE	ND	.5	.2
1,2-DICHLOROPROPANE	ND	.5	.2
1,2-DIBROMOETHANE	ND	.5	.2
1,3,5-TRIMETHYLBENZENE	ND	1	.2
1,3-DICHLOROBENZENE	ND	.5	.2
1,3-DICHLOROPROPANE	ND	.5	.2
1,4-DICHLOROBENZENE	ND	.5	.2
2,2-DICHLOROPROPANE	ND	1	.2
2-CHLOROTOLUENE	ND	1	.2
4-CHLOROTOLUENE	ND	1	.2
BENZENE	ND	.5	.2
BROMODICHLOROMETHANE	ND	.5	.2
BROMOFORM	ND	.5	.3
BROMOMETHANE	ND	.5	.2
CARBON DISULFIDE	ND	1	.2
CARBON TETRACHLORIDE	ND	.5	.2
CHLOROBENZENE	ND	1	.2
CHLOROETHANE	ND	.5	.2
CHLOROFORM	ND	1	.2
CHLOROMETHANE	ND	1	.2
CIS-1,2-DICHLOROETHENE	ND	.5	.2
CIS-1,3-DICHLOROPROPENE	ND	.5	.2
CYCLOHEXANE	ND	1	.2
DIBROMOCHLOROMETHANE	ND	1	.2
DIBROMOMETHANE	ND	1	.2
DICHLORODIFLUOROMETHANE	ND	1	.3
ETHYLBENZENE	ND	.5	.2
HEXACHLOROBUTADIENE	ND	1	.2
ISOPROPYL BENZENE	ND	.5	.2
M/P-XYLENES	ND	1	.5
METHYL ACETATE	ND	1	.5
METHYLCYCLOHEXANE	ND	1	.2
METHYLENE CHLORIDE	ND	1	.5
N-BUTYLBENZENE	ND	1	.2
N-PROPYLBENZENE	ND	1	.2
NAPHTHALENE	ND	2	.5
O-XYLENE	ND	1	.2
SEC-BUTYLBENZENE	ND	1	.2
STYRENE	ND	.5	.2
TERT-BUTYLBENZENE	ND	1	.2
TETRACHLOROETHENE	ND	.5	.2
TOLUENE	ND	.5	.2
TRANS-1,2-DICHLOROETHENE	ND	.5	.2
TRANS-1,3-DICHLOROPROPENE	ND	.5	.2
TRICHLOROETHENE	ND	.5	.2
TRICHLOROFLUOROMETHANE	ND	1	.2
VINYL ACETATE	ND	2	.5
VINYL CHLORIDE	ND	.5	.2
FC 113	ND	1	.2
MTBE	ND	1	.2
XYLENES, TOTAL	ND	2	.7
ACETONE	ND	10	5
2-BUTANONE	ND	5	1
2-HEXANONE	ND	10	5
4-METHYL-2-PENTANONE	ND	10	5

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	111	70-140
4-BROMOFLUOROBENZENE	100	70-130
TOLUENE-D8	101	70-130

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: ARCADIS
PROJECT: OMEGA CHEMICAL
BATCH NO.: 06G064
METHOD: SW 5030B/8260B

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK2W				
LAB SAMP ID:	VO05G46Q	VO05G46L	VO05G46C		
LAB FILE ID:	RGQ544	RGQ541	RGQ542		
DATE EXTRACTED:	07/25/0603:03	07/25/0601:12	07/25/0601:49	DATE COLLECTED:	NA
DATE ANALYZED:	07/25/0603:03	07/25/0601:12	07/25/0601:49	DATE RECEIVED:	07/25/06
PREP. BATCH:	VO05G46	VO05G46	VO05G46		
CALIB. REF:	RGQ022	RGQ022	RGQ022		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1-Dichloroethene	ND	10	9.19	92	10	9.27	93	1	70-130	30
Benzene	ND	10	10.6	106	10	10.6	106	0	70-130	30
Chlorobenzene	ND	10	10.6	106	10	10.6	106	0	70-130	30
Toluene	ND	10	11.1	111	10	11	110	0	70-130	30
Trichloroethene	ND	10	10.3	103	10	10.2	102	0	70-130	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	10	10.4	104	10	10.5	105	70-140
4-Bromofluorobenzene	10	10.1	101	10	10	100	70-130
Toluene-d8	10	10.4	104	10	10.3	103	70-130

LABORATORY REPORT FOR

ARCADIS

OMEGA CHEMICAL

METHOD 5030B/8260B
1,2,3-TRICHLOROPROPANE BY 8260/SIM

SDG#: 06G064

CASE NARRATIVE

CLIENT: **ARCADIS**

PROJECT: **OMEGA CHEMICAL**

SDG: **06G064**

METHOD 5030B/8260B
1, 2, 3-TRICHLOROPROPANE BY 8260/SIM

Five (5) water samples were received on 07/12/06 for 1, 2, 3-Trichloropropane by 8260/SIM analysis by Method 5030B/8260B in accordance with USEPA SW846, 3rd ed.

1. **Holding Time**

   Analytical holding time was met.

2. **Tuning and Calibration**

   Tuning and calibration were carried out at 12-hour interval. All QC requirements were met.

3. **Method Blank**

   Method blank was free of contamination at the reporting limit.

4. **Surrogate Recovery**

   Recoveries were within QC limit.

5. **Lab Control Sample/Lab Control Sample Duplicate**

   Recoveries were within QC limit.

6. **Matrix Spike/Matrix Spike Duplicate**

   No MS/MSD sample was designated in this SDG.

7. **Sample Analysis**

   Samples were analyzed according to the prescribed QC procedures. All criteria were met.

LAB CHRONICLE
1,2,3-Trichloropropane by 8260/SIM

Client : ARCADIS
Project : OMEGA CHEMICAL

SDG NO. : 06G064
Instrument ID : T-002

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	V002G06Q	1	NA	07/17/0612:05	07/17/0612:05	RGP053	RAP020	V002G06	Method Blank
LCS1W	V002G06L	1	NA	07/17/0610:44	07/17/0610:44	RGP050	RAP020	V002G06	Lab Control Sample (LCS)
LCD1W	V002G06C	1	NA	07/17/0611:10	07/17/0611:10	RGP051	RAP020	V002G06	LCS Duplicate
OC2-PMW17A-0-37	G064-01	1	NA	07/17/0617:38	07/17/0617:38	RGP065	RAP020	V002G06	Field Sample
OC2-PMW17B-0-38	G064-02	1	NA	07/17/0618:06	07/17/0618:06	RGP066	RAP020	V002G06	Field Sample
OC2-PMW17C-0-39	G064-03	1	NA	07/17/0618:34	07/17/0618:34	RGP067	RAP020	V002G06	Field Sample
OC2-PMW19-0-34	G064-04	1	NA	07/17/0619:02	07/17/0619:02	RGP068	RAP020	V002G06	Field Sample
OC2-PMW21-0-40	G064-05	1	NA	07/17/0619:30	07/17/0619:30	RGP069	RAP020	V002G06	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

SW 5030B/8260B
1,2,3-Trichloropropane by 8260/SIM

Client	: ARCADIS	Date Collected:	07/11/06
Project	: OMEGA CHEMICAL	Date Received:	07/12/06
Batch No.	: 06G064	Date Extracted:	07/17/06 17:38
Sample ID:	OC2-PMW17A-0-37	Date Analyzed:	07/17/06 17:38
Lab Samp ID:	G064-01	Dilution Factor:	1
Lab File ID:	RGP065	Matrix :	WATER
Ext Btch ID:	VO02G06	% Moisture :	NA
Calib. Ref.:	RAP020	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,2,3-TRICHLOROPROPANE	ND	.005	.0025

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TOLUENE-D8	58	50-150

RL: Reporting Limit

SW 5030B/8260B
1,2,3-Trichloropropane by 8260/SIM

Client	: ARCADIS	Date Collected:	07/12/06
Project	: OMEGA CHEMICAL	Date Received:	07/12/06
Batch No.	: 06G064	Date Extracted:	07/17/06 18:06
Sample ID:	OC2-PMW17B-0-38	Date Analyzed:	07/17/06 18:06
Lab Samp ID:	G064-02	Dilution Factor:	1
Lab File ID:	RGP066	Matrix :	WATER
Ext Btch ID:	VOO2G06	% Moisture :	NA
Calib. Ref.:	RAP020	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,2,3-TRICHLOROPROPANE	ND	.005	.0025

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TOLUENE-D8	53	50-150

RL: Reporting Limit

SW 5030B/8260B
1,2,3-Trichloropropane by 8260/SIM

Client	: ARCADIS	Date Collected:	07/12/06
Project	: OMEGA CHEMICAL	Date Received:	07/12/06
Batch No.	: 06G064	Date Extracted:	07/17/06 18:34
Sample ID:	OC2-PMW17C-0-39	Date Analyzed:	07/17/06 18:34
Lab Samp ID:	G064-03	Dilution Factor:	1
Lab File ID:	RGP067	Matrix :	WATER
Ext Btch ID:	VOO2G06	% Moisture :	NA
Calib. Ref.:	RAP020	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,2,3-TRICHLOROPROPANE	ND	.005	.0025

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TOLUENE-D8	53	50-150

RL: Reporting Limit

SW 5030B/8260B
1,2,3-Trichloropropane by 8260/SIM

Client	: ARCADIS	Date Collected:	07/12/06
Project	: OMEGA CHEMICAL	Date Received:	07/12/06
Batch No.	: 06G064	Date Extracted:	07/17/06 19:02
Sample ID:	OC2-PMW19-0-34	Date Analyzed:	07/17/06 19:02
Lab Samp ID:	G064-04	Dilution Factor:	1
Lab File ID:	RGP068	Matrix :	WATER
Ext Btch ID:	VOO2G06	% Moisture :	NA
Calib. Ref.:	RAP020	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,2,3-TRICHLOROPROPANE	ND	.005	.0025

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TOLUENE-D8	58	50-150

RL: Reporting Limit

SW 5030B/8260B
1,2,3-Trichloropropane by 8260/SIM

Client	: ARCADIS	Date Collected:	07/12/06
Project	: OMEGA CHEMICAL	Date Received:	07/12/06
Batch No.	: 06G064	Date Extracted:	07/17/06 19:30
Sample ID:	OC2-PMW21-0-40	Date Analyzed:	07/17/06 19:30
Lab Samp ID:	G064-05	Dilution Factor:	1
Lab File ID:	RGP069	Matrix :	WATER
Ext Btch ID:	VO02G06	% Moisture :	NA
Calib. Ref.:	RAP020	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,2,3-TRICHLOROPROPANE	ND	.005	.0025

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TOLUENE-D8	65	50-150

RL: Reporting Limit

QC SUMMARIES

SW 5030B/8260B
1,2,3-Trichloropropane by 8260/SIM

Client	: ARCADIS	Date Collected:	NA
Project	: OMEGA CHEMICAL	Date Received:	07/17/06
Batch No.	: 06G064	Date Extracted:	07/17/06 12:05
Sample ID:	MBLK1W	Date Analyzed:	07/17/06 12:05
Lab Samp ID:	VO02G06Q	Dilution Factor:	1
Lab File ID:	RGP053	Matrix :	WATER
Ext Btch ID:	VO02G06	% Moisture :	NA
Calib. Ref.:	RAP020	Instrument ID :	T-002

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,2,3-TRICHLOROPROPANE	ND	.005	.0025

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TOLUENE-D8	68	50-150

RL: Reporting Limit

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: ARCADIS
PROJECT: OMEGA CHEMICAL
BATCH NO.: 06G064
METHOD: SW 5030B/8260B

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	V002G06Q	V002G06L	V002G06C		
LAB FILE ID:	RGP053	RGP050	RGP051		
DATE EXTRACTED:	07/17/0612:05	07/17/0610:44	07/17/0611:10	DATE COLLECTED:	NA
DATE ANALYZED:	07/17/0612:05	07/17/0610:44	07/17/0611:10	DATE RECEIVED:	07/17/06
PREP. BATCH:	V002G06	V002G06	V002G06		
CALIB. REF:	RAP020	RAP020	RAP020		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,2,3-Trichloropropane	ND	.05	.046	92	.05	.044	88	4	50-150	20

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
Toluene-d8	.05	.0314	63	.05	.0296	59	50-150

LABORATORY REPORT FOR

ARCADIS

OMEGA CHEMICAL

METHOD 3520C/8270C
SEMI VOLATILE ORGANICS BY GC/MS

SDG#: 06G064

CASE NARRATIVE

CLIENT: **ARCADIS**

PROJECT: **OMEGA CHEMICAL**

SDG: **06G064**

METHOD 3520C/8270C
SEMI VOLATILE ORGANICS BY GC/MS

Three (3) water samples were received on 07/12/06 for Semi Volatile Organic analysis by Method 3520C/8270C in accordance with USEPA SW846, 3rd edition.

1. **Holding Time**

   Analytical holding time was met.

2. **Tuning and Calibration**

   Tuning and calibration were carried out at 12-hour interval. All QC requirements were met.

3. **Method Blank**

   Method blank was free of contamination at the reporting limit.

4. **Surrogate Recovery**

   Recoveries were within QC limit.

5. **Lab Control Sample/Lab Control Sample Duplicate**

   Recoveries were within QC limit.

6. **Matrix Spike/Matrix Spike Duplicate**

   No MS/MSD sample was analyzed for this SDG.

7. **Sample Analysis**

   Samples were analyzed according to the prescribed QC procedures. All criteria were met.

