May 12, 2009

Kamron Saremi
Santa Ana Regional Water Quality Control Board
3737 Main St., Suite 500
Riverside, CA 92501

Subject: Revised copy of the *On-Site Biotreatment and Disposal of Investigation-Derived Water, Lockheed Martin Corporation, Beaumont Site 2, Riverside County, California*

Dear Mr. Saremi,

Please accept a revised copy of the *On-Site Biotreatment and Disposal of Investigation-Derived Water, Lockheed Martin Corporation, Beaumont Site 2, Riverside County, California*. The table for the summary of analytical results was inadvertently omitted from the original submitted yesterday, May 11, 2009.

Please accept our apologies for this oversight. If you have any questions, please do not hesitate to contact us at (909) 381-1674.

Sincerely,

Tetra Tech, Inc.

Mark Feldman, CHG CEG
Senior Geochemist

Thomas Villeneuve, PE
Project Manager

Enclosure: As stated

cc: Denise Kato, Lockheed-Martin (1 pdf only)
Gene Matsushita, Lockheed-Martin (1 hard copy and 1 pdf)

May 11, 2009

Mr. Kamron Saremi
Santa Ana Regional Water Quality Control Board
3737 Main St., Suite 500
Riverside, CA 92501

SUBJECT: On-Site Biotreatment And Disposal Of Investigation-Derived Water, Lockheed Martin Corporation, Beaumont Site 2, Riverside County, California

Dear Mr. Saremi:

The following letter has been prepared by Tetra Tech, Inc. on behalf of Lockheed Martin Corporation (LMC) in support of a planned request to discharge treated water to land at LMC Beaumont Site 2, located southwest of the City of Beaumont in Riverside County, California (the Site; Figure 1). The water was produced during recent site investigation activities at the Site, which are being conducted with oversight from the California Department of Toxic Substances Control (DTSC). Site activities which resulted in generation of the water include drilling, well development, groundwater sampling, and equipment decontamination. The water is currently being stored on-Site in two 20,000-gallon portable aboveground tanks and one roll-off bin.

LMC is in the process of conducting on-site biotreatment of the water to reduce perchlorate concentrations in the water to levels below the California Maximum Contaminant Level (MCL) of 6 µg/L. At the conclusion of treatment, and with the concurrence of the Santa

after the start of the test, and final confirmation samples were collected approximately 19 days after the start of the test. The initial water tank samples and/or the initial drum samples were analyzed for the following:

- Perchlorate (EPA Method 332.0)
- VOCs (EPA Method 8260B; tank sample only)
- TPH as gasoline and diesel (EPA Method 8015m; tank sample only)
- California Title 22 Metals (EPA Methods 6020/ 200.8; filtered samples)
- Nitrate (EPA Method 300.0)
- Orthophosphate Phosphorous (SM 4500P)
- Total Organic Carbon (TOC; SM 5310B)

The progress samples were analyzed for perchlorate only. The final confirmation samples were analyzed for most of the same compounds as the initial samples. Analytical results for the pilot test are summarized in Table 1; copies of the laboratory reports are provided in Attachment 1.

Briefly, the results of the pilot test were as follows:

- Biotreatment reduced perchlorate concentrations in the water to essentially non-detectable levels within approximately two to three weeks.
- The treatment process did not result in significant changes in dissolved metals concentrations, indicating that the anaerobic conditions under which biodegradation occurred did not result in undesirable solubilization of metals.
- Due to the uncertainty of the quantity of glycerine needed to achieve the appropriate redox conditions, the drum was dosed generously. As a result, phosphate and TOC concentrations increased slightly in the post-treatment sample. The quantity of amendments added for full-scale treatment will therefore be reduced accordingly.

Based on the results of the pilot test, full-scale treatment of the water tanks has been initiated. Treatment consists of amending each tank with approximately 27.5 gallons of water from the pilot test drum, 50 pounds of glycerine, and 2 pounds of diammonium phosphate, and closing off hatches and vents on the tanks to allow anaerobic conditions to develop. The glycerine dosage rate is approximately 22 times less than used in the pilot test; if necessary, additional glycerin can be added to maintainrred did nott.6(cerin can b)206 Tco.glyAwithin appr

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Based on the results of the pilot test, LMC requests that the SARWQCB provide concurrence that discharge of the treated water to land is an acceptable disposal option. The results of the confirmation sampling will be provided in a future submittal to the SARWQCB for review and final approval prior to discharging the water.

If you have any questions regarding this letter, please feel free to contact Tom Villeneuve or Mark Feldman of Tetra Tech at (909) 381-1674.

Sincerely,

Tetra Tech, Inc.

Mark Feldman, CHG CEG
Senior Geochemist

Thomas Villeneuve, PE
Project Manager

MF:dc

Attachments: Table 1 – Pilot Test Results
Figure 1 – Site Location Map
Figure 2 – Proposed Discharge Point
Attachment 1 – Laboratory Reports
Attachment 2 – Amendment Receipts and Material Safety Data Sheets

cc: Denise Kato (1 pdf only)
Gene Matsushita, LMC (1 hard copy & 1 pdf)

TABLE 1
Summary of Analytical Results
Biotreatment Pilot Test
LMC Beaumont Site 2

Analyte	Disposal Water Container	IDW1-031109	IDW-011809	IDW-032609	IDW1-033009
	01/09/09	03/11/09	03/18/09	03/26/09	03/30/09
Perchlorate[1] (µg/L)	3,100	2,200	1,600	<0.071	0.39
TPH gasoline[2] (mg/L)	<0.024	-	-	-	-
TPH diesel[2] (mg/L)	<0.46	-	-	-	-
VOCs[3] (µg/L)	All ND	-	-	-	-
Dissolved Metals[4] (mg/L)					
Antimony	-	<0.0030	-	-	<0.0030
Arsenic	-	0.0054	-	-	0.009
Barium	-	0.18	-	-	0.15
Beryllium	-	0.00058 J	-	-	0.00052 J
Cadmium	-	0.000098 J	-	-	0.00014 J
Total Chromium	-	0.029	-	-	0.034
Cobalt	-	0.0059 J	-	-	0.0049 J
Copper	-	0.019	-	-	0.014
Lead	-	0.0071	-	-	0.005
Mercury	-	<0.000032	-	-	<0.000032
Molybdenum	-	0.056	-	-	0.065
Nickel	-	0.0098 J	-	-	0.0091 J
Selenium	-	0.0027 J	-	-	<0.0025
Silver	-	<0.0050	-	-	<0.0050
Thallium	-	<0.00098	-	-	<0.00098
Vanadium	-	0.049	-	-	0.029
Zinc	-	0.026	-	-	0.025
Nitrate[5] (mg/L)	-	0.14	-	-	<0.11
Orthophosphate Phosphorous[6] (mg/L)	-	4.1	-	-	13
Total Organic Carbon[7] (mg/L)	-	740	-	-	2,900

Notes

- indicates not analyzed.

< indicates concentration below specified method detection limit (MDL).

J indicates estimated concentration.

ND indicates not detected above MDL; MDL varies by compound.

mg/L: milligrams per liter

µg/L: micrograms per liter

1) EPA Method 332.0
2) EPA Method 8015m
3) EPA Method 8260B
4) EPA Method 6020/200.8. Only results for filtered samples are shown.
5) EPA Method 300.0
6) Standard Method 4500P
7) Standard Method 5310B

FIGURES

ATTACHMENT 1 ANALYTICAL LAB DATA

Client Name: Tetra Tech, Inc. - San Bernardino
Contact: Mark Feldman
Address: 348 West Hospitality Lane, Suite 100
San Bernardino, CA 92408-3216

Project Name: Tetra-Tech Lockheed
Project Number: [none]

Work Order Number: A9A0762

Report Date: 14-Jan-2009

Received on Ice (Y/N): Yes Temp 15 °C

Attached is the analytical report for the sample(s) received for your project. Below is a list of the individual sample descriptions with the corresponding laboratory number(s). Also, enclosed is a copy of the Chain of Custody document (if received with your sample(s)). Please note any unused portion of the sample(s) may be responsibly discarded after 30 days from the above report date, unless you have requested otherwise.

Thank you for the opportunity to serve your analytical needs. If you have any questions or concerns regarding this report please contact our client service department.

