1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269

Ecoloblue	Client Project ID: Drinking Water Test	Date Sampled: 06/16/10
5702 Marsh Drive, unit K		Date Received: 06/16/10
5702 Maish Birre, and R	Client Contact: Pablo Cusi	Date Reported: 06/23/10
Pacheco, CA 94553	Client P.O.:	Date Completed: 06/23/10

WorkOrder 1006452

June 23, 2010

T .	D 1	1
Dear	Pah	I۸۰

#### Enclosed within are:

- 1) The results of the 1 analyzed sample from your project: Drinking Water Test,
- 2) A QC report for the above sample,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager

McCampbell Analytical, Inc.

	AWA.
1	
10	

# McCAMPBELL ANALYTICAL, INC. 1534 WILLOW PASS ROAD PITTSBURG, CA 94565-1701

Website: www.mccampbell.com Email: main@mccampbell.com Fax: (925) 252-9269 Telephone: (877) 252-9262

CHAIN	OF	CUST	ODY	RECOF	Ł
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Report To: Pable	Cusi		I	Bill To	);									T						Α	nal	ysis	Req	uest							0	ther	1	Comments
Company: Ecolo																																	1	C'DA
5702 Marsh D					- 70	u	ら	6	05	0	L	280	il	1	-		60			0														Filter Samples
Pacheco, C.A.	94553			E-Ma																			.											for Metals
Tele: (925) 297	-6325		I	ax: (	925	60	9-9	887									0.7																	analysis:
Project #:			1	rojec	t Nan	ne:										min	by 200.7				6													Yes / No
<b>Project Location</b>	:						9									hlora	fu b																	
Sampler Signatu	re:									_				_	Snun	I; C	& Mn	00.1		olids														
		SAMI	PLING		SLS		MA	TR	X		ME	SER	OD	D	Colli-I	sidus	.8; Fe	e by 3		ved S														
SAMPLE ID	LOCATION/ Field Point Name	Date	Time	# Containers	Type Containers	Water	Soil	Air	Sludge					٦	Total Coliform/E.(	Chlerine, Total Residual; Chloramine	Cu by ICPMS 200.8; Fe	Flouride & Nitrate by 300.1	Alkalinity	PH & Total Dissolved Solids	524.2 (Basic List)									k	,			
Water Samples		6/16		17	V	X				T	X :	X	X	X	X	X	X	X	X	X	X									П				
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11.													T					- 1	-	3	-													
Relinquished By:		Date: 6/16/10	Time: 14:30	Rece	ived B	y:		V	~				GOOD CONDITION HEAD SPACE ABSENT  COMMENTS: Samples received intact Via MAI C Pringle 6/16/10 14:30				Cou	rier Rob																
Retinquished By:		Date:	Time:		ived B										AP	CHI	OR PRI	INA:	CO	INL	INE	EST S	1											
Relinquished By:		Date:	Time:	Rece	ived B	y:															11-	kG.	ME	TALS	5 (	отн	ER							

PRESERVATION

WaterTrax

cc:

WriteOn

### CHAIN-OF-CUSTODY RECORD

Email

HardCopy

Page 1 of 1

J-flag

ThirdParty

1534 Willow Pass Rd Pittsburg, CA 94565-1701 (925) 252-9262

Ecoloblue

WorkOrder: 1006452 ClientCode: ECOB

Excel

Bill to: Requested TAT: 5 days

Fax

Report to: Pablo Cusi Wayne Ferreira Email: Pcusi@ecoloblue.com

Ecoloblue

EDF

Date Received: 06/16/2010 PO: 3911 Happy Valley Road 5702 Marsh Drive, unit K ProjectNo: Drinking Water Test Lafayette, CA 94549 Date Printed: 06/22/2010 Pacheco, CA 94553

FAX 925-609-9887 (925) 297-6325

					Requested Tests (See legend below)										
Lab ID	Client ID	Matrix	Collection Date Hol	d 1	2	3	4	5	6	7	8	9	10	11	12
1006452-001	1	Water	6/16/2010	D	E	F	В	В	С	С	G	Α	G		

#### Test Legend:

1 300_1_W	2 524_2BASIC_W	3 Alka(spe)_W	4 CHLORAMINE_W	5 CHLORINE1_W
6 FEMN_W	7 METALSMS_W	8 PH_W	9 TCEC-Enum_W	10 TDS_W
11	12			