LAB CHRONICLE
SEMI VOLATILE ORGANICS BY GC/MS

Client : ARCADIS
Project : OMEGA CHEMICAL

SDG NO. : 06G064
Instrument ID : T-042

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	SVG017WB	1	NA	07/20/0615:33	07/17/0613:00	RGX118	REX298	SVG017W	Method Blank
LCS1W	SVG017WL	1	NA	07/20/0615:59	07/17/0613:00	RGX119	REX298	SVG017W	Lab Control Sample (LCS)
LCD1W	SVG017WC	1	NA	07/20/0616:24	07/17/0613:00	RGX120	REX298	SVG017W	LCS Duplicate
OC2-PMW17B-0-38	G064-02	.94	NA	07/20/0620:36	07/17/0613:00	RGX130	REX298	SVG017W	Field Sample
OC2-PMW17C-0-39	G064-03	.94	NA	07/20/0621:01	07/17/0613:00	RGX131	REX298	SVG017W	Field Sample
OC2-PMW21-0-40	G064-05	.94	NA	07/20/0621:26	07/17/0613:00	RGX132	REX298	SVG017W	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 3520C/8270C
SEMI VOLATILE ORGANICS BY GC/MS

Client	: ARCADIS	Date Collected:	07/12/06
Project	: OMEGA CHEMICAL	Date Received:	07/12/06
Batch No.	: 06G064	Date Extracted:	07/17/06 13:00
Sample ID:	OC2-PMW17B-0-38	Date Analyzed:	07/20/06 20:36
Lab Samp ID:	G064-02	Dilution Factor:	.94
Lab File ID:	RGX130	Matrix :	WATER
Ext Btch ID:	SVG017W	% Moisture :	NA
Calib. Ref.:	REX298	Instrument ID :	T-042

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
2,4,5-TRICHLOROPHENOL	ND	9.4	4.7
2,4,6-TRICHLOROPHENOL	ND	9.4	4.7
2,4-DICHLOROPHENOL	ND	9.4	4.7
2,4-DIMETHYLPHENOL	ND	9.4	4.7
2,4-DINITROPHENOL	ND	19	4.7
2,4-DINITROTOLUENE	ND	9.4	4.7
2,6-DINITROTOLUENE	ND	9.4	4.7
2-CHLORONAPHTHALENE	ND	9.4	4.7
2-CHLOROPHENOL	ND	9.4	4.7
2-METHYLNAPHTHALENE	ND	9.4	4.7
2-METHYLPHENOL	ND	9.4	4.7
2-NITROANILINE	ND	9.4	4.7
3,3'-DICHLOROBENZIDINE	ND	9.4	4.7
3-NITROANILINE	ND	9.4	4.7
4,6-DINITRO-2-METHYLPHENOL	ND	19	4.7
4-BROMOPHENYL-PHENYL ETHER	ND	9.4	4.7
4-CHLORO-3-METHYLPHENOL	ND	9.4	4.7
4-CHLOROANILINE	ND	9.4	4.7
4-CHLOROPHENYL-PHENYL ETHER	ND	9.4	4.7
4-METHYLPHENOL (1)	ND	9.4	4.7
4-NITROANILINE	ND	9.4	4.7
4-NITROPHENOL	ND	19	4.7
ACENAPHTHENE	ND	9.4	4.7
ACENAPHTHYLENE	ND	9.4	4.7
ANTHRACENE	ND	9.4	4.7
BENZO(A)ANTHRACENE	ND	9.4	4.7
BENZO(B)FLUORANTHENE	ND	9.4	4.7
BENZO(K)FLUORANTHENE	ND	9.4	4.7
BENZO(G,H,I)PERYLENE	ND	9.4	4.7
BIS(2-CHLOROETHOXY)METHANE	ND	9.4	4.7
BIS(2-CHLOROETHYL)ETHER	ND	9.4	4.7
BIS(2-CHLOROISOPROPYL)ETHER	ND	9.4	4.7
BUTYLBENZYLPHTHALATE	ND	9.4	4.7
CHRYSENE	ND	9.4	4.7
DI-N-BUTYLPHTHALATE	ND	9.4	4.7
DIBENZO(A,H)ANTHRACENE	ND	9.4	4.7
DIBENZOFURAN	ND	9.4	4.7
DIETHYLPHTHALATE	ND	9.4	4.7
DIMETHYLPHTHALATE	ND	9.4	4.7
FLUORANTHENE	ND	9.4	4.7
FLUORENE	ND	9.4	4.7
HEXACHLOROCYCLOPENTADIENE	ND	9.4	4.7
HEXACHLOROETHANE	ND	9.4	4.7
INDENO(1,2,3-CD)PYRENE	ND	9.4	4.7
ISOPHORONE	ND	9.4	4.7
PHENANTHRENE	ND	9.4	4.7
PHENOL	ND	9.4	4.7
PYRENE	ND	9.4	4.7
ANILINE	ND	19	4.7
BENZOIC ACID	ND	19	4.7
BENZYL ALCOHOL	ND	9.4	4.7
CARBAZOLE	ND	9.4	4.7
PYRIDINE	ND	38	4.7
ACETOPHENONE	ND	9.4	4.7
BENZALDEHYDE	ND	9.4	4.7
1,1-BIPHENYL	ND	9.4	4.7
CAPROLACTAM	ND	9.4	4.7

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
2,4,6-TRIBROMOPHENOL	77	30-150
2-FLUOROBIPHENYL	75	30-130
2-FLUOROPHENOL	60	20-130
NITROBENZENE-D5	64	30-130
PHENOL-D5	58	30-130
TERPHENYL-D14	95	30-130

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine

METHOD 3520C/8270C
SEMI VOLATILE ORGANICS BY GC/MS

Client	: ARCADIS	Date Collected:	07/12/06
Project	: OMEGA CHEMICAL	Date Received:	07/12/06
Batch No.	: 06G064	Date Extracted:	07/17/06 13:00
Sample ID:	OC2-PMW17C-0-39	Date Analyzed:	07/20/06 21:01
Lab Samp ID:	G064-03	Dilution Factor:	.94
Lab File ID:	RGX131	Matrix	: WATER
Ext Btch ID:	SVG017W	% Moisture	: NA
Calib. Ref.:	REX298	Instrument ID	: T-042

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
2,4,5-TRICHLOROPHENOL	ND	9.4	4.7
2,4,6-TRICHLOROPHENOL	ND	9.4	4.7
2,4-DICHLOROPHENOL	ND	9.4	4.7
2,4-DIMETHYLPHENOL	ND	9.4	4.7
2,4-DINITROPHENOL	ND	19	4.7
2,4-DINITROTOLUENE	ND	9.4	4.7
2,6-DINITROTOLUENE	ND	9.4	4.7
2-CHLORONAPHTHALENE	ND	9.4	4.7
2-CHLOROPHENOL	ND	9.4	4.7
2-METHYLNAPHTHALENE	ND	9.4	4.7
2-METHYLPHENOL	ND	9.4	4.7
2-NITROANILINE	ND	9.4	4.7
3,3'-DICHLOROBENZIDINE	ND	9.4	4.7
3-NITROANILINE	ND	9.4	4.7
4,6-DINITRO-2-METHYLPHENOL	ND	19	4.7
4-BROMOPHENYL-PHENYL ETHER	ND	9.4	4.7
4-CHLORO-3-METHYLPHENOL	ND	9.4	4.7
4-CHLOROANILINE	ND	9.4	4.7
4-CHLOROPHENYL-PHENYL ETHER	ND	9.4	4.7
4-METHYLPHENOL (1)	ND	9.4	4.7
4-NITROANILINE	ND	9.4	4.7
4-NITROPHENOL	ND	19	4.7
ACENAPHTHENE	ND	9.4	4.7
ACENAPHTHYLENE	ND	9.4	4.7
ANTHRACENE	ND	9.4	4.7
BENZO(A)ANTHRACENE	ND	9.4	4.7
BENZO(B)FLUORANTHENE	ND	9.4	4.7
BENZO(K)FLUORANTHENE	ND	9.4	4.7
BENZO(G,H,I)PERYLENE	ND	9.4	4.7
BIS(2-CHLOROETHOXY)METHANE	ND	9.4	4.7
BIS(2-CHLOROETHYL)ETHER	ND	9.4	4.7
BIS(2-CHLOROISOPROPYL)ETHER	ND	9.4	4.7
BUTYLBENZYLPHTHALATE	ND	9.4	4.7
CHRYSENE	ND	9.4	4.7
DI-N-BUTYLPHTHALATE	ND	9.4	4.7
DIBENZO(A,H)ANTHRACENE	ND	9.4	4.7
DIBENZOFURAN	ND	9.4	4.7
DIETHYLPHTHALATE	ND	9.4	4.7
DIMETHYLPHTHALATE	ND	9.4	4.7
FLUORANTHENE	ND	9.4	4.7
FLUORENE	ND	9.4	4.7
HEXACHLOROCYCLOPENTADIENE	ND	9.4	4.7
HEXACHLOROETHANE	ND	9.4	4.7
INDENO(1,2,3-CD)PYRENE	ND	9.4	4.7
ISOPHORONE	ND	9.4	4.7
PHENANTHRENE	ND	9.4	4.7
PHENOL	ND	9.4	4.7
PYRENE	ND	9.4	4.7
ANILINE	ND	19	4.7
BENZOIC ACID	ND	19	4.7
BENZYL ALCOHOL	ND	9.4	4.7
CARBAZOLE	ND	9.4	4.7
PYRIDINE	ND	38	4.7
ACETOPHENONE	ND	9.4	4.7
BENZALDEHYDE	ND	9.4	4.7
1,1-BIPHENYL	ND	9.4	4.7
CAPROLACTAM	ND	9.4	4.7

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
2,4,6-TRIBROMOPHENOL	72	30-150
2-FLUOROBIPHENYL	73	30-130
2-FLUOROPHENOL	57	20-130
NITROBENZENE-D5	62	30-130
PHENOL-D5	61	30-130
TERPHENYL-D14	92	30-130

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine

METHOD 3520C/8270C
SEMI VOLATILE ORGANICS BY GC/MS

Client	: ARCADIS	Date Collected:	07/12/06
Project	: OMEGA CHEMICAL	Date Received:	07/12/06
Batch No.	: 06G064	Date Extracted:	07/17/06 13:00
Sample ID:	OC2-PMW21-0-40	Date Analyzed:	07/20/06 21:26
Lab Samp ID:	G064-05	Dilution Factor:	.94
Lab File ID:	RGX132	Matrix	: WATER
Ext Btch ID:	SVG017W	% Moisture	: NA
Calib. Ref.:	REX298	Instrument ID	: T-042

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
2,4,5-TRICHLOROPHENOL	ND	9.4	4.7
2,4,6-TRICHLOROPHENOL	ND	9.4	4.7
2,4-DICHLOROPHENOL	ND	9.4	4.7
2,4-DIMETHYLPHENOL	ND	9.4	4.7
2,4-DINITROPHENOL	ND	19	4.7
2,4-DINITROTOLUENE	ND	9.4	4.7
2,6-DINITROTOLUENE	ND	9.4	4.7
2-CHLORONAPHTHALENE	ND	9.4	4.7
2-CHLOROPHENOL	ND	9.4	4.7
2-METHYLNAPHTHALENE	ND	9.4	4.7
2-METHYLPHENOL	ND	9.4	4.7
2-NITROANILINE	ND	9.4	4.7
3,3'-DICHLOROBENZIDINE	ND	9.4	4.7
3-NITROANILINE	ND	9.4	4.7
4,6-DINITRO-2-METHYLPHENOL	ND	19	4.7
4-BROMOPHENYL-PHENYL ETHER	ND	9.4	4.7
4-CHLORO-3-METHYLPHENOL	ND	9.4	4.7
4-CHLOROANILINE	ND	9.4	4.7
4-CHLOROPHENYL-PHENYL ETHER	ND	9.4	4.7
4-METHYLPHENOL (1)	ND	9.4	4.7
4-NITROANILINE	ND	9.4	4.7
4-NITROPHENOL	ND	19	4.7
ACENAPHTHENE	ND	9.4	4.7
ACENAPHTHYLENE	ND	9.4	4.7
ANTHRACENE	ND	9.4	4.7
BENZO(A)ANTHRACENE	ND	9.4	4.7
BENZO(B)FLUORANTHENE	ND	9.4	4.7
BENZO(K)FLUORANTHENE	ND	9.4	4.7
BENZO(G,H,I)PERYLENE	ND	9.4	4.7
BIS(2-CHLOROETHOXY)METHANE	ND	9.4	4.7
BIS(2-CHLOROETHYL)ETHER	ND	9.4	4.7
BIS(2-CHLOROISOPROPYL)ETHER	ND	9.4	4.7
BUTYLBENZYLPHTHALATE	ND	9.4	4.7
CHRYSENE	ND	9.4	4.7
DI-N-BUTYLPHTHALATE	ND	9.4	4.7
DIBENZO(A,H)ANTHRACENE	ND	9.4	4.7
DIBENZOFURAN	ND	9.4	4.7
DIETHYLPHTHALATE	ND	9.4	4.7
DIMETHYLPHTHALATE	ND	9.4	4.7
FLUORANTHENE	ND	9.4	4.7
FLUORENE	ND	9.4	4.7
HEXACHLOROCYCLOPENTADIENE	ND	9.4	4.7
HEXACHLOROETHANE	ND	9.4	4.7
INDENO(1,2,3-CD)PYRENE	ND	9.4	4.7
ISOPHORONE	ND	9.4	4.7
PHENANTHRENE	ND	9.4	4.7
PHENOL	ND	9.4	4.7
PYRENE	ND	9.4	4.7
ANILINE	ND	19	4.7
BENZOIC ACID	ND	19	4.7
BENZYL ALCOHOL	ND	9.4	4.7
CARBAZOLE	ND	9.4	4.7
PYRIDINE	ND	38	4.7
ACETOPHENONE	ND	9.4	4.7
BENZALDEHYDE	ND	9.4	4.7
1,1-BIPHENYL	ND	9.4	4.7
CAPROLACTAM	ND	9.4	4.7

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
2,4,6-TRIBROMOPHENOL	67	30-150
2-FLUOROBIPHENYL	61	30-130
2-FLUOROPHENOL	50	20-130
NITROBENZENE-D5	53	30-130
PHENOL-D5	55	30-130
TERPHENYL-D14	93	30-130

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine

QC SUMMARIES

METHOD 3520C/8270C
SEMI VOLATILE ORGANICS BY GC/MS

Client	: ARCADIS	Date Collected:	NA
Project	: OMEGA CHEMICAL	Date Received:	07/17/06
Batch No.	: 06G064	Date Extracted:	07/17/06 13:00
Sample ID:	MBLK1W	Date Analyzed:	07/20/06 15:33
Lab Samp ID:	SVG017WB	Dilution Factor:	1
Lab File ID:	RGX118	Matrix :	WATER
Ext Btch ID:	SVG017W	% Moisture :	NA
Calib. Ref.:	REX298	Instrument ID :	T-042