Sample Identification

Lab Sample #	Client Sample ID	Matrix	Date Sampled	By	Date Submitted	By
A9A0762-01	Disposal Water Container 2 Beaumont Site	Liquid	01/09/09 15:00	Fernando Ramirez	01/09/09 16:44	Fernando Ramirez

Client Name: Tetra Tech, Inc. - San Bernardino
Contact: Mark Feldman
Address: 348 West Hospitality Lane, Suite 100
San Bernardino, CA 92408-3216

Project Name: Tetra-Tech Lockheed
Project Number: [none]

Work Order Number: A9A0762

Report Date: 14-Jan-2009

Yes 15

Client Name: Tetra Tech, Inc. - San Bernardino
Contact: Mark Feldman
Address: 348 West Hospitality Lane, Suite 100
San Bernardino, CA 92408-3216

Project Name: Tetra-Tech Lockheed
Project Number: [none]

Work Order Number: A9A0762

Report Date: 14-Jan-2009
Received on Ice (Y/N): Yes Temp 1.5 °C

Laboratory Reference Number
A9A0762-01

Sample Description	Matrix	Sampled Date/Time	Received Date/Time
Disposal Water Container Beaumont Site 2	Liquid	01/09/09 15:00	01/09/09 16:44

Analyte(s)	Result	RDL	MDL	Units	Method	Analysis Date	Analyst	Flag
Volatile Organic Compounds by EPA 8260B								
	ND							

Client Name: Tetra Tech, Inc. - San Bernardino
Contact: Mark Feldman
Address: 348 West Hospitality Lane, Suite 100
San Bernardino, CA 92408-3216

Project Name: Tetra-Tech Lockheed
Project Number: [none]

Work Order Number: A9A0762

Report Date: 14-Jan-2009

Received on Ice (Y/N): Yes Temp 15 °C

Laboratory Reference Number
A9A0762-01

Sample Description	Matrix	Sampled Date/Time	Received Date/Time
Disposal Water Container Beaumont Site 2	Liquid	01/09/09 15:00	01/09/09 16:44

Analyte(s)	Result	RDL	MDL	Units	Method	Analysis Date	Analyst	Flag
Volatile Organic Compounds by EPA 8260B								
trans-1,2-Dichloroethene	ND	0.50	0.10	ug/L	EPA 8260B	01/12/09 23:53	jes	
trans-1,3-Dichloropropene	ND	0.50	0.24	ug/L	EPA 8260B	01/12/09 23:53	jes	
Trichloroethene	ND	0.50	0.17	ug/L	EPA 8260B	01/12/09 23:53	jes	
Trichlorofluoromethane	ND	5.0	0.16	ug/L	EPA 8260B	01/12/09 23:53	jes	
Vinyl Acetate	ND	10	0.48	ug/L	EPA 8260B	01/12/09 23:53	jes	
Vinyl Chloride	ND	0.50	0.13	ug/L	EPA 8260B	01/12/09 23:53	jes	
Xylenes (m+p)	ND	0.50	0.36	ug/L	EPA 8260B	01/12/09 23:53	jes	
Xylenes (ortho)	ND	0.50	0.41	ug/L	EPA 8260B	01/12/09 23:53	jes	
Surrogate: 1,2-Dichloroethane-d4	109	% 80-124			EPA 8260B	01/12/09 23:53	jes	
Surrogate: Bromofluorobenzene	105	% 71-149			EPA 8260B	01/12/09 23:53	jes	
Surrogate: Toluene-d8	98.4	% 80-120			EPA 8260B	01/12/09 23:53	jes	

Client Name: Tetra Tech, Inc. - San Bernardino
Contact: Mark Feldman
Address: 348 West Hospitality Lane, Suite 100
San Bernardino, CA 92408-3216

Project Number:

Report Date:

Client Name: Tetra Tech, Inc. - San Bernardino
Contact: Mark Feldman
Address: 348 West Hospitality Lane, Suite 100
San Bernardino, CA 92408-3216

Project Name: Tetra-Tech Lockheed
Project Number: [none]

Work Order Number: A9A0762

Report Date: 14-Jan-2009

Received on Ice (Y/N): Yes Temp 15 °C

	Result	RDL	Units	Spike Level	Result

Client Name: Tetra Tech, Inc. - San Bernardino
Contact: Mark Feldman
Address: 348 West Hospitality Lane, Suite 100
San Bernardino, CA 92408-3216

Project Name: Tetra-Tech Lockheed
Project Number: [none]

Work Order Number: A9A0762

Report Date: 14-Jan-2009

Received on Ice (Y/N): Yes Temp 15 °C

	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag

Metals and Metalloids; EPA SW846 Series - Batch Quality Control

Analyte(s)	Result	RDL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 9A12042 - EPA 3015A SOP M02A											
Matrix Spike (9A12042-MS1)			Source: A9A0762-01		Prepared: 01/12/09		Analyzed: 01/13/09				
Antimony	0.997	0.030	0.015	mg/L	1.00	ND	99.7	75-125			
Arsenic	0.993	0.010	0.0081	mg/L	1.00	0.0310	96.2	75-125			
Barium	2.12	0.50	0.00028	mg/L	1.00	1.26	85.5	75-125			
Beryllium	1.04	0.0050	0.00086	mg/L	1.00	0.00453	103	75-125			
Cadmium	1.01	0.0050	0.00039	mg/L	1.00	0.000453	101	75-125			
Total Chromium	1.23	0.050	0.0025	mg/L	1.00	0.238	99.5	75-125			
Cobalt	1.07	0.050	0.0014	mg/L	1.00	0.0496	102	75-125			
Copper	1.13	0.050	0.0095	mg/L	1.00	0.134	99.9	75-125			
Lead	1.04	0.025	0.00042	mg/L	1.00	0.0455	99.3	75-125			
Molybdenum	1.13	0.050	0.0045	mg/L	1.00	0.0878	105	75-125			
Nickel	1.09	0.050	0.0075	mg/L	1.00	0.0879	101	75-125			
Selenium	0.946	0.025	0.013	mg/L	1.00	ND	94.6	75-125			
Silver	1.03	0.050	0.025	mg/L	1.00	ND	103	75-125			
Thallium	0.995	0.0050	0.0049	mg/L	1.00	ND	99.5	75-125			
Vanadium	1.25	0.050	0.013	mg/L	1.00	0.288	95.8	75-125			
Zinc	1.32	0.050	0.0070	mg/L	1.00	0.250	107	75-125			
Matrix Spike Dup (9A12042-MSD1)			Source: A9A0762-01		Prepared: 01/12/09		Analyzed: 01/13/09				
Antimony	0.975	0.030	0.015	mg/L	1.00	ND	97.5	75-125	2.27	20	
Arsenic	1.00	0.010	0.0081	mg/L	1.00	0.0310	97.4	75-125	1.19	20	
Barium	1.95	0.50	0.00028	mg/L	1.00	1.26	68.5	75-125	8.40	20	QMSD

Diesel Range Organics by EPA 8015 - Batch Quality Control

Analyte(s)	Result	RDL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 9A12009 - Microextraction											
Blank (9A12009-BLK1)					Prepared: 01/12/09 Analyzed: 01/13/09						
Diesel Range Hydrocarbons	6.22	2.0	0.46	mg/L							QHCno
Surrogate: Decachlorobiphenyl	0.967			mg/L	1.14		84.7	56-117			
LCS (9A12009-BS1)					Prepared: 01/12/09 Analyzed: 01/13/09						
Diesel Range Hydrocarbons	44.4	2.0	0.46	mg/L	45.7		97.1	60-110			
Surrogate: Decachlorobiphenyl	0.782			mg/L	1.14		68.5	56-117			
LCS Dup (9A12009-BSD1)					Prepared: 01/12/09 Analyzed: 01/13/09						
Diesel Range Hydrocarbons	37.4	2.0	0.46	mg/L	45.7		81.8	60-110	17.1	40	
Surrogate: Decachlorobiphenyl	1.02			mg/L	1.14		89.1	56-117			
Matrix Spike (9A12009-MS1)			Source: A9A0762-01		Prepared: 01/12/09 Analyzed: 01/13/09						
Diesel Range Hydrocarbons	41.1	2.0	0.46	mg/L	45.7	ND	89.9	28-126			
Surrogate: Decachlorobiphenyl	1.04			mg/L	1.14		90.8	56-117			
Matrix Spike Dup (9A12009-MSD1)			Source: A9A0762-01		Prepared: 01/12/09 Analyzed: 01/13/09						
Diesel Range Hydrocarbons	38.0	2.0	0.46	mg/L	45.7	ND	83.2	28-126	7.71	40	
Surrogate: Decachlorobiphenyl	0.988			mg/L	1.14		86.5	56-117			

Client Name: Tetra Tech, Inc. - San Bernardino
Contact: Mark Feldman
Address: 348 West Hospitality Lane, Suite 100
San Bernardino, CA 92408-3216

Report Date:

Volatile Organic Compounds by EPA 8260B - Batch Quality Control

Analyte(s)	Result	RDL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 9A12002 - Purge and Trap											
Blank (9A12002-BLK1)				Prepared & Analyzed: 01/12/09							
Trichlorofluoromethane	ND	5.0	0.16	ug/L							
Vinyl Acetate	ND	10	0.48	ug/L							
Vinyl Chloride	ND	0.50	0.13	ug/L							
Xylenes (m+p)	ND	0.50	0.36	ug/L							
Xylenes (ortho)	ND	0.50	0.41	ug/L							
Surrogate: 1,2-Dichloroethane-d4	107			ug/L	100		107	80-124			
Surrogate: Bromofluorobenzene	105			ug/L	100		105	71-149			
Surrogate: Toluene-d8	98.2			ug/L	100		98.2	80-120			
LCS (9A12002-BS1)				Prepared & Analyzed: 01/12/09							
1,1-Dichloroethane	25.6	0.50	0.098	ug/L	25.0		102	76-130			
1,1-Dichloroethene	26.2	0.50	0.12	ug/L	25.0		105	70-130			
1,4-Dichlorobenzene	24.2	0.50	0.072	ug/L	25.0		96.9	79-130			
Benzene	26.9	0.50	0.14	ug/L	25.0		108	70-130			
Bromodichloromethane	24.8	0.50	0.11	ug/L	25.0		99.3	70-132			
Bromoform	24.5	0.50	0.13	ug/L	25.0		98.0	65-141			
Chloroform	27.5	0.50	0.17	ug/L	25.0		110	70-130			
Dibromochloromethane	25.7	0.50	0.37	ug/L	25.0		103	70-130			
Ethylbenzene	24.6	0.50	0.26	ug/L	25.0		98.6	70-136			
Methyl tert Butyl Ether	27.5	5.0	0.29	ug/L	25.0		110	70-130			
Tetrachloroethene	23.2	0.50	0.17	ug/L	25.0		92.8	70-130			
Toluene	25.0	0.50	0.22	ug/L	25.0		99.8	70-130			
Trichloroethene	25.2	0.50	0.17	ug/L	25.0		101	70-130			
Vinyl Chloride	26.8	0.50	0.13	ug/L	25.0		107	60-130			
Xylenes (m+p)	51.9	0.50	0.36	ug/L	50.0		104	70-137			
Xylenes (ortho)	24.8	0.50	0.41	ug/L	25.0		99.0	70-136			
Surrogate: 1,2-Dichloroethane-d4	96.1			ug/L	100		96.1	80-124			
Surrogate: Bromofluorobenzene	99.5			ug/L	100		99.5	71-149			
Surrogate: Toluene-d8	99.8			ug/L	100		99.8	80-120			

Client Name: Tetra Tech, Inc. - San Bernardino
Mark Feldman
348 West Hospitality Lane, Suite 100
San Bernardino, CA 92408-3216

Report Date:

Volatile Organic Compounds by EPA 8260B - Batch Quality Control

Analyte(s)	Result	RDL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 9A12002 - Purge and Trap											
Duplicate (9A12002-DUP1)			Source: A9A0313-01		Prepared & Analyzed: 01/12/09						
Bromoform	ND	0.50	0.13	ug/L		ND				40	
Bromomethane	ND	0.50	0.48	ug/L		ND				40	
Carbon Disulfide	ND	0.50	0.36	ug/L		ND				40	
Carbon Tetrachloride	ND	0.50	0.15	ug/L		ND				40	
Chlorobenzene	ND	0.50	0.23	ug/L		ND				40	
Chloroethane	ND	0.50	0.35	ug/L		ND				40	
Chloroform	ND	0.50	0.17	ug/L		ND				40	
Chloromethane	ND	0.50	0.36	ug/L		ND				40	
cis-1,2-Dichloroethene	ND	0.50	0.18	ug/L		ND				40	
cis-1,3-Dichloropropene	ND	0.50	0.30	ug/L		ND				40	
Dibromochloromethane	ND	0.50	0.37	ug/L		ND				40	
Ethylbenzene	ND	0.50	0.26	ug/L		ND				40	
Methyl tert Butyl Ether	ND	5.0	0.29	ug/L		ND				40	
Methylene Chloride	ND	3.0	0.15	ug/L		ND				40	
Styrene	ND	0.50	0.22	ug/L		ND				40	
Tetrachloroethene	ND	0.50	0.17	ug/L		ND				40	
Toluene	ND	0.50	0.22	ug/L		ND				40	
trans-1,2-Dichloroethene	ND	0.50	0.10	ug/L		ND				40	
trans-1,3-Dichloropropene	ND	0.50	0.24	ug/L		ND				40	
Trichloroethene	ND	0.50	0.17	ug/L		ND				40	
Trichlorofluoromethane	ND	5.0	0.16	ug/L		ND				40	
Vinyl Acetate	ND	10	0.48	ug/L		ND				40	
Vinyl Chloride	ND	0.50	0.13	ug/L		ND				40	
Xylenes (m+p)	ND	0.50	0.36	ug/L		ND				40	
Xylenes (ortho)	ND	0.50	0.41	ug/L		ND				40	
Surrogate: 1,2-Dichloroethane-d4	108			ug/L	100		108	80-124			
Surrogate: Bromofluorobenzene	104			ug/L	100		104	71-149			
Surrogate: Toluene-d8	97.1			ug/L	100		97.1	80-120			

Client Name:

Report Date:

Client Name: Tetra Tech, Inc. - San Bernardino
Contact: Mark Feldman
Address: 348 West Hospitality Lane, Suite 100
San Bernardino, CA 92408-3216

Project Name: Tetra-Tech Lockheed
Project Number: [none]

Work Order Number: A9A0762

Report Date: 14-Jan-2009
Received on Ice (Y/N): Yes Temp 15 °C

Notes and Definitions

J	Estimated value
NRPDo	The RPD/precision of replicate analyses performed on this sample did not meet laboratory acceptance criteria.
QBLK	The method blank did not meet laboratory acceptance criteria.
QHCno	The quality control sample chromatographic pattern does NOT resemble the fuel standard used for quantitation.
QL-MS	Batch acceptance based on MS and/or MSD recovery within LCS criteria. The LCS recovery did not meet laboratory acceptance criteria.
QMint	Due to matrix interference, the MS and/or MSD did not meet laboratory acceptance criteria.

Client Name: Tetra Tech, Inc. - San Bernardino
Contact: Mark Feldman
Address: 348 West Hospitality Lane, Suite 100
San Bernardino, CA 92408-3216

Project Name: Tetra-Tech Lockheed
Project Number: [none]

Work Order Number: A9A0762

Report Date: 14-Jan-2009

Received on Ice (Y/N): Yes Temp: 15 °C

Client Name: Tetra Tech, Inc. - San Bernardino
Contact: Mark Feldman
Address: 348 West Hospitality Lane, Suite 100
San Bernardino, CA 92408-3216

Report Date: 14-Jan-2009

Analytical Report: Page 1 of 5
Project Name: Tetra-Tech Lockheed
Project Number: [none]

Work Order Number: A9A0768
Received on Ice (Y/N): Yes Temp: 15 °C

Attached is the analytical report for the sample(s) received for your project. Below is a list of the individual sample descriptions with the corresponding laboratory number(s). Also, enclosed is a copy of the Chain of Custody document (if received with your sample(s)). Please note any unused portion of the sample(s) may be responsibly discarded after 30 days from the above report date, unless you have requested otherwise.

Thank you for the opportunity to serve your analytical needs. If you have any questions or concerns regarding this report please contact our client service department.

Sample Identification

Lab Sample #	Client Sample ID	Matrix	Date Sampled	By	Date Submitted	By
A9A0768-01	Disposal Water Container 2 Beaumont Site	Liquid	01/09/09 15:00	Fernando Ramirez	01/09/09 16:44	Fernando Ramirez

Client Name: Tetra Tech, Inc. - San Bernardino
Contact: Mark Feldman
Address: 348 West Hospitality Lane, Suite 100
San Bernardino, CA 92408-3216

Project Name: Tetra-Tech Lockheed
Project Number: [none]

Work Order Number: A9A0768

Report Date: 14-Jan-2009

Received on Ice (Y/N): Yes Temp 15 °C

Laboratory Reference Number
A9A0768-01

Sample Description	Matrix	Sampled Date/Time	Received Date/Time
Disposal Water Container Beaumont Site 2	Liquid	01/09/09 15:00	01/09/09 16:44

Analyte(s)	Result	RDL	MDL	Units	Method	Analysis Date	Analyst	Flag
General Inorganics								
Perchlorate	3100	100	71	ug/L*	EPA 332.0	01/13/09 07:36	aa	

Client Name: Tetra Tech, Inc. - San Bernardino
Contact: Mark Feldman
Address: 348 West Hospitality Lane, Suite 100
San Bernardino, CA 92408-3216

Report Date: 14-Jan-2009

Project Name: Tetra-Tech Lockheed
Project Number: [none]

Work Order Number: A9A0768

Client Name: Tetra Tech, Inc. - San Bernardino

Report Date:

Client Name:

Report Date:

Client Name: Tetra Tech, Inc. - San Bernardino
Contact: Mark Feldman
Address: 348 West Hospitality Lane, Suite 100
San Bernardino, CA 92408-3216

Project Name: Tetra-Tech Lockheed
Project Number: [none]

Work Order Number: A9C1065
Report Date: 23-Mar-2009
Received on Ice (Y/N): Yes Temp 10 °C

Attached is the analytical report for the sample(s) received for your project. Below is a list of the individual sample descriptions with the corresponding laboratory number(s). Also, enclosed is a copy of the Chain of Custody document (if received with your sample(s)). Please note any unused portion of the sample(s) may be responsibly discarded after 30 days from the above report date, unless you have requested otherwise.