Prepared by: Samantha Arbuckle

#### **Comments:**

Comments:

COC Relinquished and sent via E-mail from Pablo Cusi 6/22/10

1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269

#### **Sample Receipt Checklist**

Client Name:	Ecoloblue				Date	and T	ime Received:	6/16/2010	4:35:23 PM
Project Name:	<b>Drinking Water Test</b>				Chec	cklist c	completed and re	eviewed by:	Samantha Arbuckle
WorkOrder N°:	<b>1006452</b> Matrix	<u>Water</u>			Carri	ier:	Rob Pringle (M	Al Courier)	
		<u>Chain c</u>	of Cus	stody (C	OC) Inform	nation	!		
Chain of custody	present?		Yes		No 🗸				
Chain of custody	signed when relinquished ar	nd received?	Yes		No 🗸				
Chain of custody	agrees with sample labels?		Yes		No 🗸				
Sample IDs noted	by Client on COC?		Yes		No 🗹				
Date and Time of	collection noted by Client on 0	COC?	Yes		No 🗹				
Sampler's name n	noted on COC?		Yes		No 🗹				
		Saı	mple	Receipt	Informatio	<u>on</u>			
Custody seals int	act on shipping container/coo	oler?	Yes		No 🗆			NA 🔽	
Shipping containe	er/cooler in good condition?		Yes	<b>V</b>	No 🗆				
Samples in prope	er containers/bottles?		Yes	<b>~</b>	No 🗆				
Sample container	rs intact?		Yes	✓	No 🗆				
Sufficient sample	volume for indicated test?		Yes	<b>✓</b>	No 🗌				
	<u>s</u>	ample Preserv	ation/	and Ho	ld Time (H	T) Info	<u>ormation</u>		
All samples recei	ved within holding time?		Yes	<b>✓</b>	No 🗌				
Container/Temp E	Blank temperature		Coole	r Temp:	1.2°C			NA $\square$	
Water - VOA vial	s have zero headspace / no	bubbles?	Yes	<b>✓</b>	No 🗆	No	VOA vials subm	itted $\square$	
Sample labels ch	ecked for correct preservation	on?	Yes	<b>✓</b>	No 🗌				
Metal - pH accept	table upon receipt (pH<2)?		Yes	✓	No 🗆			NA $\square$	
Samples Receive	ed on Ice?		Yes	<b>✓</b>	No 🗆				
		(Ice Type:	: WET	ΓICE )					
* NOTE: If the "N	lo" box is checked, see com	ments below.							
=====	=======			===			=====		======
Client contacted:		Date contacte	d:				Contacted	by:	



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Ecoloblue	Client Project ID: Drinking Water Test	Date Sampled:	06/16/10
5702 Marsh Drive, unit K		Date Received:	06/16/10
	Client Contact: Pablo Cusi	Date Extracted:	06/16/10
Pacheco, CA 94553	Client P.O.:	Date Analyzed:	06/16/10

#### **Inorganic Anions by IC\***

Extraction method: E300.1 Analytical methods: E300.1 Work Order: 1006452

Extraction	method: E300.1		Analytic	al method	s: E300.1			Work Order: 1006452					
Lab ID	Client ID	Matrix	Fluoride	DF	Nitrate as N	DF	Nitrate as NO3 <sup>-</sup>	DF	% SS	Comments			
001D	1	W	ND	1	ND	1	ND	1	112				
	orting Limit for DF =1;	W	0.1		0.1		0.45		1	mg/L			
	means not detected at or ove the reporting limit	S	NA		NA		NA		n	ng/Kg			

, soil/sludge/solid samples in mg/kg		

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor



<sup>\* [</sup>Nitrate as  $NO3^-$ ] = 4.4286 x [Nitrate as N]

<sup>#</sup> surrogate diluted out of range or surrogate coelutes with another peak; N/A means surrogate not applicable to this analysis.