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
2,4,5-TRICHLOROPHENOL	ND	10	5
2,4,6-TRICHLOROPHENOL	ND	10	5
2,4-DICHLOROPHENOL	ND	10	5
2,4-DIMETHYLPHENOL	ND	10	5
2,4-DINITROPHENOL	ND	20	5
2,4-DINITROTOLUENE	ND	10	5
2,6-DINITROTOLUENE	ND	10	5
2-CHLORONAPHTHALENE	ND	10	5
2-CHLOROPHENOL	ND	10	5
2-METHYLNAPHTHALENE	ND	10	5
2-METHYLPHENOL	ND	10	5
2-NITROANILINE	ND	10	5
3,3'-DICHLOROBENZIDINE	ND	10	5
3-NITROANILINE	ND	10	5
4,6-DINITRO-2-METHYLPHENOL	ND	20	5
4-BROMOPHENYL-PHENYL ETHER	ND	10	5
4-CHLORO-3-METHYLPHENOL	ND	10	5
4-CHLOROANILINE	ND	10	5
4-CHLOROPHENYL-PHENYL ETHER	ND	10	5
4-METHYLPHENOL (1)	ND	10	5
4-NITROANILINE	ND	10	5
4-NITROPHENOL	ND	20	5
ACENAPHTHENE	ND	10	5
ACENAPHTHYLENE	ND	10	5
ANTHRACENE	ND	10	5
BENZO(A)ANTHRACENE	ND	10	5
BENZO(B)FLUORANTHENE	ND	10	5
BENZO(K)FLUORANTHENE	ND	10	5
BENZO(G,H,I)PERYLENE	ND	10	5
BIS(2-CHLOROETHOXY)METHANE	ND	10	5
BIS(2-CHLOROETHYL)ETHER	ND	10	5
BIS(2-CHLOROISOPROPYL)ETHER	ND	10	5
BUTYLBENZYLPHTHALATE	ND	10	5
CHRYSENE	ND	10	5
DI-N-BUTYLPHTHALATE	ND	10	5
DIBENZO(A,H)ANTHRACENE	ND	10	5
DIBENZOFURAN	ND	10	5
DIETHYLPHTHALATE	ND	10	5
DIMETHYLPHTHALATE	ND	10	5
FLUORANTHENE	ND	10	5
FLUORENE	ND	10	5
HEXACHLOROCYCLOPENTADIENE	ND	10	5
HEXACHLOROETHANE	ND	10	5
INDENO(1,2,3-CD)PYRENE	ND	10	5
ISOPHORONE	ND	10	5
PHENANTHRENE	ND	10	5
PHENOL	ND	10	5
PYRENE	ND	10	5
ANILINE	ND	20	5
BENZOIC ACID	ND	20	5
BENZYL ALCOHOL	ND	10	5
CARBAZOLE	ND	10	5
PYRIDINE	ND	40	5
ACETOPHENONE	ND	10	5
BENZALDEHYDE	ND	10	5
1,1-BIPHENYL	ND	10	5
CAPROLACTAM	ND	10	5

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
2,4,6-TRIBROMOPHENOL	53	40-140
2-FLUOROBIPHENYL	48	40-130
2-FLUOROPHENOL	41	30-130
NITROBENZENE-D5	41	40-130
PHENOL-D5	44	30-130
TERPHENYL-D14	88	50-130

(1): Cannot be separated from 3-Methylphenol
(2): Cannot be separated from Diphenylamine

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: ARCADIS
PROJECT: OMEGA CHEMICAL
BATCH NO.: 06G064
METHOD: METHOD 3520C/8270C

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	SVG017WB	SVG017WL	SVG017WC		
LAB FILE ID:	RGX118	RGX119	RGX120		
DATE EXTRACTED:	07/17/0613:00	07/17/0613:00	07/17/0613:00	DATE COLLECTED:	NA
DATE ANALYZED:	07/20/0615:33	07/20/0615:59	07/20/0616:24	DATE RECEIVED:	07/17/06
PREP. BATCH:	SVG017W	SVG017W	SVG017W		
CALIB. REF:	REX298	REX298	REX298		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
2,4-Dinitrotoluene	ND	80	60.6	76	80	58.5	73	3	40-130	30
2-Chlorophenol	ND	80	40.3	50	80	38.5	48	4	30-130	30
4-Chloro-3-Methylphenol	ND	80	48.7	61	80	48	60	1	40-130	30
4-Nitrophenol	ND	80	57.4	72	80	59.3	74	3	30-130	30
Acenaphthene	ND	80	47.4	59	80	44.9	56	5	40-130	30
Phenol	ND	80	41.5	52	80	37.9	47	9	20-130	30
Pyrene	ND	80	61.3	77	80	62.2	78	2	50-130	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
2,4,6-Tribromophenol	150	103	68	150	112	74	40-140
2-Fluorobiphenyl	50	32.5	65	50	31	62	40-130
2-Fluorophenol	150	71.8	48	150	70.2	47	30-130
Nitrobenzene-d5	50	26.8	54	50	28.9	58	40-130
Phenol-d5	150	79	53	150	77	51	30-130
Terphenyl-d14	50	46.6	93	50	49.6	99	50-130

LABORATORY REPORT FOR

ARCADIS

OMEGA CHEMICAL

METHOD 3520C/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

SDG#: 06G064

CASE NARRATIVE

CLIENT: **ARCADIS**

PROJECT: **OMEGA CHEMICAL**

SDG: **06G064**

METHOD 3520C/8270C SIM
SEMI VOLATILE ORGANICS BY GC/MS

Three (3) water samples were received on 07/12/06 for Semi Volatile Organic analysis by Method 3520C/8270C SIM in accordance with USEPA SW846, 3rd ed.

1. **Holding Time**

   Analytical holding time was met.

2. **Tuning and Calibration**

   Tuning and calibration were carried out at 12-hour interval. All QC requirements were met.

3. **Method Blank**

   Method blank was free of contamination at the reporting limit.

4. **Surrogate Recovery**

   Recoveries were within QC limit.

5. **Lab Control Sample/Lab Control Sample Duplicate**

   Recoveries were within QC limit.

6. **Matrix Spike/Matrix Spike Duplicate**

   No MS/MSD sample was designated in this SDG.

7. **Sample Analysis**

   Samples were analyzed according to the prescribed QC procedures. All criteria were met.

LAB CHRONICLE
SEMI VOLATILE ORGANICS BY GC/MS

Client : ARCADIS
Project : OMEGA CHEMICAL

SDG NO. : 06G064
Instrument ID : T-048

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	SVG017WB	1	NA	07/20/0616:29	07/17/0613:00	RGZ094	RFZ008	SVG017W	Method Blank
LCS1W	SVG017WL	8	NA	07/20/0616:47	07/17/0613:00	RGZ095	RFZ008	SVG017W	Lab Control Sample (LCS)
LCD1W	SVG017WC	8	NA	07/20/0617:06	07/17/0613:00	RGZ096	RFZ008	SVG017W	LCS Duplicate
OC2-PMW17B-0-38	G064-02	.94	NA	07/20/0619:37	07/17/0613:00	RGZ104	RFZ008	SVG017W	Field Sample
OC2-PMW17C-0-39	G064-03	.94	NA	07/20/0619:56	07/17/0613:00	RGZ105	RFZ008	SVG017W	Field Sample
OC2-PMW21-0-40	G064-05	.94	NA	07/20/0620:15	07/17/0613:00	RGZ106	RFZ008	SVG017W	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 3520C/8270C SIM

SEMI VOLATILE ORGANICS BY GC/MS

Client : ARCADIS	Date Collected: 07/12/06
Project : OMEGA CHEMICAL	Date Received: 07/12/06
Batch No. : 06G064	Date Extracted: 07/17/06 13:00
Sample ID: OC2-PMW17B-0-38	Date Analyzed: 07/20/06 19:37
Lab Samp ID: G064-02	Dilution Factor: .94
Lab File ID: RGZ104	Matrix : WATER
Ext Btch ID: SVG017W	% Moisture : NA
Calib. Ref.: RFZ008	Instrument ID : T-048

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
BENZO(A)PYRENE	ND	.19	.094
BIS(2-ETHYLHEXYL)PHTHALATE	1.4J	1.9	.94
HEXACHLOROBENZENE	ND	.94	.47
PENTACHLOROPHENOL	ND	.94	.47

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TERPHENYL-D14	81	30-130
PHENOL-D5	57	30-130

METHOD 3520C/8270C SIM

SEMI VOLATILE ORGANICS BY GC/MS

Client	: ARCADIS	Date Collected:	07/12/06
Project	: OMEGA CHEMICAL	Date Received:	07/12/06
Batch No.	: 06G064	Date Extracted:	07/17/06 13:00
Sample ID:	OC2-PMW17C-0-39	Date Analyzed:	07/20/06 19:56
Lab Samp ID:	G064-03	Dilution Factor:	.94
Lab File ID:	RGZ105	Matrix :	WATER
Ext Btch ID:	SVG017W	% Moisture :	NA
Calib. Ref.:	RFZ008	Instrument ID :	T-048

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
BENZO(A)PYRENE	ND	.19	.094
BIS(2-ETHYLHEXYL)PHTHALATE	ND	1.9	.94
HEXACHLOROBENZENE	ND	.94	.47
PENTACHLOROPHENOL	ND	.94	.47

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TERPHENYL-D14	83	30-130
PHENOL-D5	59	30-130

METHOD 3520C/8270C SIM

SEMI VOLATILE ORGANICS BY GC/MS

Client : ARCADIS	Date Collected: 07/12/06
Project : OMEGA CHEMICAL	Date Received: 07/12/06
Batch No. : 06G064	Date Extracted: 07/17/06 13:00
Sample ID: OC2-PMW21-0-40	Date Analyzed: 07/20/06 20:15
Lab Samp ID: G064-05	Dilution Factor: .94
Lab File ID: RGZ106	Matrix : WATER
Ext Btch ID: SVG017W	% Moisture : NA
Calib. Ref.: RFZ008	Instrument ID : T-048

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
BENZO(A)PYRENE	ND	.19	.094
BIS(2-ETHYLHEXYL)PHTHALATE	2	1.9	.94
HEXACHLOROBENZENE	ND	.94	.47
PENTACHLOROPHENOL	ND	.94	.47

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TERPHENYL-D14	79	30-130
PHENOL-D5	59	30-130

SECOND SOURCE VERIFICATION

METHOD 3520C/8270C SIM

SEMI VOLATILE ORGANICS BY GC/MS

Client : ARCADIS	Date Collected: NA
Project : OMEGA CHEMICAL	Date Received: 07/17/06
Batch No. : 06G064	Date Extracted: 07/17/06 13:00
Sample ID: MBLK1W	Date Analyzed: 07/20/06 16:29
Lab Samp ID: SVG017WB	Dilution Factor: 1
Lab File ID: RGZ094	Matrix : WATER
Ext Btch ID: SVG017W	% Moisture : NA
Calib. Ref.: RFZ008	Instrument ID : T-048

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
BENZO(A)PYRENE	ND	.2	.1
BIS(2-ETHYLHEXYL)PHTHALATE	1J	2	1
HEXACHLOROBENZENE	ND	1	.5
PENTACHLOROPHENOL	ND	1	.5

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
TERPHENYL-D14	72	30-130
PHENOL-D5	47	30-130

EMAX QUALITY CONTROL DATA

LCS/LCD ANALYSIS

CLIENT: ARCADIS

PROJECT: OMEGA CHEMICAL

BATCH NO.: 06G064

METHOD: METHOD 3520C/8270C SIM

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MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	8	8		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	SVG017WB	SVG017WL	SVG017WC		
LAB FILE ID:	RGZ094	RGZ095	RGZ096		
DATE EXTRACTED:	07/17/0613:00	07/17/0613:00	07/17/0613:00	DATE COLLECTED:	NA
DATE ANALYZED:	07/20/0616:29	07/20/0616:47	07/20/0617:06	DATE RECEIVED:	07/17/06
PREP. BATCH:	SVG017W	SVG017W	SVG017W		
CALIB. REF:	RFZ008	RFZ008	RFZ008		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Benzo(a)pyrene	ND	80	41.7	52	80	44.7	56	7	50-130	30
bis(2-Ethylhexyl)phthalate	1J	80	48.8	60	80	51.4	63	5	30-150	30
Hexachlorobenzene	ND	80	41.9	52	80	45.1	56	7	20-130	30
Pentachlorophenol	ND	80	49.5	62	80	54.8	68	10	10-140	30

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SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
Terphenyl-d14	50	28.3	57	50	30.6	61	30-130
Phenol-d5	150	62.5	42	150	65	43	30-130

LABORATORY REPORT FOR

ARCADIS

OMEGA CHEMICAL

METHOD 3520C/8270C SIM
1,4-DIOXANE BY GC/MS

SDG#: 06G064

CASE NARRATIVE

CLIENT: **ARCADIS**

PROJECT: **OMEGA CHEMICAL**

SDG: **06G064**

METHOD 3520C/8270C SIM
1,4-DIOXANE BY 8270C

Three (3) water samples were received on 07/12/06 for 1,4-Dioxane analysis by Method 3520C/8270C SIM in accordance with USEPA SW846, 3rd ed.

1. **Holding Time**

   Analytical holding time was met.

2. **Tuning and Calibration**

   Tuning and calibration were carried out at 12-hour interval. All QC requirements were met.

3. **Method Blank**

   Method blank was free of contamination at the reporting limit.

4. **Surrogate Recovery**

   Recoveries were within QC limit.

5. **Lab Control Sample/Lab Control Sample Duplicate**

   Recoveries were within QC limit. RPD was above QC.

6. **Matrix Spike/Matrix Spike Duplicate**

   No MS/MSD sample was designated in this SDG.

7. **Sample Analysis**

   Samples were analyzed according to the prescribed QC procedures. All criteria were met.