Thank you for the opportunity to serve your analytical needs. If you have any questions or concerns regarding this report please contact our client service department.

Sample Identification

Lab Sample #	Client Sample ID	Matrix	Date Sampled	By	Date Submitted	By
A9C1065-01	IDW1-031109 Beaumont Site 2	Liquid	03/11/09 15:36	David Bertolacci	03/11/09 16:06	David Bertolacci
A9C1065-02	IDW1-031109 (Dissolved) Beaumont Site 2	Liquid	03/11/09 15:36	David Bertolacci	03/11/09 16:06	David Bertolacci

Client Name: Tetra Tech, Inc. - San Bernardino
Contact: Mark Feldman
Address: 348 West Hospitality Lane, Suite 100
San Bernardino, CA 92408-3216

Report Date:

Client Name: Tetra Tech, Inc. - San Bernardino

348 West Hospitality Lane, Suite 100

Report Date:

Client Name: Tetra Tech, Inc. - San Bernardino
Contact: Mark Feldman
Address: 348 West Hospitality Lane, Suite 100
San Bernardino, CA 92408-3216

Project Name: Tetra-Tech Lockheed
Project Number: [none]

Report Date:

Client Name: Tetra Tech, Inc. - San Bernardino
Contact: Mark Feldman
Address: 348 West Hospitality Lane, Suite 100
San Bernardino, CA 92408-3216

Report Date: 23-Mar-2009

Project Name: Tetra-Tech Lockheed
Project Number: [none]

Work Order Number: A9C1065
Received on Ice (Y/N): Yes Temp: 10 °C

General Inorganics - Batch Quality Control

Analyte(s)	Result	RDL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag

Batch 9C12054 - Analyzed as received

Blank (9C12054-BLK1) Prepared: 03/12/09 Analyzed: 03/14/09

Perchlor0.2250.5D2671.T1864134340.06d1P8TD30.T(Pe Tjrep8 -0.03 f 0)11SAnalyzed: 03/14/09

Client Name: Tetra Tech, Inc. - San Bernardino
Contact: Mark Feldman
Address: 348 West Hospitality Lane, Suite 100
San Bernardino, CA 92408-3216

Project Name: Tetra-Tech Lockheed
Project Number: [none]

Work Order Number: A9C1065

Report Date: 23-Mar-2009

Yes 10

Metals and Metalloids - Batch Quality Control

Analyte(s)	Result	RDL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 9C16020 - 200.8/ No Digest M12											
Blank (9C16020-BLK1)					Prepared & Analyzed: 03/16/09						
Mercury	ND	0.0010	0.000032	mg/L							
LCS (9C16020-BS1)					Prepared & Analyzed: 03/16/09						
Mercury	0.00589	0.0010	0.000032	mg/L	0.00625		94.2	85-115			
Matrix Spike (9C16020-MS1)				Source: A9C1065-02	Prepared & Analyzed: 03/16/09						
Mercury	0.00638	0.0010	0.000032	mg/L	0.00625	ND	102	75-125			
Matrix Spike Dup (9C16020-MSD1)				Source: A9C1065-02	Prepared & Analyzed: 03/16/09						
Mercury	0.00628	0.0010	0.000032	mg/L	0.00625	ND	100	75-125	1.56	20	

Metals and Metalloids; EPA SW846 Series - Batch Quality Control

Analyte(s)	Result	RDL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 9C16020 - 200.8/ No Digest M12											
Blank (9C16020-BLK1)					Prepared & Analyzed: 03/16/09						
Antimony	ND	0.0060	0.0030	mg/L							
Arsenic	ND	0.0020	0.0016	mg/L							
Barium	ND	0.10	0.000056	mg/L							
Beryllium	ND	0.0010	0.00017	mg/L							
Cadmium	ND	0.0010	0.000077	mg/L							
Total Chromium	0.00262	0.010	0.00050	mg/L							J
Cobalt	ND	0.010	0.00028	mg/L							
Copper	ND	0.010	0.0019	mg/L							
Lead	ND	0.0050	0.000084	mg/L							
Molybdenum	ND	0.010	0.00090	mg/L							
Nickel	ND	0.010	0.0015	mg/L							
Selenium	ND	0.0050	0.0025	mg/L							
Silver	ND	0.010	0.0050	mg/L							
Thallium	ND	0.0010	0.00098	mg/L							
Vanadium	ND	0.010	0.0027	mg/L							
Zinc	ND	0.010	0.0014	mg/L							
LCS (9C16020-BS1)					Prepared & Analyzed: 03/16/09						
Antimony	0.119	0.0060	0.0030	mg/L	0.125		95.3	85-115			
Arsenic	0.124	0.0020	0.0016	mg/L	0.125		98.9	85-115			
Barium	0.125	0.10	0.000056	mg/L	0.125		99.9	85-115			
Beryllium	0.111	0.0010	0.00017	mg/L	0.125		88.9	85-115			
Cadmium	0.119	0.0010	0.000077	mg/L	0.125		95.1	85-115			
Total Chromium	0.122	0.010	0.00050	mg/L	0.125		97.6	85-115			
Cobalt	0.122	0.010	0.00028	mg/L	0.125		97.3	85-115			
Copper	0.120	0.010	0.0019	mg/L	0.125		95.8	85-115			
Lead	0.119	0.0050	0.000084	mg/L	0.125		95.2	85-115			
Molybdenum	0.125	0.010	0.00090	mg/L	0.125		100	85-115			
Nickel	0.122	0.010	0.0015	mg/L	0.125		97.4	85-115			
Selenium	0.120	0.0050	0.0025	mg/L	0.125		95.7	85-115			
Silver	0.136	0.010	0.0050	mg/L	0.125		109	85-115			
Thallium	0.120	0.0010	0.00098	mg/L	0.125		95.8	85-115			
Vanadium	0.133	0.010	0.0027	mg/L	0.125		106	85-115			
Zinc	0.123	0.010	0.0014	mg/L	0.125		98.0	85-115			

Client Name: Tetra Tech, Inc. - San Bernardino
Contact: Mark Feldman
Address: 348 West Hospitality Lane, Suite 100
San Bernardino, CA 92408-3216

Report Date:

Client Name: Tetra Tech, Inc. - San Bernardino
Contact: Mark Feldman
Address: 348 West Hospitality Lane, Suite 100
San Bernardino, CA 92408-3216

Report Date:

Project Number:

Client Name: Tetra Tech, Inc. - San Bernardino
Contact: Mark Feldman
Address: 348 West Hospitality Lane, Suite 100
San Bernardino, CA 92408-3216

Project Name: Tetra-Tech Lockheed
Project Number: [none]

Work Order Number: A9C1623
Report Date: 19-Mar-2009
Received on Ice (Y/N): Yes Temp:4 °C

Attached is the analytical report for the sample(s) received for your project. Below is a list of the individual sample descriptions with the corresponding laboratory number(s). Also, enclosed is a copy of the Chain of Custody document (if received with your sample(s)). Please note any unused portion of the sample(s) may be responsibly discarded after 30 days from the above report date, unless you have requested otherwise.

Thank you for the opportunity to serve your analytical needs. If you have any questions or concerns regarding this report please contact our client service department.