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Ecoloblue	Client Project ID: Drinking Water Test	Date Sampled: 06/16/10
5702 Marsh Drive, unit K		Date Received: 06/16/10
3702 Marsh Dilve, unit K	Client Contact: Pablo Cusi	Date Extracted: 06/18/10
Pacheco, CA 94553	Client P.O.:	Date Analyzed: 06/18/10

#### Volatile Organics by P&T and GC/MS\*

Extraction Method: E524.2 Analytical Method: E524.2 Work Order: 1006452

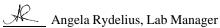
Lab ID				1006452-001E			
Client ID				1			
Matrix				Water			
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	tert-Amyl Methyl Ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	1.0
Bromoform	ND	1.0	1.0	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	2.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon disulfide	ND	1.0	0.5
Carbon tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	Chloroform	ND	1.0	1.0
Chloromethane	ND	1.0	0.5	2-Chlorotoluene	ND	1.0	0.5
4-Chlorotoluene	ND	1.0	0.5	Dibromochloromethane	ND	1.0	1.0
1,2-Dibromo-3-chloropropane	ND	1.0	0.2	1,2-Dibromoethane (EDB)	ND	1.0	0.5
Dibromomethane	ND	1.0	0.5	1,2-Dichlorobenzene	ND	1.0	0.5
1,3-Dichlorobenzene	ND	1.0	0.5	1,4-Dichlorobenzene	ND	1.0	0.5
Dichlorodifluoromethane	ND	1.0	0.5	1,1-Dichloroethane	ND	1.0	0.5
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5	1,1-Dichloroethene	ND	1.0	0.5
cis-1,2-Dichloroethene	ND	1.0	0.5	trans-1,2-Dichloroethene	ND	1.0	0.5
1,2-Dichloropropane	ND	1.0	0.5	1,3-Dichloropropane	ND	1.0	0.5
2,2-Dichloropropane	ND	1.0	0.5	1,1-Dichloropropene	ND	1.0	0.5
cis-1,3-Dichloropropene	ND	1.0	0.5	trans-1,3-Dichloropropene	ND	1.0	0.5
Diisopropyl ether (DIPE)	ND	1.0	0.5	Ethylbenzene	ND	1.0	0.5
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5	Freon 113	ND	1.0	10
Hexachlorobutadiene	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	ND	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone	ND	1.0	0.5	Naphthalene	ND	1.0	0.5
n-Propyl benzene	ND	1.0	0.5	Styrene	ND	1.0	0.5
1,1,1,2-Tetrachloroethane	ND	1.0	0.5	1,1,2,2-Tetrachloroethane	ND	1.0	0.5
Tetrachloroethene	ND	1.0	0.5	Toluene	ND	1.0	0.5
1,2,3-Trichlorobenzene	ND	1.0	0.5	1,2,4-Trichlorobenzene	ND	1.0	0.5
1,1,1-Trichloroethane	ND	1.0	0.5	1,1,2-Trichloroethane	ND	1.0	0.5
Trichloroethene	ND	1.0	0.5	Trichlorofluoromethane	ND	1.0	0.5
1,2,3-Trichloropropane	ND	1.0	0.5	1,2,4-Trimethylbenzene	ND	1.0	0.5
1,3,5-Trimethylbenzene	ND 1.0 0.5 Vinyl chloride		ND	1.0	0.5		
Xvlenes	ND	1.0	0.5				
		Surr	ogate Re	ecoveries (%)			
%SS1:	87 %SS2: 108				18		
%SS3:	9			, in our look and the			
Comments:							

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or surrogate coelutes with another peak; &) low surrogate due to matrix interference.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor



<sup>\*</sup> water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in  $\mu g/\text{wipe}$ .

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	when Quant	v Counts			refeptione: 8	111-232-9.	202 Fax: 923-232-9.	209	
Ecoloblue			Client Project ID:	Drinking Wate	er Test	Date S	Sampled: 06/	16/10	
5702 Ma	arsh Drive, unit K					Date 1	Received: 06/	16/10	
			Client Contact: P	ablo Cusi		Date l	Extracted: 06/	18/10	
Pacheco	, CA 94553		Client P.O.:			Date 2	Analyzed: 06/	18/10	
		Tota	l & Speciated Alka	alinity as Calciu	ım Carbo	onate*			
Extraction	method: SM2320B		Analytical meth	nods: SM2320B			W	ork Order:	1006452
Lab ID	Client ID	Matrix	Total*	Carbonate*	Bicarbo	nate*	Hydroxide*	DF	Comments
001F	1	W	ND	ND	NI	)	ND	1	
	oorting Limit for DF =1;	W	1.0	1.0	1.0	)	1.0	mg C	CaCO3/L
	means not detected at or ove the reporting limit	S	NA	NA	N.A	A	NA	n	ng/Kg
*water san	nples are reported in mg calciu	um carbon	ate/L. Hydroxide, Ca	arbonate & Bicarb	onate alka	linity me	easure @ end-point	of $pH = 8$	.3 & 4.5 per

\*water samples are reported in mg calcium carbonate/L. Hydroxide, Carbonate & Bicarbonate alkalinity measure @ end-point of pH = 8.3 & 4.5 per SM2320B.