LAB CHRONICLE
SEMI VOLATILE ORGANICS BY GC/MS

Client : ARCADIS
Project : OMEGA CHEMICAL

SDG NO. : 06G064
Instrument ID : T-052

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	SVG015WB	1	NA	07/19/0613:47	07/14/0612:00	RGK047	RFK067	SVG015W	Method Blank
LCS1W	SVG015WL	1	NA	07/19/0613:58	07/14/0612:00	RGK048	RFK067	SVG015W	Lab Control Sample (LCS)
LCD1W	SVG015WC	1	NA	07/19/0614:08	07/14/0612:00	RGK049	RFK067	SVG015W	LCS Duplicate
OC2-PMW17B-0-38	G064-02	.94	NA	07/19/0615:36	07/14/0612:00	RGK057	RFK067	SVG015W	Field Sample
OC2-PMW17C-0-39	G064-03	.94	NA	07/19/0615:47	07/14/0612:00	RGK058	RFK067	SVG015W	Field Sample
OC2-PMW21-0-40	G064-05	.94	NA	07/19/0615:57	07/14/0612:00	RGK059	RFK067	SVG015W	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 3520C/8270C SIM

SEMI VOLATILE ORGANICS BY GC/MS

Client	: ARCADIS	Date Collected:	07/12/06
Project	: OMEGA CHEMICAL	Date Received:	07/12/06
Batch No.	: 06G064	Date Extracted:	07/14/06 12:00
Sample ID:	OC2-PMW17B-0-38	Date Analyzed:	07/19/06 15:36
Lab Samp ID:	G064-02	Dilution Factor:	.94
Lab File ID:	RGK057	Matrix :	WATER
Ext Btch ID:	SVG015W	% Moisture :	NA
Calib. Ref.:	RFK067	Instrument ID :	T-052

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,4-DIOXANE	2.2	1.9	.94

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	74	18-132

METHOD 3520C/8270C SIM

SEMI VOLATILE ORGANICS BY GC/MS

Client	: ARCADIS	Date Collected:	07/12/06
Project	: OMEGA CHEMICAL	Date Received:	07/12/06
Batch No.	: 06G064	Date Extracted:	07/14/06 12:00
Sample ID:	OC2-PMW17C-0-39	Date Analyzed:	07/19/06 15:47
Lab Samp ID:	G064-03	Dilution Factor:	.94
Lab File ID:	RGK058	Matrix :	WATER
Ext Btch ID:	SVG015W	% Moisture :	NA
Calib. Ref.:	RFK067	Instrument ID :	T-052

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,4-DIOXANE	ND	1.9	.94

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	57	18-132

METHOD 3520C/8270C SIM

SEMI VOLATILE ORGANICS BY GC/MS

Client : ARCADIS	Date Collected: 07/12/06
Project : OMEGA CHEMICAL	Date Received: 07/12/06
Batch No. : 06G064	Date Extracted: 07/14/06 12:00
Sample ID: OC2-PMW21-0-40	Date Analyzed: 07/19/06 15:57
Lab Samp ID: G064-05	Dilution Factor: .94
Lab File ID: RGK059	Matrix : WATER
Ext Btch ID: SVG015W	% Moisture : NA
Calib. Ref.: RFK067	Instrument ID : T-052

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,4-DIOXANE	2.4	1.9	.94

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	64	18-132

QC SUMMARIES

METHOD 3520C/8270C SIM

SEMI VOLATILE ORGANICS BY GC/MS

Client : ARCADIS	Date Collected: NA
Project : OMEGA CHEMICAL	Date Received: 07/14/06
Batch No. : 06G064	Date Extracted: 07/14/06 12:00
Sample ID: MBLK1W	Date Analyzed: 07/19/06 13:47
Lab Samp ID: SVG015WB	Dilution Factor: 1
Lab File ID: RGK047	Matrix : WATER
Ext Btch ID: SVG015W	% Moisture : NA
Calib. Ref.: RFK067	Instrument ID : T-052

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,4-DIOXANE	ND	2	1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	48	18-132

EMAX QUALITY CONTROL DATA

LCS/LCD ANALYSIS

CLIENT: ARCADIS

PROJECT: OMEGA CHEMICAL

BATCH NO.: 06G064

METHOD: METHOD 3520C/8270C SIM

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	SVG015WB	SVG015WL	SVG015WC		
LAB FILE ID:	RGK047	RGK048	RGK049		
DATE EXTRACTED:	07/14/0612:00	07/14/0612:00	07/14/0612:00	DATE COLLECTED:	NA
DATE ANALYZED:	07/19/0613:47	07/19/0613:58	07/19/0614:08	DATE RECEIVED:	07/14/06
PREP. BATCH:	SVG015W	SVG015W	SVG015W		
CALIB. REF:	RFK067	RFK067	RFK067		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,4-Dioxane	ND	40	16.2	41	40	23	58	35*	40-130	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
Bromobenzene	40	16.1	40	40	20.9	52	18-132

LABORATORY REPORT FOR

ARCADIS

OMEGA CHEMICAL

DISSOLVED
METALS / MERCURY

SDG#: 06G064

CASE NARRATIVE

CLIENT: **ARCADIS**

PROJECT: **OMEGA CHEMICAL**

SDG: **06G064**

METHOD 6020A
DISSOLVED METALS BY ICP-MS

Three (3) water samples were received on 07/12/06 for Dissolved Metals analysis by Method 6020A accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW846, 3rd edition.

1. Holding Time

Analysis met holding time criteria.

2. Method Blank

Method blank was free of contamination at the reporting limit.

3. Lab Control Sample/Lab Control Sample Duplicate

Lab control results were within QC limit.

4. Serial Dilution / Post-Analytical Spike

Sample G064-02 was analyzed for serial dilution and post-analytical spike. All QC requirements were met.

5. Matrix Spike/Matrix Spike Duplicate

No MS/MSD sample was designated in this SDG.

6. Sample Analysis

Samples were analyzed according to the prescribed QC procedures. All criteria were met.

LAB CHRONICLE
DISSOLVED METALS BY ICP-MS

Client : ARCADIS
Project : OMEGA CHEMICAL

SDG NO. : 06G064
Instrument ID : T-I98

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	IMG011WB	1	NA	07/25/0606:15	07/17/0613:30	98G23060	98G23058	IMG011W	Method Blank
LCS1W	IMG011WL	1	NA	07/25/0606:23	07/17/0613:30	98G23061	98G23058	IMG011W	Lab Control Sample (LCS)
LCD1W	IMG011WC	1	NA	07/25/0606:32	07/17/0613:30	98G23062	98G23058	IMG011W	LCS Duplicate
OC2-PMW17B-0-38AS	G064-02A	1	NA	07/25/0606:40	07/17/0613:30	98G23063	98G23058	IMG011W	Analytical Spike Sample
OC2-PMW17B-0-38	G064-02	1	NA	07/25/0606:49	07/17/0613:30	98G23064	98G23058	IMG011W	Field Sample
OC2-PMW17B-0-38DL	G064-02J	5	NA	07/25/0606:57	07/17/0613:30	98G23065	98G23058	IMG011W	Diluted Sample
OC2-PMW17C-0-39	G064-03	1	NA	07/25/0607:06	07/17/0613:30	98G23066	98G23058	IMG011W	Field Sample
OC2-PMW21-0-40	G064-05	1	NA	07/25/0607:14	07/17/0613:30	98G23067	98G23058	IMG011W	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 6020A
DISSOLVED METALS BY ICP-MS

Client	: ARCADIS	Date Collected:	07/12/06
Project	: OMEGA CHEMICAL	Date Received:	07/12/06
SDG NO.	: 06G064	Date Extracted:	07/17/06 13:30
Sample ID:	OC2-PMW17B-0-38	Date Analyzed:	07/25/06 06:49
Lab Samp ID:	G064-02	Dilution Factor:	1
Lab File ID:	98G23064	Matrix :	WATER
Ext Btch ID:	IMG011W	% Moisture :	NA
Calib. Ref.:	98G23058	Instrument ID :	EMAXTI98

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
Aluminum	ND	1000	200
Antimony	ND	.5	.25
Arsenic	1.18	.5	.25
Barium	32.6	.5	.25
Beryllium	ND	.5	.25
Boron	285	10	5
Cadmium	ND	1	.5
Calcium	166000	1000	200
Chromium	17.3	.5	.25
Cobalt	.854	.5	.25
Copper	1.93	.5	.25
Iron	ND	1000	200
Lead	ND	1	.5
Magnesium	47300	1000	200
Manganese	.691J	1	.5
Molybdenum	2.2	2	1
Nickel	1.51	.5	.25
Potassium	5140	1000	200
Selenium	25	1	.5
Silver	ND	1	.5
Sodium	95300	1000	200
Thallium	ND	1	.5
Vanadium	4.64	1	.5
Zinc	22	10	5

METHOD 6020A
DISSOLVED METALS BY ICP-MS

Client	: ARCADIS	Date Collected:	07/12/06
Project	: OMEGA CHEMICAL	Date Received:	07/12/06
SDG NO.	: 06G064	Date Extracted:	07/17/06 13:30
Sample ID:	OC2-PMW17C-0-39	Date Analyzed:	07/25/06 07:06
Lab Samp ID:	G064-03	Dilution Factor:	1
Lab File ID:	98G23066	Matrix :	WATER
Ext Btch ID:	IMG011W	% Moisture :	NA
Calib. Ref.:	98G23058	Instrument ID :	EMAXTI98

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
Aluminum	ND	1000	200
Antimony	.304J	.5	.25
Arsenic	2.37	.5	.25
Barium	49.8	.5	.25
Beryllium	ND	.5	.25
Boron	81.8	10	5
Cadmium	ND	1	.5
Calcium	100000	1000	200
Chromium	4.05	.5	.25
Cobalt	.42J	.5	.25
Copper	.939	.5	.25
Iron	ND	1000	200
Lead	ND	1	.5
Magnesium	21300	1000	200
Manganese	ND	1	.5
Molybdenum	4.33	2	1
Nickel	.578	.5	.25
Potassium	4040	1000	200
Selenium	20.7	1	.5
Silver	ND	1	.5
Sodium	46200	1000	200
Thallium	ND	1	.5
Vanadium	5.14	1	.5
Zinc	13.4	10	5

METHOD 6020A
DISSOLVED METALS BY ICP-MS

Client	: ARCADIS	Date Collected:	07/12/06
Project	: OMEGA CHEMICAL	Date Received:	07/12/06
SDG NO.	: 06G064	Date Extracted:	07/17/06 13:30
Sample ID:	OC2-PMW21-0-40	Date Analyzed:	07/25/06 07:14
Lab Samp ID:	G064-05	Dilution Factor:	1
Lab File ID:	98G23067	Matrix :	WATER
Ext Btch ID:	IMG011W	% Moisture :	NA
Calib. Ref.:	98G23058	Instrument ID :	EMAXTI98

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
Aluminum	ND	1000	200
Antimony	ND	.5	.25
Arsenic	1.23	.5	.25
Barium	36.5	.5	.25
Beryllium	ND	.5	.25
Boron	293	10	5
Cadmium	ND	1	.5
Calcium	123000	1000	200
Chromium	3.13	.5	.25
Cobalt	.647	.5	.25
Copper	1.42	.5	.25
Iron	ND	1000	200
Lead	ND	1	.5
Magnesium	27800	1000	200
Manganese	7.42	1	.5
Molybdenum	1.96J	2	1
Nickel	1.46	.5	.25
Potassium	4870	1000	200
Selenium	6.98	1	.5
Silver	ND	1	.5
Sodium	85700	1000	200
Thallium	ND	1	.5
Vanadium	3.12	1	.5
Zinc	13.3	10	5

METHOD 6020A
DISSOLVED METALS BY ICP-MS

Client	: ARCADIS	Date Collected:	NA
Project	: OMEGA CHEMICAL	Date Received:	07/17/06
SDG NO.	: 06G064	Date Extracted:	07/17/06 13:30
Sample ID:	MBLK1W	Date Analyzed:	07/25/06 06:15
Lab Samp ID:	IMG011WB	Dilution Factor:	1
Lab File ID:	98G23060	Matrix :	WATER
Ext Btch ID:	IMG011W	% Moisture :	NA
Calib. Ref.:	98G23058	Instrument ID :	EMAXTI98

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
Aluminum	ND	1000	200
Antimony	ND	.5	.25
Arsenic	ND	.5	.25
Barium	ND	.5	.25
Beryllium	ND	.5	.25
Boron	ND	10	5
Cadmium	ND	1	.5
Calcium	ND	1000	200
Chromium	ND	.5	.25
Cobalt	ND	.5	.25
Copper	.355J	.5	.25
Iron	ND	1000	200
Lead	ND	1	.5
Magnesium	ND	1000	200
Manganese	ND	1	.5
Molybdenum	ND	2	1
Nickel	ND	.5	.25
Potassium	ND	1000	200
Selenium	ND	1	.5
Silver	ND	1	.5
Sodium	ND	1000	200
Thallium	ND	1	.5
Vanadium	ND	1	.5
Zinc	ND	10	5

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: ARCADIS
PROJECT: OMEGA CHEMICAL
SDG NO.: 06G064
METHOD: METHOD 6020A

MATRIX:	WATER			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1W				
CONTROL NO.:	IMG011WB	IMG011WL	IMG011WC		
LAB FILE ID:	98G23060	98G23061	98G23062		
DATIME EXTRCTD:	07/17/0613:30	07/17/0613:30	07/17/0613:30	DATE COLLECTED:	NA
DATIME ANALYZD:	07/25/0606:15	07/25/0606:23	07/25/0606:32	DATE RECEIVED:	07/17/06
PREP. BATCH:	IMG011W	IMG011W	IMG011W		
CALIB. REF:	98G23058	98G23058	98G23058		

ACCESSION:

PARAMETER	BLNK RSLT ug/L	SPIKE AMT ug/L	BS RSLT ug/L	BS % REC	SPIKE AMT ug/L	BSD RSLT ug/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	5000	5150	103	5000	5180	104	1	80-120	20
Antimony	ND	50	52.2	104	50	51.8	104	1	80-120	20
Arsenic	ND	50	51.9	104	50	50	100	4	80-120	20
Barium	ND	50	52.2	104	50	51.6	103	1	80-120	20
Beryllium	ND	50	50.5	101	50	50.7	101	0	80-120	20
Boron	ND	50	49.9	100	50	49.8	100	0	80-120	20
Cadmium	ND	50	49.4	99	50	48.9	98	1	80-120	20
Calcium	ND	5000	5100	102	5000	5130	102	1	80-120	20
Chromium	ND	50	50.1	100	50	51	102	2	80-120	20
Cobalt	ND	50	53.2	106	50	53.2	106	0	80-120	20
Copper	.355J	50	50.6	101	50	51.2	102	1	80-120	20
Iron	ND	5000	5170	103	5000	5180	104	0	80-120	20
Lead	ND	50	51.4	103	50	51.2	102	0	80-120	20
Magnesium	ND	5000	5130	103	5000	5130	103	0	80-120	20
Manganese	ND	50	53.2	106	50	52.9	106	1	80-120	20
Molybdenum	ND	50	50.7	101	50	50.6	101	0	80-120	20
Nickel	ND	50	50.8	102	50	51.1	102	1	80-120	20
Potassium	ND	5000	5190	104	5000	5290	106	2	80-120	20
Selenium	ND	50	53	106	50	52.8	106	1	80-120	20
Silver	ND	50	49.8	100	50	48.2	96	3	80-120	20
Sodium	ND	5000	4980	100	5000	4980	100	0	80-120	20
Thallium	ND	50	49.5	99	50	49.6	99	0	80-120	20
Vanadium	ND	50	50.8	102	50	50.9	102	0	80-120	20
Zinc	ND	50	56.4	113	50	56.4	113	0	80-120	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: ARCADIS
PROJECT: OMEGA CHEMICAL
BATCH NO.: 06G064
METHOD: METHOD 6020A

MATRIX: WATER % MOISTURE: NA
DILUTION FACTOR: 1 5
SAMPLE ID: OC2-PMW17B-0-38OC2-PMW17B-0-3
EMAX SAMP ID: G064-02 G064-02J
LAB FILE ID: 98G23064 98G23065
DATE EXTRACTED: 07/17/0613:30 07/17/0613:30 DATE COLLECTED: 07/12/06
DATE ANALYZED: 07/25/0606:49 07/25/0606:57 DATE RECEIVED: 07/12/06
PREP. BATCH: IMG011W IMG011W
CALIB. REF: 98G23058 98G23058

ACCESSION:

PARAMETER	SMPL RSLT (ug/L)	SERIAL DIL RSLT (ug/L)	DIF RSLT %	QC LIMIT (%)
Aluminum	ND	ND	0	10
Antimony	ND	ND	0	10
Arsenic	1.18	1.37J	NA	10
Barium	32.6	33.2	2	10
Beryllium	ND	ND	0	10
Boron	285	300	5	10
Cadmium	ND	ND	0	10
Calcium	166000	178000	7	10
Chromium	17.3	17.8	3	10
Cobalt	.854	ND	NA	10
Copper	1.93	8.68	351*	10
Iron	ND	ND	0	10
Lead	ND	ND	0	10
Magnesium	47300	50800	7	10
Manganese	.691J	ND	NA	10
Molybdenum	2.2	ND	NA	10
Nickel	1.51	4.46	194*	10
Potassium	5140	5600	9	10
Selenium	25	24.9	1	10
Silver	ND	ND	0	10
Sodium	95300	103000	8	10
Thallium	ND	ND	0	10
Vanadium	4.64	5.75	24*	10
Zinc	22	59.5	170*	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: ARCADIS
PROJECT: OMEGA CHEMICAL
SDG NO.: 06G064
METHOD: METHOD 6020A

==========

MATRIX: WATER % MOISTURE: NA
DILTN FACTR: 1 1
SAMPLE ID: OC2-PMW17B-0-38
CONTROL NO.: G064-02 G064-02A
LAB FILE ID: 98G23064 98G23063
DATIME EXTRCTD: 07/17/0613:30 07/17/0613:30 DATE COLLECTED: 07/12/06
DATIME ANALYZD: 07/25/0606:49 07/25/0606:40 DATE RECEIVED: 07/12/06
PREP. BATCH: IMG011W IMG011W
CALIB. REF: 98G23058 98G23058

ACCESSION:

PARAMETER	SMPL RSLT (ug/L)	SPIKE AMT (ug/L)	AS RSLT (ug/L)	AS % REC	QC LIMIT (%)
Aluminum	ND	5000	4840	97	75-125
Antimony	ND	50	52.1	104	75-125
Arsenic	1.18	50	52.4	102	75-125
Barium	32.6	50	85.2	105	75-125
Beryllium	ND	50	50.5	101	75-125
Boron	285	50	331	94	75-125
Cadmium	ND	50	48.2	96	75-125
Calcium	166000	5000	169000	74*	75-125
Chromium	17.3	50	66.2	98	75-125
Cobalt	.854	50	48.5	95	75-125
Copper	1.93	50	48.6	93	75-125
Iron	ND	5000	4670	93	75-125
Lead	ND	50	52.3	105	75-125
Magnesium	47300	5000	51400	84	75-125
Manganese	.691J	50	49.4	97	75-125
Molybdenum	2.2	50	53.7	103	75-125
Nickel	1.51	50	48.3	94	75-125
Potassium	5140	5000	9880	95	75-125
Selenium	25	50	76.1	102	75-125
Silver	ND	50	48.9	98	75-125
Sodium	95300	5000	99100	75	75-125
Thallium	ND	50	50.7	101	75-125
Vanadium	4.64	50	54.2	99	75-125
Zinc	22	50	65	86	75-125

CASE NARRATIVE

CLIENT: **ARCADIS**

PROJECT: **OMEGA CHEMICAL**

SDG: **06G064**

METHOD 7470A
DISSOLVED MERCURY BY COLD VAPOR

Three (3) water samples were received on 07/12/06 for Dissolved Mercury analysis by Method 7470A in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW846, 3rd edition.

1. **Holding Time**

   Analysis met holding time criteria.

2. **Method Blank**

   Method blank was free of contamination at the reporting limit.

3. **Lab Control Sample/Lab Control Sample Duplicate**

   Lab control results were within QC limit.

4. **Serial Dilution / Post-Analytical Spike**

   Sample G064-02 was analyzed for serial dilution and post-analytical spike. All QC requirements were met.

5. **Matrix Spike/Matrix Spike Duplicate**

   No MS/MSD sample was designated in this SDG.

6. **Sample Analysis**

   Samples were analyzed according to the prescribed QC procedures. All criteria were met.

LAB CHRONICLE
DISSOLVED MERCURY BY COLD VAPOR

Client : ARCADIS
Project : OMEGA CHEMICAL

SDG NO. : 06G064
Instrument ID : TI047

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	HGG025WB	1	NA	07/21/0613:56	07/20/0616:00	M47G021010	M47G021008	HGG025W	Method Blank
LCS1W	HGG025WL	1	NA	07/21/0613:58	07/20/0616:00	M47G021011	M47G021008	HGG025W	Lab Control Sample (LCS)
LCD1W	HGG025WC	1	NA	07/21/0614:00	07/20/0616:00	M47G021012	M47G021008	HGG025W	LCS Duplicate
OC2-PMW17B-0-38AS	G064-02A	1	NA	07/21/0614:02	07/20/0616:00	M47G021013	M47G021008	HGG025W	Analytical Spike Sample
OC2-PMW17B-0-38	G064-02	1	NA	07/21/0614:04	07/20/0616:00	M47G021014	M47G021008	HGG025W	Field Sample
OC2-PMW17B-0-38DL	G064-02J	5	NA	07/21/0614:06	07/20/0616:00	M47G021015	M47G021008	HGG025W	Diluted Sample
OC2-PMW17C-0-39	G064-03	1	NA	07/21/0614:08	07/20/0616:00	M47G021016	M47G021008	HGG025W	Field Sample
OC2-PMW21-0-40	G064-05	1	NA	07/21/0614:10	07/20/0616:00	M47G021017	M47G021008	HGG025W	Field Sample

FN - Filename
% Moist - Percent Moisture

METHOD 7470A
DISSOLVED MERCURY BY COLD VAPOR

Client : ARCADIS
Project : OMEGA CHEMICAL
Batch No. : 06G064

Matrix : WATER
Instrument ID : TI047

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/L)	DLF	MOIST	RL (ug/L)	MDL (ug/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	HGG025WB	ND	1	NA	.5	.1	07/21/0613:56	07/20/0616:00	M47G021010	M47G021008	HGG025W	NA	07/20/06
LCS1W	HGG025WL	4.87	1	NA	.5	.1	07/21/0613:58	07/20/0616:00	M47G021011	M47G021008	HGG025W	NA	07/20/06
LCD1W	HGG025WC	4.83	1	NA	.5	.1	07/21/0614:00	07/20/0616:00	M47G021012	M47G021008	HGG025W	NA	07/20/06
OC2-PMW17B-0-38AS	G064-02A	1.88	1	NA	.5	.1	07/21/0614:02	07/20/0616:00	M47G021013	M47G021008	HGG025W	07/12/06	07/12/06
OC2-PMW17B-0-38	G064-02	ND	1	NA	.5	.1	07/21/0614:04	07/20/0616:00	M47G021014	M47G021008	HGG025W	07/12/06	07/12/06
OC2-PMW17B-0-38DL	G064-02J	ND	5	NA	2.5	.5	07/21/0614:06	07/20/0616:00	M47G021015	M47G021008	HGG025W	07/12/06	07/12/06
OC2-PMW17C-0-39	G064-03	ND	1	NA	.5	.1	07/21/0614:08	07/20/0616:00	M47G021016	M47G021008	HGG025W	07/12/06	07/12/06
OC2-PMW21-0-40	G064-05	ND	1	NA	.5	.1	07/21/0614:10	07/20/0616:00	M47G021017	M47G021008	HGG025W	07/12/06	07/12/06

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: ARCADIS
PROJECT: OMEGA CHEMICAL
SDG NO.: 06G064
METHOD: METHOD 7470A

MATRIX:	WATER			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1W				
CONTROL NO.:	HGG025WB	HGG025WL	HGG025WC		
LAB FILE ID:	M47G021010	M47G021011	M47G021012		
DATIME EXTRCTD:	07/20/0616:00	07/20/0616:00	07/20/0616:00	DATE COLLECTED:	NA
DATIME ANALYZD:	07/21/0613:56	07/21/0613:58	07/21/0614:00	DATE RECEIVED:	07/20/06
PREP. BATCH:	HGG025W	HGG025W	HGG025W		
CALIB. REF:	M47G021008	M47G021008	M47G021008		

ACCESSION:

PARAMETER	BLNK RSLT ug/L	SPIKE AMT ug/L	BS RSLT ug/L	BS % REC	SPIKE AMT ug/L	BSD RSLT ug/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Dissolved Mercury	ND	5	4.87	97	5	4.83	97	1	80-120	20

EMAX QUALITY CONTROL DATA
SERIAL DILUTION ANALYSIS

CLIENT: ARCADIS
PROJECT: OMEGA CHEMICAL
BATCH NO.: 06G064
METHOD: METHOD 7470A

MATRIX:	WATER		% MOISTURE:	NA
DILUTION FACTOR:	1	5		
SAMPLE ID:	OC2-PMW17B-0-38	OC2-PMW17B-0-38DL		
EMAX SAMP ID:	G064-02	G064-02J		
LAB FILE ID:	M47G021014	M47G021015		
DATE EXTRACTED:	07/20/0616:00	07/20/0616:00	DATE COLLECTED:	07/12/06
DATE ANALYZED:	07/21/0614:04	07/21/0614:06	DATE RECEIVED:	07/12/06
PREP. BATCH:	HGG025W	HGG025W		
CALIB. REF:	M47G021008	M47G021008		

ACCESSION:

PARAMETER	SMPL RSLT (ug/L)	SERIAL DIL RSLT (ug/L)	DIF RSLT %	QC LIMIT (%)
Dissolved Mercury	ND	ND	0	10

EMAX QUALITY CONTROL DATA
ANALYTICAL SPIKE ANALYSIS

CLIENT: ARCADIS
PROJECT: OMEGA CHEMICAL
SDG NO.: 06G064
METHOD: METHOD 7470A

MATRIX:	WATER		% MOISTURE:	NA
DILTN FACTR:	1	1		
SAMPLE ID:	OC2-PMW17B-0-38			
CONTROL NO.:	G064-02	G064-02A		
LAB FILE ID:	M47G021014	M47G021013		
DATIME EXTRCTD:	07/20/0616:00	07/20/0616:00	DATE COLLECTED:	07/12/06
DATIME ANALYZD:	07/21/0614:04	07/21/0614:02	DATE RECEIVED:	07/12/06
PREP. BATCH:	HGG025W	HGG025W		
CALIB. REF:	M47G021008	M47G021008		

ACCESSION:

PARAMETER	SMPL RSLT (ug/L)	SPIKE AMT (ug/L)	AS RSLT (ug/L)	AS % REC	QC LIMIT (%)
Dissolved Mercury	ND	2	1.88	94	85-115

LABORATORY REPORT FOR

ARCADIS

OMEGA CHEMICAL

WET CHEMICAL ANALYSES

SDG#: 06G064

CASE NARRATIVE

CLIENT: **ARCADIS**

PROJECT: **OMEGA CHEMICAL**

SDG: **06G064**

METHOD 160.1
TOTAL DISSOLVED SOLIDS

Five (5) water samples were received on 07/12/06 for Total Dissolved Solids analysis by Method 160.1 in accordance with "Method for Chemical Analysis of Water and Wastewater", EPA 600/4-79-020 (1983).

1. **Holding Time**

   Analysis met holding time criteria.

2. **Method Blank**

   Method blank was free of contamination at the reporting limit.

3. **Lab Control Sample/Lab Control Sample Duplicate**

   Lab control results were within QC limit.

4. **Duplicate**

   Duplicate sample was not designated in this SDG.

5. **Sample Analysis**

   Samples were analyzed according to the prescribed QC procedures. All criteria were met.

METHOD 160.1
TOTAL DISSOLVED SOLIDS

Client : ARCADIS
Project : OMEGA CHEMICAL
Batch No. : 06G064

Matrix : WATER
Instrument ID : I40706360

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	TDG007WB	ND	1	NA	20	5	07/18/0616:52	07/17/0616:36	TDG007-01	NA	TDG007W	NA	07/17/06
LCS1W	TDG007WL	265	1	NA	20	5	07/18/0616:52	07/17/0616:36	TDG007-02	NA	TDG007W	NA	07/17/06
LCD1W	TDG007WC	280	1	NA	20	5	07/18/0616:52	07/17/0616:36	TDG007-03	NA	TDG007W	NA	07/17/06
OC2-PMW17A-0-37	G064-01	1270	1	NA	20	5	07/18/0616:52	07/17/0616:36	TDG007-18	NA	TDG007W	07/11/06	07/12/06
OC2-PMW17B-0-38	G064-02	1030	1	NA	20	5	07/18/0616:52	07/17/0616:36	TDG007-19	NA	TDG007W	07/12/06	07/12/06
OC2-PMW17C-0-39	G064-03	570	1	NA	20	5	07/18/0616:52	07/17/0616:36	TDG007-20	NA	TDG007W	07/12/06	07/12/06
OC2-PMW19-0-34	G064-04	1260	1	NA	20	5	07/18/0616:52	07/17/0616:36	TDG007-21	NA	TDG007W	07/12/06	07/12/06
OC2-PMW21-0-40	G064-05	760	1	NA	20	5	07/18/0616:52	07/17/0616:36	TDG007-22	NA	TDG007W	07/12/06	07/12/06

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: ARCADIS
PROJECT: OMEGA CHEMICAL
METHOD: METHOD 160.1
MATRIX: WATER
% MOISTURE: NA

BATCH NO.: 06G064
SAMPLE ID: LCS1W/LCD1W
CONTROL NO.: TDG007WL/C

DATE RECEIVED: 07/17/06
DATE EXTRACTED: 07/17/06 16:36
DATE ANALYZED: 07/18/06 16:52/16:52

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
TDS	ND	278	265	95	278	280	101	6	80-120	20

CASE NARRATIVE

CLIENT: **ARCADIS**

PROJECT: **OMEGA CHEMICAL**

SDG: **06G064**

METHOD 218.6
HEXAVALENT CHROMIUM

Five (5) water samples were received on 07/12/06 for Hexavalent Chromium analysis by Method 218.6 in accordance with "Method for Determination of Dissolved Hexavalent Chromium in Drinking Water, Groundwater and Industrial Wastewater Effluent by Ion Chromatography", EPA Rev. 3.0, November, 1991.

1. **Holding Time**

   Analysis met holding time criteria except sample G064-01 was received out of holding time.

2. **Method Blank**

   Method blanks were free of contamination at the reporting limit.

3. **Lab Control Sample/ Lab Control Sample Duplicate**

   All recoveries were within QC limits.

4. **Duplicate**

   Sample G064-01 was analyzed for duplicate. % RPD was within QC limit.

5. **Matrix Spike**

   Sample G064-01 was spiked. Recovery was bias low.

6. **Sample Analysis**

   Samples were analyzed according to the prescribed QC procedures. All QC criteria were met with the aforementioned exception.