Sample Identification

Lab Sample #	Client Sample ID	Matrix	Date Sampled	By	Date Submitted	By
A9C1623-01	IDW-031809 Beaumont Site 2	Liquid	03/18/09 14:50	Jose R. Santoya	03/18/09 15:20	Jose R. Santoya

Client Name: Tetra Tech, Inc. - San Bernardino
Contact: Mark Feldman
Address: 348 West Hospitality Lane, Suite 100
San Bernardino, CA 92408-3216

Project Name: Tetra-Tech Lockheed
Project Number: [none]

Work Order Number: A9C1623

Report Date: 19-Mar-2009

Received on Ice (Y/N): Yes Temp:4 °C

Laboratory Reference Number
A9C1623-01

Sample Description	Matrix	Sampled Date/Time	Received Date/Time
IDW-031809 Beaumont Site 2	Liquid	03/18/09 14:50	03/18/09 15:20

Analyte(s)	Result	RDL	MDL	Units	Method	Analysis Date	Analyst	Flag
General Inorganics								
Perchlorate	1600	100	71	ug/L*	EPA 332.0	03/19/09 08:52	aa	

Client Name: Tetra Tech, Inc. - San Bernardino
Contact: Mark Feldman
Address: 348 West Hospitality Lane, Suite 100
San Bernardino, CA 92408-3216

Project Name: Tetra-Tech Lockheed
Project Number: [none]

Work Order Number: A9C1623

Report Date: 19-Mar-2009

Received on Ice (Y/N): Yes Temp:4 °C

General Inorganics - Batch Quality Control

Analyte(s)	Result	RDL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 9C18040 - Analyzed as received											
Blank (9C18040-BLK1)					Prepared: 03/18/09 Analyzed: 03/19/09						
Perchlorate	ND	0.10	0.071	ug/L*							
LCS (9C18040-BS1)					Prepared: 03/18/09 Analyzed: 03/19/09						
Perchlorate	5.03	0.10	0.071	ug/L*	5.00		101	80-120			

Client Name: Tetra Tech, Inc. - San Bernardino

348 West Hospitality Lane, Suite 100

Report Date:

Client Name: Tetra Tech, Inc. - San Bernardino
Contact: Mark Feldman
Address: 348 West Hospitality Lane, Suite 100
San Bernardino, CA 92408-3216

Project Name:
Project Number: [none]

Report Date:

Client Name: Tetra Tech, Inc. - San Bernardino
Contact: Mark Feldman
348 West Hospitality Lane, Suite 100
San Bernardino, CA 92408-3216

Report Date:

Client Name: Tetra Tech, Inc. - San Bernardino
Contact: Mark Feldman
Address: 348 West Hospitality Lane, Suite 100
San Bernardino, CA 92408-3216

Project Name: Tetra-Tech Lockheed
Project Number: [none]

Work Order Number: A9C2262

Report Date: 27-Mar-2009

Received on Ice (Y/N): Yes Temp: 7°C

General Inorganics - Batch Quality Control

Analyte(s)	Result	RDL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 9C26042 - Analyzed as received											
Blank (9C26042-BLK1)					Prepared: 03/26/09 Analyzed: 03/27/09						
Perchlorate	ND	0.10	0.071	ug/L*							
LCS (9C26042-BS1)					Prepared: 03/26/09 Analyzed: 03/27/09						
Perchlorate	5.03	0.10	0.071	ug/L*	5.00		101	80-120			

Client Name: Tetra Tech, Inc. - San Bernardino

348 West Hospitality Lane, Suite 100

Report Date:

Client Name: Tetra Tech, Inc. - San Bernardino
Contact: Mark Feldman
Address: 348 West Hospitality Lane, Suite 100
San Bernardino, CA 92408-3216

Project Name: Tetra-Tech Lockheed
Project Number: [none]

Work Order Number: A9C2262

Report Date: 27-Mar-2009

Received on Ice (Y/N): Yes Temp: 7°C

Client Name: Tetra Tech, Inc. - San Bernardino
Contact: Michael Wilson
Address: 348 West Hospitality Lane, Suite 100
San Bernardino, CA 92408-3216

Project Number:

Report Date:

Client Name: Tetra Tech, Inc. - San Bernardino
Contact: Michael Wilson
Address: 348 West Hospitality Lane, Suite 100
San Bernardino, CA 92408-3216

Project Name: Tetra-Tech Lockheed
Project Number: TC#22289-090108

Work Order Number: A9C2429

Report Date: 31-Mar-2009
Received on Ice (Y/N): Yes Temp: 10 °C

Laboratory Reference Number
A9C2429-01

Sample Description	Matrix	Sampled Date/Time	Received Date/Time
IDW1-033009	Liquid	03/30/09 13:30	03/30/09 14:35

Analyte(s)	Result	RDL	MDL	Units	Method	Analysis Date	Analyst	Flag
Anions								
Sulfate	50	0.50		mg/L	EPA 300.0	03/30/09 19:11	AA	
Nitrate as N	ND	0.20	0.11	mg/L	EPA 300.0	03/30/09 19:11	AA	
Aggregate Organic Compounds								
Total Organic Carbon	2900	70		mg/L	SM 5310B	03/31/09 13:51	krv	
General Inorganics								
Perchlorate	0.39	0.10	0.071	ug/L*	EPA 332.0	03/30/09 23:05	aa	
Sulfide	ND	0.10		mg/L	SM 4500S2 D	03/30/09 18:10	kam	
Nutrients								
Ortho Phosphate Phosphorus	13	2.0		mg/L	SM 4500P E	03/31/09 11:40	je	

Anions - Batch Quality Control

Analyte(s)	Result	RDL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 9C30028 - Analyzed as received											
Blank (9C30028-BLK1)					Prepared & Analyzed: 03/30/09						
Sulfate	ND	0.50		mg/L							
Nitrate as N	ND	0.20	0.11	mg/L							
LCS (9C30028-BS1)					Prepared & Analyzed: 03/30/09						
Sulfate	46.8	0.50		mg/L	50.0		93.6	90-110			
Nitrate as N	10.8	0.20	0.11	mg/L	11.3		95.7	90-110			
Matrix Spike (9C30028-MS1)		**Source: A9C2359-02**			Prepared & Analyzed: 03/30/09						
Sulfate	191	0.50		mg/L	100	85.6	105	87-114			
Nitrate as N	7.94	0.20	0.11	mg/L	4.52	3.25	104	78-120			
Matrix Spike Dup (9C30028-MSD1)		**Source: A9C2359-02**			Prepared & Analyzed: 03/30/09						
Sulfate	192	0.50		mg/L	100	85.6	106	87-114	0.487	20	
Nitrate as N	7.87	0.20	0.11	mg/L	4.52	3.25	102	78-120	0.886	20	

Aggregate Organic Compounds - Batch Quality Control

Analyte(s)	Result	RDL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 9C31004 - As recieved											
Blank (9C31004-BLK1)					Prepared & Analyzed: 03/31/09						
Total Organic Carbon	ND	0.70		mg/L							
Blank (9C31004-BLK2)					Prepared & Analyzed: 03/31/09						
Total Organic Carbon	ND	0.70		mg/L							
LCS (9C31004-BS1)					Prepared & Analyzed: 03/31/09						
Total Organic Carbon	4.52	0.70		mg/L	4.00		113	90-110			QL-MS
LCS (9C31004-BS2)					Prepared & Analyzed: 03/31/09						
Total Organic Carbon	4.55	0.70		mg/L	4.00		114	90-110			QL-MS
Matrix Spike (9C31004-MS1)		**Source: A9C2280-01**			Prepared & Analyzed: 03/31/09						
Total Organic Carbon	11.4	0.70		mg/L	4.00	7.14	106	80-120			
Matrix Spike Dup (9C31004-MSD1)		**Source: A9C2280-01**			Prepared & Analyzed: 03/31/09						
Total Organic Carbon	11.6	0.70		mg/L	4.00	7.14	111	80-120	1.57	10	

Client Name:
Contact: Michael Wilson
Address: 348 West Hospitality Lane, Suite 100

Project Name:
Project Number: TC#22289-090108

Work Order Number: A9C2429

Report Date: 31-Mar-2009

Received on Ice (Y/N):p: Yes℃ 10

Nutrients - Batch Quality Control

Analyte(s)	Result	RDL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 9C31027 - Filter if turbid.											
LCS (9C31027-BS1)					Prepared & Analyzed: 03/31/09						
Ortho Phosphate Phosphorus	0.551	0.050		mg/L	0.500		110	90-110			
Matrix Spike (9C31027-MS1)		**Source: A9C2429-01**			Prepared & Analyzed: 03/31/09						
Ortho Phosphate Phosphorus	35.9	2.0		mg/L	20.0	13.2	114	80-120			
Matrix Spike Dup (9C31027-MSD1)		**Source: A9C2429-01**			Prepared & Analyzed: 03/31/09						
Ortho Phosphate Phosphorus	34.9	2.0		mg/L	20.0	13.2	109	80-120	2.71	20	

Client Name: Tetra Tech, Inc. - San Bernardino
Contact: Michael Wilson
Address: 348 West Hospitality Lane, Suite 100
San Bernardino, CA 92408-3216

Project Name: Tetra-Tech Lockheed
Project Number: TC#22289-090108

Work Order Number: A9C2429

Report Date: 31-Mar-2009
Received on Ice (Y/N): Yes Temp: 10 °C

Notes and Definitions

QL-MS Batch acceptance based on MS and/or MSD recovery within LCS criteria. The LCS recovery did not meet laboratory acceptance criteria.