DF = Dilution Factor

Angela Rydelius, Lab Manager

**DHS ELAP Certification 1644** 

Ecoloblue		Client Project ID: Dri	Date Sampled: 06/16/10					
5702 M	arsh Drive, unit K				Date Received:	06/16/10		
3,02111	211 vo, unic 11		Client Contact: Pablo	Cusi	Date Extracted: 06/16/10			
Pacheco	, CA 94553	•	Client P.O.:		Date Analyzed:	06/16/10		
			Chl	oramine*				
Extraction	method: SM4500-Cl DE		Analytical meth	nods: SM4500-C1F	1	Work Ore	der: 1006	452
Lab ID	Client ID	Matrix	Dichloramine	Monochloramine	Total Chloramine	DF	% SS	Comments
001B	1	W	ND	ND	ND	1	N/A	
<u> </u>								
	porting Limit for DF =1; means not detected at or	W	0.04	0.04	0.04		mg/l	
ab	ove the reporting limit	S	NA	NA	NA		mg/I	(g
	mples are reported in mg/L.	-144. (0)	with a 15 miles of 11 11 miles				:	

According the formal method, this is "field test" with a 15 minute Hold Time. However, as this is unrealistically short for commercial environmental analysis, MAI has designated a 24 hour hold time for aqueous samples.

DF = Dilution Factor

Angela Rydelius, Lab Manager

**DHS ELAP Certification 1644** 

	when Quanty Counts			relephone: a	811-232-9202 Fax: 923-	232-9209	
Ecoloblue		Client Pro	ject ID: Dri	inking Water Test	Date Sampled: 0	06/16/10	
5702 Marsh Driv	e, unit K				Date Received: (	06/16/10	
6,0 <b>2</b> 1,141,511 211,	o, waat 11	Client Co	ntact: Pablo	Cusi	Date Extracted: (	06/16/10	
Pacheco, CA 945	53	Client P.O	).:		Date Analyzed: (	06/16/10	
		Chle	orine, Total	Residual*			
Analytical Method: S	M4500-Cl DE				V	Vork Order:	1006452
Lab ID	Client ID		Matrix	Chlo	orine	DF	Comments
1006452-001B	1		W	N	D	1	
			<b>W</b> 7	0.04	ma/I		
	or DF = 1; ND means not determined the reporting limit	ected at or	W S		mg/L A	-	
* water samples are and reported in mg/k	reported in mg/L, soil sample	es are extracte				l blibilty of o	chlorine

According the formal method, this is "field test" with a 15 minute Hold Time. However, as this is unrealistically short for commercial environmental analysis, MAI has designated a 24 hour hold time for aqueous samples.

DF = Dilution Factor

Ecoloblue	Client Project ID: Drinking Water Test	Date Sampled:	06/16/10
5702 Marsh Drive, unit K		Date Received:	06/16/10
	Client Contact: Pablo Cusi	Date Extracted:	06/16/10
Pacheco, CA 94553	Client P.O.:	Date Analyzed:	06/17/10

#### ICP Metals\*

Extraction method: E200.7 Analytical methods: E200.7 Work Order: 1006452

			,					
Lab ID	Client ID	Matrix	Extraction Type	Iron	Manganese	DF	% SS	Comments
001C	1	W	TOTAL	ND	ND	1	110	

Reporting Limit for DF =1;	W	TOTAL	50	20	μg/L	
ND means not detected at or above the reporting limit	S	TOTAL	NA	NA	NA	

<sup>\*</sup>water samples are reported in  $\mu$ g/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in  $\mu$ g/wipe, filter samples in  $\mu$ g/filter.

# means surrogate diluted out of range; ND means not detected above the reporting limit/method detection limit; N/A means not applicable to this sample or instrument.