SAMPLE RESULTS

METHOD 218.6
HEXAVALENT CHROMIUM

Client : ARCADIS
Project : OMEGA CHEMICAL
Batch No. : 06G064

Matrix : WATER
Instrument ID : I59

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/L)	DLF	MOIST	RL (ug/L)	MDL (ug/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	HCG006WB	ND	1	NA	.2	.1	07/12/0622:44	NA	IG12008	IG12006	HCG006W	NA	NA
LCS1W	HCG006WX	.915	1	NA	.2	.1	07/12/0623:05	NA	IG12010	IG12006	HCG006W	NA	NA
OC2-PMW17C-0-39	G064-03	3.91	1	NA	.2	.1	07/12/0623:26	NA	IG12012	IG12006	HCG006W	07/12/06	07/12/06
OC2-PMW21-0-40	G064-05	2.74	1	NA	.2	.1	07/12/0623:57	NA	IG12013	IG12006	HCG006W	07/12/06	07/12/06
OC2-PMW19-0-34	G064-04	ND	1	NA	.2	.1	07/13/0600:07	NA	IG12014	IG12006	HCG006W	07/12/06	07/12/06
OC2-PMW17A-0-37	G064-01	ND	1	NA	.2	.1	07/13/0600:18	NA	IG12015	IG12006	HCG006W	07/11/06	07/12/06
OC2-PMW17A-0-37DUP	G064-01D	ND	1	NA	.2	.1	07/13/0600:28	NA	IG12016	IG12006	HCG006W	07/11/06	07/12/06
OC2-PMW17A-0-37MS	G064-01M	.745	1	NA	.2	.1	07/13/0600:39	NA	IG12017	IG12006	HCG006W	07/11/06	07/12/06
OC2-PMW17B-0-38	G064-02	17.5	5	NA	1	.5	07/13/0611:42	NA	IG13002	IG13001	HCG007W	07/12/06	07/12/06
MBLK2W	HCG007WB	ND	1	NA	.2	.1	07/13/0611:53	NA	IG13003	IG13001	HCG007W	NA	NA
LCS2W	HCG007WL	.943	1	NA	.2	.1	07/13/0612:22	NA	IG13004	IG13001	HCG007W	NA	NA
LCD2W	HCG007WC	1.06	1	NA	.2	.1	07/13/0620:00	NA	IG13011	IG13008	HCG007W	NA	NA

QC SUMMARIES

EMAX QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: ARCADIS
PROJECT: OMEGA CHEMICAL
BATCH NO.: 06G064
METHOD: METHOD 218.6

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MATRIX:	WATER		% MOISTURE:	NA
DILUTION FACTOR:	1	1		
SAMPLE ID:	MBLK1W			
LAB SAMP ID:	HCG006WB	HCG006WX		
LAB FILE ID:	IG12008	IG12010		
DATE EXTRACTED:	NA	NA	DATE COLLECTED:	NA
DATE ANALYZED:	07/12/0622:44	07/12/0623:05	DATE RECEIVED:	NA
PREP. BATCH:	HCG006W	HCG006W		
CALIB. REF:	IG12006	IG12006		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	QC LIMIT (%)
Hexavalent Chromium	ND	1	.915	92	90-110

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: ARCADIS
PROJECT: OMEGA CHEMICAL
BATCH NO.: 06G064
METHOD: METHOD 218.6

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK2W				
LAB SAMP ID:	HCG007WB	HCG007WL	HCG007WC		
LAB FILE ID:	IG13003	IG13004	IG13011		
DATE EXTRACTED:	NA	NA	NA	DATE COLLECTED:	NA
DATE ANALYZED:	07/13/0611:53	07/13/0612:22	07/13/0620:00	DATE RECEIVED:	NA
PREP. BATCH:	HCG007W	HCG007W	HCG007W		
CALIB. REF:	IG13001	IG13001	IG13008		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Hexavalent Chromium	ND	1	.943	94	1	1.06	106	11	90-110	20

EMAX QUALITY CONTROL DATA
MS ANALYSIS

CLIENT: ARCADIS
PROJECT: OMEGA CHEMICAL
BATCH NO.: 06G064
METHOD: METHOD 218.6

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MATRIX:	WATER		% MOISTURE:	NA
DILUTION FACTOR:	1	1		
SAMPLE ID:	OC2-PMW17A-0-37			
LAB SAMP ID:	G064-01	G064-01M		
LAB FILE ID:	IG12015	IG12017		
DATE EXTRACTED:	NA	NA	DATE COLLECTED:	07/11/06
DATE ANALYZED:	07/13/0600:18	07/13/0600:39	DATE RECEIVED:	07/12/06
PREP. BATCH:	HCG006W	HCG006W		
CALIB. REF:	IG12006	IG12006		

ACCESSION:

PARAMETER	SMPL RSLT (ug/L)	SPIKE AMT (ug/L)	MS RSLT (ug/L)	MS % REC	QC LIMIT (%)
Hexavalent Chromium	ND	1	.745	74*	80-120

EMAX QUALITY CONTROL DATA
DUPLICATE SAMPLE ANALYSIS

CLIENT: ARCADIS
PROJECT: OMEGA CHEMICAL
BATCH NO.: 06G064
METHOD: METHOD 218.6

MATRIX:	WATER		% MOISTURE:	NA
DILUTION FACTOR:	1	1		
SAMPLE ID:	OC2-PMW17A-0-37			
EMAX SAMP ID:	G064-01	G064-01D		
LAB FILE ID:	IG12015	IG12016		
DATE EXTRACTED:	NA	NA	DATE COLLECTED:	07/11/06
DATE ANALYZED:	07/13/0600:18	07/13/0600:28	DATE RECEIVED:	07/12/06
PREP. BATCH:	HCG006W	HCG006W		
CALIB. REF:	IG12006	IG12006		

ACCESSION:

PARAMETER	SMPL RSLT (ug/L)	DUPL RSLT (ug/L)	RPD RSLT %	QC LIMIT (%)
Hexavalent Chromium	ND	ND	0	20

CASE NARRATIVE

CLIENT: **ARCADIS**

PROJECT: **OMEGA CHEMICAL**

SDG: **06G064**

METHOD 300.0
ANIONS

Five (5) water samples were received on 07/12/06 for Anions analyses by method 300.0 in accordance with "Method for Determination of Inorganic Anions by Ion Chromatography", EPA 600/84-017.

1. **Holding Time**

   Analyses met holding time criteria.

2. **Method Blank**

   Method blanks were free of contamination at the reporting limit.

3. **Lab Control Sample/Lab Control Sample Duplicate**

   Lab control results were within QC limits.

4. **Duplicate**

   Duplicate sample was not designated in this SDG.

5. **Matrix Spike**

   MS sample was not designated in this SDG.

6. **Sample Analysis**

   Samples were analyzed according to the prescribed QC procedures. All criteria were met.

SAMPLE RESULTS

METHOD 300.0
BROMIDE

Client : ARCADIS
Project : OMEGA CHEMICAL
Batch No. : 06G064

Matrix : WATER
Instrument ID : I100

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	ICG011WB	ND	1	NA	1	.1	07/13/0604:33	NA	AG12-34	AG12-25	ICG011W	NA	NA
LCS1W	ICG011WL	4.92	1	NA	1	.1	07/13/0604:50	NA	AG12-35	AG12-25	ICG011W	NA	NA
LCD1W	ICG011WC	4.92	1	NA	1	.1	07/13/0605:06	NA	AG12-36	AG12-25	ICG011W	NA	NA
OC2-PMW17A-0-37	G064-01	.869J	1	NA	1	.1	07/13/0612:34	NA	AG12-63	AG12-61	ICG011W	07/11/06	07/12/06
OC2-PMW17B-0-38	G064-02	.601J	1	NA	1	.1	07/13/0612:50	NA	AG12-64	AG12-61	ICG011W	07/12/06	07/12/06
OC2-PMW17C-0-39	G064-03	ND	1	NA	1	.1	07/13/0613:07	NA	AG12-65	AG12-61	ICG011W	07/12/06	07/12/06
OC2-PMW19-0-34	G064-04	1.08	1	NA	1	.1	07/13/0613:23	NA	AG12-66	AG12-61	ICG011W	07/12/06	07/12/06
OC2-PMW21-0-40	G064-05	ND	1	NA	1	.1	07/13/0613:40	NA	AG12-67	AG12-61	ICG011W	07/12/06	07/12/06

METHOD 300.0
CHLORIDE

Client : ARCADIS
Project : OMEGA CHEMICAL
Batch No. : 06G064

Matrix : WATER
Instrument ID : I100

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	ICG021WB	ND	1	NA	1	.1	07/19/0601:53	NA	AG18-33	AG18-25	ICG021W	NA	NA
LCS1W	ICG021WL	4.75	1	NA	1	.1	07/19/0602:09	NA	AG18-34	AG18-25	ICG021W	NA	NA
LCD1W	ICG021WC	4.77	1	NA	1	.1	07/19/0602:26	NA	AG18-35	AG18-25	ICG021W	NA	NA
OC2-PMW17C-0-39	G064-03	38.5	20	NA	20	2	07/19/0603:49	NA	AG18-40	AG18-37	ICG021W	07/12/06	07/12/06
OC2-PMW21-0-40	G064-05	76.9	20	NA	20	2	07/19/0604:22	NA	AG18-42	AG18-37	ICG021W	07/12/06	07/12/06
MBLK2W	ICG023WB	ND	1	NA	1	.1	07/19/0623:49	NA	AG19-34	AG19-25	ICG023W	NA	NA
LCS2W	ICG023WL	4.71	1	NA	1	.1	07/20/0600:06	NA	AG19-35	AG19-25	ICG023W	NA	NA
LCD2W	ICG023WC	4.71	1	NA	1	.1	07/20/0600:22	NA	AG19-36	AG19-25	ICG023W	NA	NA
OC2-PMW17A-0-37	G064-01	88.6	25	NA	25	2.5	07/20/0603:25	NA	AG19-47	AG19-37	ICG023W	07/11/06	07/12/06
OC2-PMW17B-0-38	G064-02	75.1	25	NA	25	2.5	07/20/0603:41	NA	AG19-48	AG19-37	ICG023W	07/12/06	07/12/06
OC2-PMW19-0-34	G064-04	112	25	NA	25	2.5	07/20/0604:31	NA	AG19-51	AG19-49	ICG023W	07/12/06	07/12/06

METHOD 300.0
FLUORIDE

Client : ARCADIS
Project : OMEGA CHEMICAL
Batch No. : 06G064

Matrix : WATER
Instrument ID : I100

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	ICG011WB	ND	1	NA	.1	.05	07/13/0604:33	NA	AG12-34	AG12-25	ICG011W	NA	NA
LCS1W	ICG011WL	1.92	1	NA	.1	.05	07/13/0604:50	NA	AG12-35	AG12-25	ICG011W	NA	NA
LCD1W	ICG011WC	1.9	1	NA	.1	.05	07/13/0605:06	NA	AG12-36	AG12-25	ICG011W	NA	NA
OC2-PMW17A-0-37	G064-01	.301	1	NA	.1	.05	07/13/0612:34	NA	AG12-63	AG12-61	ICG011W	07/11/06	07/12/06
OC2-PMW17B-0-38	G064-02	.268	1	NA	.1	.05	07/13/0612:50	NA	AG12-64	AG12-61	ICG011W	07/12/06	07/12/06
OC2-PMW17C-0-39	G064-03	.327	1	NA	.1	.05	07/13/0613:07	NA	AG12-65	AG12-61	ICG011W	07/12/06	07/12/06
OC2-PMW19-0-34	G064-04	.257	1	NA	.1	.05	07/13/0613:23	NA	AG12-66	AG12-61	ICG011W	07/12/06	07/12/06
OC2-PMW21-0-40	G064-05	.261	1	NA	.1	.05	07/13/0613:40	NA	AG12-67	AG12-61	ICG011W	07/12/06	07/12/06

METHOD 300.0
NITRATE-N

Client : ARCADIS
Project : OMEGA CHEMICAL
Batch No. : 06G064

Matrix : WATER
Instrument ID : I100

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	ICG011WB	ND	1	NA	.1	.05	07/13/0604:33	NA	AG12-34	AG12-25	ICG011W	NA	NA
LCS1W	ICG011WL	1.88	1	NA	.1	.05	07/13/0604:50	NA	AG12-35	AG12-25	ICG011W	NA	NA
LCD1W	ICG011WC	1.88	1	NA	.1	.05	07/13/0605:06	NA	AG12-36	AG12-25	ICG011W	NA	NA
OC2-PMW17C-0-39	G064-03	4.3	1	NA	.1	.05	07/13/0613:07	NA	AG12-65	AG12-61	ICG011W	07/12/06	07/12/06
OC2-PMW19-0-34	G064-04	.205	1	NA	.1	.05	07/13/0613:23	NA	AG12-66	AG12-61	ICG011W	07/12/06	07/12/06
OC2-PMW17A-0-37	G064-01	5.19	5	NA	.5	.25	07/13/0613:56	NA	AG12-68	AG12-61	ICG011W	07/11/06	07/12/06
MBLK2W	ICG012WB	ND	1	NA	.1	.05	07/13/0617:54	NA	AG13-04	AG13-01	ICG012W	NA	NA
LCS2W	ICG012WL	1.86	1	NA	.1	.05	07/13/0618:10	NA	AG13-05	AG13-01	ICG012W	NA	NA
LCD2W	ICG012WC	1.86	1	NA	.1	.05	07/13/0618:27	NA	AG13-06	AG13-01	ICG012W	NA	NA
OC2-PMW17B-0-38	G064-02	10.3	5	NA	.5	.25	07/13/0618:43	NA	AG13-07	AG13-01	ICG012W	07/12/06	07/12/06
OC2-PMW21-0-40	G064-05	6.73	5	NA	.5	.25	07/13/0619:00	NA	AG13-08	AG13-01	ICG012W	07/12/06	07/12/06

METHOD 300.0
NITRITE-N

Client : ARCADIS
Project : OMEGA CHEMICAL
Batch No. : 06G064

Matrix : WATER
Instrument ID : I100

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	ICG011WB	ND	1	NA	.1	.05	07/13/0604:33	NA	AG12-34	AG12-25	ICG011W	NA	NA
LCS1W	ICG011WL	1.85	1	NA	.1	.05	07/13/0604:50	NA	AG12-35	AG12-25	ICG011W	NA	NA
LCD1W	ICG011WC	1.85	1	NA	.1	.05	07/13/0605:06	NA	AG12-36	AG12-25	ICG011W	NA	NA
OC2-PMW17A-0-37	G064-01	ND	1	NA	.1	.05	07/13/0612:34	NA	AG12-63	AG12-61	ICG011W	07/11/06	07/12/06
OC2-PMW17B-0-38	G064-02	ND	1	NA	.1	.05	07/13/0612:50	NA	AG12-64	AG12-61	ICG011W	07/12/06	07/12/06
OC2-PMW17C-0-39	G064-03	ND	1	NA	.1	.05	07/13/0613:07	NA	AG12-65	AG12-61	ICG011W	07/12/06	07/12/06
OC2-PMW19-0-34	G064-04	ND	1	NA	.1	.05	07/13/0613:23	NA	AG12-66	AG12-61	ICG011W	07/12/06	07/12/06
OC2-PMW21-0-40	G064-05	ND	1	NA	.1	.05	07/13/0613:40	NA	AG12-67	AG12-61	ICG011W	07/12/06	07/12/06