ND: Analyte NOT DETECTED at or above the Method Detection Limit **(if MDL is reported)**, otherwise at or above the Reportable Detection Limit (RDL)

NR: Not Reported

RDL: Reportable Detection Limit

MDL: Method Detection Limit

* / (

Client Name: Tetra Tech, Inc. - San Bernardino
Contact: Michael Wilson
Address: 348 West Hospitality Lane, Suite 100
San Bernardino, CA 92408-3216

Project Name: Tetra-Tech Lockheed
Project Number: TC#22289-090108

Work Order Number: A9C2429

Report Date: 31-Mar-2009

Received on Ice (Y/N): Yes Temp: 10 °C

Client Name: Tetra Tech, Inc. - San Bernardino

Report Date:

Client Name: Tetra Tech, Inc. - San Bernardino
Contact: Michael Wilson
Address: 348 West Hospitality Lane, Suite 100
San Bernardino, CA 92408-3216

Project Name: Tetra-Tech Lockheed
Project Number: TC#22289-090108

Work Order Number: A9C2432

Report Date: 06-Apr-2009
Received on Ice (Y/N): Yes Temp: 10 °C

Laboratory Reference Number
A9C2432-01

Sample Description	Matrix	Sampled Date/Time	Received Date/Time
IDW1-033009 (Total)	Liquid	03/30/09 13:30	03/30/09 14:35

Analyte(s)	Result	RDL	MDL	Units	Method	Analysis Date	Analyst	Flag
Metals and Metalloids								
Mercury	ND	0.0010	0.000032	mg/L	EPA 200.8	04/02/09 11:16	krv	
Metals and Metalloids; EPA SW846 Series								
Antimony	ND	0.0060	0.0030	mg/L	EPA 6020	04/02/09 11:16	krv	NLOh
Arsenic	0.010	0.0020	0.0016	mg/L	EPA 6020	04/02/09 11:16	krv	
Barium	0.23	0.10	0.000056	mg/L	EPA 6020	04/02/09 11:16	krv	
Beryllium	0.00071	0.0010	0.00017	mg/L	EPA 6020	04/02/09 11:16	krv	J
Cadmium	0.00019	0.0010	0.000077	mg/L	EPA 6020	04/02/09 11:16	krv	J
Total Chromium	0.032	0.010	0.00050	mg/L	EPA 6020	04/02/09 14:30	krv	
Cobalt	0.0080	0.010	0.00028	mg/L	EPA 6020	04/02/09 11:16	krv	J
Copper	0.024	0.010	0.0019	mg/L	EPA 6020	04/02/09 11:16	krv	
Lead	0.0085	0.0050	0.000084	mg/L	EPA 6020	04/02/09 11:16	krv	
Molybdenum	0.069	0.010	0.00090	mg/L	EPA 6020	04/02/09 11:16	krv	
Nickel	0.015	0.010	0.0015	mg/L	EPA 6020	04/02/09 11:16	krv	
Selenium	ND	0.0050	0.0025	mg/L	EPA 6020	04/02/09 11:16	krv	
Silver	ND	0.010	0.0050	mg/L	EPA 6020	04/02/09 11:16	krv	
Thallium	ND	0.0010	0.00098	mg/L	EPA 6020	04/02/09 11:16	krv	
Vanadium	0.056	0.010	0.0027	mg/L	EPA 6020	04/03/09 17:24	ap	
Zinc	0.047	0.010	0.0014	mg/L	EPA 6020	04/02/09 11:16	krv	

Client Name: Tetra Tech, Inc. - San Bernardino
Contact: Michael Wilson
Address: 348 West Hospitality Lane, Suite 100
San Bernardino, CA 92408-3216

Project Name: Tetra-Tech Lockheed
Project Number: TC#22289-090108

Work Order Number: A9C2432

Report Date: 06-Apr-2009
Received on Ice (Y/N): Yes Temp: 10 °C

Laboratory Reference Number
A9C2432-02

Sample Description	Matrix	Sampled Date/Time	Received Date/Time
IDW1-033009 (Dissolved)	Liquid	03/30/09 13:30	03/30/09 14:35

Analyte(s)	Result	RDL	MDL	Units	Method	Analysis Date	Analyst	Flag
Metals and Metalloids								
Mercury	ND	0.0010	0.000032	mg/L	EPA 200.8	04/02/09 10:46	krv	
Metals and Metalloids; EPA SW846 Series								
Antimony	ND	0.0060	0.0030	mg/L	EPA 6020	04/02/09 10:46	krv	
Arsenic	0.0090	0.0020	0.0016	mg/L	EPA 6020	04/02/09 10:46	krv	
Barium	0.15	0.10	0.000056	mg/L	EPA 6020	04/02/09 10:46	krv	
Beryllium	0.00052	0.0010	0.00017	mg/L	EPA 6020	04/02/09 10:46	krv	J
Cadmium	0.00014	0.0010	0.000077	mg/L	EPA 6020	04/02/09 10:46	krv	J
Total Chromium	0.034	0.010	0.00050	mg/L	EPA 6020	04/02/09 14:49	krv	
Cobalt	0.0049	0.010	0.00028	mg/L	EPA 6020	04/02/09 10:46	krv	J
Copper	0.014	0.010	0.0019	mg/L	EPA 6020	04/02/09 10:46	krv	
Lead	0.0050	0.0050kd,-22738.7(0.0050)0.10670 Tw(kd,-22738.7(l 0h-0.00 TD396r-0.0017 Tc0.0039 Tw						

Copper	0.010		mg/L	EPA 6020	04/02/09 10:46	0865.5(0)Tj9 0 0 9 226

Client Name: Tetra Tech, Inc. - San Bernardino
Contact: Michael Wilson
Address: 348 West Hospitality Lane, Suite 100
San Bernardino, CA 92408-3216

Project Name: Tetra-Tech Lockheed
Project Number: TC#22289-090108

Work Order Number: A9C2432

Report Date: 06-Apr-2009
Received on Ice (Y/N): Yes Temp: 10 °C

Metals and Metalloids - Batch Quality Control

Analyte(s)	Result	RDL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag

Metals and Metalloids; EPA SW846 Series - Batch Quality Control

Analyte(s)	Result	RDL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 9D01003 - EPA 3015A SOP M02A											
Blank (9D01003-BLK1)					Prepared: 04/01/09 Analyzed: 04/02/09						
Antimony	ND	0.0060	0.0030	mg/L							
Arsenic	ND	0.0020	0.0016	mg/L							
Barium	0.0000880	0.10	0.000056	mg/L							J
Beryllium	ND	0.0010	0.00017	mg/L							
Cadmium	ND	0.0010	0.000077	mg/L							
Total Chromium	ND	0.010	0.00050	mg/L							
Cobalt	ND	0.010	0.00028	mg/L							
Copper	ND	0.010	0.0019	mg/L							
Lead	0.000115	0.0050	0.000084	mg/L							J
Molybdenum	ND	0.010	0.00090	mg/L							
Nickel	ND	0.010	0.0015	mg/L							
Selenium	ND	0.0050	0.0025	mg/L							
Silver	ND	0.010	0.0050	mg/L							
Thallium	ND	0.0010	0.00098	mg/L							
Zinc	0.00412	0.010	0.0014	mg/L							J
LCS (9D01003-BS1)					Prepared: 04/01/09 Analyzed: 04/02/09						
Antimony	0.246	0.0060	0.0030	mg/L	0.200		123	85-115			QLout
Arsenic	0.219	0.0020	0.0016	mg/L	0.200		110	85-115			
Barium	0.226	0.10	0.000056	mg/L	0.200		113	85-115			
Beryllium	0.229	0.0010	0.00017	mg/L	0.200		115	85-115			
Cadmium	0.224	0.0010	0.000077	mg/L	0.200		112	85-115			
Total Chromium	0.209	0.010	0.00050	mg/L	0.200		104	85-115			
Cobalt	0.227	0.010	0.00028	mg/L	0.200		113	85-115			
Copper	0.224	0.010	0.0019	mg/L	0.200		112	85-115			
Lead	0.234	0.0050	0.000084	mg/L	0.200		117	85-115			QL-MS
Molybdenum	0.234	0.010	0.00090	mg/L	0.200		117	85-115			QL-MS
Nickel	0.233	0.010	0.0015	mg/L	0.200		117	85-115			QL-MS
Selenium	0.220	0.0050	0.0025	mg/L	0.200		110	85-115			
Silver	0.227	0.010	0.0050	mg/L	0.200		113	85-115			
Thallium	0.229	0.0010	0.00098	mg/L	0.200		114	85-115			
Zinc	0.230	0.010	0.0014	mg/L	0.200		115	85-115			