TOTAL = Hot acid digestion of a representative sample aliquot.

TRM = Total recoverable metals is the "direct analysis" of a sample aliquot taken from its acid-preserved container.

DISS = Dissolved metals by direct analysis of 0.45  $\mu m$  filtered and acidified sample.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor

Angela Rydelius, Lab Manager

"When Quality Counts"

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Ecoloblue	Client Project ID: Drinking Water Test	Date Sampled: 06/16/10			
5702 Marsh Drive, unit K		Date Received: 06/16/10			
0, 0 <b>2</b> 1, <b>111</b>	Client Contact: Pablo Cusi	Date Extracted: 06/16/10			
Pacheco, CA 94553	Client P.O.:	Date Analyzed: 06/18/10			
Metals*					

Extraction method: E200.8 Analytical methods: E200.8 Work Order: 1006452

	Analytical methods. E200.0						
Lab ID	Client ID	Matrix	Extraction Type	Copper	DF	% SS	Comments
1006452-001C	1	W	TOTAL	ND	1	105	

Reporting Limit for DF =1;	W	TOTAL	0.5	μg/L
ND means not detected at or	S	TOTAL	NA	mg/Kg
above the reporting limit			- 11-2	

\*water samples are reported in  $\mu$ g/L, product/oil/non-aqueous liquid samples and all TCLP / WET / DI WET / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in  $\mu$ g/wipe, filter samples in  $\mu$ g/filter.

# means surrogate diluted out of range; ND means not detected above the reporting limit/method detection limit; N/A means not applicable to this sample or instrument.

TOTAL = Hot acid digestion of a representative sample aliquot.

TRM = Total recoverable metals is the "direct analysis" of a sample aliquot taken from its acid-preserved container.

DISS = Dissolved metals by direct analysis of  $0.45 \mu m$  filtered and acidified sample.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor

Angela Rydelius, Lab Manager

	"When Quality Counts"		Telephone: 8	777-252-9262 Fax: 92:	5-252-9269	
Ecoloblue		Client Project ID:	Drinking Water Test	Date Sampled:	06/16/10	
5702 Marsh Driv	e, unit K			Date Received:	06/16/10	
		Client Contact: Pa	ablo Cusi	Date Extracted:	06/16/10	
Pacheco, CA 945	53	Client P.O.:		Date Analyzed:	06/16/10	
		p	Н			
Analytical Method: S						1006452
Lab ID	Client ID	Matrix	x pl	H 	DF	Comments
1006452-001G	1	W	6.98 @	23.6°C	1	
Method A	Accuracy and Reporting Unit	s W S	±0.05, pH v			
* According the fort	mal method, this is "field test"				for commerc	rial .
	sis, MAI has designated a 24			unrealistically short	Tor commerc	ciui
DF = Dilution Facto	r					

## McCampbell Analytical, Inc. "When Ouality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com  $\quad$  E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269

100									
Ecolol	blue	С	lient Project I	D:	Drinking Water Test	Date Sam	pled: 06/16/10		
5702 N	Marsh Drive, unit K					Date Rec	eived: 06/16/10		
0,021		С	lient Contact:	Pa	ablo Cusi	Date Extr	racted: 06/16/10		
Pache	co, CA 94553	С	lient P.O.:			Date Ana	llyzed: 06/17/10		
			Total Col	ifor	m / E. Coli, Enumerat	ion			
	cal Method: SM9223B							Corder: 10	1
Lab ID	Client ID	Matri	x Total Colif	orm	95% Confident Interval	E. Coli	95% Confident Interval	DF	Comments
001A	1	W	ND			ND		1	
Rep	orting Limit & Reporting Units	W			1.0 MPN				
		S			N.	A			
DL = DI	lution Factor								

	"When Quality Counts"			Telephone: 8	377-252-9262 Fax: 92	5-252-9269	
Ecoloblue		Client Proje	ect ID: 1	Drinking Water Test	Date Sampled:	06/16/10	
5702 Marsh Driv	e, unit K				Date Received:	06/16/10	
	,	Client Con	tact: Pal	olo Cusi	Date Extracted:	06/21/10	
Pacheco, CA 945	553	Client P.O.:			Date Analyzed:	06/22/10	
		Tota	al Dissolv	ved Solids*			
Analytical Method: S	M2540C					Work Order:	1006452
Lab ID	Client ID		Matrix	Total Disso	olved Solids	DF	Comments
1006452-001G	1		W	N	D	1	
						1	
	or DF = 1; ND means not determined the reporting limit	ected at or	W		ng/L		
			S	N	A		
* water samples repo							
DF = Dilution Facto	r						

**QC SUMMARY REPORT FOR E300.1** 

### W.O. Sample Matrix: Water QC Matrix: Water BatchID: 51227 WorkOrder 1006452

EPA Method E300.1 Extraction E300.1 Spiked Sample ID: N/A												
Analyte	Sample	Sample Spiked MS			MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
7 way to	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Fluoride	N/A	1	N/A	N/A	N/A	99.3	100	0.895	N/A	N/A	85 - 115	15
Nitrate as N	N/A	1	N/A	N/A	N/A	93.3	93.4	0.0891	N/A	N/A	85 - 115	15
Nitrate as NO3 <sup>-</sup>	N/A	4.4	N/A	N/A	N/A	93.3	93.4	0.0891	N/A	N/A	85 - 115	15
%SS:	N/A	0.10	N/A	N/A	N/A	96	96	0	N/A	N/A	90 - 115	10

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

#### BATCH 51227 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1006452-001D	06/16/1	0 06/16/10	06/16/10 9:38 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

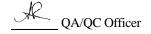
% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

# surrogate diluted out of range or surrogate coelutes with another peak.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



**QC SUMMARY REPORT FOR E524.2** 

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 51244 WorkOrder 1006452

EPA Method E524.2	Extrac	ction E52	4.2					5	Spiked Sar	nple ID	: 1006449-0	)33a
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acc	ceptance Criteria (%)		
rilaryto	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	10	99.7	96.9	2.87	88.4	88.4	0	70 - 130	30	70 - 130	30
Benzene	ND	10	120	117	1.85	106	111	3.94	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	50	96.2	93.7	2.71	87.8	87.3	0.605	70 - 130	30	70 - 130	30
Chlorobenzene	ND	10	121	118	2.64	103	105	2.42	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	10	114	109	4.08	103	102	1.35	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	118	117	0.613	95.6	99	3.46	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	10	108	105	3.27	99.1	105	5.43	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	10	124	122	1.04	104	108	3.90	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	10	119	116	2.10	104	105	1.49	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	10	123	119	2.68	111	111	0	70 - 130	30	70 - 130	30
Toluene	ND	10	109	107	2.14	97	98.2	1.30	70 - 130	30	70 - 130	30
Trichloroethene	ND	10	113	112	0.559	97.6	101	3.79	70 - 130	30	70 - 130	30
%SS1:	118	25	117	118	0.857	116	116	0	70 - 130	30	70 - 130	30
%SS2:	115	25	116	116	0	112	112	0	70 - 130	30	70 - 130	30
%SS3:	113	2.5	109	110	0.798	118	116	1.25	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

#### BATCH 51244 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1006452-001E	06/16/1	0 06/18/10	06/18/10 5:37 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

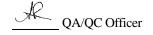
% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



**QC SUMMARY REPORT FOR 200.7** 

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 51258 WorkOrder 1006452

EPA Method E200.7 Extraction E200.7 Spiked Sample ID: 1006364-00										002A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCSD LCS-LCSD Acceptance Crite			Criteria (%)	1
raidiyto	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Iron	ND	1000	102	102	0	108	103	5.10	70 - 130	20	85 - 115	20
Manganese	ND	1000	103	103	0	111	103	7.10	70 - 130	20	85 - 115	20
%SS:	103	750	100	100	0	104	103	0.800	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

#### BATCH 51258 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1006452-001C	06/16/1	0 06/16/10	06/17/10 6:12 PM				

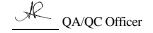
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.





#### QC SUMMARY REPORT FOR E200.8

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 51264 WorkOrder 1006452

EPA Method E200.8 Extraction E200.8 Spiked Sample ID: 1006364-003.											03A	
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	Criteria (%)	1
7	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Copper	94	10	NR	NR	NR	103	103	0	70 - 130	20	85 - 115	20
%SS:	107	750	110	107	2.37	105	102	2.64	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

#### BATCH 51264 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1006452-001C	06/16/10	06/16/10	06/18/10 4:32 PM				

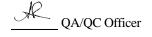
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



#### QC SUMMARY REPORT FOR WET CHEMISTRY TESTS

Test Method: Alkalinity Matrix: W WorkOrder: 1006452

Method Name: SM2320B Units mg CaCO3/L Batc							
Lab ID	Sample	DF	Dup / Ser. Dil.	% RPD	Acceptance Criteria (%)		
1006452-001F	ND	1	ND	1	N/A	<20	

#### **BATCH 51275 SUMMARY**

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1006452-001F	06/16/1	.0 06/18/10	06/18/10 2:58 PM				

Test Method: pH Matrix: W WorkOrder: 1006452

Method Name: SM45	500H+B		Units ±, pH u	nits @ °C		BatchID: 51260		
Lab ID	Sample	DF	Dup / Ser. Dil.	DF	Precision	Acceptance Criteria		
1006452-001G 6.98 @ 23.6°C 1			6.96 @ 23.5°C	1	0.02	0.05		

#### **BATCH 51260 SUMMARY**

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1006452-001G	06/16/1	10 06/16/10	06/16/10 8:48 PM				

Test Method: Total Dissolved Solids Matrix: W WorkOrder: 1006452

Method Name: SM25	540C		Units mg/L	BatchID: 51261		
Lab ID	Sample	DF	Dup / Ser. Dil.	% RPD	Acceptance Criteria (%)	
1006452-001G	ND	1	ND<20.0	N/A	<20	

#### BATCH 51261 SUMMARY

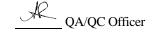
Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1006452-001G	06/16/1	06/21/10	06/22/10 1:25 PM				

Dup = Duplicate; Ser. Dil. = Serial Dilution; MS = Matrix Spike; RD = Relative Difference; RPD = Relative Percent Deviation.

Precision = Absolute Value (Sample - Duplicate)

RPD = 100 \* (Sample - Duplicate) / [(Sample + Duplicate) / 2]

%RPD is calculated using results of up to 10 significant figures, however the reported results are rounded to 2 or 3 significant figures. Therefore there may be a slight discrepancy between the %RPD displayed above and %RPD calculated using the reported results. MAI considers %RPD based upon more significant figures to be more accurate.



DV DEDODE EOD CM4500 CLE

#### QC SUMMARY REPORT FOR SM4500-Cl F

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 51276 WorkOrder 1006452

EPA Method SM4500-CI F Extraction SM4500-CI DE						Spiked Sample ID: N/A						
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	Criteria (%)	
7 mary to	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Chlorine	N/A	0.20	N/A	N/A	N/A	93	96	3.23	N/A	N/A	80 - 120	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

#### BATCH 51276 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed	
1006452-001B	06/16/10	06/16/10	06/16/10 7:39 PM					

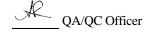
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



#### QC SUMMARY REPORT FOR SM4500-Cl DE

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 51276 WorkOrder 1006452

EPA Method SM4500-CI DE Extraction SM4500-CI DE						Spiked Sample ID: N/A						
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	Criteria (%)	
7 mary to	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Chlorine	N/A	0.20	N/A	N/A	N/A	93	96	3.23	N/A	N/A	80 - 120	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

#### BATCH 51276 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed	
1006452-001B	06/16/10	06/16/10	06/16/10 7:25 PM					

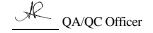
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



#### QC SUMMARY REPORT FOR SM9223B

Test Method: Total Coliform / E. Coli, Enumeration by SM9223B Matrix W WorkOrder 1006452

EPA Method SM9223B		BatchID: 51236	Duplicated SampID: 1006452-001A			
Acaba	Sample	Dup	%RPD	Blank		
Analyte	MPN/100ml	MPN/100ml		MPN/100ml		
Total Coliform	ND	ND	N/A	ND		
E Coli	ND	ND	N/A	ND		

#### BATCH 51236 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1006452-001A	06/16/1	06/16/10	06/17/10 6:03 PM				

% RPD = abs(Sample - Dup) / ((Sample + Dup) / 2) \* 100

N/A = Not Applicable

NR = %RPD may fall outside of laboratory acceptance criteria due to sample inconsistency between two containers.

QA/QC Officer

**DHS ELAP Certification 1644**