METHOD 300.0
ORTHOPHOSPHATE-P

Client : ARCADIS
Project : OMEGA CHEMICAL
Batch No. : 06G064

Matrix : WATER
Instrument ID : I100

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	ICG011WB	ND	1	NA	1	.25	07/13/0604:33	NA	AG12-34	AG12-25	ICG011W	NA	NA
LCS1W	ICG011WL	4.59	1	NA	1	.25	07/13/0604:50	NA	AG12-35	AG12-25	ICG011W	NA	NA
LCD1W	ICG011WC	4.65	1	NA	1	.25	07/13/0605:06	NA	AG12-36	AG12-25	ICG011W	NA	NA
OC2-PMW17A-0-37	G064-01	.266J	1	NA	1	.25	07/13/0612:34	NA	AG12-63	AG12-61	ICG011W	07/11/06	07/12/06
OC2-PMW17B-0-38	G064-02	ND	1	NA	1	.25	07/13/0612:50	NA	AG12-64	AG12-61	ICG011W	07/12/06	07/12/06
OC2-PMW17C-0-39	G064-03	ND	1	NA	1	.25	07/13/0613:07	NA	AG12-65	AG12-61	ICG011W	07/12/06	07/12/06
OC2-PMW19-0-34	G064-04	ND	1	NA	1	.25	07/13/0613:23	NA	AG12-66	AG12-61	ICG011W	07/12/06	07/12/06
OC2-PMW21-0-40	G064-05	ND	1	NA	1	.25	07/13/0613:40	NA	AG12-67	AG12-61	ICG011W	07/12/06	07/12/06

METHOD 300.0
SULFATE

Client : ARCADIS
Project : OMEGA CHEMICAL
Batch No. : 06G064

Matrix : WATER
Instrument ID : I100

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	ICG021WB	ND	1	NA	1	.25	07/19/0601:53	NA	AG18-33	AG18-25	ICG021W	NA	NA
LCS1W	ICG021WL	4.7	1	NA	1	.25	07/19/0602:09	NA	AG18-34	AG18-25	ICG021W	NA	NA
LCD1W	ICG021WC	4.71	1	NA	1	.25	07/19/0602:26	NA	AG18-35	AG18-25	ICG021W	NA	NA
OC2-PMW17C-0-39	G064-03	180	20	NA	20	5	07/19/0603:49	NA	AG18-40	AG18-37	ICG021W	07/12/06	07/12/06
OC2-PMW21-0-40	G064-05	149	20	NA	20	5	07/19/0604:22	NA	AG18-42	AG18-37	ICG021W	07/12/06	07/12/06
MBLK2W	ICG023WB	ND	1	NA	1	.25	07/19/0623:49	NA	AG19-34	AG19-25	ICG023W	NA	NA
LCS2W	ICG023WL	4.59	1	NA	1	.25	07/20/0600:06	NA	AG19-35	AG19-25	ICG023W	NA	NA
LCD2W	ICG023WC	4.54	1	NA	1	.25	07/20/0600:22	NA	AG19-36	AG19-25	ICG023W	NA	NA
OC2-PMW17A-0-37	G064-01	299	25	NA	25	6.25	07/20/0603:25	NA	AG19-47	AG19-37	ICG023W	07/11/06	07/12/06
OC2-PMW17B-0-38	G064-02	332	25	NA	25	6.25	07/20/0603:41	NA	AG19-48	AG19-37	ICG023W	07/12/06	07/12/06
OC2-PMW19-0-34	G064-04	313	25	NA	25	6.25	07/20/0604:31	NA	AG19-51	AG19-49	ICG023W	07/12/06	07/12/06

QC SUMMARIES

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: ARCADIS
PROJECT: OMEGA CHEMICAL
BATCH NO.: 06G064
METHOD: METHOD 300.0

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	ICG011WB	ICG011WL	ICG011WC		
LAB FILE ID:	AG12-34	AG12-35	AG12-36		
DATE EXTRACTED:	NA	NA	NA	DATE COLLECTED:	NA
DATE ANALYZED:	07/13/0604:33	07/13/0604:50	07/13/0605:06	DATE RECEIVED:	NA
PREP. BATCH:	ICG011W	ICG011W	ICG011W		
CALIB. REF:	AG12-25	AG12-25	AG12-25		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Bromide	ND	5	4.92	98	5	4.92	98	0	90-110	20

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EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: ARCADIS
PROJECT: OMEGA CHEMICAL
BATCH NO.: 06G064
METHOD: METHOD 300.0

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	ICG021WB	ICG021WL	ICG021WC		
LAB FILE ID:	AG18-33	AG18-34	AG18-35		
DATE EXTRACTED:	NA	NA	NA	DATE COLLECTED:	NA
DATE ANALYZED:	07/19/0601:53	07/19/0602:09	07/19/0602:26	DATE RECEIVED:	NA
PREP. BATCH:	ICG021W	ICG021W	ICG021W		
CALIB. REF:	AG18-25	AG18-25	AG18-25		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Chloride-Cl	ND	5	4.75	95	5	4.77	95	1	90-110	20

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: ARCADIS
PROJECT: OMEGA CHEMICAL
BATCH NO.: 06G064
METHOD: METHOD 300.0

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK2W				
LAB SAMP ID:	ICG023WB	ICG023WL	ICG023WC		
LAB FILE ID:	AG19-34	AG19-35	AG19-36		
DATE EXTRACTED:	NA	NA	NA	DATE COLLECTED:	NA
DATE ANALYZED:	07/19/0623:49	07/20/0600:06	07/20/0600:22	DATE RECEIVED:	NA
PREP. BATCH:	ICG023W	ICG023W	ICG023W		
CALIB. REF:	AG19-25	AG19-25	AG19-25		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Chloride-Cl	ND	5	4.71	94	5	4.71	94	0	90-110	20

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: ARCADIS
PROJECT: OMEGA CHEMICAL
BATCH NO.: 06G064
METHOD: EPA 300.0

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	ICG011WB	ICG011WL	ICG011WC		
LAB FILE ID:	AG12-34	AG12-35	AG12-36		
DATE EXTRACTED:	NA	NA	NA	DATE COLLECTED:	NA
DATE ANALYZED:	07/13/0604:33	07/13/0604:50	07/13/0605:06	DATE RECEIVED:	NA
PREP. BATCH:	ICG011W	ICG011W	ICG011W		
CALIB. REF:	AG12-25	AG12-25	AG12-25		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Fluoride-F	ND	2	1.92	96	2	1.9	95	1	90-110	20

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EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: ARCADIS
PROJECT: OMEGA CHEMICAL
BATCH NO.: 06G064
METHOD: METHOD 300.0

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	ICG011WB	ICG011WL	ICG011WC		
LAB FILE ID:	AG12-34	AG12-35	AG12-36		
DATE EXTRACTED:	NA	NA	NA	DATE COLLECTED:	NA
DATE ANALYZED:	07/13/0604:33	07/13/0604:50	07/13/0605:06	DATE RECEIVED:	NA
PREP. BATCH:	ICG011W	ICG011W	ICG011W		
CALIB. REF:	AG12-25	AG12-25	AG12-25		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Nitrate-N	ND	2	1.88	94	2	1.88	94	0	90-110	20

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: ARCADIS
PROJECT: OMEGA CHEMICAL
BATCH NO.: 06G064
METHOD: METHOD 300.0

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK2W				
LAB SAMP ID:	ICG012WB	ICG012WL	ICG012WC		
LAB FILE ID:	AG13-04	AG13-05	AG13-06		
DATE EXTRACTED:	NA	NA	NA	DATE COLLECTED:	NA
DATE ANALYZED:	07/13/0617:54	07/13/0618:10	07/13/0618:27	DATE RECEIVED:	NA
PREP. BATCH:	ICG012W	ICG012W	ICG012W		
CALIB. REF:	AG13-01	AG13-01	AG13-01		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Nitrate-N	ND	2	1.86	93	2	1.86	93	0	90-110	20

8027

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: ARCADIS
PROJECT: OMEGA CHEMICAL
BATCH NO.: 06G064
METHOD: METHOD 300.0

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	ICG011WB	ICG011WL	ICG011WC		
LAB FILE ID:	AG12-34	AG12-35	AG12-36		
DATE EXTRACTED:	NA	NA	NA	DATE COLLECTED:	NA
DATE ANALYZED:	07/13/0604:33	07/13/0604:50	07/13/0605:06	DATE RECEIVED:	NA
PREP. BATCH:	ICG011W	ICG011W	ICG011W		
CALIB. REF:	AG12-25	AG12-25	AG12-25		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Nitrite-N	ND	2	1.85	92	2	1.85	93	0	90-110	20

8259

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: ARCADIS
PROJECT: OMEGA CHEMICAL
BATCH NO.: 06G064
METHOD: METHOD 300.0

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	ICG011WB	ICG011WL	ICG011WC		
LAB FILE ID:	AG12-34	AG12-35	AG12-36		
DATE EXTRACTED:	NA	NA	NA	DATE COLLECTED:	NA
DATE ANALYZED:	07/13/0604:33	07/13/0604:50	07/13/0605:06	DATE RECEIVED:	NA
PREP. BATCH:	ICG011W	ICG011W	ICG011W		
CALIB. REF:	AG12-25	AG12-25	AG12-25		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
ORTHOPHOSPHATE-P	ND	5	4.59	92	5	4.65	93	1	90-110	20

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: ARCADIS
PROJECT: OMEGA CHEMICAL
BATCH NO.: 06G064
METHOD: METHOD 300.0

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	ICG021WB	ICG021WL	ICG021WC		
LAB FILE ID:	AG18-33	AG18-34	AG18-35		
DATE EXTRACTED:	NA	NA	NA	DATE COLLECTED:	NA
DATE ANALYZED:	07/19/0601:53	07/19/0602:09	07/19/0602:26	DATE RECEIVED:	NA
PREP. BATCH:	ICG021W	ICG021W	ICG021W		
CALIB. REF:	AG18-25	AG18-25	AG18-25		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Sulfate	ND	5	4.7	94	5	4.71	94	0	90-110	20

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: ARCADIS
PROJECT: OMEGA CHEMICAL
BATCH NO.: 06G064
METHOD: METHOD 300.0

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK2W				
LAB SAMP ID:	ICG023WB	ICG023WL	ICG023WC		
LAB FILE ID:	AG19-34	AG19-35	AG19-36		
DATE EXTRACTED:	NA	NA	NA	DATE COLLECTED:	NA
DATE ANALYZED:	07/19/0623:49	07/20/0600:06	07/20/0600:22	DATE RECEIVED:	NA
PREP. BATCH:	ICG023W	ICG023W	ICG023W		
CALIB. REF:	AG19-25	AG19-25	AG19-25		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Sulfate	ND	5	4.59	92	5	4.54	91	1	90-110	20

CASE NARRATIVE

CLIENT: **ARCADIS**

PROJECT: **OMEGA CHEMICAL**

SDG: **06G064**

METHOD 314.0
PERCHLORATE

Five (5) water samples were received on 07/12/06 for Perchlorate analysis by Method 314.0 in accordance with "Method for Determination of Perchlorate by Ion Chromatography", EPA 600/98-118.

1. **Holding Time**

   Analysis met holding time criteria.

2. **Method Blank**

   Method blank was free of contamination at the reporting limit.

3. **Lab Control Sample/Lab Control Sample Duplicate**

   Lab control sample results were within QC limits.

4. **Duplicate**

   No duplicate sample was designated in this SDG.

5. **Matrix Spike**

   No MS sample was designated in this SDG.

6. **Sample Analysis**

   Samples were analyzed according to the prescribed QC procedures. All criteria were met.

SAMPLE RESULTS

METHOD 314.0
PERCHLORATE

Client : ARCADIS
Project : OMEGA CHEMICAL
Batch No. : 06G064

Matrix : WATER
Instrument ID : I57

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/L)	DLF	MOIST	RL (ug/L)	MDL (ug/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	PCG007WB	ND	1	NA	5	.5	07/28/0622:05	NA	JG28011	JG28010	PCG007W	NA	NA
LCS1W	PCG007WL	9.98	1	NA	5	.5	07/28/0622:46	NA	JG28013	JG28010	PCG007W	NA	NA
LCD1W	PCG007WC	9.93	1	NA	5	.5	07/28/0623:06	NA	JG28014	JG28010	PCG007W	NA	NA
OC2-PMW17A-0-37	G064-01	8.19	1	NA	5	.5	07/28/0623:47	NA	JG28016	JG28010	PCG007W	07/11/06	07/12/06
OC2-PMW17B-0-38	G064-02	4.31J	1	NA	5	.5	07/29/0600:07	NA	JG28017	JG28010	PCG007W	07/12/06	07/12/06
OC2-PMW17C-0-39	G064-03	1.79J	1	NA	5	.5	07/29/0600:27	NA	JG28018	JG28010	PCG007W	07/12/06	07/12/06
OC2-PMW19-0-34	G064-04	1.28J	1	NA	5	.5	07/29/0600:47	NA	JG28019	JG28010	PCG007W	07/12/06	07/12/06
OC2-PMW21-0-40	G064-05	3.77J	1	NA	5	.5	07/29/0601:08	NA	JG28020	JG28010	PCG007W	07/12/06	07/12/06

QC SUMMARY

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: ARCADIS
PROJECT: OMEGA CHEMICAL
BATCH NO.: 06G064
METHOD: METHOD 314.0

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	PCG007WB	PCG007WL	PCG007WC		
LAB FILE ID:	JG28011	JG28013	JG28014		
DATE EXTRACTED:	NA	NA	NA	DATE COLLECTED:	NA
DATE ANALYZED:	07/28/0622:05	07/28/0622:46	07/28/0623:06	DATE RECEIVED:	NA
PREP. BATCH:	PCG007W	PCG007W	PCG007W		
CALIB. REF:	JG28010	JG28010	JG28010		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Perchlorate	ND	10	9.98	100	10	9.93	99	1	85-115	20

CASE NARRATIVE

CLIENT: **ARCADIS**

PROJECT: **OMEGA CHEMICAL**

SDG: **06G064**

METHOD 335.2
TOTAL CYANIDE

Three (3) water samples were received on 07/12/06 for Total Cyanide analysis by Method 335.2 in accordance with "Method for Chemical Analysis of Water and Wastewater", EPA 600/4-79-020 (1983).

1. **Holding Time**

   Analysis met holding time criteria.

2. **Method Blank**

   Method blank was free of contamination at the reporting limit.