Metals and Metalloids; EPA SW846 Series - Batch Quality Control

Analyte(s)	Result	RDL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 9D01003 - EPA 3015A SOP M02A											
Matrix Spike (9D01003-MS1)		**Source: A9C2369-01**			Prepared: 04/01/09		Analyzed: 04/02/09				
Antimony	0.280	0.0060	0.0030	mg/L	0.200	0.0352	122	75-125			
Arsenic	0.230	0.0020	0.0016	mg/L	0.200	0.0190	105	75-125			
Barium	0.955	0.10	0.000056	mg/L	0.200	0.746	104	75-125			
Beryllium	0.221	0.0010	0.00017	mg/L	0.200	0.00320	109	75-125			
Cadmium	0.255	0.0010	0.000077	mg/L	0.200	0.0348	110	75-125			
Total Chromium	0.279	0.010	0.00050	mg/L	0.200	0.0681	105	75-125			
Cobalt	0.218	0.010	0.00028	mg/L	0.200	0.000309	109	75-125			
Copper	0.270	0.010	0.0019	mg/L	0.200	0.0582	106	75-125			
Lead	0.271	0.0050	0.000084	mg/L	0.200	0.0440	113	75-125			
Molybdenum	0.348	0.010	0.00090	mg/L	0.200	0.117	115	75-125			
Nickel	0.516	0.010	0.0015	mg/L	0.200	0.303	106	75-125			
Selenium	0.274	0.0050	0.0025	mg/L	0.200	0.0622	106	75-125			
Silver	0.280	0.010	0.0050	mg/L	0.200	0.0566	112	75-125			
Thallium	0.224	0.0010	0.00098	mg/L	0.200	0.00382	110	75-125			
Zinc	1.21	0.010	0.0014	mg/L	0.200	0.974	116	75-125			
Matrix Spike Dup (9D01003-MSD1)		**e0**			Prepared: 04/01/09		Analyzed: 04/02/09				

Client Name: Tetra Tech, Inc. - San Bernardino
Contact: Michael Wilson
Address: 348 West Hospitality Lane, Suite 100
San Bernardino, CA 92408-3216

Project Name: Tetra-Tech Lockheed
Project Number: TC#22289-090108

Work Order Number: A9C2432

Report Date: 06-Apr-2009
Received on Ice (Y/N): Yes Temp: 10 °C

Metals and Metalloids; EPA SW846 Series - Batch Quality Control

Analyte(s)	Result	RDL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 9D03005 - EPA 3015A SOP M02A											
Blank (9D03005-BLK1)					Prepared & Analyzed: 04/03/09						
Vanadium	0.00303	0.010	0.0027	mg/L							J
LCS (9D03005-BS1)					Prepared & Analyzed: 04/03/09						
Vanadium	0.208	0.010	0.0027	mg/L	0.200		104	85-115			
Matrix Spike (9D03005-MS1)				**Source: A9C2369-01RE**	Prepared & Analyzed: 04/03/09						
Vanadium	0.595	0.010	0.0027	mg/L	0.200	0.417	88.8	75-125			
Matrix Spike Dup (9D03005-MSD1)				**Source: A9C2369-01RE**	Prepared & Analyzed: 04/03/09						
Vanadium	0.640	0.010	0.0027	mg/L	0.200	0.417	112	75-125	7.40	20	

Client Name: Tetra Tech, Inc. - San Bernardino
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Project Number: TC#22289-090108

Work Order Number: A9C2432

Report Date: 06-Apr-2009

Received on Ice (Y/N): Yes Temp: 10 °C

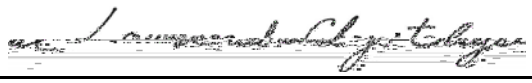
Notes and Definitions

J	Estimated value
NLOh	The LCS was biased high. The recovery did not meet laboratory acceptance criteria. Data is suspect.
QL-MS	Batch acceptance based on MS and/or MSD recovery within LCS criteria. The LCS recovery did not meet laboratory acceptance criteria.
QLout	The LCS and/or LCSD recovery did not meet laboratory acceptance criteria.
ND:	Analyte NOT DETECTED at or above the Method Detection Limit **(if MDL is reported)**, otherwise at or above the Reportable Detection Limit (RDL)
NR:	Not Reported
RDL:	Reportable Detection Limit
MDL:	Method Detection Limit

* / (Non-NELAP): NELAP does not offer accreditation for this analyte/method/matrix combination

Approval

Enclosed are the analytical results for the submitted sample(s). Babcock Laboratories certify the data presented as part of this report meet the minimum quality standards in the referenced analytical methods. Any exceptions have been noted. Babcock Laboratories and its officers and employees assume no responsibility and make no warranty, express or implied, for uses or interpretations made by any recipients, intended or unintended, of this report.



Lawrence J. Chrystal

Laboratory Director

cc:

ESB_mdl_PDF Report

Client Name: Tetra Tech, Inc. - San Bernardino
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Received on Ice (Y/N): Yes Temp: 10 °C

ATTACHMENT 2 MATERIAL SAFETY DATA SHEETS

Email to: CHRISTOPHER PATRICK

christopher.patrick@tetratech.com

BRENNTAG

4/08/09
14:39:21

TETRA TECH
348 WEST HOSPITALITY LANE
SUITE 100
SAN BERNARDINO, CA 92408

THANK YOU FOR PLACING YOUR ORDER WITH BRENNTAG PACIFIC. PLEASE TAKE A MOMENT TO REVIEW YOUR ORDER CONFIRMATION TO ENSURE THAT WE HAVE MET YOUR REQUIREMENTS AND NOTIFY ME IF YOU FIND ANY DISCREPANCIES.

PLEASE NOTE THAT YOUR ORDER WILL BE INVOICED AT YOUR CURRENT PRICE IN EFFECT AT THE TIME OF SHIPMENT.

WE APPRECIATE YOUR CHOOSING BRENNTAG TO SERVICE YOUR CHEMICAL NEEDS. IF YOU HAVE ANY QUESTIONS OR CONCERNS, PLEASE DO NOT HESITATE TO CONTACT ME.

JANET WRAY, INSIDE SALES
PHONE: 562-777-9306
EMAIL: JWRAY@BRENNTAG.COM

NOTE: OUR TERMS ARE AVAILABLE FOR REVIEW AT WWW.BRENNTAG.CC. TERMS IN EFFECT AT THE TIME OF DELIVERY SHALL GOVERN THIS ORDER.

BRENNTAG

B/L#....: 680343-00 Ship Date.: 4/08/09
Cust#...: 403557 PO#.....: 22289-090108
Ship Via: UPS Ordered by: CHRISTOPHER PATRICK
Terms...: COD-CO CHECK

Ship to: TETRA TECH
348 WEST HOSPITALITY LANE
SUITE 100
SAN BERNARDINO, CA 92408

Product Name / Product Desc	Prod# / -- Packaging --	Quantity	Unit Price / Cust Prod Desc	Ext Price
GLYCERINE 96-99.5%	309308	2.0000	4.5400	454.00
	>A RPK 50.0000#PAIL			

Total Merchandise...:	454.00
Freight Charge.....:	50.00
Insurance Surcharge.:	25.00
Fuel Surcharge.....:	27.50
Tax.....:	45.61
Total Order Value...:	602.11

Material Safety Data Sheet

Glycerol

ACC# 96127

Section 1 - Chemical Product and Company Identification

MSDS Name: Glycerol
Catalog Numbers: AC158920000, AC158920200, 15892-0010, 15892-0025, 15892-0250, G33-1, G33-1LC, G33-20, G33-200, G33-4, G33-4LC, G33-500, G33P-200, NC9581172
Synonyms: Glycerol; 1,2,3-Propanetriol; Glyceritol; Glycic Alcohol; 1,2,3-Trihydroxypropane; 1,2,3-Propanetriol
Company Iden tification:

Fisher Scientific
1 Reagent Lane
Fair Lawn, NJ 07410

For information, call: 201-796-7100
Emergency Number: 201-796-7100
For CHEMTREC assistance, call: 800-424-9300
For International CHEM TREC assistance, call: 703-527-3887

Glycerol	99.0	2 0-289-5

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: Clear liquid.
Caution! May cause eye, skin, and respiratory tract irri tation. This is expected to be a low hazard

Eyes: Flush eyes with plenty of water for at leas t 15 minutes, occasionally lifting the upper and lower eyelids. If irritation develops, get medi cal aid.
Skin: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.
Ingestion: Never give anything by mouth to an unco nscious person. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water. Get medical aid if irritation or symptoms occur.
Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.
Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contain ed breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by th ermal decomposition or combustion. Use water spray to keep fire-exposed containers cool. Vapors may be heavier than air. They can spread alon g the ground and collect in low or confined ar eas. Containers may explode when heated.
Extinguishing Media: Use water spray to cool fire-exposed containers. Use agent most appropriate to extinguish fire. Use water spray, dr y chemical, carbon dioxide, or appropriate foam.
Flash Point: 193 deg C (379.40 deg F)
Autoignition Temperature: 400 deg C (752.00 deg F)
Explosion Limits, Lower: 1.1
Upper: Not available.
NFPA Rating: (estimated) Health: 0; Fla mmability: 1; Instability: 0

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks: Absorb spill with inert material (e.g. verm iculite, sand or earth), then place in suitable container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Pr otective Equipment section. Remove all sources of ignition. Provide ventilation.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Wash thor oughly after handling. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Wash clothing before reuse.
Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. No special precautions indicated.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Glycerol	10 mg/m3 TWA	none listed	15 mg/m3 TWA (total); 5 mg/m3 TWA (respirable fraction)

OSHA Vacated PELs: Glycerol: 10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or ch emical safety goggles as described by OSHA's eye and face protection re gulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective glov es to prevent skin exposure.

Clothing: Wear appropriate protective clothing to minimize contact with skin.

Respirators: Follow the OSHA respirator regulati ons found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or Europe an Standard EN 149 approved respirator if exposure limits are exceeded or if irrita tion or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Appearance: Clear

Odor: faint odor

pH: Not available.

Vapor Pressure: 0.003 mbar @ 50 deg C

Vapor Density: 3.17 (H2O=1)

Evaporation Rate: Not available.

Viscosity: Not available.

Boiling Point: 290 deg C

Freezing/Melting Point: -6.7 deg C

Decomposition Temperature: 290 deg C

Solubility: Miscible in water. Insol. in chloroform,

Specific Gravity/Density: 1.4746

Molecular Formula: C3H8O3

Molecular Weight: 92.05

Section 10 - Stability and Reactivity

Chemical Stability: Stable.

Conditions to Avoid: Incompatible materials, ignition sources, excess heat.

Incompatibilities with Other Materials: Not available.

Hazardous Decomposition Products: Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.

Hazardous Polymerization: Will not occur.

Section 11 - Toxicolo gical Information

RTECS#:
CAS# 56-81-5: MA8050000
LD50/LC50:
CAS# 56-81-5:
Draize test, rabbit, eye: 126 mg Mild;
Draize test, rabbit, eye: 500 mg/24H Mild;
Draize test, rabbit, skin: 500 mg/24H Mild;
Inhalation, rat: LC50 = >570 mg/m3/1H;
Oral, mouse: LD50 = 4090 mg/kg;
Oral, rabbit: LD50 = 27 gm/kg;
Oral, rat: LD50 = 12600 mg/kg;
Skin, rabbit: LD50 = >10 gm/kg;
.

Carcinogenicity:
CAS# 56-81-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No information available.
Teratogenicity: No information available.
Reproductive Effects: No information available.
Mutagenicity: No information available.
Neurotoxicity: No information available.
Other Studies:

Section 12 - Ecological Information

Ecotoxicity: No data available. Cas# 56-81-5:LC50 (96 Hr.) rainbow trout = 50-67 mg/L; 12 degrees CLC50 (96 Hr.) goldfish = >5000 mg/L
Environmental: No information available.
Physical: No information available.
Other: No information available.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
RCRA P-Series: None listed.
RCRA U-Series: None listed.

Section 14 - Transport Information

	US DOT	Canada TDG
Shipping Name:	Please contact Fisher Scientific for shipping information	No information available.
Hazard Class:		
UN Number:		

US FEDERAL

TSCA
CAS# 56-81-5 is listed on the TSCA inventory.
Health & Safety Reporting List
None of the chemicals are on the Health & Safety Reporting List.
Chemical Test Rules
None of the chemicals in this product are under a Chemical Test Rule.
Section 12b
None of the chemicals are listed under TSCA Section 12b.
TSCA Significant New Use Rule
None of the chemicals in this material have a SNUR under TSCA.
CERCLA Hazardous Substances and corresponding RQs
None of the chemicals in this material have an RQ.
SARA Section 302 Extremely Hazardous Substances
None of the chemicals in this product have a TPQ.
SARA Codes
CAS # 56-81-5: delayed.
Section 313 No chemicals are reportable under Section 313.
Clean Air Act:
This material does not contain any hazardous air pollutants.
This material does not contain any Class 1 Ozone depletors.
This material does not contain any Class 2 Ozone depletors.
Clean Water Act:
None of the chemicals in this product are listed as Hazardous Substances under the CWA.

Material Safety Data Sheet

Ammonium phosphate, dibasic

ACC# 01350

MSDS Name: Ammonium phosphate, dibasic
Catalog Numbers: AC201820000, AC201822500, AC201825000, AC423370000, AC423370050, 42337-5000, A686-500, A686500LC, BP361-500
Synonyms: Diammonium hydrogen phosphate; DAP.
Company Iden tification:

Fisher Scientific
1 Reagent Lane
Fair Lawn, NJ 07410

For information, call: 201-796-7100
Emergency Number: 201-796-7100
For CHEMTREC assistance, call: 800-424-9300
For International CHEM TREC assistance, call: 703-527-3887

EMERGENCY OVERVIEW

Appearance: white solid.
Warning! Causes eye, skin, and respiratory tract irritation.
Target Organs: Respiratory system, eyes, skin.

Potential Health Effects
Eye: Causes eye irritation.
Skin: Causes skin irritation. May be harm ful if absorbed through the skin.
Ingestion: May cause irritation of the digestive tract. May be harmful if swallowed.
Inhalation: Causes respiratory tract irritation. May be harmful if inhaled.
Chronic: No information found.

Eyes:

Ingestion: Do not induce vomiting. Get medical aid.
Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
Notes to Physician: Treat symptomatically and supportively.

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Substance is noncombustible.
Extinguishing Media: Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.
Flash Point: Not applicable.
Autoignition Temperature: Not applicable.
Explosion Limits, Lower: Not available.
Upper: Not available.
NFPA Rating: (estimated) Health: 2; Flammability: 0; Instability: 1

General Information: Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks: Vacuum or sweep up material and place in to a suitable disposal container. Avoid generating dusty conditions. Provide ventilation. Do not let this chemical enter the environment.

Handling: Use with adequate ventilation. Minimize dust generation and accumulation. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale.
Storage: Store in a cool, dry place. Store in a tightly closed container.

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.
Exposure Limits

OSHA Vacated PELs: Ammonium p875 /F1 1 Limits

Skin: Wear appropriate protective glov es to prevent skin exposure.
Clothing: Wear appropriate protective clot hing to prevent skin exposure.
Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Physical State: Solid
Appearance:

Other Studies:

Section 12 - Ecological Information

Ecotoxicity: No data available. No information available.
Environmental: No information available.
Physical: No information available.
Other: Do not empty into drains.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
RCRA P-Series: None listed.
RCRA U-Series: None listed.

Section 14 - Transport Information

	US DOT	Canada TDG
Shipping Name:	Not regulated	Not Regulated
Hazard Class:		
UN Number:		
Packing Group:		

Section 15 - Regulatory Information

US FEDERAL

TSCA
CAS# 7783-28-0 is listed on the TSCA inventory.
Health & Safety Reporting List
None of the chemicals are on the Health & Safety Reporting List.
Chemical Test Rules
None of the chemicals in this product are under a Chemical Test Rule.
Section 12b
None of the chemicals are listed under TSCA Section 12b.
TSCA Significant New Use Rule
None of the chemicals in this material have a SNUR under TSCA.
CERCLA Hazardous Substances and corresponding RQs
None of the chemicals in this material have an RQ.
SARA Section 302 Extremely Hazardous Substances
None of the chemicals in this product have a TPQ.
SARA Codes
CAS # 7783-28-0: immediate.
Section 313 No chemicals are reportable under Section 313.

Clean Air Act:
This material does not contain any hazardous air pollutants.
This material does not co ntain any Class 1 Ozone depletors.
This material does not co ntain any Class 2 Ozone depletors.
Clean Water Act:
None of the chemicals in this product ar e listed as Hazardous Subs tances under the CWA.
None of the chemicals in this product ar e listed as Priority Pollutants under the CWA.
None of the chemicals in this product are listed as Toxic Poll utants under the CWA.
OSHA:
None of the chemicals in this produc t are considered highly hazardous by OSHA.
STATE
CAS# 7783-28-0 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accord ance with EC Directives
Hazard Symbols:
XI
Risk Phrases:
R 36/37/38 Irritating to eyes, respiratory system and skin.

Safety Phrases:
S 26 In case of contact with ey es, rinse immediately with plenty of water and seek medical advice.
S 37/39 Wear suitable gloves and eye/face protection.

WGK (Water Danger/Protection)
CAS# 7783-28-0: 1
Canada - DSL/NDSL
CAS# 7783-28-0 is listed on Canada's DSL List.
Canada - WHMIS
not available.
This product has been classified in accordance wi th the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.