3. **Lab Control Sample/Lab Control Sample Duplicate**

   Lab control results were within QC limit.

4. **Duplicate**

   Duplicate sample was not designated in this SDG.

5. **Matrix Spike**

   MS sample was not designated in this SDG.

6. **Sample Analysis**

   Samples were analyzed according to the prescribed QC procedures. All criteria were met.

METHOD 335.2
TOTAL CYANIDE

Client : ARCADIS
Project : OMEGA CHEMICAL
Batch No. : 06G064

Matrix : WATER
Instrument ID : I70

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	CNG008WB	ND	1	NA	.01	.005	07/24/0611:02	07/24/0608:00	CNG008-12	CNG008-08	CNG008W	NA	07/24/06
LCS1W	CNG008WL	.0995	1	NA	.01	.005	07/24/0611:02	07/24/0608:00	CNG008-13	CNG008-08	CNG008W	NA	07/24/06
LCD1W	CNG008WC	.101	1	NA	.01	.005	07/24/0611:02	07/24/0608:00	CNG008-14	CNG008-08	CNG008W	NA	07/24/06
OC2-PMW17B-0-38	G064-02	ND	1	NA	.01	.005	07/24/0611:02	07/24/0608:00	CNG008-15	CNG008-08	CNG008W	07/12/06	07/12/06
OC2-PMW17C-0-39	G064-03	ND	1	NA	.01	.005	07/24/0611:03	07/24/0608:00	CNG008-16	CNG008-08	CNG008W	07/12/06	07/12/06
OC2-PMW21-0-40	G064-05	ND	1	NA	.01	.005	07/24/0611:03	07/24/0608:00	CNG008-17	CNG008-08	CNG008W	07/12/06	07/12/06

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: ARCADIS
PROJECT: OMEGA CHEMICAL
METHOD: METHOD 335.2
MATRIX: WATER
% MOISTURE: NA

BATCH NO.: 06G064
SAMPLE ID: LCS1W/LCD1W
CONTROL NO.: CNG008WL/C

DATE RECEIVED: 07/24/06
DATE EXTRACTED: 07/24/06 08:00
DATE ANALYZED: 07/24/06 11:02/11:02

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
Cyanide	ND	.1	.0995	100	.1	.101	101	2	80-120	20

CASE NARRATIVE

CLIENT: **ARCADIS**

PROJECT: **OMEGA CHEMICAL**

SDG: **06G064**

METHOD 351.3
TKN

Three (3) water samples were received on 07/12/06 for TKN analysis by Method 351.3 in accordance with "Method for Chemical Analysis of Water and Wastewater", EPA 600/4-79-020 (1983).

1. **Holding Time**

   Analysis met holding time criteria.

2. **Method Blank**

   Method blank was free of contamination at the reporting limit.

3. **Lab Control Sample/Lab Control Sample Duplicate**

   Lab control results were within QC limit.

4. **Duplicate**

   Duplicate sample was not designated in this SDG.

5. **Matrix Spike**

   MS sample was not designated in this SDG.

6. **Sample Analysis**

   Samples were analyzed according to the prescribed QC procedures. All criteria were met.

METHOD 351.3
TKN

Client : ARCADIS
Project : OMEGA CHEMICAL
Batch No. : 06G064

Matrix : WATER
Instrument ID : I70

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	KNG006WB	ND	1	NA	1	.035	07/25/0616:35	07/24/0609:30	KNG006-13	KNG006-09	KNG006W	NA	07/24/06
LCS1W	KNG006WL	1.1	1	NA	1	.035	07/25/0616:36	07/24/0609:30	KNG006-14	KNG006-09	KNG006W	NA	07/24/06
LCD1W	KNG006WC	1.01	1	NA	1	.035	07/25/0616:36	07/24/0609:30	KNG006-15	KNG006-09	KNG006W	NA	07/24/06
OC2-PMW17B-0-38	G064-02	.381J	1	NA	1	.035	07/25/0616:37	07/24/0609:30	KNG006-20	KNG006-09	KNG006W	07/12/06	07/12/06
OC2-PMW17C-0-39	G064-03	.253J	1	NA	1	.035	07/25/0616:38	07/24/0609:30	KNG006-23	KNG006-21	KNG006W	07/12/06	07/12/06
OC2-PMW21-0-40	G064-05	.218J	1	NA	1	.035	07/25/0616:38	07/24/0609:30	KNG006-24	KNG006-21	KNG006W	07/12/06	07/12/06

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: ARCADIS
PROJECT: OMEGA CHEMICAL
METHOD: METHOD 351.3
MATRIX: WATER
% MOISTURE: NA

BATCH NO.: 06G064
SAMPLE ID: LCS1W/LCD1W
CONTROL NO.: KNG006WL/C

DATE RECEIVED: 07/24/06
DATE EXTRACTED: 07/24/06 09:30
DATE ANALYZED: 07/25/06 16:36/16:36

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
TKN	ND	1	1.1	110	1	1.01	101	9	80-120	20

CASE NARRATIVE

CLIENT: **ARCADIS**

PROJECT: **OMEGA CHEMICAL**

SDG: **06G064**

METHOD 370.1
DISSOLVED SILICA

Three (3) water samples were received on 07/12/06 for Dissolved Silica analysis by Method 370.1 in accordance with "Method for Chemical Analysis of Water and Wastewater", EPA 600/4-79-020 (1983).

1. **Holding Time**

   Analysis met holding time criteria.

2. **Method Blank**

   Method blank was free of contamination at the reporting limit.

3. **Lab Control Sample/Lab Control Sample Duplicate**

   Lab control results were within QC limit.

4. **Duplicate**

   Duplicate sample was not designated in this SDG.

5. **Matrix Spike**

   MS sample was not designated in this SDG.

6. **Sample Analysis**

   Samples were analyzed according to the prescribed QC procedures. All criteria were met.

METHOD 370.1
DISSOLVED SILICA

Client : ARCADIS
Project : OMEGA CHEMICAL
Batch No. : 06G064

Matrix : WATER
Instrument ID : I70

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	SIG005WB	ND	1	NA	2	1	07/19/0616:24	NA	SIG005-34	SIG005-32	SIG005W	NA	NA
LCS1W	SIG005WL	14.7	1	NA	2	1	07/19/0616:25	NA	SIG005-35	SIG005-32	SIG005W	NA	NA
LCD1W	SIG005WC	14.6	1	NA	2	1	07/19/0616:26	NA	SIG005-36	SIG005-32	SIG005W	NA	NA
OC2-PMW17B-0-38	G064-02R	27.1	2	NA	4	2	07/19/0616:44	NA	SIG005-54	SIG005-44	SIG005W	07/12/06	07/12/06
OC2-PMW17C-0-39	G064-03	20.0	1	NA	2	1	07/19/0616:45	NA	SIG005-55	SIG005-44	SIG005W	07/12/06	07/12/06
OC2-PMW21-0-40	G064-05	24.1	1	NA	2	1	07/19/0616:48	NA	SIG005-58	SIG005-56	SIG005W	07/12/06	07/12/06

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: ARCADIS
PROJECT: OMEGA CHEMICAL
METHOD: METHOD 370.1
MATRIX: WATER
% MOISTURE: NA

BATCH NO.: 06G064
SAMPLE ID: LCS1W/LCD1W
CONTROL NO.: SIG005WL/C

DATE RECEIVED: NA
DATE EXTRACTED: NA
DATE ANALYZED: 07/19/06 16:25/16:26

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
Dissolved Silica	ND	15	14.7	98	15	14.6	97	1	80-120	20

CASE NARRATIVE

CLIENT: **ARCADIS**

PROJECT: **OMEGA CHEMICAL**

SDG: **06G064**

METHOD 415.1
TOTAL ORGANIC CARBON

Five (5) water samples were received on 07/12/06 for Total Organic Carbon analysis by Method 415.1 in accordance with "Method for Chemical Analysis of Water and Wastewater", EPA 600/4-79-020 (1983).

1. **Holding Time**

   Analysis met holding time criteria.

2. **Method Blank**

   Method blank was free of contamination at the reporting limit.

3. **Lab Control Sample/Lab Control Sample Duplicate**

   Lab control results were within QC limit.

4. **Duplicate**

   Duplicate sample was not designated in this SDG.

5. **Matrix Spike**

   MS sample was not designated in this SDG.

6. **Sample Analysis**

   Samples were analyzed according to the prescribed QC procedures. All criteria were met.

METHOD 415.1
TOC

Client : ARCADIS
Project : OMEGA CHEMICAL
Batch No. : 06G064

Matrix : WATER
Instrument ID : I62

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	TCG013WB	ND	1	NA	2	.5	07/18/0604:52	NA	TCG012-33	TCG012-26	TCG013W	NA	NA
LCS1W	TCG013WL	26.1	1	NA	2	.5	07/18/0605:02	NA	TCG012-34	TCG012-26	TCG013W	NA	NA
LCD1W	TCG013WC	26.1	1	NA	2	.5	07/18/0605:12	NA	TCG012-35	TCG012-26	TCG013W	NA	NA
OC2-PMW17A-0-37	G064-01	32	1	NA	2	.5	07/18/0606:11	NA	TCG012-41	TCG012-38	TCG013W	07/11/06	07/12/06
OC2-PMW17B-0-38	G064-02	.733J	1	NA	2	.5	07/18/0606:20	NA	TCG012-42	TCG012-38	TCG013W	07/12/06	07/12/06
OC2-PMW17C-0-39	G064-03	.596J	1	NA	2	.5	07/18/0606:29	NA	TCG012-43	TCG012-38	TCG013W	07/12/06	07/12/06
OC2-PMW19-0-34	G064-04	2.72	1	NA	2	.5	07/18/0606:38	NA	TCG012-44	TCG012-38	TCG013W	07/12/06	07/12/06
OC2-PMW21-0-40	G064-05	.769J	1	NA	2	.5	07/18/0606:47	NA	TCG012-45	TCG012-38	TCG013W	07/12/06	07/12/06

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: ARCADIS
PROJECT: OMEGA CHEMICAL
BATCH NO.: 06G064
METHOD: METHOD 415.1

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	TCG013WB	TCG013WL	TCG013WC		
LAB FILE ID:	TCG012-33	TCG012-34	TCG012-35		
DATE EXTRACTED:	NA	NA	NA	DATE COLLECTED:	NA
DATE ANALYZED:	07/18/0604:52	07/18/0605:02	07/18/0605:12	DATE RECEIVED:	NA
PREP. BATCH:	TCG013W	TCG013W	TCG013W		
CALIB. REF:	TCG012-26	TCG012-26	TCG012-26		

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
TOC	ND	25	26.1	105	25	26.1	105	0	80-120	20

LABORATORY REPORT FOR

ARCADIS

OMEGA CHEMICAL

N-NITROSODODIMETHYLAMINE BYGC/MS

SDG#: 06G064

Your Project #: 06G064
Site: ARCADIS, OMEGA CHEMICALS

Attention: Richard Beauvil
EMAX LABORATORIES INC
1835 W 205TH ST
TORRANCE, CA
USA 90501

Report Date: 2006/07/31

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: A670804
Received: 2006/07/14, 12:00

Sample Matrix: Water
Samples Received: 5

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Nitrosamines in Water by HRMS	5	2006/07/17	2006/07/28	Ont SOP 0121, 0710	EPA 607 / 1625 mod

MAXXAM ANALYTICS INC.

MARY-ANNE JOHNSON, B.A, B.Sc.
Project Manager

MAJ/maj
encl.

Total cover pages: 1

6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel: 905-817-5700 Toll free:800-563-6266 Fax: 905-817-5777

Maxxam Job #: A670804
Report Date: 2006/07/31

EMAX LABORATORIES INC
Client Project #: 06G064
Project name: ARCADIS, OMEGA CHEMICALS
Sampler Initials:

SEMI-VOLATILE ORGANICS BY HRMS (WATER)

Maxxam ID		N11684	N11685	N11686		
Sampling Date		2006/07/11 15:53	2006/07/12 12:35	2006/07/12 13:30		
	Units	**OC2-PMW17A-0-37**	**OC2-PMW17B-0-38**	**OC2-PMW17C-0-39**	**RDL**	**QC Batch**
N-Nitrosodimethylamine	ng/L	6.68	ND	ND	2.00	1013406
Surrogate Recovery (%)						
D6-N-Nitrosodimethylamine	%	25	25	22		1013406

ND = Not detected
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam ID		N11687	N11688		
Sampling Date		2006/07/12 16:35	2006/07/12 15:00		
	Units	**OC2-PMW19-0-34**	**OC2-PMW21-0-40**	**RDL**	**QC Batch**
N-Nitrosodimethylamine	ng/L	ND	ND	2.00	1013406
Surrogate Recovery (%)					
D6-N-Nitrosodimethylamine	%	26	28		1013406

ND = Not detected
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel: 905-817-5700 Toll free:800-563-6266 Fax: 905-817-5777

Maxxam Job #: A670804
Report Date: 2006/07/31

EMAX LABORATORIES INC
Client Project #: 06G064
Project name: ARCADIS, OMEGA CHEMICALS
Sampler Initials:

GENERAL COMMENTS

Sample N11684-01: Possible propyl ester interference.

Results relate only to the items tested.

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EMAX LABORATORIES INC
Attention: Richard Beauvil
Client Project #: 06G064
P.O. #:
Project name: ARCADIS, OMEGA CHEMICALS

Quality Assurance Report

Maxxam Job Number: GA670804

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1013406 EM	Spiked Blank	D6-N-Nitrosodimethylamine	2006/07/28		32	%	10 - 81
		N-Nitrosodimethylamine	2006/07/28		112	%	65 - 135
	RPD	N-Nitrosodimethylamine	2006/07/28	9.5		%	25
	Method Blank	D6-N-Nitrosodimethylamine	2006/07/28		35	%	10 - 81
		N-Nitrosodimethylamine	2006/07/28	ND, RDL=2.00		ng/L	

ND = Not detected
RPD = Relative Percent Difference
SPIKE = Fortified sample

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EMAX LABORATORIES INC
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Project name: ARCADIS, OMEGA CHEMICALS
Sampler Initials:

SEMI-VOLATILE ORGANICS BY HRMS (WATER)

Maxxam ID		N11684	N11685	N11686	N11687	N11688		
Sampling Date		7/11/06 15:53	7/12/06 12:35	7/12/06 13:30	7/12/06 16:35	7/12/06 15:00		
	Units	**OC2-PMW17A-0-37**	**OC2-PMW17B-0-38**	**OC2-PMW17C-0-39**	**OC2-PMW19-0-34**	**OC2-PMW21-0-40**	**RDL**	**QC Batch**
N-Nitrosodimethylamine	ng/L	6.68	ND	ND	ND	ND	2	1013406
Surrogate Recovery (%)								
D6-N-Nitrosodimethylamine	%	25	25	22	26	28		1013406

ND = Not detected
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch