

680 776β

File: 541.460.000n
C.H.



THE MEMPHIS DEPOT TENNESSEE

ADMINISTRATIVE RECORD COVER SHEET

AR File Number 680

Part II of II

Metals Data Reporting Form

Laboratory Control Sample Results

Lab Sample ID: DXT56CMatrix: Water Units: ug/L Prep Date: 3/23/01 Prep Batch: 1082102Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	Spike Level	Conc	Percent Recovery	Q	Range	DF	Instr	Anal Date	Anal Time
Aluminum	308.215	2000	1870	93.5		80-120	1	ICP	3/25/01	14:42
Antimony	220.353	500	491	98.1		80-120	1	ICPST	3/25/01	18:11
Arsenic	189.042	2000	1970	98.5		80-120	1	ICPST	3/25/01	18:11
Barium	493.409	2000	1910	95.3		80-120	1	ICP	3/25/01	14:42
Beryllium	313.042	50.0	46.6	93.3		80-120	1	ICP	3/25/01	14:42
Cadmium	226.502	50.0	47.1	94.2		80-120	1	ICPST	3/25/01	18:11
Calcium	317.933	50000	46900	93.8		80-120	1	ICP	3/25/01	14:42
Chromium	267.716	200	196	98.2		80-120	1	ICPST	3/25/01	18:11
Cobalt	228.616	500	469	93.9		80-120	1	ICP	3/25/01	14:42
Copper	324.754	250	238	95.1		80-120	1	ICP	3/25/01	14:42
Iron	259.94	1000	995	99.5		80-120	1	ICP	3/25/01	14:42
Lead	220.353	500	485	96.9		80-120	1	ICPST	3/25/01	18:11
Magnesium	279.079	50000	48500	97.0		80-120	1	ICP	3/25/01	14:42
Manganese	257.61	500	472	94.5		80-120	1	ICP	3/25/01	14:42
Nickel	231.604	500	476	95.1		80-120	1	ICP	3/25/01	14:42
Potassium	766.491	50000	47600	95.2		80-120	1	ICP	3/25/01	14:42
Selenium	220.353	2000	1950	97.7		80-120	1	ICPST	3/25/01	18:11
Silver	328.068	50.0	50.0	100.0		80-120	1	ICPST	3/25/01	18:11
Sodium	588.995	50000	48600	97.3		80-120	1	ICP	3/25/01	14:42
Thallium	190.864	2000	2040	102.0		80-120	1	ICPST	3/25/01	18:11
Vanadium	292.402	500	478	95.6		80-120	1	ICP	3/25/01	14:42
Zinc	213.856	500	470	94.0		80-120	1	ICP	3/25/01	14:42

Comments: Lot #: C1C220173

Version 4.10.2

U Result is less than the MDL

Form 7 Equivalent

B Result is between MDL and RL

680 778

STL-Pittsburgh

Metals Data Reporting Form

Laboratory Control Sample Results

Lab Sample ID: DXX3VCMatrix: Water Units: ug/L Prep Date: 3/26/01 Prep Batch: 1085094Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	Spike Level	Conc	Percent Recovery	Q	Range	DF	Instr	Anal Date	Anal Time
Mercury	253.7	2.5	2.5	100.4		80-120	1	CVAA	3/26/01	11:07

Comments: Lot #: C1C220173

Version 4.10.2

STL Pittsburgh

U Result is less than the MDL
B Result is between MDL and RL

Form 7 Equivalent

6045

STL-Pittsburgh
Metals Data Reporting Form

680 779

Serial Dilution RPD Report

Serial Dilution Sample ID: DXRH2P

Original Sample ID: DXRH2 Client ID: DF/24-B/1080/IDW/004

Matrix: Water Units: ug/L Prep Date: 3/23/01 Prep Batch: 1082102

Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	OS Conc	Q	Serial Dilution Conc	Q	Percent Diff	OS DF	Ser Dil DF	Instr	OS Anal Date	OS Anal Time	Ser Dil Anal Date	Ser Dil Anal Time
Aluminum	308.215	3750	N	3950		5.4 %	1	5	ICP	3/25/01	14:52	3/25/01	14:55
Antimony	220.353	4.9	B	12.0	B		1	5	ICPST	3/25/01	18:15	3/25/01	18:20
Arsenic	189.042	21.0		22.9	B		1	5	ICPST	3/25/01	18:15	3/25/01	18:20
Barium	493.409	112	B	127	B E	13.6 %	1	5	ICP	3/25/01	14:52	3/25/01	14:55
Beryllium	313.042	0.34	B	2.7	B		1	5	ICP	3/25/01	14:52	3/25/01	14:55
Cadmium	226.502	0.49	U	2.5	U		1	5	ICPST	3/25/01	18:15	3/25/01	18:20
Calcium	317.933	27400		29600		8.1 %	1	5	ICP	3/25/01	14:52	3/25/01	14:55
Chromium	267.716	145		149		2.7 %	1	5	ICPST	3/25/01	18:15	3/25/01	18:20
Cobalt	228.616	5.1	B	16.1	U		1	5	ICP	3/25/01	14:52	3/25/01	14:55
Copper	324.754	27.1		27.6	B		1	5	ICP	3/25/01	14:52	3/25/01	14:55
Iron	259.94	3600		3990	E	10.8 %	1	5	ICP	3/25/01	14:52	3/25/01	14:55
Lead	220.353	8.8		16.2			1	5	ICPST	3/25/01	18:15	3/25/01	18:20
Magnesium	279.079	5680		6410	B E	13.0 %	1	5	ICP	3/25/01	14:52	3/25/01	14:55
Manganese	257.61	99.5		112	E	12.9 %	1	5	ICP	3/25/01	14:52	3/25/01	14:55
Nickel	231.604	10.5	B	30.7	U		1	5	ICP	3/25/01	14:52	3/25/01	14:55
Potassium	766.491	5520		5670	B		1	5	ICP	3/25/01	14:52	3/25/01	14:55
Selenium	220.353	2.1	U	10.5	U		1	5	ICPST	3/25/01	18:15	3/27/01	18:59
Silver	328.068	1.5	B	4.7	U		1	5	ICPST	3/25/01	18:15	3/25/01	18:20
Sodium	588.995	3670000		2920000	E	20.6 %	25	125	ICP	3/25/01	19:19	3/25/01	19:22
Thallium	190.864	8.6	B	30.1	B		1	5	ICPST	3/25/01	18:15	3/25/01	18:20
Vanadium	292.402	10.7	B	24.1	B		1	5	ICP	3/25/01	14:52	3/25/01	14:55
Zinc	213.856	614		650		5.9 %	1	5	ICP	3/25/01	14:52	3/25/01	14:55

Comments: _____

Version 4.10.2

- U Result is less than the MDL
- B Result is between MDL and RL
- E Serial dilution percent difference not within limits

Form 9 Equivalent

680 780

STL-Pittsburgh
Metals Data Reporting Form

Instrument Detection Limits

Instrument: CVAA

Units: ppb

Element	Wavelength /Mass	Reporting Limit	MDL	Date of MDL
Mercury	253.70	0.2	0.054	1/24/01

Metals Data Reporting Form

Instrument Detection Limits

Instrument: ICPUnits: ppb

Element	Wavelength /Mass	Reporting Limit	MDL	Date of MDL
Aluminum	308.21	200	12.7	4/1/00
Barium	493.41	200	0.41	4/1/00
Beryllium	313.04	5	0.071	4/1/00
Calcium	317.93	5000	37.9	4/1/00
Cobalt	228.62	50	3.2	4/1/00
Copper	324.75	25	2.2	4/1/00
Iron	259.94	100	8.8	4/1/00
Magnesium	279.08	5000	19.9	4/1/00
Manganese	257.61	15	0.87	4/1/00
Nickel	231.60	40	6.1	4/1/00
Potassium	766.49	5000	496	4/1/00
Sodium	589.00	5000	14.5	4/1/00
Vanadium	292.40	50	1.8	4/1/00
Zinc	213.86	20	3.1	4/1/00

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STL-Pittsburgh

Metals Data Reporting Form

Instrument Detection Limits

Instrument: ICPSTUnits: ppb

Element	Wavelength /Mass	Reporting Limit	MDL	Date of MDL
Antimony	220.35	60	1.5	4/1/00
Arsenic	189.04	10	2.6	4/1/00
Cadmium	226.50	5	0.49	4/1/00
Chromium	267.72	10	1.0	4/1/00
Lead	220.35	3	1.9	4/1/00
Selenium	220.35	5	2.1	4/1/00
Silver	328.07	10	0.94	4/1/00
Thallium	190.86	10	3.9	4/1/00

STL-Pittsburgh
Metals Data Reporting Form

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Inter-Element Correction Factors

Instrument: ICP **Date of IEC's:** 3/2/01

Interfering Element	Wavelength /Mass	Correction Factor(s)
Aluminum	308.215	As(0.008569), Mn(0.000025), Pb(0.000632)
Antimony	206.838	Ni(-0.000354), Pb(-0.001557), Sn(-0.00417)
Arsenic	193.696	Cd(0.007291)
Barium	493.409	Co(0.000631)
Beryllium	313.042	Cd(0.00808)
Cadmium	228.802	Co(0.002654)
Chromium	267.716	Pb(-0.000925), Sb(0.008569), V(-0.002108)
Cobalt	228.616	Al(-0.004453), B(0.00232), Cd(-0.004299), Cu(-0.000959), Pb(-0.029108), Sb(-0.003991), Tl(0.008744)
Copper	324.754	Zn(0.004381)
Iron	259.94	Ag(-0.000227), As(0.00109), B(-0.002012), Cd(-0.000044), Cu(-0.000109), Mn(-0.000266), Mo(-0.000131), Pb(0.000343), Se(-0.003143), Sn(-0.0001176), Tl(0.015465), Zn(0.000077)
Manganese	257.61	Ag(0.000172), Tl(-0.005376)
Molybdenum	202.03	Al(0.012081), Cr(-0.000336), Mn(-0.000311), Sb(0.006459), V(-0.025228)
Nickel	231.604	Cd(-0.000465), Sb(-0.09347), Zn(0.003201)
Tin	189.989	Sb(0.001907)
Titanium	334.941	Co(0.001649), Fe(-0.003351), Sb(0.001736), Sn(0.003716)
Vanadium	292.402	Ag(-0.005641), Al(0.012439), As(0.016935), Be(0.003088), Cd(0.000028), Cr(0.000571), Sb(-0.004188), Si(-0.010896), Tl(0.00749), Zn(-0.004465)

STL-Pittsburgh

Metals Data Reporting Form

Inter-Element Correction Factors

Instrument: ICPSTDate of IEC's: 3/22/01

Interfering Element	Wavelength /Mass	Correction Factor(s)
Aluminum	308.215	Pb(0.000544), Tl(-0.00002)
Aluminum	308.215	Pb(-0.000175)
Chromium	267.716	Sb(0.008241)
Chromium	267.716	As(-0.003229), Sb(0.012398)
Cobalt	228.616	Pb(0.000058), Se(-0.000475)
Cobalt	228.616	Cd(-0.000081), Fe(0.086311), Ni(-0.000612), Pb(-0.000681), Se(0.000663), Tl(0.002869)
Iron	271.441	Cd(0.000142), Cr(-0.000015), Pb(0.00009), Sb(0.000031), Se(0.000057), Tl(0.00004), V(-0.00032), Zn(0.000116)
Iron	271.441	Pb(0.000051), Sb(0.000027), Se(-0.000331)
Magnesium	279.078	Fe(-0.000952)
Manganese	257.61	Se(0.000727), Tl(-0.004581)
Molybdenum	202.03	Pb(-0.000647), Sb(-0.010712)
Molybdenum	202.03	As(-0.000976), Pb(-0.000535), Sb(-0.001617), Se(0.000346)
Nickel	231.604	Pb(0.000252), Sb(-0.00114), Zn(0.004843)
Nickel	231.604	Pb(0.00014)
Vanadium	292.402	Al(0.016848), Be(-0.006118), Cr(-0.00018), Fe(0.00979), Sb(-0.00817), Se(0.000491), Tl(0.001797)
Vanadium	292.402	Pb(-0.000322)

Metals Data Reporting Form

Linear Dynamic RangesInstrument: CVAAUnits: ppb

Element	Wavelength /Mass	Linear Range	Date of Linear Range
Mercury	253.70	10	1/24/01

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STL-Pittsburgh

Metals Data Reporting Form

Linear Dynamic Ranges

Instrument: ICPUnits: ppb

Element	Wavelength /Mass	Linear Range	Date of Linear Range
Aluminum	308.21	600000	1/15/01
Barium	493.41	100000	1/15/01
Beryllium	313.04	15000	1/15/01
Calcium	317.93	600000	1/15/01
Cobalt	228.62	100000	1/15/01
Copper	324.75	100000	1/15/01
Iron	259.94	400000	1/15/01
Magnesium	279.08	600000	1/15/01
Manganese	257.61	100000	1/15/01
Nickel	231.60	100000	1/15/01
Potassium	766.49	1000000	1/15/01
Sodium	589.00	400000	1/15/01
Vanadium	292.40	100000	1/15/01
Zinc	213.86	100000	1/15/01

Metals Data Reporting Form

Linear Dynamic RangesInstrument: ICPSTUnits: ppb

Element	Wavelength /Mass	Linear Range	Date of Linear Range
Antimony	220.35	10000	3/22/01
Arsenic	189.04	10000	3/22/01
Cadmium	226.50	5000	3/22/01
Chromium	267.72	20000	3/22/01
Lead	220.35	5000	3/22/01
Selenium	220.35	10000	3/22/01
Silver	328.07	2000	3/22/01
Thallium	190.86	10000	3/22/01

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STL-Pittsburgh
Metals Data Reporting FormPreparation LogPreparation Batch: 1082102 Instrument: ICP Matrix: Water

Sample ID	Prep Date	Weight (g)	Volume (ml)	% Moisture
DXT56B	3/23/01	NA	50	NA
DXT56C	3/23/01	NA	50	NA
DXRH2	3/23/01	NA	50	NA
DXRH2D	3/23/01	NA	50	NA
DXRH2S	3/23/01	NA	50	NA
DXRKF	3/23/01	NA	50	NA

STL-Pittsburgh
Metals Data Reporting Form

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Preparation Log

Preparation Batch: 1085094 **Instrument:** CVAA **Matrix:** Water

Sample ID	Prep Date	Weight (g)	Volume (ml)	% Moisture
DXX3VB	3/26/01	NA	100	NA
DXX3VC	3/26/01	NA	100	NA
DXRH2	3/26/01	NA	100	NA
DXRH2D	3/26/01	NA	100	NA
DXRH2S	3/26/01	NA	100	NA
DXRKF	3/26/01	NA	100	NA

STL-Pittsburgh
Metals Data Reporting Form

Instrument Runlog

Instrument: CVAAChart Number: 0326HGA.PRN

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
Std1Rep1		3/26/01	9:30
Std2Rep1		3/26/01	9:31
Std3Rep1		3/26/01	9:33
Std4Rep1		3/26/01	9:34
Std5Rep1		3/26/01	9:36
Std6Rep1		3/26/01	9:37
ICV5-1		3/26/01	9:41
ICB1		3/26/01	9:42
CCV5-1		3/26/01	9:44
CCB1		3/26/01	9:45
ZZZZZZ		3/26/01	9:46
ZZZZZZ		3/26/01	9:48
ZZZZZZ		3/26/01	9:49
ZZZZZZ		3/26/01	9:51
ZZZZZZ		3/26/01	9:52
ZZZZZZ		3/26/01	9:54
ZZZZZZ		3/26/01	9:55
ZZZZZZ		3/26/01	9:57
ZZZZZZ		3/26/01	9:58
ZZZZZZ		3/26/01	10:00
CCV5-2		3/26/01	10:01
CCB2		3/26/01	10:03
ZZZZZZ		3/26/01	10:04
ZZZZZZ		3/26/01	10:06
ZZZZZZ		3/26/01	10:07
ZZZZZZ		3/26/01	10:09
ZZZZZZ		3/26/01	10:11
ZZZZZZ		3/26/01	10:13
ZZZZZZ		3/26/01	10:15
ZZZZZZ		3/26/01	10:16
ZZZZZZ		3/26/01	10:18
ZZZZZZ		3/26/01	10:20
CCV5-3		3/26/01	10:21
CCB3		3/26/01	10:23
ZZZZZZ		3/26/01	10:24
ZZZZZZ		3/26/01	10:26
ZZZZZZ		3/26/01	10:28
ZZZZZZ		3/26/01	10:29
ZZZZZZ		3/26/01	10:31

STL-Pittsburgh
Metals Data Reporting Form

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Instrument Runlog

Instrument: CVAA

Chart Number: 0326HGA.PRN

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		3/26/01	10:33
ZZZZZZ		3/26/01	10:34
ZZZZZZ		3/26/01	10:36
ZZZZZZ		3/26/01	10:37
ZZZZZZ		3/26/01	10:39
CCV5-4		3/26/01	10:40
CCB4		3/26/01	10:42
ZZZZZZ		3/26/01	10:44
ZZZZZZ		3/26/01	10:45
ZZZZZZ		3/26/01	10:47
ZZZZZZ		3/26/01	10:49
ZZZZZZ		3/26/01	10:50
ZZZZZZ		3/26/01	10:52
ZZZZZZ		3/26/01	10:53
ZZZZZZ		3/26/01	10:55
ZZZZZZ		3/26/01	10:56
ZZZZZZ		3/26/01	10:58
CCV5-5		3/26/01	11:00
CCB5		3/26/01	11:01
ZZZZZZ		3/26/01	11:03
ZZZZZZ		3/26/01	11:05
DXX3VB		3/26/01	11:06
DXX3VC		3/26/01	11:07
DXRH2	DF/24-B/1080/IDW/004	3/26/01	11:10
DXRH2S	DF/24-B/1080/IDW/004S	3/26/01	11:11
DXRH2D	DF/24-B/1080/IDW/004SD	3/26/01	11:13
DXRKF	DF/24-B/1080/IDW/005	3/26/01	11:15
CCV5-6		3/26/01	11:16
CCB6		3/26/01	11:18
ZZZZZZ		3/26/01	11:21
ZZZZZZ		3/26/01	11:22
ZZZZZZ		3/26/01	11:23
ZZZZZZ		3/26/01	11:26
ZZZZZZ		3/26/01	11:28

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STL-Pittsburgh

Metals Data Reporting Form

Instrument Runlog

Instrument: ICPChart Number: J10325A.ARC

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
STD1		3/25/01	13:54
STD5A		3/25/01	13:57
STD5B		3/25/01	14:00
ICV2-1		3/25/01	14:04
ICB1		3/25/01	14:07
ICSA		3/25/01	14:14
ICSAB		3/25/01	14:17
ZZZZZZ		3/25/01	14:20
ZZZZZZ		3/25/01	14:24
ZZZZZZ		3/25/01	14:27
ZZZZZZ		3/25/01	14:30
ZZZZZZ		3/25/01	14:33
ZZZZZZ		3/25/01	14:36
DXT56B		3/25/01	14:39
DXT56C		3/25/01	14:42
CCV2-1		3/25/01	14:46
CCB1		3/25/01	14:49
DXRH2	DF/24-B/1080/IDW/004	3/25/01	14:52
DXRH2P	DF/24-B/1080/IDW/004	3/25/01	14:55
DXRH2S	DF/24-B/1080/IDW/004S	3/25/01	14:58
DXRH2D	DF/24-B/1080/IDW/004SD	3/25/01	15:01
DXRKF	DF/24-B/1080/IDW/005	3/25/01	15:05
ZZZZZZ		3/25/01	15:23
ZZZZZZ		3/25/01	15:26
ZZZZZZ		3/25/01	15:29
ZZZZZZ		3/25/01	15:32
ZZZZZZ		3/25/01	15:35
CCV2-2		3/25/01	15:38
CCB2		3/25/01	15:42
ZZZZZZ		3/25/01	15:45
ZZZZZZ		3/25/01	15:51
ZZZZZZ		3/25/01	15:54
ZZZZZZ		3/25/01	15:57
ZZZZZZ		3/25/01	16:00
ZZZZZZ		3/25/01	16:03
ZZZZZZ		3/25/01	16:06
ZZZZZZ		3/25/01	16:09
ZZZZZZ		3/25/01	16:13
ZZZZZZ		3/25/01	16:16

Form 14 Equivalent

STL-Pittsburgh
Metals Data Reporting Form

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Instrument Runlog

Instrument: ICP

Chart Number: J10325A.ARC

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
CCV2-3		3/25/01	16:19
CCB3		3/25/01	16:22
ZZZZZZ		3/25/01	16:25
ZZZZZZ		3/25/01	16:28
ZZZZZZ		3/25/01	16:32
ZZZZZZ		3/25/01	16:35
ZZZZZZ		3/25/01	16:38
ZZZZZZ		3/25/01	16:41
ZZZZZZ		3/25/01	16:44
ZZZZZZ		3/25/01	16:47
ZZZZZZ		3/25/01	16:51
ZZZZZZ		3/25/01	16:54
CCV2-4		3/25/01	16:57
CCB4		3/25/01	17:00
ZZZZZZ		3/25/01	17:03
ZZZZZZ		3/25/01	17:06
ZZZZZZ		3/25/01	17:10
ZZZZZZ		3/25/01	17:13
ZZZZZZ		3/25/01	17:16
ZZZZZZ		3/25/01	17:19
ZZZZZZ		3/25/01	17:22
ZZZZZZ		3/25/01	17:25
ZZZZZZ		3/25/01	17:28
ZZZZZZ		3/25/01	17:32
CCV2-5		3/25/01	17:35
CCB5		3/25/01	17:38
ZZZZZZ		3/25/01	17:41
ZZZZZZ		3/25/01	17:44
ZZZZZZ		3/25/01	17:47
ZZZZZZ		3/25/01	17:51
ZZZZZZ		3/25/01	17:54
ZZZZZZ		3/25/01	17:57
ZZZZZZ		3/25/01	18:00
ZZZZZZ		3/25/01	18:03
ZZZZZZ		3/25/01	18:06
ZZZZZZ		3/25/01	18:10
CCV2-6		3/25/01	18:13
CCB6		3/25/01	18:16
ZZZZZZ		3/25/01	18:19

Form 14 Equivalent

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STL-Pittsburgh
Metals Data Reporting Form

Instrument Runlog

Instrument: ICPChart Number: J10325A.ARC

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		3/25/01	18:22
ZZZZZZ		3/25/01	18:25
ZZZZZZ		3/25/01	18:29
ZZZZZZ		3/25/01	18:32
ZZZZZZ		3/25/01	18:35
ZZZZZZ		3/25/01	18:38
ZZZZZZ		3/25/01	18:41
ZZZZZZ		3/25/01	18:44
ZZZZZZ		3/25/01	18:48
CCV2-7		3/25/01	18:51
CCB7		3/25/01	18:54
ZZZZZZ		3/25/01	18:57
ZZZZZZ		3/25/01	19:00
ZZZZZZ		3/25/01	19:03
ZZZZZZ		3/25/01	19:07
ZZZZZZ		3/25/01	19:10
ZZZZZZ		3/25/01	19:13
ZZZZZZ		3/25/01	19:16
DXRH2	DF/24-B/1080/IDW/004	3/25/01	19:19
DXRH2P	DF/24-B/1080/IDW/004	3/25/01	19:22
DXRH2S	DF/24-B/1080/IDW/004S	3/25/01	19:26
CCV2-8		3/25/01	19:29
CCB8		3/25/01	19:32
DXRH2D	DF/24-B/1080/IDW/004SD	3/25/01	19:35
DXRKF	DF/24-B/1080/IDW/005	3/25/01	19:38
CCV2-9		3/25/01	19:42
CCB9		3/25/01	19:45

STL-Pittsburgh
Metals Data Reporting Form

680 795

Instrument Runlog

Instrument: ICPST

Chart Number: T10325A.ARC

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
STD1		3/25/01	12:08
STD6		3/25/01	12:12
STD7		3/25/01	12:17
ICV3-1		3/25/01	12:22
ICB1		3/25/01	12:26
ICSA		3/25/01	12:31
ICSAB		3/25/01	12:35
ZZZZZZ		3/25/01	12:40
ZZZZZZ		3/25/01	12:44
ZZZZZZ		3/25/01	12:48
ZZZZZZ		3/25/01	12:53
ZZZZZZ		3/25/01	12:57
ZZZZZZ		3/25/01	13:02
ZZZZZZ		3/25/01	13:06
ZZZZZZ		3/25/01	13:11
ZZZZZZ		3/25/01	13:15
CCV3-1		3/25/01	13:19
CCB1		3/25/01	13:24
ZZZZZZ		3/25/01	13:28
ZZZZZZ		3/25/01	13:33
ZZZZZZ		3/25/01	13:37
ZZZZZZ		3/25/01	13:42
ZZZZZZ		3/25/01	13:46
ZZZZZZ		3/25/01	13:50
ZZZZZZ		3/25/01	13:55
ZZZZZZ		3/25/01	13:59
ZZZZZZ		3/25/01	14:04
ZZZZZZ		3/25/01	14:08
CCV3-2		3/25/01	14:13
CCB2		3/25/01	14:17
ZZZZZZ		3/25/01	14:21
ZZZZZZ		3/25/01	14:26
ZZZZZZ		3/25/01	14:30
ZZZZZZ		3/25/01	14:35
ZZZZZZ		3/25/01	14:39
ZZZZZZ		3/25/01	14:44
ZZZZZZ		3/25/01	14:48
ZZZZZZ		3/25/01	14:52
ZZZZZZ		3/25/01	14:57

Form 14 Equivalent

680 796

STL-Pittsburgh

Metals Data Reporting Form

Instrument Runlog

Instrument: ICPSTChart Number: T10325A.ARC

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
CCV3-3		3/25/01	15:01
CCB3		3/25/01	15:06
ZZZZZZ		3/25/01	15:10
ZZZZZZ		3/25/01	15:15
ZZZZZZ		3/25/01	15:19
ZZZZZZ		3/25/01	15:23
ZZZZZZ		3/25/01	15:28
ZZZZZZ		3/25/01	15:32
ZZZZZZ		3/25/01	15:37
ZZZZZZ		3/25/01	15:41
ZZZZZZ		3/25/01	15:46
ZZZZZZ		3/25/01	15:50
CCV3-4		3/25/01	15:54
CCB4		3/25/01	15:59
ZZZZZZ		3/25/01	16:05
ZZZZZZ		3/25/01	16:10
ZZZZZZ		3/25/01	16:14
ZZZZZZ		3/25/01	16:19
ZZZZZZ		3/25/01	16:23
ZZZZZZ		3/25/01	16:29
ZZZZZZ		3/25/01	16:33
ZZZZZZ		3/25/01	16:38
ZZZZZZ		3/25/01	16:42
ZZZZZZ		3/25/01	16:46
CCV3-5		3/25/01	16:51
CCB5		3/25/01	16:55
ZZZZZZ		3/25/01	17:00
ZZZZZZ		3/25/01	17:04
ZZZZZZ		3/25/01	17:09
ZZZZZZ		3/25/01	17:13
ZZZZZZ		3/25/01	17:17
ZZZZZZ		3/25/01	17:22
ZZZZZZ		3/25/01	17:26
ZZZZZZ		3/25/01	17:31
ZZZZZZ		3/25/01	17:35
ZZZZZZ		3/25/01	17:40
CCV3-6		3/25/01	17:44
CCB6		3/25/01	17:48
ZZZZZZ		3/25/01	17:53

Form 14 Equivalent

STL-Pittsburgh
Metals Data Reporting Form

680 797

Instrument Runlog

Instrument: ICPST

Chart Number: T10325A.ARC

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		3/25/01	17:57
ZZZZZZ		3/25/01	18:02
DXT56B		3/25/01	18:06
DXT56C		3/25/01	18:11
DXRH2	DF/24-B/1080/IDW/004	3/25/01	18:15
DXRH2P	DF/24-B/1080/IDW/004	3/25/01	18:20
DXRH2S	DF/24-B/1080/IDW/004S	3/25/01	18:24
DXRH2D	DF/24-B/1080/IDW/004SD	3/25/01	18:28
DXRKF	DF/24-B/1080/IDW/005	3/25/01	18:33
CCV3-7		3/25/01	18:37
CCB7		3/25/01	18:42
ZZZZZZ		3/25/01	18:46
ZZZZZZ		3/25/01	18:51
ZZZZZZ		3/25/01	18:55
ZZZZZZ		3/25/01	18:59
ZZZZZZ		3/25/01	19:04
ZZZZZZ		3/25/01	19:08
ZZZZZZ		3/25/01	19:13
ZZZZZZ		3/25/01	19:17
ZZZZZZ		3/25/01	19:22
ZZZZZZ		3/25/01	19:26
ZZZZZZ		3/25/01	19:31
ZZZZZZ		3/25/01	19:35
ZZZZZZ		3/25/01	19:39
ZZZZZZ		3/25/01	19:44
ZZZZZZ		3/25/01	19:48
ZZZZZZ		3/25/01	19:53
ZZZZZZ		3/25/01	19:57
ZZZZZZ		3/25/01	20:02
ZZZZZZ		3/25/01	20:06
ZZZZZZ		3/25/01	20:11
ZZZZZZ		3/25/01	20:15
ZZZZZZ		3/25/01	20:19
ZZZZZZ		3/25/01	20:24
ZZZZZZ		3/25/01	20:28
ZZZZZZ		3/25/01	20:33
ZZZZZZ		3/25/01	20:37
ZZZZZZ		3/25/01	20:42
ZZZZZZ		3/25/01	20:46

Form 14 Equivalent

STL-Pittsburgh

680 798

Metals Data Reporting Form

Instrument Runlog

Instrument: ICPST

Chart Number: T10325A.ARC

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		3/25/01	20:51
ZZZZZZ		3/25/01	20:55
ZZZZZZ		3/25/01	21:00
ZZZZZZ		3/25/01	21:04
ZZZZZZ		3/25/01	21:08
ZZZZZZ		3/25/01	21:13
ZZZZZZ		3/25/01	21:17
ZZZZZZ		3/25/01	21:22
ZZZZZZ		3/25/01	21:26
ZZZZZZ		3/25/01	21:31
ZZZZZZ		3/25/01	21:35
ZZZZZZ		3/25/01	21:40
ZZZZZZ		3/25/01	21:44
ZZZZZZ		3/25/01	21:48
ZZZZZZ		3/25/01	21:53
ZZZZZZ		3/25/01	21:57

STL-Pittsburgh
Metals Data Reporting Form

680 799

Instrument Runlog

Instrument: ICPST

Chart Number: T10327C.ARC

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		3/27/01	18:07
ZZZZZZ		3/27/01	18:12
ZZZZZZ		3/27/01	18:16
STD1		3/27/01	18:26
STD6		3/27/01	18:30
STD7		3/27/01	18:35
ICV3-1		3/27/01	18:39
ICB1		3/27/01	18:43
ICSA		3/27/01	18:48
ICSAB		3/27/01	18:52
DXRH2P	DF/24-B/1080/IDW/004	3/27/01	18:59
ZZZZZZ		3/27/01	19:04
ZZZZZZ		3/27/01	19:09
ZZZZZZ		3/27/01	19:13
ZZZZZZ		3/27/01	19:18
ZZZZZZ		3/27/01	19:22
ZZZZZZ		3/27/01	19:26
ZZZZZZ		3/27/01	19:31
CCV3-1		3/27/01	19:35
CCB1		3/27/01	19:40
ZZZZZZ		3/27/01	19:44
ZZZZZZ		3/27/01	19:49
ZZZZZZ		3/27/01	19:53
ZZZZZZ		3/27/01	19:58
ZZZZZZ		3/27/01	20:02
ZZZZZZ		3/27/01	20:06
ZZZZZZ		3/27/01	20:11
ZZZZZZ		3/27/01	20:15
ZZZZZZ		3/27/01	20:20
ZZZZZZ		3/27/01	20:24
ZZZZZZ		3/27/01	20:28
ZZZZZZ		3/27/01	20:33
ZZZZZZ		3/27/01	20:37
ZZZZZZ		3/27/01	20:42
ZZZZZZ		3/27/01	20:46
ZZZZZZ		3/27/01	20:51
ZZZZZZ		3/27/01	20:55
ZZZZZZ		3/27/01	20:59
ZZZZZZ		3/27/01	21:04

Form 14 Equivalent

680 800

STL-Pittsburgh

Metals Data Reporting Form

Instrument Runlog

Instrument: ICPSTChart Number: T10327C.ARC

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		3/27/01	21:08
ZZZZZZ		3/27/01	21:13
ZZZZZZ		3/27/01	21:17
ZZZZZZ		3/27/01	21:22
ZZZZZZ		3/27/01	21:26
ZZZZZZ		3/27/01	21:31
ZZZZZZ		3/27/01	21:35
ZZZZZZ		3/27/01	21:39
ZZZZZZ		3/27/01	21:44
ZZZZZZ		3/27/01	21:48
ZZZZZZ		3/27/01	21:53
ZZZZZZ		3/27/01	21:57
ZZZZZZ		3/27/01	22:02
ZZZZZZ		3/27/01	22:06
ZZZZZZ		3/27/01	22:10
ZZZZZZ		3/27/01	22:15
ZZZZZZ		3/27/01	22:19
ZZZZZZ		3/27/01	22:24
ZZZZZZ		3/27/01	22:28
ZZZZZZ		3/27/01	22:33
ZZZZZZ		3/27/01	22:37
ZZZZZZ		3/27/01	22:41
ZZZZZZ		3/27/01	22:46
ZZZZZZ		3/27/01	22:50
ZZZZZZ		3/27/01	22:55
ZZZZZZ		3/27/01	22:59
ZZZZZZ		3/27/01	23:04
ZZZZZZ		3/27/01	23:08
ZZZZZZ		3/27/01	23:12
ZZZZZZ		3/27/01	23:17
ZZZZZZ		3/27/01	23:21
ZZZZZZ		3/27/01	23:26
ZZZZZZ		3/27/01	23:30
ZZZZZZ		3/27/01	23:35
ZZZZZZ		3/27/01	23:39
ZZZZZZ		3/27/01	23:43
ZZZZZZ		3/27/01	23:48
ZZZZZZ		3/27/01	23:52
ZZZZZZ		3/27/01	23:57

Form 14 Equivalent

Metals Data Reporting Form

Instrument Runlog

Instrument: ICPSTChart Number: T10327C.ARC

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		3/28/01	0:01
ZZZZZZ		3/28/01	0:06
ZZZZZZ		3/28/01	0:10
ZZZZZZ		3/28/01	0:15
ZZZZZZ		3/28/01	0:19
ZZZZZZ		3/28/01	0:23
ZZZZZZ		3/28/01	0:28
ZZZZZZ		3/28/01	0:32
ZZZZZZ		3/28/01	0:37
ZZZZZZ		3/28/01	0:41
ZZZZZZ		3/28/01	0:46
ZZZZZZ		3/28/01	0:50
ZZZZZZ		3/28/01	0:55
ZZZZZZ		3/28/01	0:59
ZZZZZZ		3/28/01	1:03
ZZZZZZ		3/28/01	1:08
ZZZZZZ		3/28/01	1:12
ZZZZZZ		3/28/01	1:17
ZZZZZZ		3/28/01	1:21
ZZZZZZ		3/28/01	1:26
ZZZZZZ		3/28/01	1:30
ZZZZZZ		3/28/01	1:34
ZZZZZZ		3/28/01	1:39
ZZZZZZ		3/28/01	1:43
ZZZZZZ		3/28/01	1:48
ZZZZZZ		3/28/01	1:52
ZZZZZZ		3/28/01	1:57
ZZZZZZ		3/28/01	2:01
ZZZZZZ		3/28/01	2:06
ZZZZZZ		3/28/01	2:10
ZZZZZZ		3/28/01	2:14
ZZZZZZ		3/28/01	2:19
ZZZZZZ		3/28/01	2:23
ZZZZZZ		3/28/01	2:28
ZZZZZZ		3/28/01	2:32
ZZZZZZ		3/28/01	2:37
ZZZZZZ		3/28/01	2:41
ZZZZZZ		3/28/01	2:46
ZZZZZZ		3/28/01	2:50

Form 14 Equivalent

680 802

STL-Pittsburgh
Metals Data Reporting Form

Instrument RunlogInstrument: ICPSTChart Number: T10327C.ARC

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		3/28/01	2:54
ZZZZZZ		3/28/01	2:59

680 803

**METALS
RAW DATA**

C1C22073

680 804

Analysis Report 60105 Averages

03/26/01 09:03:24 AM

page 3

William J. Henderson 3-26-01

#	Sample Name	AL	BA	BE	CA	CO	CU
1	STD1	.01109	.00007	.00249	.00028	-.00014	.0003
2	STD5A		4.48895	16.0881		1.235	2.39045
3	STD5B	11.4373			25.2673		
4	ICV2-1 0087-158-3	25.251	.99503	.97389	24.915	.99748	.99649
5	ICB1	-.00190	.00055	.00065	.02585	.00364	.00063
6	ICSA 0087-133-5	495.63	.00222	.00017	480.47	.01305	-.00002
7	ICSAB 0087-133-6	494.74	.46816	.45748	478.48	.46552	.49442
8	DXT6EB	H.45108	.00033	.00046	.47839	.00325	.00086
9	DXT6EC	2.0579	1.9587	.04960	L.10198	.50631	.24993
10	DXRAF	.72794	.00100	.00005	.05559	.00122	.00146
11	DXRAFP5	.15173	.00026	.00004	.02744	.00162	.00083
12	DXRAFS	2.6574	1.9497	.04862	.03862	.49777	.24720
13	DXRAFD	2.6447	1.9409	.04869	.03791	.49412	.24636
14	DXT56B	-.00838	.00039	.00005	.00623	.00284	.00188
15	DXT56C	1.8703	1.9054	.04663	46.901	.46940	.23776
16	CCV2-1 0087-121-12	49.750	4.9006	4.8819	50.251	4.9328	4.9095
17	CCB1	-.00240	.00189	.00180	.01505	.00161	.00063
18	DXRH2	3.7473	.11177	.00034	27.359	.00509	.02714
19	DXRH2P5	.78971	.02539	.00054	5.9155	.00158	.00552
20	DXRH2S	6.8806	1.8540	.04255	72.869	.44499	.27261
21	DXRH2D	6.4492	1.7414	.04080	71.745	.43496	.25106
22	DXRKF	4.0607	.11845	.00009	33.957	.00303	.02220
23	DXT6KB	-.00708	-.00017	.00008	.01214	.00447	.00126
24	DXT6KC	1.8427	1.8647	.04591	47.121	.47189	.23588
25	DXRF3	12.533	24.826	.00108	94.106	5.0425	.65768
26	DXRF3P5	2.6879	5.2877	.00036	20.621	1.1179	.14614
27	DXRF3S	18.406	28.828	.04968	149.14	5.8553	.96407
28	CCV2-2	51.176	5.0995	5.0165	49.565	4.9530	5.1334
29	CCB2	.02869	.00828	.00404	.05816	.00689	.00377
30	DXRF3D	15.757	24.831	.04453	138.31	5.4319	.85044
31	DXRF8	19.397	3.6131	.00172	98.471	2.7436	.39917
32	DXT6MB	-.00658	.00251	.00003	.07338	.00080	.00043
33	DXT6MC	1.9508	1.9611	.04958	L.00874	.50549	.24972
34	DXL8W	.14378	.02365	.00006	34.540	.00323	-.00039
35	DXL8WP5	.01614	.00474	.00014	7.1695	.00365	.00105
36	DXL8WS	2.1323	1.9605	.04982	35.112	.51240	.24744
37	DXL8WD	2.1292	1.9631	.04969	34.676	.50549	.24723
38	DXL81	.29648	.01303	.00254	369.89	.52238	.00959
39	DXCMEB	-.01190	-.00011	.00002	.02814	.00162	.00000
40	CCV2-3	49.772	4.8973	4.8855	50.070	4.9279	4.9126
41	CCB3	-.00190	.00151	.00158	.02538	.00324	.00105
42	DXCMEC	1.9623	1.9502	.04856	48.920	.49744	.24845
43	DXATD	.03704	.11446	.00002	55.192	.00236	.00613
44	DXATDP5	.00037	.02504	.00064	11.673	.00404	.00090
45	DXATDS	2.0212	2.0580	.04845	101.72	.48804	.25017
46	DXATDD	2.0219	2.0467	.04832	101.67	.48763	.24913
47	DXATQ	1.4349	.99213	.00019	139.83	.01109	.01489
48	DXATX	1.1508	.41101	.00013	202.55	.00614	.00235
49	DXAT0	.02652	.06012	.00002	76.756	.00241	.01002
50	DXAT1	.10656	.22859	.00011	110.61	.01125	.01284
51	DXAT4	.16563	.09944	.00001	102.85	.00969	.00605
52	CCV2-4	49.062	4.7860	4.8258	50.875	4.9625	4.7908
53	CCB4	-.00414	.00127	.00124	.01868	.00406	.00000

#	Sample Name	AL	BA	BE	CA	CO	CU
54	DXAT7	.00434	.49019	.00011	195.25	.00337	.00123
55	DXAT9	.00734	.49529	.00008	204.61	.00295	.00234
56	DXA2N	-.01798	.00022	.00012	.06065	.00040	.00000
57	DXE28B	-.01802	-.00004	.00012	.00233	.00162	.00000
58	DXE28C	1.8906	1.9303	.04700	47.341	.47020	.24006
59	DXCV0	.17595	.04420	.00011	307.21	.01140	.01255
60	DXCV0P5	.03880	.01009	.00008	65.163	.00487	.01050
61	DXCV0S	1.9992	1.6980	1.04139	1348.44	1.44246	1.23898
62	DXCV0D	2.0153	1.7128	.04175	349.59	.44813	.23982
63	DXCWA	.31923	.17468	.00007	259.21	.00641	.00464
64	CCV2-5	49.024	4.7938	4.8193	50.325	4.9248	4.8047
65	CCB5	.01903	.00372	.00363	.10705	.00445	.00189
66	DXCWC	-.01673	.00006	.00018	.01696	.00407	.00105
67	DXCWL	1.0134	.20845	.00019	269.50	.00634	.02841
68	DXCWM	.02046	.83440	.00007	113.07	.00557	.00835
69	DXCWP	-.00445	.29679	.00001	264.29	.00146	.00129
70	DXCWQ	.25502	.39488	-.00001	188.16	.00016	.00221
71	DXE3EB	-.02016	.00010	.00002	.01645	.00284	.00167
72	DXE3EC	1.8561	1.8659	.04615	49.297	.47799	.23234
73	DXDX4	.00244	.01053	.00010	72.787	-.00041	.00648
74	DXDX4P5	-.01538	.00229	.00005	15.163	.00284	-.00125
75	DXDX4S	1.8346	1.8037	.04475	121.37	.46384	.22751
76	CCV2-6	48.374	4.7037	4.7423	50.638	4.9082	4.6973
77	CCB6	.00021	.00240	.00236	.04092	.00364	.00042
78	DXDX4D	1.8654	1.8195	.04511	124.79	.47357	.22982
79	DXD0A	.14247	.03223	.00000	79.896	.00120	.00774
80	DXD0F	.01609	.00906	.00005	151.88	.00244	.01088
81	DXD0H	.14687	.02472	-.00001	131.45	-.00123	.00107
82	DXD0M	.21443	.00951	.00005	132.02	.00163	.00112
83	DXD00	.28806	.02116	.00000	102.07	.04107	.00011
84	DXD35	.49566	.02096	.00004	119.42	.00445	.00616
85	DXD4A	.01957	.05108	.00010	79.914	.01054	.00524
86	DXD4C	.09870	.02829	.00008	42.804	.00486	.00638
87	DXD4H	.04687	.05467	.00003	335.64	.00731	.01365
88	CCV2-7	48.012	4.6536	4.6983	50.185	4.8706	4.6675
89	CCB7	-.00593	.00122	.00118	.02963	.00203	-.00125
90	DXD4L	.01949	.06977	.00004	208.87	.00445	.00194
91	DXD4M	.05799	.12896	-.00001	171.15	.00400	.00116
92	DXD4N	-.00615	.01519	.00000	231.27	-.00120	-.00003
93	DXD4Q	-.00268	-.00001	.00000	.01175	.00121	.00042
94	DXD4W	.04786	.00808	.00001	224.13	.00124	.00110
95	DXTE6B RERUN	-.02193	-.00002	.00000	.01196	.00080	-.00020
96	DW684/25 NA	-.00438	.00534	.00005	9.4404	.00243	-.00020
97	DXRH2/25 NA	.15178	.00545	.00006	1.3207	.00120	.00064
98	DXRH2P125	.01441	.00071	.00006	.22023	.00000	-.00020
99	DXRH2S/25 NA	.26445	.08004	.00186	3.2324	.02225	.01070
100	CCV2-8	47.322	4.5757	4.6242	49.587	4.8103	4.5919
101	CCB8	.01463	.00323	.00326	.03181	.00567	.00084
102	DXRH2D/25 NA	.27581	.08361	.00252	3.3482	.02426	.01237
103	DXRKF/25 NA	.15608	.00724	.00023	1.5217	.00201	.00044
104	CCV2-9	47.587	4.6085	4.6500	49.693	4.8188	4.6200
105	CCB9	-.02382	.00015	.00046	.00027	.00161	-.00104

Disregard "H" flags.
Wrong check table entered
with 3-26-01

#	Sample Name	FE	K	MG	MN	NA	NI
1	STD1	.00115	-.02584	.00004	0	.06165	.00026
2	STD5A				1.83969		1.52085
3	STD5B	27.8487	2.31879	7.30004		51.7317	
4	ICV2-1 0087-158-3	26.029	24.575	25.406	1.0027	25.238	.99515
5	ICB1	.01723	.12155	.01369	.00055	.02390	.00282
6	ICSA 0087-133-5	184.11	.08956	483.02	.00065	.00735	-.01476
7	ICSAB 0087-133-6	183.71	9.9908	480.36	.45758	10.089	.89436
8	DXT6EB	H.20433	.46488	.48082	.00058	.01974	-.00145
9	DXT6EC	1.1066	L.06184	L.10068	.50397	L.00425	.51563
10	DXRAF	.04830	-.08743	.01917	.00216	10.947	-.00334
11	DXRAFP5	.01310	.21964	.01712	.00000	2.1995	-.00139
12	DXRAFS	1.0888	.18979	.00616	.49498	11.189	.49086
13	DXRAFD	1.0760	-.04265	-.01095	.49417	11.027	.50281
14	DXT56B	.01669	.52033	.01369	.00109	.00512	-.00186
15	DXT56C	.99500	47.621	48.505	.47245	48.644	.47556
16	CCV2-1 0087-121-12	51.392	49.570	50.075	4.9366	49.896	4.9686
17	CCB1	.01813	-.24310	.01301	.00164	.02332	-.00613
18	DXRH2	3.5989	5.5168	5.6781	.09949	S-.11931	.01051
19	DXRH2P5	.79761	1.1345	1.2829	.02247	S2477.5	.00015
20	DXRH2S	4.6015	57.938	50.406	.54718	S-.11931	.44309
21	DXRH2D	4.4444	53.631	47.963	.53084	S-.11931	.43300
22	DXRKF	4.2890	3.9366	5.6603	.26921	S-.11931	.00889
23	DXT6KB	.02028	.39238	.00890	.00109	.03096	.00189
24	DXT6KC	.99082	46.566	47.596	.47082	46.059	.47452
25	DXRF3	172.58	10.869	116.36	1.6622	36.265	.36328
26	DXRF3P5	38.698	2.2711	25.553	.36784	7.6928	.07398
27	DXRF3S	163.59	64.268	181.83	2.2305	92.373	.85081
28	CCV2-2	51.944	51.432	51.540	4.9566	51.617	4.9734
29	CCB2	.06824	-.00853	.05684	.00436	.05951	-.00007
30	DXRF3D	137.15	57.096	160.30	2.0042	82.674	.74333
31	DXRF8	229.42	5.7535	25.153	2.2158	92.249	.12797
32	DXT6MB	H.15047	-.01279	.01095	.00167	.06347	.00082
33	DXT6MC	1.0911	L-.11942	L-.00821	.50451	L.01354	.50848
34	DXL8W	.21689	68.181	11.788	.01853	14.291	-.00392
35	DXL8WP5	.04650	13.697	2.3884	.00435	2.84538	-.00139
36	DXL8WS	1.2739	67.153	11.625	.52385	14.006	.52523
37	DXL8WD	1.2755	67.795	11.724	.51814	14.167	.50620
38	DXL81	318.03	15.896	163.74	72.239	119.79	.12576
39	DXCMEB	.03088	.25376	.00547	.00707	.01586	-.00288
40	CCV2-3	51.221	49.698	50.034	4.9045	49.180	4.9588
41	CCB3	.03016	.20898	.02260	.00300	.02796	-.00089
42	DXCMEC	1.0587	48.274	48.876	.49393	47.885	.49207
43	DXATD	2.5850	4.0816	22.700	.42481	44.237	.00125
44	DXATDP5	.56019	1.1025	4.7685	.09116	9.0611	-.00044
45	DXATDS	3.5106	51.795	70.512	.89533	91.614	.49112
46	DXATDD	3.5101	51.989	70.496	.89208	91.344	.49140
47	DXATQ	115.68	41.185	63.503	1.2292	H527.88	-.00237
48	DXATX	17.771	135.32	81.535	.54348	S3075.3	.00360
49	DXATO	1.8400	61.819	44.879	.29936	H544.75	.00857
50	DXAT1	29.583	193.36	68.340	1.5519	S-.11931	.02647
51	DXAT4	32.557	116.93	33.995	.86751	S3079.5	.01451
52	CCV2-4	51.168	48.199	49.361	4.9279	47.985	4.9541
53	CCB4	.01670	.23884	.02123	.00164	.11892	-.00448

NA over range: Dilution
to be analyzed on a future run.
WXC 3-26-01

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#	Sample Name	V	ZN
1	STD1	0	.00012
2	STD5A	1.58924	1.18834
3	STD5B		
4	ICV2-1 0087-158-3	1.0015	1.0050
5	ICB1	.00154	.00150
6	ICSA 0087-133-5	.00382	.00487
7	ICSAB 0087-133-6	.47079	.95575
8	DXT6EB	.00046	.00073
9	DXT6EC	.49515	.50568
10	DXRAF	.01235	.00139
11	DXRAFP5	.00501	.00034
12	DXRAFS	.49991	.49514
13	DXRAFD	.49754	.49545
14	DXT56B	.00344	.00227
15	DXT56C	.47812	.47017
16	CCV2-1 0087-121-12	4.9335	4.9665
17	CCB1	.00044	.00346
18	DXRH2	.01067	.61383
19	DXRH2P5	.00481	.13001
20	DXRH2S	.46466	1.1117
21	DXRH2D	.44792	1.0636
22	DXRKF	.00885	1.6863
23	DXT6KB	.00230	.00387
24	DXT6KC	.47717	.47132
25	DXRF3	.09348	79.212
26	DXRF3P5	.02054	17.512
27	DXRF3S	.58973	85.796
28	CCV2-2	4.9873	5.0164
29	CCB2	.00345	.01797
30	DXRF3D	.53033	79.677
31	DXRF8	.11732	45.214
32	DXT6MB	.00036	H.03030
33	DXT6MC	.49162	.51448
34	DXL8W	.00787	.00408
35	DXL8WP5	.00371	.00194
36	DXL8WS	.50361	.51649
37	DXL8WD	.49753	.51128
38	DXL81	-.00616	.02779
39	DXCMEB	.00169	.00118
40	CCV2-3	4.9193	4.9483
41	CCB3	.00063	.00345
42	DXCMEC	.49959	.49082
43	DXATD	.00151	.01512
44	DXATDP5	.00165	.00485
45	DXATDS	.49547	.50319
46	DXATDD	.49449	.50404
47	DXATQ	.00782	.01505
48	DXATX	.00831	.00835
49	DXAT0	.00278	.01355
50	DXAT1	.00444	.05830
51	DXAT4	.00409	.03863
52	CCV2-4	4.9038	4.9754
53	CCB4	.00075	.00304

#	Sample Name	V	ZN
54	DXAT7	.00276	.00650
55	DXAT9	.00350	.00553
56	DXA2N	.00038	.00116
57	DXE28B	.00138	-.00040
58	DXE28C	.48015	.47137
59	DXCV0	.01176	.08633
60	DXCV0P5	.00346	.02370
61	DXCV0S	.44720	.54934
62	DXCV0D	.45179	.55200
63	DXCWA	.00680	.01196
64	CCV2-5	4.8808	4.9467
65	CCB5	.00377	.00388
66	DXCWC	.00234	.00262
67	DXCWL	.00744	.10679
68	DXCWM	.00623	.01266
69	DXCWP	.00493	.00821
70	DXCWQ	.00376	.00907
71	DXE3EB	.00249	.00599
72	DXE3EC	.48121	.47844
73	DXDX4	.00513	.11888
74	DXDX4P5	.00375	.02560
75	DXDX4S	.47072	.58094
76	CCV2-6	4.8506	4.9263
77	CCB6	.00167	.00364
78	DXDX4D	.47588	.59105
79	DXD0A	.00067	.01534
80	DXD0F	.00349	.00488
81	DXD0H	.00387	.01206
82	DXD0M	.00237	.00529
83	DXD0O	.00191	.02219
84	DXD35	.00506	.00353
85	DXD4A	.00510	.02155
86	DXD4C	.00416	.01019
87	DXD4H	.01039	.04207
88	CCV2-7	4.8124	4.8927
89	CCB7	.00171	.00336
90	DXD4L	.00520	.00490
91	DXD4M	.00610	.00265
92	DXD4N	.00689	.00690
93	DXD4Q	.00011	.00260
94	DXD4W	.02442	.00699
95	DXTE6B RERUN	.00011	.00119
96	DW684/25 NA	.00122	.00345
97	DXRH2/25 NA	.00043	.02943
98	DXRH2P125	.00034	.00439
99	DXRH2S/25 NA	.02198	.04701
100	CCV2-8	4.7457	4.8401
101	CCB8	.00294	.00549
102	DXRH2D/25 NA	.02114	.05009
103	DXRKF/25 NA	.00387	.07461
104	CCV2-9	4.7668	4.8748
105	CCB9	.00040	.00202

WNR 3-26-01

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	STD1	J10325A	QUANMET	03/25/01	13:54		X	IR
2	STD5A	J10325A	QUANMET	03/25/01	13:57		X	IR
3	STD5B	J10325A	QUANMET	03/25/01	14:00		X	IR
4	ICV2-1 0087-158-3	J10325A	QUANMET	03/25/01	14:04	WTR	S	CONC
5	ICB1	J10325A	QUANMET	03/25/01	14:07	WTR	S	CONC
6	ICSA 0087-133-5	J10325A	QUANMET	03/25/01	14:14	WTR	Q	CONC
7	ICSAB 0087-133-6	J10325A	QUANMET	03/25/01	14:17	WTR	Q	CONC
8	DXT6EB	J10325A	QUANMET	03/25/01	14:20	WTR	S	CONC
9	DXT6EC	J10325A	QUANMET	03/25/01	14:24	WTR	S	CONC
10	DXRAF	J10325A	QUANMET	03/25/01	14:27	WTR	S	CONC
11	DXRAFP5	J10325A	QUANMET	03/25/01	14:30	WTR	S	CONC
12	DXRAFS	J10325A	QUANMET	03/25/01	14:33	WTR	S	CONC
13	DXRAFD	J10325A	QUANMET	03/25/01	14:36	WTR	S	CONC
14	DXT56B	J10325A	QUANMET	03/25/01	14:39	WTR	S	CONC
15	DXT56C	J10325A	QUANMET	03/25/01	14:42	WTR	S	CONC
16	CCV2-1 0087-121-12	J10325A	QUANMET	03/25/01	14:46	WTR	S	CONC
17	CCB1	J10325A	QUANMET	03/25/01	14:49	WTR	S	CONC
18	DXRH2	J10325A	QUANMET	03/25/01	14:52	WTR	S	CONC
19	DXRH2P5	J10325A	QUANMET	03/25/01	14:55	WTR	S	CONC
20	DXRH2S	J10325A	QUANMET	03/25/01	14:58	WTR	S	CONC
21	DXRH2D	J10325A	QUANMET	03/25/01	15:01	WTR	S	CONC
22	DXRKF	J10325A	QUANMET	03/25/01	15:05	WTR	S	CONC
23	DXT6KB	J10325A	QUANMET	03/25/01	15:23	WTR	S	CONC
24	DXT6KC	J10325A	QUANMET	03/25/01	15:26	WTR	S	CONC
25	DXRF3	J10325A	QUANMET	03/25/01	15:29	WTR	S	CONC
26	DXRF3P5	J10325A	QUANMET	03/25/01	15:32	WTR	S	CONC
27	DXRF3S	J10325A	QUANMET	03/25/01	15:35	WTR	S	CONC
28	CCV2-2	J10325A	QUANMET	03/25/01	15:38	WTR	S	CONC
29	CCB2	J10325A	QUANMET	03/25/01	15:42	WTR	S	CONC
30	DXRF3D	J10325A	QUANMET	03/25/01	15:45	WTR	S	CONC
31	DXRF8	J10325A	QUANMET	03/25/01	15:51	WTR	S	CONC
32	DXT6MB	J10325A	QUANMET	03/25/01	15:54	WTR	S	CONC
33	DXT6MC	J10325A	QUANMET	03/25/01	15:57	WTR	S	CONC
34	DXL8W	J10325A	QUANMET	03/25/01	16:00	WTR	S	CONC
35	DXL8WP5	J10325A	QUANMET	03/25/01	16:03	WTR	S	CONC
36	DXL8WS	J10325A	QUANMET	03/25/01	16:06	WTR	S	CONC
37	DXL8WD	J10325A	QUANMET	03/25/01	16:09	WTR	S	CONC
38	DXL81	J10325A	QUANMET	03/25/01	16:13	WTR	S	CONC
39	DXCMEB	J10325A	QUANMET	03/25/01	16:16	WTR	S	CONC
40	CCV2-3	J10325A	QUANMET	03/25/01	16:19	WTR	S	CONC
41	CCB3	J10325A	QUANMET	03/25/01	16:22	WTR	S	CONC
42	DXCMEC	J10325A	QUANMET	03/25/01	16:25	WTR	S	CONC
43	DXATD	J10325A	QUANMET	03/25/01	16:28	WTR	S	CONC
44	DXATDP5	J10325A	QUANMET	03/25/01	16:32	WTR	S	CONC
45	DXATDS	J10325A	QUANMET	03/25/01	16:35	WTR	S	CONC
46	DXATDD	J10325A	QUANMET	03/25/01	16:38	WTR	S	CONC
47	DXATQ	J10325A	QUANMET	03/25/01	16:41	WTR	S	CONC
48	DXATX	J10325A	QUANMET	03/25/01	16:44	WTR	S	CONC
49	DXAT0	J10325A	QUANMET	03/25/01	16:47	WTR	S	CONC
50	DXAT1	J10325A	QUANMET	03/25/01	16:51	WTR	S	CONC
51	DXAT4	J10325A	QUANMET	03/25/01	16:54	WTR	S	CONC
52	CCV2-4	J10325A	QUANMET	03/25/01	16:57	WTR	S	CONC
53	CCB4	J10325A	QUANMET	03/25/01	17:00	WTR	S	CONC

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
54	DXAT7	J10325A	QUANMET	03/25/01	17:03	WTR	S	CONC
55	DXAT9	J10325A	QUANMET	03/25/01	17:06	WTR	S	CONC
56	DXA2N	J10325A	QUANMET	03/25/01	17:10	WTR	S	CONC
57	DXE28B	J10325A	QUANMET	03/25/01	17:13	WTR	S	CONC
58	DXE28C	J10325A	QUANMET	03/25/01	17:16	WTR	S	CONC
59	DXCV0	J10325A	QUANMET	03/25/01	17:19	WTR	S	CONC
60	DXCV0P5	J10325A	QUANMET	03/25/01	17:22	WTR	S	CONC
61	DXCV0S	J10325A	QUANMET	03/25/01	17:25	WTR	S	CONC
62	DXCV0D	J10325A	QUANMET	03/25/01	17:28	WTR	S	CONC
63	DXCWA	J10325A	QUANMET	03/25/01	17:32	WTR	S	CONC
64	CCV2-5	J10325A	QUANMET	03/25/01	17:35	WTR	S	CONC
65	CCB5	J10325A	QUANMET	03/25/01	17:38	WTR	S	CONC
66	DXCWC	J10325A	QUANMET	03/25/01	17:41	WTR	S	CONC
67	DXCWL	J10325A	QUANMET	03/25/01	17:44	WTR	S	CONC
68	DXCWM	J10325A	QUANMET	03/25/01	17:47	WTR	S	CONC
69	DXCWP	J10325A	QUANMET	03/25/01	17:51	WTR	S	CONC
70	DXCWQ	J10325A	QUANMET	03/25/01	17:54	WTR	S	CONC
71	DXE3EB	J10325A	QUANMET	03/25/01	17:57	WTR	S	CONC
72	DXE3EC	J10325A	QUANMET	03/25/01	18:00	WTR	S	CONC
73	DXDX4	J10325A	QUANMET	03/25/01	18:03	WTR	S	CONC
74	DXDX4P5	J10325A	QUANMET	03/25/01	18:06	WTR	S	CONC
75	DXDX4S	J10325A	QUANMET	03/25/01	18:10	WTR	S	CONC
76	CCV2-6	J10325A	QUANMET	03/25/01	18:13	WTR	S	CONC
77	CCB6	J10325A	QUANMET	03/25/01	18:16	WTR	S	CONC
78	DXDX4D	J10325A	QUANMET	03/25/01	18:19	WTR	S	CONC
79	DXD0A	J10325A	QUANMET	03/25/01	18:22	WTR	S	CONC
80	DXD0F	J10325A	QUANMET	03/25/01	18:25	WTR	S	CONC
81	DXD0H	J10325A	QUANMET	03/25/01	18:29	WTR	S	CONC
82	DXD0M	J10325A	QUANMET	03/25/01	18:32	WTR	S	CONC
83	DXD00	J10325A	QUANMET	03/25/01	18:35	WTR	S	CONC
84	DXD35	J10325A	QUANMET	03/25/01	18:38	WTR	S	CONC
85	DXD4A	J10325A	QUANMET	03/25/01	18:41	WTR	S	CONC
86	DXD4C	J10325A	QUANMET	03/25/01	18:44	WTR	S	CONC
87	DXD4H	J10325A	QUANMET	03/25/01	18:48	WTR	S	CONC
88	CCV2-7	J10325A	QUANMET	03/25/01	18:51	WTR	S	CONC
89	CCB7	J10325A	QUANMET	03/25/01	18:54	WTR	S	CONC
90	DXD4L	J10325A	QUANMET	03/25/01	18:57	WTR	S	CONC
91	DXD4M	J10325A	QUANMET	03/25/01	19:00	WTR	S	CONC
92	DXD4N	J10325A	QUANMET	03/25/01	19:03	WTR	S	CONC
93	DXD4Q	J10325A	QUANMET	03/25/01	19:07	WTR	S	CONC
94	DXD4W	J10325A	QUANMET	03/25/01	19:10	WTR	S	CONC
95	DXTE6B RERUN	J10325A	QUANMET	03/25/01	19:13	WTR	S	CONC
96	DW684/25 NA	J10325A	QUANMET	03/25/01	19:16	WTR	S	CONC
97	DXRH2/25 NA	J10325A	QUANMET	03/25/01	19:19	WTR	S	CONC
98	DXRH2P125	J10325A	QUANMET	03/25/01	19:22	WTR	S	CONC
99	DXRH2S/25 NA	J10325A	QUANMET	03/25/01	19:26	WTR	S	CONC
100	CCV2-8	J10325A	QUANMET	03/25/01	19:29	WTR	S	CONC
101	CCB8	J10325A	QUANMET	03/25/01	19:32	WTR	S	CONC
102	DXRH2D/25 NA	J10325A	QUANMET	03/25/01	19:35	WTR	S	CONC
103	DXRKF/25 NA	J10325A	QUANMET	03/25/01	19:38	WTR	S	CONC
104	CCV2-9	J10325A	QUANMET	03/25/01	19:42	WTR	S	CONC
105	CCB9	J10325A	QUANMET	03/25/01	19:45	WTR	S	CONC

Standardization Rpt.

03/25/01 01:57:22 PM

page 1

Method: QUANMET Standard: STD1

Run Time: 03/25/01 13:54:14

Elem	AG	AL	AS	B _̄	BA	BE	CA
Avge	-.00060	.01110	.00230	.00000	.00007	.00250	.00029
SDev	.00037	.00144	.00266	.00000	.00010	.00012	.00094
%RSD	60.858	12.951	115.47	.00000	134.03	4.6188	326.95
#1	-.00100	.00920	.00000	.00000	.00000	.00240	-.00102
#2	-.00040	.01240	.00000	.00000	.00008	.00240	.00075
#3	-.00020	.01200	.00460	.00000	.00020	.00260	.00114
#4	-.00080	.01080	.00460	.00000	.00000	.00260	.00028
Elem	CD	CO	CR	CU	FE	K _̄	LI
Avge	.00002	-.00015	.00080	.00030	.00115	-.02585	-.00094
SDev	.00008	.00010	.00131	.00026	.00087	.00597	.00057
%RSD	469.83	66.667	163.30	86.066	75.641	23.085	60.495
#1	.00012	-.00020	-.00080	.00000	.00040	-.03340	-.00144
#2	-.00008	-.00020	.00080	.00020	.00180	-.02560	-.00087
#3	.00000	.00000	.00240	.00060	.00200	-.01880	-.00016
#4	.00004	-.00020	.00080	.00040	.00040	-.02560	-.00127
Elem	MG	MN	MO	NA	NI	PB	SB
Avge	.00005	.00000	-.00005	.06165	.00026	.00050	.00010
SDev	.00106	.00000	.00019	.00363	.00138	.00058	.00020
%RSD	2126.0	.00000	382.97	5.8895	529.12	115.47	200.00
#1	-.00080	.00000	-.00020	.06200	.00191	.00100	.00000
#2	-.00040	.00000	.00000	.06280	-.00139	.00000	.00000
#3	.00160	.00000	-.00020	.06520	-.00014	.00100	.00040
#4	-.00020	.00000	.00020	.05660	.00067	.00000	.00000
Elem	SE	SI	SN	SR	TI	TL	V _̄
Avge	.00030	.00205	.00095	.00002	.00190	-.00035	.00000
SDev	.00060	.00030	.00140	.00004	.00038	.00168	.00000
%RSD	200.00	14.634	147.24	200.00	20.156	481.21	.00000
#1	-.00020	.00180	.00280	.00000	.00140	-.00060	.00000
#2	.00060	.00220	-.00040	.00000	.00220	-.00200	.00000
#3	-.00020	.00240	.00020	.00008	.00220	.00200	.00000
#4	.00100	.00180	.00120	.00000	.00180	-.00080	.00000
Elem	ZN						
Avge	.00013						
SDev	.00014						
%RSD	104.18						
#1	.00012						
#2	.00008						
#3	.00000						
#4	.00032						

Method: QUANMET Standard: STD5A

Run Time: 03/25/01 13:57:27

0087-158-1

Elem	AG	AS	B	BA	BE	CD	CO
Avge	.26815	.40980	.53887	4.4890	16.088	.75934	1.2350
SDev	.00098	.00546	.00199	.0339	.068	.00272	.0060
%RSD	.36729	1.3330	.37012	.75615	.42499	.35800	.48402

#1	.26720	.40640	.53893	4.4823	16.067	.75653	1.2294
#2	.26740	.40400	.53645	4.4456	16.002	.76246	1.2306
#3	.26900	.41340	.53876	4.5020	16.129	.76069	1.2418
#4	.26900	.41540	.54133	4.5259	16.155	.75769	1.2382

Elem	CR	CU	LI	MN	MO	NI	PB
Avge	3.5412	2.3905	4.3218	1.8397	.30905	1.5209	.20625
SDev	.0115	.0159	.0422	.0055	.00145	.0104	.00170
%RSD	.32572	.66592	.97567	.30160	.46779	.68099	.82424

#1	3.5306	2.3880	4.3206	1.8352	.30780	1.5114	.20380
#2	3.5332	2.3696	4.2689	1.8346	.30780	1.5128	.20740
#3	3.5554	2.3972	4.3257	1.8446	.31020	1.5322	.20740
#4	3.5458	2.4070	4.3720	1.8444	.31040	1.5270	.20640

Elem	SB	SE	SI	SN	SR	TI	TL
Avge	.15115	.39025	.33290	.72395	8.7773	6.3709	.25545
SDev	.00150	.00371	.00200	.00539	.0549	.0300	.00237
%RSD	.99239	.95180	.59978	.74382	.62569	.47139	.92720

#1	.15040	.38920	.33140	.71620	8.7699	6.3620	.25420
#2	.15040	.38560	.33100	.72500	8.7056	6.3334	.25300
#3	.15040	.39420	.33500	.72600	8.7978	6.3860	.25840
#4	.15340	.39200	.33420	.72860	8.8358	6.4024	.25620

Elem	V	ZN
Avge	1.5892	1.1883
SDev	.0062	.0047
%RSD	.38943	.39572

#1	1.5848	1.1829
#2	1.5832	1.1894
#3	1.5932	1.1942
#4	1.5958	1.1870

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Standardization Rpt.

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Method: QUANMET Standard: STD5B

Run Time: 03/25/01 14:00:38

0087-158-Z

Elem	AL	CA	FE	K	MG	NA
Avge	11.437	25.267	27.849	2.3188	7.3000	51.732
SDev	.102	.202	.043	.0217	.0611	.987
%RSD	.88825	.80093	.15463	.93582	.83699	1.9089
#1	11.356	25.485	27.843	2.3110	7.2668	50.945
#2	11.581	25.000	27.907	2.3498	7.3902	53.140
#3	11.436	25.256	27.843	2.3150	7.2848	51.675
#4	11.376	25.328	27.802	2.2994	7.2584	51.167

Method: QUANMET

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
AG	328.068	STD5A	STD1	7.23836	.004343	03/25/01 02:00:38
AL	308.215	STD5B	STD1	8.75182	-.097145	03/25/01 02:00:38
AS	193.696	STD5A	STD1	24.9555	-.057398	03/25/01 02:00:38
B	249.600	STD5A	STD1	18.6005	.000000	03/25/01 02:00:38
BA	493.409	STD5A	STD1	2.22773	-.000157	03/25/01 02:00:38
BE	313.042	STD5A	STD1	.623594	-.001559	03/25/01 02:00:38
CA	317.933	STD5B	STD1	3.95772	-.001141	03/25/01 02:00:38
CD	228.802	STD5A	STD1	13.3096	-.000235	03/25/01 02:00:38
CO	228.616	STD5A	STD1	8.13613	.001220	03/25/01 02:00:38
CR	267.716	STD5A	STD1	2.82516	-.002260	03/25/01 02:00:38
CU	324.754	STD5A	STD1	4.17983	-.001254	03/25/01 02:00:38
FE	259.940	STD5B	STD1	3.59098	-.004130	03/25/01 02:00:38
K	766.491	STD5B	STD1	42.6503	1.10251	03/25/01 02:00:38
LI	670.789	STD5A	STD1	2.31334	.002164	03/25/01 02:00:38
MG	279.079	STD5B	STD1	13.6986	-.000685	03/25/01 02:00:38
MN	257.610	STD5A	STD1	5.43398	.000000	03/25/01 02:00:38
MO	202.030	STD5A	STD1	32.3520	.001618	03/25/01 02:00:38
NA	588.995	STD5B	STD1	1.93536	-.119315	03/25/01 02:00:38
NI	231.604	STD5A	STD1	6.57404	-.001721	03/25/01 02:00:38
PB	220.353	STD5A	STD1	47.0673	-.023534	03/25/01 02:00:38
SB	206.838	STD5A	STD1	66.2791	-.006628	03/25/01 02:00:38
SE	196.026	STD5A	STD1	25.6443	-.007693	03/25/01 02:00:38
SI	288.158	STD5A	STD1	29.8958	-.061286	03/25/01 02:00:38
SN	189.989	STD5A	STD1	13.8250	-.013134	03/25/01 02:00:38
SR	409.552	STD5A	STD1	1.13931	-.000023	03/25/01 02:00:38
TI	334.941	STD5A	STD1	1.57009	-.002983	03/25/01 02:00:38
TL	190.864	STD5A	STD1	78.6106	.027514	03/25/01 02:00:38
V	292.402	STD5A	STD1	6.12027	.000000	03/25/01 02:00:38
ZN	213.856	STD5A	STD1	8.44217	-.001093	03/25/01 02:00:38

Method: QUANMET Sample Name: ICV2-1 0087-158-3 Operator: WTR
 Run Time: 03/25/01 14:04:34
 Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50901	25.251	.94903	1.0279	.99503	.97389	24.915
SDev	.00220	.052	.03499	.0044	.00339	.00296	.052
%RSD	.43168	.20767	3.6865	.42722	.34043	.30407	.20932

#1	.51082	25.274	.92138	1.0226	.99472	.97290	24.970
#2	.51085	25.268	.98122	1.0316	.99579	.97587	24.946
#3	.50643	25.174	.97726	1.0261	.99071	.97017	24.885
#4	.50793	25.290	.91625	1.0315	.99891	.97663	24.858

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.55000	27.500	1.1000	1.1000	1.1000	1.1000	27.500
Low	.45000	22.500	.90000	.90000	.90000	.90000	22.500

Elem	CD	CO	CR	CU	FE	K	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0012	.99748	1.0025	.99650	26.029	24.575	1.0041
SDev	.0034	.00614	.0012	.00469	.047	.117	.0068
%RSD	.34283	.61588	.11626	.47055	.18107	.47539	.67653

#1	1.0054	.99544	1.0027	.99483	26.054	24.483	1.0019
#2	.99963	.99870	1.0038	.99985	26.062	24.739	1.0056
#3	1.0023	.99057	1.0027	.99063	25.960	24.577	.99638
#4	.99748	1.0052	1.0010	1.0007	26.042	24.500	1.0126

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	1.1000	1.1000	1.1000	27.500	27.500	1.1000
Low	.90000	.90000	.90000	.90000	22.500	22.500	.90000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	25.406	1.0027	.98206	25.238	.99516	1.0234	1.0529
SDev	.095	.0014	.01398	.113	.01169	.0179	.0002
%RSD	.37382	.14050	1.4231	.44868	1.1744	1.7538	.02149

#1	25.451	1.0032	.96265	25.243	1.0010	1.0374	1.0530
#2	25.487	1.0043	.99500	25.299	.97965	.99985	1.0526
#3	25.271	1.0021	.98852	25.077	.99334	1.0374	1.0528
#4	25.416	1.0010	.98206	25.333	1.0066	1.0189	1.0531

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	1.1000	1.1000	27.500	1.1000	1.1000	1.1000
Low	22.500	.90000	.90000	22.500	.90000	.90000	.90000

Elem	SE	SI	SN	SR	TI	TL	V
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0050	1.0005	.95845	.98594	.97621	5.0265	1.0015
SDev	.0647	.0030	.04020	.00330	.00315	.1243	.0041
%RSD	6.4360	.29943	4.1939	.33473	.32314	2.4730	.41192

#1	1.0230	.99597	.99440	.98581	.97644	4.8492	1.0007
#2	1.0538	1.0020	.98056	.98782	.97895	5.0377	1.0065

Analysis Report

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#3	.90991	1.0019	.95569	.98135	.97173	5.0866	.99650
#4	1.0333	1.0020	.90315	.98878	.97770	5.1323	1.0025

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	1.1000	1.1000	1.1000	1.1000	5.5000	1.1000
Low	.90000	.90000	.90000	.90000	.90000	4.5000	.90000

Elem	ZN
Units	ppm
Avge	1.0050
SDev	.0050
%RSD	.49382

#1	1.0096
#2	1.0073
#3	.99816
#4	1.0048

Errors	LC Pass
High	1.1000
Low	.90000

Method: QUANMET Sample Name: ICB1

Operator: WTR

Run Time: 03/25/01 14:07:44

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00074	-.00191	-.07864	.00003	.00056	.00065	.02585
SDev	.00144	.00811	.09520	.00001	.00022	.00018	.00835
%RSD	195.89	424.78	121.06	34.991	39.066	28.075	32.317

#1	.00000	-.00979	-.15716	.00002	.00029	.00044	.01590
#2	.00290	-.00796	-.05736	.00002	.00047	.00056	.02368
#3	.00003	.00415	.04727	.00003	.00073	.00079	.03592
#4	.00001	.00596	-.14732	.00004	.00073	.00081	.02791

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.30000	.20000	.20000	.00500	5.0000
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00423	.00365	-.00056	.00063	.01724	.12155	.00174
SDev	.00297	.00094	.00221	.00105	.00467	.34213	.00077
%RSD	70.372	25.828	393.75	166.50	27.083	281.46	44.442

#1	.00202	.00284	-.00282	-.00041	.01095	-.22818	.00124
#2	.00443	.00446	.00000	.00042	.01670	.13861	.00162
#3	.00210	.00447	.00226	.00210	.01957	.58218	.00287
#4	H.00836	.00282	-.00169	.00042	.02173	-.00640	.00124

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.05000	.01000	.02500	.10000	5.0000	.05000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01370	.00055	.01294	.02390	.00282	-.03050	-.00667
SDev	.01823	.00063	.00324	.00716	.00552	.03382	.00004
%RSD	133.04	113.60	24.996	29.949	195.84	110.87	.53942

#1	.00205	.00001	.01456	.01345	-.00041	-.06112	-.00668
#2	.00205	.00109	.00809	.02855	.00601	-.05166	-.00662
#3	.04041	.00110	.01456	.02855	.00880	-.02342	-.00666
#4	.01027	.00001	.01456	.02506	-.00312	.01418	-.00671

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	.01500	.04000	5.0000	.04000	.10000	.06000
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00518	-.03138	.00274	.00056	.00086	.00755	.00155
SDev	.02274	.03488	.01521	.00031	.00030	.08648	.00248
%RSD	438.66	111.16	555.83	54.811	34.816	1144.9	160.09

#1	.01286	-.06129	-.00763	.00030	.00047	-.03557	.00036
#2	.03339	.00448	.00619	.00030	.00110	.13728	.00020

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#3	-.00763	-.00742	.02278	.00089	.00079	-.03575	.00527
#4	-.01788	-.06129	-.01040	.00075	.00110	-.03574	.00036

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.25000	.50000	.10000	.05000	.05000	.30000	.05000
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-.30000	-.05000

Elem	ZN
Units	ppm
Avge	.00151
SDev	.00153
%RSD	101.48

#1	.00060
#2	.00226
#3	.00326
#4	-.00009

Errors	LC Pass
High	.02000
Low	-.02000

Method: QUANMET Sample Name: ICSA 0087-133-5 Operator: WTR
 Run Time: 03/25/01 14:14:25
 Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00605	495.63	.14225	-.01032	.00223	.00018	480.47
SDev	.00234	2.14	.18662	.01181	.00011	.00001	1.48
%RSD	38.608	.43173	131.19	114.41	4.9913	4.4662	.30728

#1	-.00606	496.68	.40088	-.00440	.00233	.00017	478.80
#2	-.00607	493.87	-.03067	-.00456	.00225	.00017	481.34
#3	-.00318	493.82	.05454	-.00430	.00225	.00019	482.03
#4	-.00890	498.14	.14426	-.02803	.00207	.00017	479.71

Errors	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value		500.00					500.00
Range		20.000					20.000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00256	.01306	-.00127	-.00002	184.11	.08957	.00220
SDev	.00625	.00336	.00116	.00049	.13	.16735	.00069
%RSD	244.68	25.761	91.621	2111.4	.06965	186.85	31.451

#1	-.00294	.00940	-.00226	-.00045	184.06	-.09170	.00271
#2	.00571	.01263	-.00057	.00038	183.98	.30068	.00216
#3	-.00352	.01265	.00000	-.00044	184.11	.01919	.00124
#4	-.00947	.01755	-.00226	.00042	184.28	.13008	.00271

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value					200.00		
Range					20.000		

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	483.02	.00066	.00631	.00735	-.01477	.03576	-.04303
SDev	1.37	.00101	.00917	.00373	.01238	.03229	.05951
%RSD	.28457	152.79	145.24	50.733	83.843	90.297	138.31

#1	483.57	.00198	-.00017	.00610	-.02809	.05156	.00651
#2	482.14	-.00015	-.00018	.01229	.00187	-.01265	-.12571
#3	481.69	-.00011	.00631	.00764	-.01620	.05336	-.04629
#4	484.70	.00092	.01928	.00339	-.01665	.05077	-.00663

Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	500.00						
Range	20.000						

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.09576	.03442	-.06064	.01363	-.02049	.32450	.00383
SDev	.08528	.04882	.03958	.00008	.00030	.16233	.00246
%RSD	89.049	141.84	65.281	.56185	1.4673	50.026	64.177

#1	-.20876	.03443	-.01620	.01373	-.02057	.51397	.00489
#2	-.05001	.09422	-.04717	.01363	-.02025	.32646	.00489

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#3	-.01369	.03438	-.11042	.01363	-.02025	.34021	.00016
#4	-.11060	-.02536	-.06876	.01354	-.02088	.11736	.00538

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	ZN
Units	ppm
Avge	.00488
SDev	.00226
%RSD	46.354

#1	.00282
#2	.00342
#3	.00782
#4	.00545

Errors	NOCHECK
Value	
Range	

Method: QUANMET Sample Name: ICSAB 0087-133-6 Operator: WTR
 Run Time: 03/25/01 14:17:36
 Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.97215	494.74	1.0316	.94609	.46816	.45748	478.48
SDev	.00121	2.24	.1406	.02076	.00207	.00082	2.61
%RSD	.12451	.45357	13.632	2.1939	.44187	.17893	.54469
#1	.97213	493.74	Q1.2157	.94812	.46814	.45719	478.50
#2	.97363	493.08	1.0260	.92685	.46609	.45707	481.23
#3	.97215	494.08	.87346	.97432	.46743	.45696	479.21
#4	.97067	498.04	1.0113	.93507	.47099	.45870	474.97
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.0000	500.00	1.0000	1.0000	.50000	.50000	500.00
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.97389	.46552	.44641	.49442	183.71	9.9908	.99947
SDev	.01367	.00352	.00538	.00417	.14	.2543	.01069
%RSD	1.4040	.75572	1.2055	.84330	.07765	2.5452	1.0694
#1	.97688	.46714	.44980	.49232	183.58	10.170	.99924
#2	.96077	.46881	.45207	.49236	183.89	10.247	.98860
#3	.99177	.46548	.44076	.49234	183.77	9.7435	.99600
#4	.96614	.46066	.44303	.50068	183.61	9.8032	1.0140
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.0000	.50000	.50000	.50000	200.00	10.000	1.0000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	480.36	.45758	.90241	10.089	.89436	.97165	.87759
SDev	.99	.00181	.01941	.087	.01698	.06972	.03300
%RSD	.20512	.39623	2.1514	.86038	1.8986	7.1750	3.7607
#1	479.96	.45974	.89269	10.064	.86901	.97244	.92050
#2	480.13	.45767	.91861	10.012	.90147	1.0386	.86760
#3	479.55	.45760	.87977	10.066	.90185	1.0002	.84132
#4	481.79	.45530	.91857	10.213	.90511	.87532	.88095
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.00	.50000	1.0000	10.000	1.0000	1.0000	1.0000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q.73515	1.0335	.84187	.93581	.88459	9.6331	.47079
SDev	.12240	.0057	.02861	.00412	.00129	.1874	.00228
%RSD	16.650	.55266	3.3984	.44072	.14636	1.9458	.48341
#1	.90272	1.0321	.83858	.93467	.88443	9.7923	.47392
#2	Q.72930	1.0261	.83010	.93261	.88443	9.5203	.47091

#3	Q.61095	1.0380	.88252	.93412	.88318	9.4279	.46868
#4	Q.69765	1.0380	.81629	.94186	.88632	9.7919	.46966

Errors	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.0000	1.0000	1.0000	1.0000	1.0000	10.000	.50000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000

Elem	ZN
Units	ppm
Avge	.95576
SDev	.00607
%RSD	.63501

#1	.96332
#2	.95782
#3	.94977
#4	.95212

Errors	QC Pass
Value	1.0000
Range	20.000

Method: QUANMET Sample Name: DXT6EB

Operator: WTR

Run Time: 03/25/01 14:20:51

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00150	H.45109	-.00511	.00040	.00033	.00047	.47840
SDev	.00374	.02882	.05486	.00003	.00009	.00006	.03324
%RSD	249.74	6.3878	1072.8	6.9515	27.451	12.891	6.9479
#1	.00004	H.42446	-.04106	.00038	.00029	.00044	.43384
#2	.00294	H.47689	.05332	.00042	.00029	.00044	.49683
#3	.00584	H.47512	-.06146	.00043	.00047	.00044	.50945
#4	-.00284	H.42788	.02875	.00038	.00029	.00056	.47346
Errors	LC Pass	LC High	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.30000	.20000	.20000	.00500	5.0000
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00053	.00325	.00000	.00086	H.20433	.46489	.00184
SDev	.00447	.00277	.00185	.00108	.01116	.32169	.00106
%RSD	850.91	85.323	96329.	125.22	5.4638	69.198	57.505
#1	-.00148	.00448	-.00226	-.00039	H.19266	.11302	.00086
#2	H.00582	.00283	.00000	.00044	H.21277	.32627	.00108
#3	-.00448	-.00040	.00000	.00211	H.21493	.55659	.00309
#4	.00225	.00609	.00226	.00128	H.19697	.86367	.00233
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass
High	.00500	.05000	.01000	.02500	.10000	5.0000	.05000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.48082	.00059	.00650	.01974	-.00145	.01151	-.00001
SDev	.02423	.00109	.00324	.00411	.00779	.03562	.01328
%RSD	5.0404	184.92	49.810	20.836	537.07	309.54	98065.
#1	.44589	.00004	.00164	.01771	-.01100	.02332	-.00670
#2	.49247	.00005	.00812	.02390	.00446	.00440	-.00665
#3	.50068	.00222	.00812	.02235	.00532	-.03330	.01990
#4	.48425	.00004	.00811	.01500	-.00458	.05161	-.00661
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	.01500	.04000	5.0000	.04000	.10000	.06000
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.03782	.00748	-.01519	.00049	.00110	.06363	.00047
SDev	.02480	.00345	.02608	.00026	.00044	.06602	.00065
%RSD	65.563	46.104	171.69	53.190	40.406	103.76	137.74
#1	-.05838	.00448	-.00485	.00020	.00079	.07166	.00004
#2	-.00190	.01046	.00898	.00066	.00110	.14997	.00020

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#3	-.04292	.01046	-.01303	.00075	.00173	.03993	.00020
#4	-.04811	.00450	-.05185	.00034	.00079	-.00704	.00143

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.25000	.50000	.10000	.05000	.05000	.30000	.05000
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-.30000	-.05000

Elem	ZN
Units	ppm
Avge	.00073
SDev	.00150
%RSD	204.45

#1	-.00107
#2	.00086
#3	.00055
#4	.00258

Errors	LC Pass
High	.02000
Low	-.02000

Method: QUANMET Sample Name: DXT6EC

Operator: WTR

Run Time: 03/25/01 14:24:00

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05109	2.0579	1.9291	.97112	1.9587	.04961	L.10198
SDev	.00072	.0238	.0781	.00291	.0104	.00022	.01329
%RSD	1.4145	1.1584	4.0491	.29965	.53163	.43485	13.037

#1	.05218	2.0291	1.9381	.96827	1.9441	.04929	L.08351
#2	.05073	2.0482	1.9978	.96982	1.9584	.04967	L.10241
#3	.05073	2.0728	1.9627	.97133	1.9669	.04979	L.10739
#4	.05073	2.0816	1.8178	.97506	1.9655	.04967	L.11461

Errors	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass	LC Low
High	.06000	2.4000	2.4000		2.4000	.06000	60.000
Low	.04000	1.6000	1.6000		1.6000	.04000	40.000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05473	.50631	.20200	.24993	1.1066	L.06184	.96532
SDev	.00285	.00243	.00226	.00143	.0041	.19687	.00694
%RSD	5.2105	.48003	1.1196	.57190	.36893	318.34	.71866

#1	.05533	.50429	.19861	.24847	1.1019	L-.21112	.95561
#2	.05066	.50429	.20313	.24930	1.1084	L.25803	.96517
#3	.05563	.50753	.20313	.25181	1.1048	L.08743	.97110
#4	.05731	.50915	.20313	.25014	1.1112	L.11302	.96941

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	NOCHECK
High	.06000	.60000	.24000	.30000	1.2000	60.000	
Low	.04000	.40000	.16000	.20000	.80000	40.000	

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.10068	.50398	.00823	L.00426	.51563	.50039	L.00053
SDev	.01566	.00140	.00528	.00246	.00392	.00906	.00005
%RSD	15.552	.27859	64.174	57.675	.76003	1.8114	10.137

#1	L.08425	.50234	.00176	L.00145	.51832	.49800	L.00059
#2	L.11986	.50452	.01470	L.00726	.51739	.48857	L.00046
#3	L.09247	.50561	.00823	L.00494	.51701	.50748	L.00055
#4	L.10616	.50343	.00823	L.00339	.50981	.50752	L.00051

Errors	LC Low	LC Pass	NOCHECK	LC Low	LC Pass	LC Pass	LC Low
High	60.000	.60000		60.000	.60000	.60000	.60000
Low	40.000	.40000		40.000	.40000	.40000	.40000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9704	.01287	-.01300	.96513	.00047	2.0999	.49515
SDev	.0723	.00345	.01480	.00410	.00044	.0150	.00014
%RSD	3.6692	26.824	113.85	.42470	94.281	.71460	.02771

#1	1.9755	.01586	.00082	.95938	.00110	2.0961	.49498
#2	1.9858	.01586	-.00194	.96508	.00016	2.1117	.49532

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#3	1.8729	.00988	-.02130	.96850	.00047	2.0803	.49515
#4	2.0473	.00988	-.02959	.96758	.00016	2.1116	.49515

Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High	2.4000					2.4000	.60000
Low	1.6000					1.6000	.40000

Elem	ZN
Units	ppm
Avge	.50569
SDev	.00279
%RSD	.55066

#1	.50551
#2	.50889
#3	.50212
#4	.50623

Errors	LC Pass
High	.60000
Low	.40000

Method: QUANMET Sample Name: DXRAF

Operator: WTR

Run Time: 03/25/01 14:27:09

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61E1CP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	- .00209	.72794	- .10470	.00009	.00100	.00006	.05559
SDev	.00188	.01415	.05964	.00001	.00035	.00006	.01751
%RSD	90.024	1.9442	56.959	12.337	35.165	104.00	31.506

#1	.00009	.72007	- .19326	.00008	.00092	.00002	.03788
#2	- .00428	.71656	- .07836	.00009	.00055	.00003	.04416
#3	- .00135	.72700	- .08353	.00010	.00118	.00014	.06512
#4	- .00283	.74815	- .06366	.00011	.00136	.00003	.07522

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	- .01000	- .20000	- .30000	- .20000	- .20000	- .00500	- 5.0000

Elem	CD	CO	CR	CU	FE	K	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	- .00080	.00122	- .00227	.00147	.04830	- .08743	.00054
SDev	.00096	.00133	.00185	.00080	.00713	.10620	.00086
%RSD	120.71	108.97	81.467	54.345	14.770	121.46	158.40

#1	- .00039	- .00041	- .00227	.00209	.04112	.04478	.00162
#2	.00034	.00122	- .00226	.00210	.04399	- .05758	- .00007
#3	- .00182	.00122	- .00453	.00126	.05118	- .13435	.00086
#4	- .00132	.00285	- .00001	.00043	.05692	- .20259	- .00023

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	- .00500	- .05000	- .01000	- .02500	- .10000	- 5.0000	- .05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01918	.00217	.00486	10.947	- .00335	- .06400	- .01324
SDev	.01694	.00154	.00374	.145	.00372	.03552	.01326
%RSD	88.352	70.873	76.878	1.3282	111.09	55.494	100.16

#1	.00479	.00108	.00162	10.910	- .00041	- .01461	- .00658
#2	.00479	.00108	.00809	11.119	- .00002	- .07105	- .00655
#3	.02945	.00217	.00809	10.771	- .00752	- .07106	- .00670
#4	.03767	.00434	.00163	10.987	- .00544	- .09930	- .03312

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	- 5.0000	- .01500	- .04000	- 5.0000	- .04000	- .10000	- .06000

Elem	SE	SI	SN	SR	TI	TL	V
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	- .05755	.51285	- .00351	.00057	.00102	.04240	.01236
SDev	.04068	.00003	.02715	.00041	.00054	.05602	.00283
%RSD	70.691	.00600	773.59	72.634	52.548	132.13	22.863

#1	- .01782	.51287	.00619	.00030	.00110	.12111	.01472
#2	- .08449	.51282	- .03528	.00020	.00047	.01103	.00999

#3	-.09985	.51288	.02831	.00066	.00173	.04233	.01488
#4	-.02803	.51282	-.01327	.00112	.00079	-.00489	.00983
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem ZN
Units ppm
Avge .00140
SDev .00075
%RSD 53.546

#1 .00095
#2 .00232
#3 .00167
#4 .00065

Errors LC Pass
High 100.00
Low -.02000

Method: QUANMET Sample Name: DXRAFP5

Operator: WTR

Run Time: 03/25/01 14:30:19

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61E1CP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00148	.15173	-.08368	.00002	.00027	.00005	.02745
SDev	.00118	.00222	.06029	.00001	.00004	.00000	.00300
%RSD	79.944	1.4649	72.057	21.711	14.634	.63963	10.949
#1	.00148	.14957	-.17350	.00003	.00029	.00005	.02307
#2	.00293	.15125	-.05872	.00002	.00029	.00005	.02992
#3	.00148	.15125	-.05872	.00002	.00021	.00005	.02829
#4	.00003	.15485	-.04377	.00002	.00029	.00005	.02852
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00118	.00163	-.00113	.00084	.01311	.21965	.00097
SDev	.00242	.00205	.00226	.00108	.00059	.24659	.00031
%RSD	204.00	125.90	199.84	128.86	4.4799	112.26	32.527
#1	-.00210	-.00040	-.00452	-.00042	.01311	-.10023	.00124
#2	.00019	.00122	-.00000	.00042	.01239	.44570	.00124
#3	.00129	.00122	-.00000	.00126	.01383	.15567	.00069
#4	-.00412	.00448	-.00000	.00210	.01311	.37746	.00069
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01712	.00000	.00485	2.1995	-.00139	-.04242	-.00661
SDev	.00525	.00000	.00374	.0082	.00602	.06100	.00011
%RSD	30.638	94.619	76.953	.37119	431.43	143.78	1.7204
#1	.01301	.00000	.00162	2.2047	.00400	-.09897	-.00648
#2	.02397	.00000	.00809	2.1876	-.00752	.02346	-.00669
#3	.01301	.00000	.00809	2.2050	-.00559	-.00478	-.00671
#4	.01849	.00000	.00162	2.2008	.00354	-.08941	-.00655
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00132	.11964	-.01385	.00018	.00055	.09801	.00502
SDev	.01282	.00573	.01634	.00002	.00030	.11078	.00010
%RSD	968.73	4.7857	117.94	12.597	54.710	113.03	1.9352
#1	.00261	.11814	-.03528	.00016	.00079	.02728	.00493
#2	.01799	.12412	-.01593	.00020	.00016	.04300	.00510

#3	-.01278	.12412	.00343	.00016	.00079	.05870	.00510
#4	-.00252	.11216	-.00763	.00020	.00047	.26307	.00494

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.00034
SDev	.00183
%RSD	528.92

#1	.00061
#2	.00263
#3	-.00007
#4	-.00179

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DXRAFS

Operator: WTR

Run Time: 03/25/01 14:33:28

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04858	2.6574	1.8755	.96700	1.9497	.04862	.03862
SDev	.00145	.0087	.0287	.00812	.0062	.00012	.00243
%RSD	2.9802	.32750	1.5298	.83932	.32041	.24617	6.2881
#1	.04786	2.6645	1.8780	.96980	1.9589	.04878	.03876
#2	.04786	2.6626	1.8381	.97133	1.9477	.04866	.03532
#3	.04786	2.6451	1.8781	.97198	1.9473	.04853	.04114
#4	.05075	2.6573	1.9080	.95491	1.9449	.04853	.03927
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05614	.49777	.19649	.24721	1.0888	.18979	.96777
SDev	.00245	.00188	.00321	.00160	.0025	.23267	.00458
%RSD	4.3659	.37814	1.6324	.64830	.23093	122.59	.47353
#1	.05574	.49939	.20086	.24930	1.0926	.44570	.97211
#2	.05758	.49614	.19409	.24595	1.0875	.32627	.96764
#3	.05838	.49614	.19409	.24595	1.0875	-.03199	.96988
#4	.05286	.49941	.19691	.24762	1.0875	.01919	.96147
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00616	.49499	.00338	11.189	.49087	.46446	.00035
SDev	.00354	.00104	.00619	.052	.00505	.02489	.00004
%RSD	57.378	.21010	183.40	.46154	1.0293	5.3587	10.707
#1	.00205	.49580	-.00471	11.258	.49496	.46922	.00039
#2	.00479	.49363	.00823	11.155	.48739	.49736	.00030
#3	.01027	.49472	.00176	11.197	.48568	.44089	.00036
#4	.00753	.49581	.00823	11.145	.49543	.45039	.00034
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9101	.51816	-.00886	.95966	.00118	1.9980	.49991
SDev	.0559	.00000	.01117	.00330	.00047	.0634	.00015
%RSD	2.9279	.00032	126.10	.34430	40.000	3.1712	.03035
#1	1.8678	.51816	-.00195	.96439	.00141	2.0490	.49972
#2	1.9293	.51816	-.01024	.95946	.00079	2.0334	.50003

#3	1.8626	.51816	-.02407	.95737	.00079	2.0020	.49987
#4	1.9806	.51816	.00081	.95741	.00173	1.9076	.50004

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.49515
SDev	.00219
%RSD	.44171

#1	.49617
#2	.49214
#3	.49721
#4	.49508

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DXRAFD

Operator: WTR

Run Time: 03/25/01 14:36:38

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04857	2.6447	1.8832	.97142	1.9409	.04869	.03791
SDev	.00188	.0206	.0308	.00110	.0175	.00038	.00328
%RSD	3.8774	.77789	1.6370	.11270	.89996	.78792	8.6606

#1	.04930	2.6469	1.9081	.97196	1.9600	.04891	.03425
#2	.05075	2.6539	1.8381	.97196	1.9366	.04866	.04170
#3	.04638	2.6153	1.8934	.97196	1.9190	.04817	.03634
#4	.04783	2.6625	1.8930	.96977	1.9482	.04904	.03937

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05341	.49412	.19790	.24636	1.0760	-.04265	.96284
SDev	.00372	.00308	.00107	.00160	.0036	.18019	.01086
%RSD	6.9653	.62231	.53886	.65080	.33146	422.49	1.1284

#1	.04955	.49616	.19861	.24762	1.0789	-.21965	.97442
#2	.05178	.49616	.19861	.24595	1.0782	.18979	.95885
#3	.05402	.48966	.19805	.24427	1.0710	-.14288	.94968
#4	.05827	.49451	.19635	.24762	1.0760	.00213	.96841

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01096	.49417	.00661	11.027	.50281	.47143	.00037
SDev	.00787	.00140	.00619	.124	.00713	.03550	.00007
%RSD	71.807	.28378	93.699	1.1250	1.4183	7.5293	18.416

#1	-.01986	.49580	.00176	11.149	.50417	.44090	.00045
#2	-.00068	.49471	.00176	10.998	.49380	.49737	.00029
#3	-.01164	.49254	.00823	10.866	.50216	.50662	.00039
#4	-.01164	.49363	.01470	11.093	.51113	.44084	.00035

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9652	.51814	.00842	.95496	.00110	2.0218	.49755
SDev	.0838	.00003	.02956	.00769	.00057	.0784	.00269
%RSD	4.2619	.00565	351.03	.80549	52.164	3.8781	.54025

#1	1.8626	.51816	-.00471	.96311	.00079	2.0807	.49988
#2	2.0678	.51816	.02846	.95331	.00173	2.0965	.49988

#3	1.9652	.51811	-.02684	.94511	.00141	1.9709	.49514
#4	1.9652	.51811	.03676	.95832	.00047	1.9393	.49530

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.49545
SDev	.00310
%RSD	.62560

#1	.49615
#2	.49549
#3	.49883
#4	.49134

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DXT56B

Operator: WTR

Run Time: 03/25/01 14:39:47

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00147	-.00838	-.04119	.00003	.00040	.00005	.00624
SDev	.00118	.00663	.02355	.00000	.00013	.00001	.00151
%RSD	80.359	79.138	57.169	15.440	33.167	14.174	24.239

#1	.00147	-.01669	-.04237	.00003	.00029	.00005	.00431
#2	.00145	-.00088	-.05741	.00003	.00047	.00006	.00668
#3	.00293	-.00618	-.05745	.00002	.00055	.00005	.00794
#4	.00003	-.00978	-.00751	.00003	.00029	.00005	.00603

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.30000	.20000	.20000	.00500	5.0000
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00074	.00284	.00056	.00189	.01670	.52033	.00147
SDev	.00227	.00231	.00113	.00080	.00131	.21358	.00042
%RSD	306.12	81.034	200.15	42.571	7.8612	41.046	28.267

#1	.00164	.00122	-.00000	.00126	.01526	.52247	.00086
#2	.00285	.00284	.00000	.00209	.01814	.35186	.00162
#3	-.00245	.00611	.00226	.00293	.01742	.82102	.00162
#4	.00092	.00122	-.00000	.00126	.01598	.38599	.00178

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.05000	.01000	.02500	.10000	5.0000	.05000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01370	.00109	.00324	.00513	-.00186	.00006	-.01329
SDev	.00468	.00000	.00324	.00196	.00516	.02720	.00765
%RSD	34.156	.08402	99.931	38.236	277.47	43723.	57.546

#1	.01301	.00109	.00162	.00377	-.00551	-.02350	-.00664
#2	.01575	.00109	.00162	.00455	-.00706	-.02349	-.01999
#3	.01849	.00109	.00162	.00803	.00299	.02368	-.01984
#4	.00753	.00109	.00809	.00416	.00214	.02356	-.00669

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	.01500	.04000	5.0000	.04000	.10000	.06000
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00892	.01050	.01031	.00078	.00039	-.00030	.00345
SDev	.02560	.00489	.02025	.00012	.00047	.04137	.00235
%RSD	286.95	46.543	196.36	15.440	120.00	13648.	68.285

#1	-.04355	.00452	-.01316	.00089	-.00016	.02725	.00371
#2	.01801	.01046	.02273	.00066	.00079	.04294	.00004

680 837

#3	-.00764	.01650	.00061	.00089	.00079	-.03573	.00494
#4	-.00251	.01052	.03108	.00070	.00016	-.03566	.00510

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.25000	.50000	.10000	.05000	.05000	.30000	.05000
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-.30000	-.05000

Elem	ZN
Units	ppm
Avge	.00227
SDev	.00082
%RSD	36.177

#1	.00261
#2	.00160
#3	.00328
#4	.00160

Errors	LC Pass
High	.02000
Low	-.02000

Method: QUANMET Sample Name: DXT56C

Operator: WTR

Run Time: 03/25/01 14:42:56

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04555	1.8703	1.8150	.94598	1.9054	.04663	46.901
SDev	.00083	.0084	.0499	.02860	.0133	.00015	.179
%RSD	1.8236	.44855	2.7503	3.0238	.69581	.32433	.38185

#1	.04483	1.8672	1.8100	.98674	1.9121	.04660	46.801
#2	.04482	1.8655	1.7501	.93947	1.8994	.04660	46.874
#3	.04625	1.8655	1.8700	.93794	1.8901	.04649	47.161
#4	.04628	1.8828	1.8298	.91978	1.9199	.04685	46.767

Errors	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass
High	.06000	2.4000	2.4000		2.4000	.06000	60.000
Low	.04000	1.6000	1.6000		1.6000	.04000	40.000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05153	.46940	.18552	.23776	.99500	47.621	.97200
SDev	.00363	.00210	.00028	.00285	.00180	.465	.01180
%RSD	7.0405	.44821	.15279	1.1968	.18081	.97569	1.2138

#1	.05282	.47183	.18538	.24006	.99734	47.992	.97858
#2	.05387	.46696	.18537	.23672	.99302	47.182	.96579
#3	.04613	.47024	.18594	.23421	.99446	47.259	.95885
#4	.05330	.46857	.18538	.24006	.99520	48.052	.98476

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	.06000	.60000	.24000	.30000	1.2000	60.000	
Low	.04000	.40000	.16000	.20000	.80000	40.000	

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	48.505	.47245	.94804	48.644	.47557	.47893	.41633
SDev	.240	.00054	.00814	.507	.01158	.03846	.00657
%RSD	.49451	.11494	.85880	1.0428	2.4343	8.0305	1.5789

#1	48.618	.47218	.94643	48.887	.46093	.51667	.42618
#2	48.408	.47218	.93996	48.389	.47222	.45061	.41310
#3	48.224	.47327	.94643	48.082	.48181	.44130	.41291
#4	48.772	.47219	.95937	49.220	.48730	.50713	.41311

Errors	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High	60.000	.60000		60.000	.60000	.60000	.60000
Low	40.000	.40000		40.000	.40000	.40000	.40000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.8598	9.7258	1.8405	.93723	.94716	1.9015	.47813
SDev	.0438	.0176	.0581	.00523	.00297	.1915	.00239
%RSD	2.3560	.18118	3.1585	.55830	.31380	10.073	.49969

#1	1.8111	9.7378	1.8267	.93983	.94724	1.7206	.47962
#2	1.9136	9.7079	1.8018	.93485	.94535	2.1295	.47823

#3	1.8418	9.7138	1.9262	.93121	.94472	1.9880	.47472
#4	1.8726	9.7438	1.8073	.94302	.95132	1.7678	.47994
Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High	2.4000					2.4000	.60000
Low	1.6000					1.6000	.40000
Elem	ZN						
Units	ppm						
Avge	.47017						
SDev	.00344						
%RSD	.73229						
#1	.46515						
#2	.47187						
#3	.47085						
#4	.47281						
Errors	LC Pass						
High	.60000						
Low	.40000						

Method: QUANMET Sample Name: CCV2-1 0087-121-12 Operator: WTR
 Run Time: 03/25/01 14:46:06
 Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0017	49.750	5.0695	4.9633	4.9006	4.8819	50.251
SDev	.0019	.152	.1220	.0286	.0271	.0114	.297
%RSD	.18514	.30481	2.4059	.57635	.55274	.23276	.59061

#1	1.0013	49.908	4.9659	4.9382	4.9211	4.8978	50.152
#2	1.0043	49.655	5.0027	4.9957	4.8789	4.8742	50.567
#3	.99984	49.847	5.2410	4.9789	4.9268	4.8824	49.886
#4	1.0013	49.589	5.0683	4.9403	4.8757	4.8732	50.398

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	55.000	5.5000	5.5000	5.5000	5.5000	55.000
Low	.90000	45.000	4.5000	4.5000	4.5000	4.5000	45.000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.0287	4.9328	4.9351	4.9095	51.392	49.570	4.9566
SDev	.0176	.0117	.0188	.0294	.059	.110	.0614
%RSD	.34903	.23808	.38100	.59825	.11543	.22260	1.2385

#1	5.0230	4.9397	4.9361	4.9287	51.437	49.502	4.9887
#2	5.0536	4.9397	4.9508	4.8828	51.430	49.664	4.8993
#3	5.0125	4.9153	4.9084	4.9404	51.308	49.664	5.0270
#4	5.0256	4.9365	4.9451	4.8861	51.392	49.451	4.9115

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.5000	5.5000	5.5000	5.5000	55.000	55.000	5.5000
Low	4.5000	4.5000	4.5000	4.5000	45.000	45.000	4.5000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	50.075	4.9366	4.9582	49.896	4.9686	5.0113	5.0052
SDev	.140	.0106	.0183	.458	.0180	.0441	.0589
%RSD	.27921	.21426	.36927	.91709	.36302	.87950	1.1763

#1	50.224	4.9405	4.9711	50.190	4.9734	4.9785	5.0251
#2	49.958	4.9426	4.9711	49.449	4.9777	5.0538	4.9188
#3	50.164	4.9208	4.9323	50.379	4.9420	4.9684	5.0251
#4	49.953	4.9426	4.9582	49.566	4.9813	5.0445	5.0516

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	5.5000	5.5000	55.000	5.5000	5.5000	5.5000
Low	45.000	4.5000	4.5000	45.000	4.5000	4.5000	4.5000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.9070	5.1450	4.9725	4.8894	4.9174	10.035	4.9335
SDev	.0438	.0269	.0318	.0223	.0077	.086	.0047
%RSD	.89245	.52200	.63906	.45710	.15703	.85599	.09487

#1	4.8623	5.1585	4.9339	4.9069	4.9265	10.137	4.9329
#2	4.9135	5.1047	5.0109	4.8733	4.9136	10.074	4.9403

#3	4.8875	5.1584	4.9671	4.9103	4.9205	9.9817	4.9306
#4	4.9647	5.1584	4.9783	4.8672	4.9089	9.9488	4.9301

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.5000	5.5000	5.5000	5.5000	5.5000	11.000	5.5000
Low	4.5000	4.5000	4.5000	4.5000	4.5000	9.0000	4.5000

Elem	ZN
Units	ppm
Avge	4.9665
SDev	.0184
%RSD	.37141

#1	4.9623
#2	4.9929
#3	4.9502
#4	4.9604

Errors	LC Pass
High	5.5000
Low	4.5000

Method: QUANMET Sample Name: CCB1

Operator: WTR

Run Time: 03/25/01 14:49:15

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00144	-.00240	-.07612	.00003	.00189	.00181	.01505
SDev	.00167	.00294	.04794	.00002	.00081	.00071	.01087
%RSD	115.95	122.61	62.978	65.947	42.726	39.417	72.211
#1	-.00289	-.00629	-.05736	.00001	.00118	.00118	.00603
#2	.00001	-.00281	-.05739	.00004	.00136	.00143	.00547
#3	.00001	-.00112	-.14725	.00003	.00207	.00181	.02233
#4	-.00289	.00061	-.04247	.00006	.00296	.00281	.02638
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.30000	.20000	.20000	.00500	5.0000
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00364	.00161	-.00169	.00063	.01814	-.24311	.00272
SDev	.00201	.00335	.00284	.00186	.00846	.49275	.00126
%RSD	55.154	207.54	168.39	294.43	46.637	202.69	46.199
#1	H.00551	.00446	-.00226	.00126	.00952	-.03199	.00216
#2	.00126	-.00204	-.00452	-.00125	.01527	-.41584	.00124
#3	H.00507	.00446	.00227	.00293	.01814	.30921	.00401
#4	.00271	-.00042	-.00225	-.00042	.02963	-.83381	.00347
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.05000	.01000	.02500	.10000	5.0000	.05000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01301	.00164	.01780	.02332	-.00613	-.01410	-.01008
SDev	.00975	.00063	.00374	.01720	.00947	.03848	.00661
%RSD	74.927	38.420	20.997	73.761	154.38	272.99	65.571
#1	.00753	.00109	.01456	.00919	-.00652	-.04226	-.01999
#2	.00479	.00110	.01456	.00803	.00624	-.03302	-.00668
#3	.02671	.00218	.02103	.03474	-.00745	.04248	-.00679
#4	.01301	.00219	.02103	.04132	-.01680	-.02357	-.00686
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	.01500	.04000	5.0000	.04000	.10000	.06000
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.03072	.01196	-.00765	.00179	.00141	.05474	.00045
SDev	.02154	.00752	.02223	.00079	.00068	.05194	.00010
%RSD	70.125	62.915	290.68	44.207	48.005	94.895	22.113
#1	-.03331	.01046	-.00492	.00112	.00079	-.00411	.00036
#2	-.00765	.01046	.02278	.00121	.00110	.09019	.00036

680 843

#3	-.02302	.02242	-.02423	.00203	.00141	.10581	.00054
#4	-.05889	.00448	-.02423	.00280	.00236	.02707	.00053

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.25000	.50000	.10000	.05000	.05000	.30000	.05000
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-.30000	-.05000

Elem	ZN
Units	ppm
Avge	.00347
SDev	.00179
%RSD	51.677

#1	.00230
#2	.00158
#3	.00498
#4	.00502

Errors	LC Pass
High	.02000
Low	-.02000

Method: QUANMET Sample Name: DXRH2

Operator: WTR

Run Time: 03/25/01 14:52:25

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00303	3.7473	-.04678	.04213	.11177	.00034	27.359
SDev	.00277	.0620	.01599	.00211	.00175	.00007	.218
%RSD	91.508	1.6549	34.184	5.0146	1.5650	20.785	.79839
#1	.00085	3.6799	-.02625	.04042	.11026	.00040	27.163
#2	.00086	3.7796	-.06202	.04050	.11319	.00028	27.179
#3	.00376	3.8165	-.04238	.04275	.11338	.00028	27.529
#4	.00665	3.7131	-.05648	.04485	.11026	.00040	27.567
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00139	.00510	.13109	.02715	3.5989	5.5168	.00615
SDev	.00295	.00282	.00185	.00083	.0284	.2182	.00068
%RSD	212.77	55.327	1.4078	3.0722	.78906	3.9551	11.133
#1	.00545	.00265	.13108	.02756	3.5634	5.4443	.00532
#2	.00151	.00754	.12883	.02590	3.6043	5.5979	.00587
#3	-.00132	.00266	.13108	.02757	3.6323	5.2566	.00679
#4	-.00010	.00754	.13335	.02757	3.5957	5.7685	.00663
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.6781	.09950	.01179	S-.11931	.01052	-.02453	-.00776
SDev	.0328	.00137	.00374	.00000	.00464	.00477	.00007
%RSD	.57683	1.3752	31.675	.00000	44.074	19.454	.85794
#1	5.6514	.09976	.00855	S-.11931	.01537	-.02690	-.00769
#2	5.7116	.09760	.01503	S-.11931	.01359	-.02683	-.00773
#3	5.7007	.10086	.00856	S-.11931	.00663	-.02701	-.00785
#4	5.6486	.09977	.01503	S-.11931	.00647	-.01737	-.00778
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.03485	12.591	-.01301	.14100	.07167	.12556	.01067
SDev	.03956	.137	.02494	.00186	.00144	.06740	.00056
%RSD	113.52	1.0877	191.71	1.3218	2.0037	53.679	5.2737
#1	.00864	12.435	-.01577	.13954	.06956	.17722	.01151
#2	-.01175	12.680	-.01024	.14227	.07207	.03504	.01044

#3	-.06295	12.728	.01741	.14291	.07270	.11328	.01028
#4	-.07332	12.519	-.04343	.13927	.07238	.17668	.01045

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.61384
SDev	.00789
%RSD	1.2858

#1	.60695
#2	.61847
#3	.62256
#4	.60737

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DXRH2P5 Operator: WTR
 Run Time: 03/25/01 14:55:34
 Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00052	.78972	-.08468	.03601	.02540	.00055	5.9155
SDev	.00187	.01603	.03269	.00186	.00021	.00010	.0430
%RSD	360.04	2.0302	38.608	5.1508	.82988	18.640	.72694
#1	.00021	.79712	-.08475	.03510	.02542	.00042	5.9239
#2	.00165	.80764	-.12476	.03509	.02568	.00067	5.9710
#3	-.00125	.78317	-.04468	.03879	.02524	.00055	5.8703
#4	-.00269	.77095	-.08452	.03506	.02524	.00055	5.8968
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00064	.00158	.02882	.00552	.79762	1.1345	.00263
SDev	.00321	.00361	.00113	.00246	.00801	.2835	.00079
%RSD	504.33	227.76	3.9208	44.535	1.0040	24.985	29.915
#1	-.00382	-.00207	.02712	.00636	.80318	.82955	.00309
#2	.00338	.00279	.02938	.00803	.80247	1.5120	.00347
#3	-.00252	.00606	.02938	.00218	.79887	1.0599	.00216
#4	.00041	-.00045	.02938	.00552	.78594	1.1366	.00178
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.2829	.02247	.00657	S2477.5	.00015	-.00777	-.00690
SDev	.0119	.00063	.00324	1210.6	.00536	.00899	.00005
%RSD	.93089	2.7991	49.221	48.864	3523.9	115.71	.72798
#1	1.2870	.02302	.00819	S3082.8	-.00335	-.01495	-.00696
#2	1.2979	.02193	.00819	S3082.8	.00725	-.00539	-.00685
#3	1.2733	.02302	.00819	S3082.8	-.00458	-.01470	-.00691
#4	1.2733	.02193	.00172	H661.58	.00129	.00395	-.00688
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00903	2.5860	-.01106	.03182	.01790	-.00047	.00482
SDev	.05371	.0373	.01324	.00011	.00091	.03398	.00059
%RSD	594.61	1.4425	119.67	.35805	5.0645	7185.0	12.227
#1	.05125	2.6115	.00069	.03188	.01806	.03092	.00516
#2	.02047	2.6234	-.01037	.03188	.01900	-.04773	.00516

#3	-.04621	2.5636	-.02972	.03188	.01774	.01520	.00394
#4	-.06164	2.5457	-.00484	.03165	.01680	-.00028	.00500
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.13002
SDev	.00175
%RSD	1.3494

#1	.12817
#2	.13220
#3	.13057
#4	.12915

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DXRH2S

Operator: WTR

Run Time: 03/25/01 14:58:44

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04736	6.8806	1.9256	.96593	1.8540	.04256	72.869
SDev	.00217	.0335	.0723	.00316	.0047	.00024	.340
%RSD	4.5877	.48706	3.7561	.32744	.25486	.57456	.46620

#1	.04842	6.8948	1.8407	.96144	1.8538	.04230	72.608
#2	.04845	6.8752	2.0105	.96669	1.8515	.04253	72.689
#3	.04848	6.9155	1.9003	.96673	1.8606	.04289	73.362
#4	.04410	6.8368	1.9509	.96887	1.8500	.04253	72.819

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05334	.44499	.30615	.27262	4.6015	57.938	.96601
SDev	.00403	.00506	.00398	.00084	.0167	.576	.00123
%RSD	7.5515	1.1372	1.2992	.30739	.36395	.99404	.12743

#1	.05595	.44255	.30290	.27136	4.5956	57.367	.96612
#2	.05360	.44093	.30517	.27303	4.5927	57.742	.96457
#3	.04756	.45232	.31194	.27304	4.6265	58.732	.96756
#4	.05625	.44418	.30460	.27303	4.5912	57.913	.96579

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	50.406	.54719	.92587	S-.11931	.44309	.49062	.55754
SDev	.138	.00241	.00814	.00000	.00518	.02713	.00013
%RSD	.27452	.44114	.87937	.00000	1.1697	5.5306	.02373

#1	50.377	.54582	.91455	S-.11931	.44203	.45524	.55765
#2	50.284	.54800	.93396	S-.11931	.43886	.48344	.55745
#3	50.605	.55018	.92749	S-.11931	.44087	.51199	.55740
#4	50.358	.54474	.92749	S-.11931	.45062	.51180	.55765

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9493	H24.834	1.7945	1.0035	.96435	1.8229	.46466
SDev	.0454	.081	.0362	.0028	.00393	.0586	.00414
%RSD	2.3298	.32579	2.0163	.28066	.40714	3.2150	.89134

#1	1.9044	H24.769	1.7668	1.0027	.96419	1.8387	.45947
#2	1.9455	H24.775	1.7889	1.0024	.96262	1.8230	.46486

#3	2.0122	H24.943	1.8470	1.0076	.96985	1.8853	.46961
#4	1.9352	H24.847	1.7751	1.0013	.96074	1.7444	.46470

Errors	LC Pass	LC High	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	1.1117
SDev	.0055
%RSD	.49677

#1	1.1049
#2	1.1141
#3	1.1178
#4	1.1100

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DXRH2D

Operator: WTR

Run Time: 03/25/01 15:01:54

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04796	6.4492	1.8322	.91022	1.7414	.04080	71.745
SDev	.00185	.1353	.1309	.00202	.0352	.00062	.317
%RSD	3.8529	2.0974	7.1424	.22190	2.0186	1.5129	.44155

#1	.04540	6.3403	1.7808	.90902	1.7208	.04047	71.613
#2	.04833	6.5782	1.9284	.91285	1.7718	.04133	71.562
#3	.04981	6.5536	1.9485	.91070	1.7705	.04131	72.219
#4	.04829	6.3248	1.6711	.90831	1.7025	.04010	71.586

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05375	.43497	.30121	.25106	4.4444	53.631	.88085
SDev	.00402	.00154	.00113	.00465	.0469	1.049	.02500
%RSD	7.4849	.35529	.37576	1.8534	1.0555	1.9567	2.8388

#1	.05212	.43296	.30290	.24792	4.4180	52.692	.86752
#2	.04995	.43453	.30064	.25545	4.4733	54.049	.90630
#3	.05357	.43615	.30064	.25462	4.4935	54.919	.89688
#4	.05935	.43622	.30064	.24625	4.3928	52.863	.85268

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	47.963	.53084	.89350	S-.11931	.43301	.46706	.52453
SDev	.721	.00439	.01225	.00000	.00354	.02488	.07614
%RSD	1.5024	.82765	1.3714	.00000	.81831	5.3277	14.516

#1	47.566	.52839	.89511	S-.11931	.42911	.44593	.54444
#2	48.561	.53275	.90159	S-.11931	.43726	.45502	.41186
#3	48.577	.53602	.90159	S-.11931	.43136	.46473	.57076
#4	47.147	.52621	.87570	S-.11931	.43430	.50257	.57107

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.8706	H23.513	1.7882	.94756	.92039	1.8097	.44792
SDev	.0684	.356	.0461	.01660	.01210	.0974	.00490
%RSD	3.6544	1.5152	2.5806	1.7519	1.3145	5.3796	1.0950

#1	1.9449	H23.322	1.7393	.93781	.91207	1.7944	.44430
#2	1.7963	H23.812	1.7746	.96157	.92997	1.7306	.44935

Method: QUANMET Sample Name: DXRKF

Operator: WTR

Run Time: 03/25/01 15:05:04

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00061	4.0607	.02110	.06612	.11846	.00010	33.957
SDev	.00246	.0314	.01722	.01703	.00098	.00008	.278
%RSD	401.27	.77327	81.604	25.752	.82930	78.393	.81757

#1	.00099	4.0755	.01469	.07761	.11943	.00003	34.065
#2	.00385	4.0441	.02005	.08126	.11757	.00017	34.121
#3	-.00191	4.0264	.04506	.06156	.11765	.00016	34.099
#4	-.00047	4.0966	.00459	.04404	.11917	.00003	33.542

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00248	.00304	.03079	.02220	4.2890	3.9366	.00661
SDev	.00209	.00309	.00098	.00048	.0198	.3184	.00101
%RSD	84.176	101.63	3.1848	2.1764	.46114	8.0890	15.197

#1	.00408	.00100	.03107	.02179	4.3175	3.5421	.00587
#2	.00405	.00100	.03164	.02262	4.2809	4.1051	.00810
#3	-.00034	.00752	.03108	.02263	4.2852	4.2672	.00625
#4	.00213	.00263	.02938	.02178	4.2723	3.8321	.00625

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.6603	.26921	.00865	S-.11931	.00889	.02431	-.00694
SDev	.0399	.00055	.00528	.00000	.00549	.03129	.00007
%RSD	.70406	.20367	61.087	.00000	61.740	128.70	1.0109

#1	5.6925	.26949	.00865	S-.11931	.00091	-.01813	-.00703
#2	5.6897	.26948	.00865	S-.11931	.01289	.04780	-.00690
#3	5.6075	.26948	.01512	S-.11931	.01204	.04800	-.00697
#4	5.6514	.26839	.00218	S-.11931	.00972	.01957	-.00687

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.02499	12.700	-.00812	.14805	.08235	.15906	.00885
SDev	.03774	.072	.01487	.00121	.00054	.05189	.00245
%RSD	151.03	.56433	183.04	.81640	.65122	32.622	27.686

#1	.00588	12.782	-.00467	.14911	.08306	.21366	.01008
#2	-.03014	12.609	-.02679	.14683	.08243	.16710	.00518

#3	.00065	12.692	.00916	.14719	.08180	.16694	.01024
#4	-.07633	12.716	-.01020	.14907	.08212	.08856	.00991
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem ZN
Units ppm
Avge 1.6863
SDev .0041
%RSD .24532

#1 1.6842
#2 1.6892
#3 1.6902
#4 1.6815

Errors LC Pass
High 100.00
Low -.02000

Method: QUANMET Sample Name: DXT6KB

Operator: WTR

Run Time: 03/25/01 15:23:13

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00002	-.00709	-.04867	.00003	-.00018	.00009	.01214
SDev	.00118	.00500	.03367	.00000	.00018	.00007	.00138
%RSD	6791.3	70.470	69.180	12.553	103.62	77.717	11.344

#1	-.00144	-.01312	-.09225	.00003	.00003	.00019	.01138
#2	.00003	-.00102	-.05750	.00003	-.00016	.00005	.01367
#3	.00003	-.00800	-.01749	.00003	-.00042	.00005	.01064
#4	.00145	-.00621	-.02743	.00003	-.00016	.00006	.01287

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.30000	.20000	.20000	.00500	5.0000
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00053	.00448	.00000	.00126	.02029	.39238	.00143
SDev	.00177	.00133	.00185	.00068	.00059	.26552	.00062
%RSD	336.99	29.711	214690.	54.155	2.8965	67.668	43.380

#1	-.00220	.00611	.00000	.00126	.01957	.59071	.00216
#2	.00177	.00447	-.00000	.00210	.02101	.38599	.00162
#3	-.00009	.00447	-.00226	.00042	.02029	.01919	.00069
#4	-.00159	.00285	.00226	.00126	.02029	.57365	.00124

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.05000	.01000	.02500	.10000	5.0000	.05000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00890	.00109	.00647	.03097	.00189	-.01164	-.00327
SDev	.00354	.00000	.00324	.00633	.00251	.02353	.00663
%RSD	39.723	.09472	49.980	20.447	132.47	202.05	202.73

#1	.00753	.00109	.00162	.03280	-.00118	-.02336	-.00663
#2	.01027	.00109	.00809	.03900	.00485	.02365	-.00654
#3	.00479	.00109	.00809	.02739	.00253	-.02342	-.00658
#4	.01301	.00109	.00809	.02468	.00138	-.02344	.00667

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	.01500	.04000	5.0000	.04000	.10000	.06000
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02955	-.04332	-.02144	.00020	.00024	.01929	.00231
SDev	.02882	.03203	.02289	.00026	.00047	.06352	.00257
%RSD	97.532	73.937	106.76	128.72	200.00	329.32	111.40

#1	-.00763	-.06129	.00343	-.00002	-.00047	-.06717	.00004
#2	.05905	.00454	-.02975	.00043	.00047	.07428	.00510

#3	.04366	-.06124	-.01040	.00043	.00047	.05858	.00387
#4	.02314	-.05531	-.04905	-.00002	.00047	.01146	.00021

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.25000	.50000	.10000	.05000	.05000	.30000	.05000
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-.30000	-.05000

Elem	ZN
Units	ppm
Avge	.00387
SDev	.00079
%RSD	20.489

#1	.00327
#2	.00397
#3	.00328
#4	.00496

Errors	LC Pass
High	.02000
Low	-.02000

Method: QUANMET Sample Name: DXT6KC

Operator: WTR

Run Time: 03/25/01 15:26:22

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04663	1.8427	1.8027	.92917	1.8647	.04592	47.121
SDev	.00137	.0168	.0632	.00757	.0121	.00024	.073
%RSD	2.9421	.91068	3.5055	.81515	.65027	.52652	.15429

#1	.04770	1.8463	1.7104	.93136	1.8535	.04574	47.050
#2	.04483	1.8445	1.8501	.91824	1.8703	.04597	47.159
#3	.04628	1.8199	1.8353	.93572	1.8560	.04572	47.205
#4	.04770	1.8603	1.8151	.93136	1.8792	.04624	47.072

Errors	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass
High	.06000	2.4000	2.4000		2.4000	.06000	60.000
Low	.04000	1.6000	1.6000		1.6000	.04000	40.000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04893	.47190	.18764	.23588	.99083	46.566	.93694
SDev	.00365	.00352	.00185	.00392	.00177	.291	.00827
%RSD	7.4598	.74690	.98440	1.6620	.17888	.62522	.88228

#1	.05418	.46864	.18764	.23254	.98866	46.235	.93025
#2	.04830	.47027	.18537	.23839	.99227	46.482	.94127
#3	.04578	.47680	.18990	.23255	.99010	46.610	.92979
#4	.04747	.47188	.18764	.24006	.99228	46.935	.94644

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	.06000	.60000	.24000	.30000	1.2000	60.000	
Low	.04000	.40000	.16000	.20000	.80000	40.000	

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	47.596	.47082	.94643	46.059	.47452	.46725	.41299
SDev	.285	.00137	.00528	.361	.00754	.03382	.00016
%RSD	.59812	.29053	.55820	.78428	1.5898	7.2381	.03856

#1	47.380	.46892	.94643	45.754	.48374	.46009	.41318
#2	47.775	.47109	.93996	46.258	.46534	.44131	.41300
#3	47.328	.47110	.95290	45.755	.47531	.45093	.41279
#4	47.901	.47218	.94643	46.467	.47369	.51666	.41298

Errors	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High	60.000	.60000		60.000	.60000	.60000	.60000
Low	40.000	.40000		40.000	.40000	.40000	.40000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9290	9.5509	1.8599	.92084	.93311	1.8701	.47717
SDev	.0338	.0030	.0669	.00551	.00422	.1889	.00283
%RSD	1.7501	.03149	3.5988	.59884	.45234	10.100	.59311

#1	1.9341	9.5464	1.7963	.91571	.92902	1.9095	.47472
#2	1.8880	9.5525	1.8378	.92346	.93499	1.6421	.47945

#3	1.9700	9.5525	1.9539	.91685	.93028	2.0980	.47979
#4	1.9239	9.5524	1.8516	.92733	.93813	1.8308	.47472

Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High	2.4000					2.4000	.60000
Low	1.6000					1.6000	.40000

Elem	ZN
Units	ppm
Avge	.47132
SDev	.00651
%RSD	1.3816

#1	.47383
#2	.46375
#3	.46881
#4	.47889

Errors	LC Pass
High	.60000
Low	.40000

Method: QUANMET Sample Name: DXRF3

Operator: WTR

Run Time: 03/25/01 15:29:31

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00084	12.533	.20841	.75431	24.826	.00108	94.106
SDev	.00206	.115	.02844	.01859	.326	.00007	.436
%RSD	244.26	.92126	13.644	2.4641	1.3125	6.6282	.46279

#1	.00008	12.414	.21765	.74411	24.488	.00102	94.400
#2	.00019	12.454	.17190	.74718	24.611	.00114	94.487
#3	-.00392	12.638	.20422	.78210	25.151	.00102	94.002
#4	.00029	12.625	.23987	.74385	25.055	.00115	93.534

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.22935	5.0425	43.395	.65769	172.58	10.869	.09824
SDev	.00276	.0156	.071	.01068	.65	.309	.00181
%RSD	1.2015	.30996	.16431	1.6236	.37396	2.8404	1.8427

#1	.22837	5.0366	43.342	.64841	171.85	10.963	.09606
#2	.23035	5.0528	43.444	.64847	172.31	10.946	.09753
#3	.22611	5.0573	43.469	.66698	173.36	10.426	.09922
#4	.23257	5.0232	43.327	.66689	172.80	11.142	.10014

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	116.36	1.6622	.66155	36.265	.36328	H146.33	9.5250
SDev	.99	.0081	.00839	.628	.00915	.31	.0647
%RSD	.85379	.48445	1.2677	1.7329	2.5199	.21307	.67946

#1	115.27	1.6563	.65175	35.633	.37346	H146.05	9.6084
#2	115.77	1.6597	.67122	35.824	.36532	H146.51	9.5412
#3	117.30	1.6741	.66488	36.884	.36305	H146.67	9.4613
#4	117.10	1.6587	.65834	36.721	.35130	H146.08	9.4890

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.05122	H54.202	.27121	.67767	.66376	.31377	.09348
SDev	.02799	.304	.03549	.00814	.00438	.17303	.00034
%RSD	54.644	.56021	13.084	1.2012	.65937	55.147	.36892

#1	-.01631	H53.895	.27979	.66895	.65834	.24248	.09312
#2	-.06617	H54.014	.26573	.67260	.66211	.45539	.09383

680 858

#3	-.04237	H54.558	.31250	.68559	.66776	.45498	.09372
#4	-.08003	H54.343	.22684	.68353	.66682	.10224	.09326

Errors	LC Pass	LC High	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	79.212
SDev	.275
%RSD	.34663

#1	78.880
#2	79.103
#3	79.493
#4	79.370

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DXRF3P5

Operator: WTR

Run Time: 03/25/01 15:32:41

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00023	2.6879	.00818	.18379	5.2877	.00036	20.621
SDev	.00139	.0170	.03093	.00016	.0527	.00008	.138
%RSD	601.66	.63113	378.14	.08903	.99625	21.561	.67092
#1	.00157	2.6853	.03319	.18378	5.2326	.00025	20.800
#2	-.00132	2.6941	.02313	.18379	5.3300	.00038	20.466
#3	.00015	2.7063	.01293	.18400	5.3354	.00038	20.585
#4	-.00131	2.6660	-.03653	.18360	5.2527	.00044	20.633
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05018	1.1179	9.6460	.14614	38.698	2.2711	.02161
SDev	.00396	.0041	.0259	.00119	.079	.5064	.00026
%RSD	7.8894	.36666	.26829	.81317	.20320	22.298	1.1882
#1	.04615	1.1138	9.6728	.14614	38.685	2.3905	.02143
#2	.05532	1.1170	9.6107	.14530	38.695	1.5887	.02143
#3	.05101	1.1170	9.6519	.14782	38.801	2.2967	.02198
#4	.04826	1.1236	9.6485	.14530	38.610	2.8085	.02160
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	25.553	.36784	.15389	7.6928	.07398	32.471	2.0356
SDev	.159	.00127	.00324	.0999	.00280	.113	.0003
%RSD	.62180	.34506	2.1025	1.2986	3.7833	.34894	.01337
#1	25.394	.36893	.15550	7.5733	.07155	32.595	2.0352
#2	25.665	.36675	.14903	7.7584	.07271	32.322	2.0359
#3	25.712	.36896	.15552	7.7901	.07797	32.501	2.0355
#4	25.440	.36673	.15549	7.6492	.07371	32.464	2.0356
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.02967	11.712	.04501	.14514	.14335	.02639	.02054
SDev	.06167	.020	.01506	.00106	.00092	.08059	.00248
%RSD	207.88	.17164	33.457	.73294	.64489	305.41	12.081
#1	-.05535	11.724	.06575	.14409	.14335	-.02839	.01942
#2	.06264	11.718	.02980	.14592	.14366	.01858	.01912

#3	-.06524	11.724	.04364	.14618	.14429	.14273	.01937
#4	-.06072	11.682	.04086	.14436	.14209	-.02737	.02426

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	17.512
SDev	.041
%RSD	.23466

#1	17.574
#2	17.490
#3	17.496
#4	17.490

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DXRF3S

Operator: WTR

Run Time: 03/25/01 15:35:50

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61E1CP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04796	18.406	2.2325	1.7284	28.828	.04969	149.14
SDev	.00260	.086	.0503	.0078	.226	.00026	1.37
%RSD	5.4278	.46509	2.2522	.44923	.78226	.52461	.91563
#1	.04713	18.454	2.2913	1.7207	28.913	.04975	148.16
#2	.04707	18.292	2.1731	1.7340	28.616	.04938	148.80
#3	.04587	18.486	2.2502	1.7361	29.106	.05000	148.44
#4	.05176	18.391	2.2156	1.7228	28.677	.04961	151.15
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.29330	5.8553	46.049	.96408	163.59	64.268	1.1939
SDev	.00497	.0260	.263	.01051	.65	.702	.0167
%RSD	1.6950	.44446	.57216	1.0902	.39928	1.0925	1.4022
#1	.28758	5.8488	45.843	.96842	163.17	64.387	1.1984
#2	.29900	5.8327	45.923	.95667	162.91	63.585	1.1856
#3	.29119	5.8470	45.997	.97686	163.97	65.197	1.2152
#4	.29541	5.8929	46.432	.95437	164.29	63.901	1.1766
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	181.83	2.2305	1.6245	92.373	.85081	H157.19	11.356
SDev	.84	.0105	.0187	1.069	.01080	.88	.124
%RSD	.45945	.47046	1.1540	1.1573	1.2690	.55820	1.0939
#1	181.89	2.2225	1.6276	92.799	.85598	H156.48	11.308
#2	180.79	2.2225	1.6017	91.588	.83803	H156.50	11.281
#3	182.83	2.2325	1.6213	93.685	.86270	H157.47	11.294
#4	181.80	2.2446	1.6472	91.419	.84655	H158.31	11.542
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9003	H80.582	2.2094	1.7229	1.7098	1.8483	.58973
SDev	.1305	.235	.0635	.0115	.0084	.3155	.00338
%RSD	6.8700	.29165	2.8756	.66986	.48948	17.070	.57331
#1	1.7207	H80.788	2.1566	1.7272	1.7087	1.8469	.58815
#2	1.8943	H80.274	2.1703	1.7107	1.6987	1.5209	.58767

#3	1.9643	H80.740	2.2976	1.7368	1.7182	2.2747	.58832
#4	2.0217	H80.525	2.2130	1.7167	1.7138	1.7506	.59479

Errors	LC Pass	LC High	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	85.796
SDev	.315
%RSD	.36724

#1	85.505
#2	85.566
#3	85.944
#4	86.168

Errors	LC Pass
High	100.00
Low	-.02000

Analysis Report

680 863

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Method: QUANMET Sample Name: CCV2-2

Operator: WTR

Run Time: 03/25/01 15:38:59

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0046	51.176	5.2012	5.0988	5.0996	5.0165	49.565
SDev	.0027	.068	.1032	.0291	.0202	.0092	.373
%RSD	.27084	.13355	1.9850	.56999	.39551	.18422	.75323
#1	1.0076	51.245	5.0582	5.1141	5.0918	5.0256	49.843
#2	1.0062	51.086	5.2690	5.0941	5.0761	5.0074	49.930
#3	1.0031	51.167	5.2841	5.0602	5.1073	5.0098	49.219
#4	1.0017	51.207	5.1936	5.1269	5.1230	5.0232	49.268
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	55.000	5.5000	5.5000	5.5000	5.5000	55.000
Low	.90000	45.000	4.5000	4.5000	4.5000	4.5000	45.000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.9902	4.9530	4.9348	5.1334	51.944	51.432	5.2555
SDev	.0296	.0290	.0200	.0229	.110	.451	.0414
%RSD	.59372	.58509	.40522	.44586	.21119	.87785	.78745
#1	5.0149	4.9785	4.9559	5.1211	52.017	51.072	5.2317
#2	5.0152	4.9753	4.9480	5.1094	52.049	51.805	5.2098
#3	4.9563	4.9185	4.9180	5.1419	51.810	51.012	5.2848
#4	4.9745	4.9396	4.9175	5.1612	51.902	51.839	5.2958
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.5000	5.5000	5.5000	5.5000	55.000	55.000	5.5000
Low	4.5000	4.5000	4.5000	4.5000	45.000	45.000	4.5000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	51.540	4.9566	5.0278	51.617	4.9734	5.0721	5.1011
SDev	.056	.0189	.0193	.275	.0277	.0381	.0230
%RSD	.10916	.38101	.38452	.53321	.55627	.75153	.44994
#1	51.545	4.9732	5.0230	51.418	4.9387	5.0540	5.0907
#2	51.501	4.9721	5.0553	51.355	4.9724	5.1293	5.1042
#3	51.498	4.9362	5.0100	51.767	4.9762	5.0523	5.0780
#4	51.618	4.9449	5.0230	51.928	5.0063	5.0529	5.1316
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	5.5000	5.5000	55.000	5.5000	5.5000	5.5000
Low	45.000	4.5000	4.5000	45.000	4.5000	4.5000	4.5000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.1267	5.2547	4.8980	5.0612	5.0126	9.9516	4.9873
SDev	.1295	.0001	.0893	.0106	.0076	.0634	.0136
%RSD	2.5252	.00282	1.8232	.20906	.15220	.63719	.27308
#1	5.0026	5.2548	4.9560	5.0609	5.0213	9.9857	4.9967
#2	5.2489	5.2549	4.9644	5.0487	5.0141	9.9537	4.9999

#3	5.2276	5.2545	4.9007	5.0603	5.0028	10.005	4.9705
#4	5.0279	5.2547	4.7709	5.0746	5.0122	9.8620	4.9819

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.5000	5.5000	5.5000	5.5000	5.5000	11.000	5.5000
Low	4.5000	4.5000	4.5000	4.5000	4.5000	9.0000	4.5000

Elem	ZN
Units	ppm
Avge	5.0164
SDev	.0127
%RSD	.25305

#1	5.0209
#2	5.0239
#3	5.0233
#4	4.9974

Errors	LC Pass
High	5.5000
Low	4.5000

Method: QUANMET Sample Name: CCB2

Operator: WTR

Run Time: 03/25/01 15:42:09

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00184	.02869	-.04528	.00942	.00829	.00404	.05817
SDev	.00398	.02641	.02965	.01861	.00090	.00044	.01295
%RSD	216.14	92.054	65.469	197.56	10.814	10.788	22.263

#1	.00582	.05840	-.07795	.03734	.00938	.00467	.07583
#2	.00439	.03743	-.02292	.00012	.00849	.00391	.05697
#3	.00002	.02353	-.06268	.00013	.00805	.00392	.05515
#4	-.00285	-.00458	-.01758	.00010	.00723	.00366	.04472

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.30000	.20000	.20000	.00500	5.0000
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00260	.00690	H.01074	.00378	.06824	-.00853	.00499
SDev	.00287	.00282	.00217	.00068	.00945	.18823	.00119
%RSD	110.52	40.871	20.168	18.109	13.846	2206.6	23.912

#1	H.00566	.00933	H.01357	.00462	.08064	.09596	.00570
#2	-.00006	.00772	.00904	.00294	.06771	.01066	.00625
#3	.00443	.00282	.00904	.00377	.06698	-.27936	.00440
#4	.00037	.00772	H.01130	.00378	.05764	.13861	.00363

Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.05000	.01000	.02500	.10000	5.0000	.05000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05685	.00437	.01457	.05951	-.00008	.00251	-.00679
SDev	.01323	.00089	.00528	.01818	.00451	.02805	.01867
%RSD	23.279	20.371	36.271	30.539	5656.0	1116.8	274.84

#1	.07603	.00546	.02104	.08158	-.00397	-.00450	-.00694
#2	.05137	.00437	.01457	.06416	.00099	-.00451	.00643
#3	.05411	.00437	.00810	.05409	-.00319	.04242	.00648
#4	.04589	.00328	.01457	.03822	.00585	-.02337	-.03315

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	.01500	.04000	5.0000	.04000	.10000	.06000
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01304	.02545	.00688	.00420	.00416	.01853	.00345
SDev	.02330	.01144	.03683	.00036	.00144	.04150	.00212
%RSD	178.75	44.964	535.63	8.5782	34.517	223.91	61.536

#1	.00795	.03440	.02830	.00463	.00581	.07337	.00178
#2	-.01774	.03444	.04218	.00413	.00455	-.00506	.00528

#3	.02842	.02244	-.00205	.00427	.00393	-.02070	.00145
#4	.03352	.01052	-.04092	.00376	.00236	.02653	.00529

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.25000	.50000	.10000	.05000	.05000	.30000	.05000
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-.30000	-.05000

Elem ZN
Units ppm
Avge .01797
SDev .00222
%RSD 12.333

#1 H.02085
#2 .01579
#3 .01847
#4 .01677

Errors LC Pass
High .02000
Low -.02000

Method: QUANMET Sample Name: DXRF3D

Operator: WTR

Run Time: 03/25/01 15:45:23

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04384	15.757	1.9518	1.5705	24.831	.04454	138.31
SDev	.00368	.084	.0631	.0272	.252	.00023	.73
%RSD	8.3969	.53057	3.2306	1.7329	1.0149	.51100	.52974

#1	.04801	15.633	1.9299	1.5552	24.460	.04421	138.61
#2	.04240	15.792	1.9378	1.5412	24.990	.04469	137.59
#3	.03953	15.782	2.0426	1.6010	24.990	.04457	137.86
#4	.04545	15.819	1.8969	1.5847	24.882	.04469	139.20

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.27801	5.4319	41.855	.85045	137.15	57.096	1.0448
SDev	.00553	.0166	.162	.00999	.54	.564	.0180
%RSD	1.9886	.30535	.38759	1.1741	.39591	.98839	1.7195

#1	.27653	5.4208	41.821	.83636	136.46	56.403	1.0207
#2	.27916	5.4221	41.747	.85900	137.11	57.716	1.0608
#3	.27154	5.4286	41.758	.85568	137.23	56.923	1.0559
#4	.28482	5.4563	42.093	.85075	137.79	57.341	1.0417

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	160.30	2.0042	1.4641	82.674	.74334	H144.86	9.7440
SDev	1.03	.0084	.0134	1.080	.01401	.47	.1230
%RSD	.64554	.41688	.91467	1.3057	1.8850	.32739	1.2623

#1	158.75	2.0013	1.4494	81.141	.74209	H144.41	9.6583
#2	160.80	1.9961	1.4754	83.466	.73573	H144.65	9.6188
#3	160.70	2.0037	1.4560	83.394	.73211	H144.88	9.8574
#4	160.93	2.0158	1.4755	82.694	.76342	H145.51	9.8415

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.7479	H69.375	1.9826	1.5406	1.4955	1.6705	.53033
SDev	.1156	.280	.0497	.0135	.0087	.1262	.00279
%RSD	6.6134	.40346	2.5048	.87721	.58442	7.5517	.52524

#1	1.8932	H68.961	1.9124	1.5205	1.4826	1.6970	.52622
#2	1.6337	H69.493	1.9924	1.5483	1.4983	1.8284	.53161

#3	1.6802	H69.469	1.9962	1.5490	1.4990	1.5277	.53115
#4	1.7845	H69.577	2.0294	1.5444	1.5021	1.6291	.53235

Errors	LC Pass	LC High	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem ZN
Units ppm
Avge 79.677
SDev .300
%RSD .37631

#1 79.325
#2 79.578
#3 79.773
#4 80.033

Errors LC Pass
High 100.00
Low -.02000

Method: QUANMET Sample Name: DXRF8

Operator: WTR

Run Time: 03/25/01 15:51:00

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00132	19.397	.02085	.37107	3.6131	.00173	98.471
SDev	.00345	.090	.02657	.02220	.0360	.00006	.836
%RSD	261.83	.46299	127.40	5.9820	.99646	3.7838	.84906
#1	-.00427	19.499	.00284	.40067	3.6630	.00170	97.341
#2	.00164	19.335	-.00636	.36799	3.5829	.00168	99.263
#3	-.00434	19.310	.03964	.34683	3.5912	.00170	98.381
#4	.00170	19.445	.04729	.36879	3.6154	.00182	98.899
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.63306	2.7436	10.143	.39917	229.42	5.7535	.10036
SDev	.00514	.0112	.050	.00297	.50	.3430	.00085
%RSD	.81251	.40650	.48818	.74373	.21689	5.9616	.84837
#1	.62753	2.7309	10.077	.40164	229.19	5.4017	.10068
#2	.63036	2.7473	10.186	.39502	229.61	5.6490	.09922
#3	.63528	2.7392	10.133	.39911	228.87	6.2205	.10030
#4	.63910	2.7570	10.175	.40092	230.02	5.7429	.10123
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	25.153	2.2158	.06724	92.249	.12798	44.829	.53441
SDev	.124	.0078	.00371	1.306	.01302	.229	.01346
%RSD	.49397	.35025	5.5154	1.4162	10.170	.51186	2.5193
#1	25.295	2.2103	.06398	94.059	.10922	44.539	.54133
#2	25.051	2.2212	.07050	91.027	.13474	44.907	.51422
#3	25.046	2.2080	.07041	91.656	.13838	44.784	.54137
#4	25.218	2.2235	.06409	92.252	.12956	45.086	.54070
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.05206	H25.831	.08421	.58034	7.9163	.19259	.11733
SDev	.07034	.122	.05552	.00461	.0323	.11501	.00257
%RSD	135.11	.47109	65.929	.79427	.40803	59.716	2.1874
#1	-.13870	H25.919	.08063	.58659	7.9511	.03903	.11588
#2	.03187	H25.776	.10843	.57610	7.8946	.23685	.12118

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#3	-.06277	H25.686	.00895	.57779	7.8836	.31115	.11616
#4	-.03866	H25.943	.13885	.58089	7.9357	.18334	.11609

Errors	LC Pass	LC High	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	45.214
SDev	.148
%RSD	.32718

#1	45.074
#2	45.283
#3	45.111
#4	45.389

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DXT6MB

Operator: WTR

Run Time: 03/25/01 15:54:10

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	- .00214	- .00658	- .05128	.00030	.00252	.00003	.07338
SDev	.00083	.01368	.04480	.00007	.00060	.00006	.01490
%RSD	38.904	207.76	87.365	22.722	24.011	204.47	20.301
#1	- .00141	.01311	- .01773	.00029	.00225	- .00006	.07117
#2	- .00284	- .01141	- .00763	.00040	.00341	.00006	.09370
#3	- .00142	- .00955	- .08741	.00026	.00233	.00006	.07080
#4	- .00287	- .01849	- .09232	.00025	.00207	.00006	.05785
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.30000	.20000	.20000	.00500	5.0000
Low	- .01000	- .20000	- .30000	- .20000	- .20000	- .00500	- 5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00109	.00080	.00622	.00044	H.15048	- .01280	.00064
SDev	.00363	.00277	.00284	.00068	.03453	.16634	.00039
%RSD	333.72	345.87	45.733	157.22	22.949	1300.0	60.579
#1	.00366	- .00043	.00678	- .00040	H.14527	- .15994	.00108
#2	- .00283	.00122	.00904	.00044	H.19986	- .08317	.00031
#3	.00465	.00445	.00678	.00127	H.13665	.22391	.00086
#4	- .00113	- .00204	.00226	.00043	H.12013	- .03199	.00031
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass
High	.00500	.05000	.01000	.02500	.10000	5.0000	.05000
Low	- .00500	- .05000	- .01000	- .02500	- .10000	- 5.0000	- .05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01096	.00167	.00164	.06348	.00083	- .00709	- .00665
SDev	.00345	.00063	.00528	.01605	.00421	.02703	.00008
%RSD	31.458	37.947	322.61	25.275	507.37	381.32	1.2045
#1	.00753	.00221	.00164	.05680	.00663	- .02361	- .00659
#2	.01027	.00223	.00164	.08622	.00060	.03292	- .00672
#3	.01575	.00112	- .00483	.06183	- .00056	- .02345	- .00658
#4	.01027	.00112	.00810	.04906	- .00335	- .01422	- .00673
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	.01500	.04000	5.0000	.04000	.10000	.06000
Low	- 5.0000	- .01500	- .04000	- 5.0000	- .04000	- .10000	- .06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	- .01235	.03438	- .01731	.00001	.00432	.07235	.00036
SDev	.01785	.00001	.01869	.00007	.00094	.06912	.00063
%RSD	144.56	.02034	107.96	666.68	21.717	95.530	174.67
#1	- .00724	.03438	- .02699	- .00002	.00455	.04100	.00006
#2	.00319	.03439	.00343	- .00002	.00550	.10303	.00128

#3	-.00726	.03438	-.03804	-.00002	.00393	-.00608	-.00011
#4	-.03809	.03438	-.00763	.00011	.00330	.15146	.00021

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.25000	.50000	.10000	.05000	.05000	.30000	.05000
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-.30000	-.05000

Elem ZN
Units ppm
Avge H.03030
SDev .00834
%RSD 27.507

#1 H.02996
#2 H.04210
#3 H.02591
#4 H.02324

Errors LC High
High .02000
Low -.02000

Method: QUANMET Sample Name: DXT6MC

Operator: WTR

Run Time: 03/25/01 15:57:20

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04998	1.9508	1.9774	.99746	1.9611	.04959	L.00874
SDev	.00250	.0069	.0320	.01728	.0157	.00025	.00650
%RSD	5.0109	.35374	1.6174	1.7321	.80056	.50736	74.321

#1	.05360	1.9487	1.9737	1.0018	1.9438	.04931	L.01767
#2	.04925	1.9452	2.0237	.97197	1.9520	.04943	L.00892
#3	.04781	1.9609	1.9586	1.0070	1.9765	.04980	L.00584
#4	.04928	1.9485	1.9537	1.0092	1.9720	.04979	L.00254

Errors	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass	LC Low
High	.06000	2.4000	2.4000		2.4000	.06000	60.000
Low	.04000	1.6000	1.6000		1.6000	.04000	40.000

Elem	CD	CO	CR	CU	FE	K	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05758	.50549	.20214	.24972	1.0911	L-.11942	.96312
SDev	.00229	.00204	.00218	.00108	.0083	.22744	.01068
%RSD	3.9700	.40353	1.0792	.43239	.76215	190.45	1.1089

#1	.05615	.50266	.20144	.24847	1.1026	L.10449	.95254
#2	H.06003	.50590	.20539	.24930	1.0911	L-.16847	.95532
#3	.05518	.50752	.20087	.25014	1.0875	L-.41584	.97189
#4	.05896	.50589	.20087	.25097	1.0832	L.00213	.97273

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	NOCHECK
High	.06000	.60000	.24000	.30000	1.2000	60.000	
Low	.04000	.40000	.16000	.20000	.80000	40.000	

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L-.00822	.50452	.00176	L.01355	.50848	.49573	L.00051
SDev	.00787	.00089	.00528	.00739	.00881	.03632	.00011
%RSD	95.743	.17553	300.07	54.530	1.7332	7.3263	21.796

#1	L-.00342	.50343	.00176	L.02390	.51770	.51683	L.00064
#2	L-.00616	.50451	-.00471	L.01113	.50819	.50752	L.00047
#3	L-.01986	.50560	.00176	L.00648	.51136	.44166	L.00054
#4	L-.00342	.50452	.00823	L.01268	.49667	.51693	L.00038

Errors	LC Low	LC Pass	NOCHECK	LC Low	LC Pass	LC Pass	LC Low
High	60.000	.60000		60.000	.60000	.60000	.60000
Low	40.000	.40000		40.000	.40000	.40000	.40000

Elem	SE	SI	SN	SR	TI	TL	V
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0229	.02329	-.02545	.96674	.00047	2.0806	.49162
SDev	.0582	.00895	.02319	.00625	.00068	.1315	.00243
%RSD	2.8776	38.419	91.128	.64659	144.02	6.3224	.49439

#1	1.9653	.03374	-.05725	.95992	.00141	2.0175	.49009
#2	1.9806	.02776	-.00194	.96311	.00047	2.2692	.48994

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#3	2.0678	.01582	-.01853	.97313	.00016	2.0649	.49131
#4	2.0780	.01586	-.02406	.97081	-.00016	1.9706	.49515
Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High	2.4000					2.4000	.60000
Low	1.6000					1.6000	.40000
Elem	ZN						
Units	ppm						
Avge	.51449						
SDev	.00670						
%RSD	1.3018						
#1	.51801						
#2	.51903						
#3	.51634						
#4	.50458						
Errors	LC Pass						
High	.60000						
Low	.40000						

Method: QUANMET Sample Name: DXL8W

Operator: WTR

Run Time: 03/25/01 16:00:29

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00172	.14379	-.05269	.09360	.02366	.00007	34.540
SDev	.00072	.00820	.03034	.01726	.00055	.00007	.355
%RSD	41.627	5.7057	57.589	18.444	2.3048	94.812	1.0281

#1	-.00137	.14964	-.01900	.08601	.02427	.00005	34.061
#2	-.00136	.15118	-.06395	.11947	.02390	.00017	34.483
#3	-.00135	.14071	-.08888	.08445	.02346	.00003	34.842
#4	-.00279	.13361	-.03892	.08445	.02301	.00003	34.773

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00084	.00324	.00904	-.00039	.21690	68.181	.00615
SDev	.00194	.00384	.00320	.00153	.00237	1.335	.00048
%RSD	231.85	118.81	35.375	390.92	1.0946	1.9579	7.8615

#1	-.00010	-.00205	.00452	-.00207	.21995	68.029	.00625
#2	-.00131	.00609	.00904	.00128	.21708	69.932	.00679
#3	.00311	.00608	.01130	.00045	.21636	68.081	.00587
#4	.00164	.00283	.01130	-.00123	.21420	66.682	.00570

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	11.788	.01853	.00812	14.291	-.00393	-.00949	-.00671
SDev	.150	.00000	.00915	.326	.00441	.03481	.00014
%RSD	1.2734	.01294	112.74	2.2788	112.25	366.97	2.1128

#1	11.799	.01853	-.00482	14.521	-.00172	-.03318	-.00653
#2	11.986	.01853	.01459	14.611	-.01054	-.02353	-.00685
#3	11.739	.01853	.00812	14.094	-.00172	-.02352	-.00668
#4	11.627	.01853	.01459	13.939	-.00172	.04228	-.00678

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00453	3.2229	-.02005	.15603	.00086	.06741	.00787
SDev	.04670	.0451	.02948	.00228	.00040	.07418	.00267
%RSD	1031.4	1.3998	147.02	1.4580	45.757	110.04	33.889

#1	-.00700	3.1914	-.06015	.15750	.00141	.13425	.00478
#2	.00838	3.2453	.00345	.15841	.00079	-.03873	.00651

#3	.06479	3.2752	-.02420	.15457	.00079	.08703	.01002
#4	-.04805	3.1795	.00069	.15366	.00047	.08709	.01018

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.00408
SDev	.00219
%RSD	53.794

#1	.00330
#2	.00570
#3	.00599
#4	.00133

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DXL8WP5 Operator: WTR
 Run Time: 03/25/01 16:03:39
 Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00003	.01614	-.08260	.04659	.00474	.00014	7.1695
SDev	.00205	.01160	.04662	.00373	.00032	.00006	.0394
%RSD	6670.9	71.875	56.445	8.0069	6.6757	39.719	.54940
#1	.00149	.02356	-.10763	.04473	.00474	.00017	7.2249
#2	.00002	.02360	-.10758	.05218	.00519	.00006	7.1602
#3	.00149	.01825	-.01276	.04471	.00456	.00017	7.1316
#4	-.00287	-.00085	-.10242	.04472	.00448	.00018	7.1614
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00038	.00366	.00169	.00105	.04650	13.697	.00193
SDev	.00124	.00281	.00113	.00126	.00313	.320	.00018
%RSD	323.82	76.937	66.811	119.18	6.7329	2.3382	9.5872
#1	-.00053	.00285	.00226	.00210	.04543	14.068	.00216
#2	-.00055	.00122	.00226	-.00041	.05117	13.343	.00200
#3	.00208	.00772	.00226	.00210	.04471	13.838	.00178
#4	.00053	.00284	-.00000	.00043	.04471	13.539	.00178
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.3884	.00436	.00162	2.8453	-.00139	-.01640	-.00663
SDev	.0059	.00000	.00528	.0194	.00768	.00463	.00012
%RSD	.24781	.03711	325.37	.68265	550.98	28.216	1.8218
#1	2.3856	.00436	.00162	2.8309	-.00072	-.01408	-.00664
#2	2.3829	.00436	.00162	2.8507	-.01216	-.01413	-.00679
#3	2.3966	.00436	.00809	2.8290	.00145	-.02334	-.00656
#4	2.3884	.00436	-.00485	2.8704	.00586	-.01406	-.00652
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02194	.63234	-.00348	.03188	-.00000	-.02434	.00372
SDev	.04298	.00490	.02395	.00000	.00054	.09019	.00177
%RSD	195.88	.77464	688.41	.00000	2492e6	370.58	47.738
#1	-.01781	.63235	.00343	.03188	.00047	-.02039	.00494
#2	-.00240	.62633	.01726	.03188	.00016	.08961	.00127

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#3	.02835	.63833	-.03804	.03188	.00016	-.13048	.00511
#4	.07964	.63234	.00344	.03188	-.00079	-.03609	.00355
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem ZN
Units ppm
Avge .00195
SDev .00170
%RSD 87.097

#1 -.00009
#2 .00402
#3 .00159
#4 .00228

Errors LC Pass
High 100.00
Low -.02000

/

Analysis Report

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Method: QUANMET Sample Name: DXL8WS

Operator: WTR

Run Time: 03/25/01 16:06:49

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05045	2.1323	1.9631	1.0830	1.9605	.04983	35.112
SDev	.00139	.0032	.0048	.0190	.0073	.00021	.199
%RSD	2.7616	.15039	.24539	1.7578	.37427	.42523	.56610
#1	.04934	2.1288	1.9669	1.0727	1.9505	.04965	34.965
#2	.04937	2.1305	1.9618	1.1115	1.9607	.04976	35.069
#3	.05082	2.1340	1.9668	1.0750	1.9678	.05014	35.404
#4	.05227	2.1358	1.9568	1.0728	1.9631	.04976	35.012
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05640	.51241	.21118	.24745	1.2739	67.153	.96396
SDev	.00324	.00132	.00116	.00300	.0046	.424	.00265
%RSD	5.7521	.25842	.55076	1.2144	.36098	.63210	.27543
#1	.05359	.51242	.20991	.24348	1.2671	66.554	.96024
#2	.05737	.51078	.21216	.24933	1.2771	67.373	.96525
#3	.05407	.51241	.21047	.24682	1.2757	67.168	.96402
#4	.06056	.51402	.21216	.25017	1.2757	67.518	.96634
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	11.625	.52385	.00340	14.006	.52523	.48630	-.03251
SDev	.047	.00272	.00324	.053	.01909	.02220	.06610
%RSD	.40474	.51866	95.080	.37711	3.6348	4.5656	203.35
#1	11.569	.52086	.00825	13.934	.51778	.46988	.00059
#2	11.643	.52304	.00178	13.996	.50981	.51690	.00053
#3	11.679	.52738	.00178	14.046	.55308	.48850	L-.13165
#4	11.608	.52412	.00178	14.046	.52026	.46992	.00051
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9453	3.2283	-.01658	1.1133	.00079	2.0345	.50362
SDev	.0986	.0030	.03569	.0042	.00026	.0519	.00237
%RSD	5.0710	.09287	215.29	.37673	32.660	2.5513	.47025
#1	2.0683	3.2267	-.04893	1.1079	.00079	1.9835	.50006
#2	1.9812	3.2268	-.03787	1.1128	.00047	1.9990	.50480

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#3	1.8735	3.2328	-.01077	1.1179	.00079	2.0934	.50480
#4	1.8581	3.2268	.03125	1.1147	.00110	2.0619	.50480
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.51649
SDev	.00797
%RSD	1.5441

#1	.50554
#2	.52175
#3	.52302
#4	.51566

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DXL8WD

Operator: WTR

Run Time: 03/25/01 16:09:59

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05042	2.1293	1.9682	1.0955	1.9631	.04969	34.676
SDev	.00324	.0427	.0617	.0253	.0415	.00076	.146
%RSD	6.4230	2.0035	3.1360	2.3138	2.1158	1.5308	.42135
#1	.04787	2.0867	1.8875	1.0728	1.9072	.04867	34.797
#2	.04932	2.1255	2.0369	1.0743	1.9752	.04979	34.565
#3	.05517	2.1882	1.9664	1.1174	2.0068	.05051	34.535
#4	.04932	2.1166	1.9821	1.1174	1.9631	.04979	34.806
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05577	.50549	.20821	.24723	1.2755	67.795	.97468
SDev	.00237	.00242	.00386	.00789	.0103	1.393	.03002
%RSD	4.2428	.47800	1.8539	3.1909	.80613	2.0544	3.0803
#1	.05617	.50431	.20765	.23594	1.2606	66.059	.93588
#2	.05460	.50427	.20313	.24932	1.2807	67.936	.98114
#3	.05890	.50912	.20991	.25434	1.2836	69.462	1.0087
#4	.05343	.50428	.21217	.24932	1.2771	67.722	.97303
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	11.724	.51815	.00502	14.167	.50621	.48374	-.03273
SDev	.186	.00288	.00835	.376	.01632	.03879	.06626
%RSD	1.5845	.55504	166.39	2.6566	3.2240	8.0191	202.47
#1	11.490	.51434	.01472	13.672	.51441	.51653	L-.13211
#2	11.755	.51760	-.00469	14.250	.50486	.44140	.00053
#3	11.942	.52087	.00826	14.584	.52157	.51681	.00052
#4	11.709	.51978	.00178	14.164	.48398	.46024	.00016
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9850	3.2372	-.01450	1.1135	.00071	2.1092	.49753
SDev	.0219	.0421	.01908	.0203	.00054	.0714	.00496
%RSD	1.1023	1.3020	131.52	1.8269	75.903	3.3842	.99639
#1	2.0170	3.1908	-.02736	1.0861	.00016	2.0308	.49533
#2	1.9812	3.2386	-.03234	1.1191	.00047	2.2035	.49483

#3	1.9710	3.2925	.00913	1.1349	.00141	2.0933	.50496
#4	1.9709	3.2267	-.00746	1.1138	.00079	2.1092	.49501

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem ZN
Units ppm
Avge .51129
SDev .00772
%RSD 1.5094

#1 .50726
#2 .50315
#3 .52070
#4 .51405

Errors LC Pass
High 100.00
Low -.02000

Method: QUANMET Sample Name: DXL81

Operator: WTR

Run Time: 03/25/01 16:13:09

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00413	.29649	-.02576	.09443	.01303	.00254	369.89
SDev	.00244	.02190	.05663	.01892	.00045	.00011	3.91
%RSD	59.020	7.3876	219.89	20.039	3.4497	4.3362	1.0561
#1	-.00248	.28164	-.04313	.09416	.01365	.00246	371.97
#2	-.00255	.32008	-.08293	.11722	.01295	.00259	371.78
#3	-.00381	.30978	-.02893	.09546	.01295	.00245	371.79
#4	-.00766	.27445	.05197	.07090	.01258	.00268	364.03
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00356	.52238	.00184	.00960	318.03	15.896	.18911
SDev	.00205	.00308	.00241	.00113	2.49	.517	.00088
%RSD	57.673	.58890	131.26	11.789	.78434	3.2501	.46382
#1	-.00241	.52035	.00000	.00973	319.25	15.962	.18827
#2	-.00352	.52198	.00227	.00969	318.86	15.501	.18903
#3	-.00184	.52685	-.00000	.00811	319.69	15.518	.19033
#4	L-.00645	.52036	.00509	.01087	314.32	16.602	.18881
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	163.74	72.239	-.00204	119.79	.12576	-.02339	.06634
SDev	.73	.635	.00896	.45	.02448	.02255	.07307
%RSD	.44767	.87871	440.30	.37746	19.465	96.411	110.14
#1	163.85	72.586	-.00188	119.89	.10792	-.01435	.12921
#2	163.85	72.465	.00454	119.27	.16043	-.04243	.12967
#3	164.51	72.612	-.01476	120.35	.10911	.00432	.00986
#4	162.74	71.292	.00395	119.64	.12558	-.04109	-.00339
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L-.25183	8.4231	-.05405	.33276	-.02175	.32749	-.00617
SDev	.05001	.0627	.05742	.00150	.00065	.10922	.00469
%RSD	19.857	.74412	106.24	.45020	2.9770	33.352	76.044
#1	L-.31723	8.4111	-.09650	.33341	-.02214	.25551	-.00984
#2	-.21076	8.4649	L-.11037	.33249	-.02120	.21372	-.00967

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#3	L-.26457	8.4769	-.00018	.33432	-.02120	.40600	-.00527
#4	-.21476	8.3394	-.00915	.33080	-.02245	.43472	.00011

Errors	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.02780
SDev	.00338
%RSD	12.177

#1	.03070
#2	.02649
#3	.03039
#4	.02361

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DXCMEB Operator: WTR
 Run Time: 03/25/01 16:16:18
 Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00038	-.01191	-.03740	.00006	-.00011	.00003	.02815
SDev	.00138	.00736	.03534	.00002	.00023	.00006	.00736
%RSD	366.60	61.777	94.480	28.602	209.02	218.76	26.153

#1	.00148	-.00969	-.05742	.00008	-.00016	.00005	.03569
#2	.00000	-.01147	.00756	.00007	-.00042	-.00006	.03141
#3	-.00142	-.02200	-.02737	.00004	.00010	.00005	.02703
#4	.00145	-.00446	-.07237	.00004	.00003	.00006	.01846

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.30000	.20000	.20000	.00500	5.0000
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00011	.00163	-.00071	.00000	.03088	.25377	.00087
SDev	.00238	.00361	.00324	.00048	.00516	.39303	.00026
%RSD	2125.6	221.52	459.63	9841.5	16.702	154.88	29.481

#1	.00128	-.00041	.00169	.00042	.03752	.51394	.00086
#2	-.00296	-.00203	-.00452	-.00042	.03178	-.20259	.00069
#3	-.00110	.00611	-.00226	.00043	.02891	.64189	.00124
#4	.00234	.00284	.00226	-.00041	.02532	.06184	.00069

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.05000	.01000	.02500	.10000	5.0000	.05000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00548	.00707	.00647	.01587	-.00288	.00473	-.00998
SDev	.00905	.00140	.00324	.00229	.00658	.03341	.00669
%RSD	165.20	19.835	49.960	14.412	228.01	705.57	67.080

#1	.01849	.00871	.00162	.01732	-.00729	.02351	-.00665
#2	-.00068	.00762	.00809	.01577	-.00095	.04228	-.00666
#3	.00479	.00544	.00809	.01771	.00555	-.02336	-.00657
#4	-.00068	.00653	.00809	.01268	-.00884	-.02349	-.02002

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	.01500	.04000	5.0000	.04000	.10000	.06000
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00631	-.03436	-.00695	.00033	-.00031	.02705	.00169
SDev	.03779	.03107	.01380	.00012	.00018	.12182	.00248
%RSD	598.44	90.407	198.56	36.867	57.735	450.39	146.60

#1	.03346	-.06125	-.02698	.00043	-.00047	-.11454	.00372
#2	-.04350	-.00749	.00067	.00020	-.00016	.16859	-.00103

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#3	.01804	-.00743	.00343	.00024	-.00047	.07418	.00387
#4	-.03326	-.06129	-.00492	.00043	-.00016	-.02004	.00021

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.25000	.50000	.10000	.05000	.05000	.30000	.05000
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-.30000	-.05000

Elem	ZN
Units	ppm
Avge	.00118
SDev	.00133
%RSD	112.84

#1	-.00076
#2	.00228
#3	.00158
#4	.00162

Errors	LC Pass
High	.02000
Low	-.02000

Method: QUANMET Sample Name: CCV2-3

Operator: WTR

Run Time: 03/25/01 16:19:28

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.99759	49.772	5.0560	4.9607	4.8973	4.8855	50.070
SDev	.00190	.319	.0460	.0341	.0476	.0310	.211
%RSD	.19029	.64022	.90936	.68706	.97141	.63354	.42120

#1	.99982	49.869	5.1062	4.9620	4.9111	4.8961	50.108
#2	.99535	49.413	5.0205	4.9197	4.8464	4.8518	50.311
#3	.99823	49.647	5.0136	4.9580	4.8750	4.8709	50.062
#4	.99697	50.160	5.0837	5.0030	4.9566	4.9231	49.798

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	55.000	5.5000	5.5000	5.5000	5.5000	55.000
Low	.90000	45.000	4.5000	4.5000	4.5000	4.5000	45.000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.0394	4.9279	4.9252	4.9126	51.221	49.698	4.9468
SDev	.0139	.0081	.0130	.0479	.107	.417	.0758
%RSD	.27506	.16455	.26402	.97485	.20932	.83863	1.5325

#1	5.0288	4.9365	4.9276	4.9279	51.278	49.357	4.9584
#2	5.0574	4.9170	4.9423	4.8585	51.111	49.528	4.8631
#3	5.0430	4.9284	4.9186	4.8936	51.152	49.604	4.9217
#4	5.0282	4.9299	4.9124	4.9705	51.341	50.304	5.0441

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.5000	5.5000	5.5000	5.5000	55.000	55.000	5.5000
Low	4.5000	4.5000	4.5000	4.5000	45.000	45.000	4.5000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	50.034	4.9045	4.9679	49.180	4.9588	4.9901	5.0416
SDev	.319	.0062	.0154	.623	.0270	.0445	.0271
%RSD	.63798	.12686	.30996	1.2674	.54512	.89189	.53706

#1	50.090	4.9100	4.9582	49.258	4.9439	5.0538	5.0382
#2	49.679	4.9045	4.9582	48.517	4.9421	4.9500	5.0381
#3	49.928	4.8958	4.9905	48.950	4.9502	4.9785	5.0778
#4	50.440	4.9078	4.9647	49.997	4.9990	4.9780	5.0122

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	5.5000	5.5000	55.000	5.5000	5.5000	5.5000
Low	45.000	4.5000	4.5000	45.000	4.5000	4.5000	4.5000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.9334	5.0925	4.9153	4.8904	4.9010	9.8453	4.9193
SDev	.0556	.0230	.0428	.0414	.0246	.0589	.0128
%RSD	1.1270	.45189	.87032	.84727	.50295	.59783	.26017

#1	4.8515	5.1225	4.9257	4.9037	4.9098	9.8404	4.9276
#2	4.9484	5.0745	4.8539	4.8469	4.8766	9.8904	4.9105

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#3	4.9742	5.0745	4.9287	4.8692	4.8863	9.7639	4.9064
#4	4.9594	5.0987	4.9531	4.9417	4.9315	9.8866	4.9327

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.5000	5.5000	5.5000	5.5000	5.5000	11.000	5.5000
Low	4.5000	4.5000	4.5000	4.5000	4.5000	9.0000	4.5000

Elem	ZN
Units	ppm
Avge	4.9483
SDev	.0096
%RSD	.19437

#1	4.9596
#2	4.9370
#3	4.9449
#4	4.9515

Errors	LC Pass
High	5.5000
Low	4.5000

Method: QUANMET Sample Name: CCB3

Operator: WTR

Run Time: 03/25/01 16:22:37

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00108	-.00190	-.05243	.00842	.00151	.00159	.02539
SDev	.00321	.02959	.03322	.01674	.00153	.00115	.02167
%RSD	298.56	1557.3	63.360	198.73	101.14	72.323	85.359
#1	-.00434	-.03431	-.06713	.00003	.00003	.00069	.00147
#2	.00001	-.00446	-.09232	.00003	.00081	.00081	.02004
#3	-.00288	-.00632	-.02246	.03353	.00162	.00168	.02624
#4	.00291	.03748	-.02782	.00010	.00359	.00318	.05380
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.30000	.20000	.20000	.00500	5.0000
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00160	.00325	.00170	.00105	.03017	.20899	.00234
SDev	.00202	.00244	.00284	.00185	.02000	.60193	.00165
%RSD	126.36	75.121	167.36	176.32	66.291	288.03	70.395
#1	.00025	.00122	-.00226	-.00125	.01454	-.43290	.00048
#2	.00358	.00446	.00226	.00210	.01957	.99162	.00178
#3	.00305	.00121	.00452	.00293	.02748	.30068	.00271
#4	-.00050	.00609	.00226	.00043	.05909	-.02346	.00440
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.05000	.01000	.02500	.10000	5.0000	.05000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02260	.00300	.01294	.02797	-.00089	-.01169	-.00669
SDev	.02594	.00257	.00324	.02821	.00620	.05178	.00003
%RSD	114.78	85.746	25.000	100.86	694.90	442.94	.42154
#1	-.01438	.00110	.01456	-.00203	.00006	-.07997	-.00666
#2	.03767	.00109	.00809	.02351	-.00853	.02365	-.00670
#3	.02397	.00327	.01456	.02429	-.00165	.03297	-.00672
#4	.04315	.00654	.01457	.06609	.00655	-.02341	-.00667
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	.01500	.04000	5.0000	.04000	.10000	.06000
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01657	-.01046	-.01662	.00152	.00141	-.00048	.00064
SDev	.03118	.03435	.01586	.00146	.00203	.04314	.00065
%RSD	188.14	328.41	95.427	95.961	144.02	8920.9	101.79
#1	.01287	-.06129	-.01869	.00011	-.00047	-.05133	.00036
#2	-.04353	.01046	-.02975	.00079	.00047	.04290	.00021

#3	-.04351	-.00148	-.02422	.00171	.00141	-.02008	.00160
#4	.00788	.01046	.00618	.00349	.00424	.02658	.00037

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.25000	.50000	.10000	.05000	.05000	.30000	.05000
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-.30000	-.05000

Elem ZN
Units ppm
Avge .00345
SDev .00089
%RSD 25.849

#1	.00398
#2	.00429
#3	.00228
#4	.00325

Errors	LC Pass
High	.02000
Low	-.02000

Method: QUANMET Sample Name: DXCMEC

Operator: WTR

Run Time: 03/25/01 16:25:46

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04821	1.9623	1.9373	.97728	1.9502	.04856	48.920
SDev	.00072	.0116	.0547	.00167	.0147	.00016	.299
%RSD	1.5024	.58969	2.8252	.17040	.75205	.32462	.61077
#1	.04785	1.9616	1.9386	.97629	1.9696	.04878	48.525
#2	.04785	1.9754	1.8885	.97784	1.9502	.04853	48.858
#3	.04785	1.9473	1.9087	.97936	1.9342	.04841	49.105
#4	.04930	1.9649	2.0134	.97563	1.9469	.04853	49.191
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass
High	.06000	2.4000	2.4000		2.4000	.06000	60.000
Low	.04000	1.6000	1.6000		1.6000	.04000	40.000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05091	.49744	.19851	.24846	1.0587	48.274	.98067
SDev	.00332	.00335	.00203	.00068	.0045	.205	.01156
%RSD	6.5180	.67434	1.0239	.27557	.42395	.42384	1.1784
#1	.05105	.49784	.19666	.24929	1.0577	48.265	.99587
#2	.04923	.49786	.20119	.24846	1.0641	48.231	.98207
#3	.05549	.49297	.19893	.24761	1.0533	48.547	.96849
#4	.04787	.50111	.19724	.24846	1.0598	48.052	.97627
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	.06000	.60000	.24000	.30000	1.2000	60.000	
Low	.04000	.40000	.16000	.20000	.80000	40.000	
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	48.876	.49394	.96099	47.885	.49208	.52439	.41640
SDev	.139	.00089	.00971	.435	.00793	.05116	.00664
%RSD	.28384	.17958	1.0100	.90770	1.6117	9.7553	1.5944
#1	48.999	.49393	.94643	48.467	.48026	.50792	.41310
#2	48.945	.49285	.96585	47.898	.49480	.59264	.41309
#3	48.682	.49394	.96584	47.429	.49705	.52662	.41307
#4	48.879	.49503	.96585	47.746	.49620	.47038	.42636
Errors	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High	60.000	.60000		60.000	.60000	.60000	.60000
Low	40.000	.40000		40.000	.40000	.40000	.40000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0459	9.7799	1.8848	.96489	.94716	1.9631	.49960
SDev	.0525	.0450	.0101	.00527	.00288	.1234	.00025
%RSD	2.5683	.46024	.53628	.54605	.30431	6.2857	.04953
#1	2.0215	9.7380	1.8792	.97195	.94849	2.0653	.49922
#2	2.0728	9.7440	1.8737	.96421	.94598	2.0495	.49972

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#3	1.9856	9.8158	1.8958	.95919	.94378	1.7981	.49972
#4	2.1036	9.8217	1.8903	.96421	.95038	1.9395	.49972

Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High	2.4000					2.4000	.60000
Low	1.6000					1.6000	.40000

Elem ZN
Units ppm
Avge .49082
SDev .00177
%RSD .36077

#1	.48877
#2	.49071
#3	.49309
#4	.49071

Errors	LC Pass
High	.60000
Low	.40000

Method: QUANMET Sample Name: DXATD

Operator: WTR

Run Time: 03/25/01 16:28:56

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00093	.03705	-.06927	.07413	.11447	.00003	55.192
SDev	.00313	.00928	.02917	.00418	.00048	.00006	.180
%RSD	337.57	25.038	42.104	5.6435	.41656	221.00	.32602

#1	-.00238	.04454	-.05558	.07084	.11382	.00006	55.104
#2	-.00090	.03922	-.08558	.07086	.11453	.00005	55.386
#3	.00341	.04088	-.03560	.07522	.11453	-.00006	55.291
#4	-.00383	.02354	-.10033	.07959	.11498	.00006	54.987

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00145	.00237	-.00042	.00614	2.5850	4.0816	.01045
SDev	.00350	.00081	.00125	.00084	.0049	.2727	.00059
%RSD	240.84	34.226	297.98	13.628	.18849	6.6818	5.5995

#1	-.00236	.00279	.00000	.00572	2.5828	3.7468	.00995
#2	-.00059	.00115	-.00000	.00572	2.5921	4.3866	.01104
#3	.00501	.00277	.00057	.00739	2.5835	4.0027	.01087
#4	.00376	.00277	-.00226	.00572	2.5814	4.1904	.00995

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	22.700	.42481	.01166	44.237	.00125	-.00556	-.00663
SDev	.084	.00104	.00647	.180	.00690	.00767	.00008
%RSD	.36969	.24536	55.483	.40773	549.62	137.92	1.2133

#1	22.621	.42345	.00843	44.097	.00098	-.01496	-.00665
#2	22.687	.42563	.00843	44.254	-.00830	.00382	-.00673
#3	22.673	.42563	.02137	44.111	.00740	-.00555	-.00661
#4	22.818	.42454	.00843	44.486	.00493	-.00554	-.00653

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.04957	8.5293	-.01976	.41750	-.00220	.10377	.00152
SDev	.07906	.0389	.01922	.00159	.00041	.07529	.00240
%RSD	159.48	.45576	97.275	.38172	18.443	72.551	158.13

#1	-.16370	8.4710	-.00455	.41596	-.00236	.20993	.00021
#2	.01071	8.5488	-.00179	.41778	-.00173	.06828	.00511

680 894

#3	-.04060	8.5487	-.03773	.41664	-.00204	.03698	.00054
#4	-.00471	8.5487	-.03497	.41960	-.00267	.09990	.00021
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.01512
SDev	.00129
%RSD	8.5501

#1	.01656
#2	.01423
#3	.01385
#4	.01585

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DXATDP5 Operator: WTR
 Run Time: 03/25/01 16:32:05
 Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00097	.00038	-.06303	.04855	.02504	.00065	11.673
SDev	.00218	.01249	.01082	.00557	.00009	.00005	.147
%RSD	225.72	3326.2	17.172	11.480	.34710	7.5760	1.2601
#1	.00157	.01480	-.05815	.05319	.02506	.00068	11.886
#2	-.00275	-.01326	-.05300	.04204	.02498	.00067	11.657
#3	-.00281	-.00609	-.06287	.04577	.02516	.00058	11.567
#4	.00014	.00606	-.07810	.05319	.02498	.00067	11.583
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00116	.00405	.00057	.00090	.56019	1.1025	.00346
SDev	.00248	.00361	.00339	.00145	.00399	.9646	.00120
%RSD	213.20	89.179	598.91	160.98	.71288	87.488	34.750
#1	-.00132	.00772	.00226	.00132	.56181	2.2285	.00440
#2	.00067	.00608	.00226	.00132	.56396	.98309	.00271
#3	.00071	-.00042	-.00452	-.00119	.56037	-.10876	.00216
#4	.00459	.00282	.00226	.00215	.55463	1.3072	.00456
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.7685	.09117	.00493	9.0611	-.00045	-.00479	-.00662
SDev	.0289	.00104	.00374	.1594	.00493	.02041	.00003
%RSD	.60510	1.1430	75.842	1.7590	1102.0	426.02	.40129
#1	4.7418	.09253	.00816	8.8685	.00361	.02355	-.00664
#2	4.7829	.09144	.00816	9.1890	-.00049	-.01414	-.00664
#3	4.8021	.09035	.00169	9.1952	-.00737	-.02375	-.00663
#4	4.7473	.09035	.00169	8.9920	.00245	-.00483	-.00658
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01074	1.7564	-.01171	.08729	.00016	.02322	.00166
SDev	.02024	.0201	.01364	.00127	.00026	.08838	.00466
%RSD	188.54	1.1446	116.44	1.4525	163.30	380.56	281.73
#1	.03510	1.7624	.00349	.08575	.00047	-.09081	.00143
#2	-.00592	1.7684	-.01033	.08835	.00016	.06636	.00511

#3	-.00593	1.7683	-.02968	.08831	-.00016	.00365	-.00486
#4	.01969	1.7265	-.01033	.08675	.00016	.11369	.00494

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.00485
SDev	.00107
%RSD	22.001

#1	.00561
#2	.00593
#3	.00394
#4	.00393

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DXATDS

Operator: WTR

Run Time: 03/25/01 16:35:15

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04506	2.0212	1.9317	1.0708	2.0580	.04845	101.72
SDev	.00360	.0195	.0401	.0064	.0357	.00041	.76
%RSD	7.9905	.96258	2.0774	.59598	1.7341	.83782	.74382
#1	.04685	2.0092	1.9157	1.0698	2.0451	.04818	101.74
#2	.04686	2.0369	1.9005	1.0736	2.0631	.04867	100.88
#3	.03966	2.0385	1.9203	1.0774	2.1043	.04891	101.56
#4	.04686	2.0001	1.9906	1.0624	2.0194	.04805	102.71
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05231	.48805	.19483	.25018	3.5106	51.795	1.0041
SDev	.00550	.00459	.00441	.00259	.0206	.508	.0250
%RSD	10.518	.94123	2.2643	1.0354	.58632	.98083	2.4881
#1	.05647	.48805	.19440	.24871	3.4966	51.302	.99625
#2	.04761	.48155	.19158	.25038	3.5009	51.728	1.0130
#3	.04752	.49127	.19215	.25374	3.5412	52.505	1.0330
#4	.05765	.49132	.20119	.24788	3.5038	51.643	.97412
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	70.512	.89534	.94352	91.614	.49113	.50690	.50940
SDev	.700	.00272	.01540	1.940	.01410	.03854	.06407
%RSD	.99328	.30418	1.6326	2.1177	2.8718	7.6025	12.578
#1	70.142	.89451	.92087	90.801	.50332	.52562	.42694
#2	70.651	.89235	.94675	92.178	.47969	.45028	.54560
#3	71.429	.89888	.95323	94.006	.50334	.51636	.49294
#4	69.824	.89561	.95322	89.472	.47815	.53536	.57212
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.9895	17.910	1.8350	1.3662	.92918	1.9432	.49547
SDev	.0801	.130	.0540	.0191	.00679	.1154	.00263
%RSD	4.0237	.72359	2.9454	1.3947	.73032	5.9407	.53118
#1	2.0907	17.786	1.7690	1.3592	.92651	1.9670	.49368
#2	1.9420	17.900	1.8995	1.3693	.92745	2.0927	.49433

#3	2.0140	18.091	1.8246	1.3907	.93907	1.8248	.49939
#4	1.9113	17.864	1.8471	1.3455	.92369	1.8882	.49451

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.50320
SDev	.00507
%RSD	1.0082

#1	.50130
#2	.49968
#3	.51073
#4	.50108

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DXATDD Operator: WTR
 Run Time: 03/25/01 16:38:24
 Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04505	2.0219	1.9205	1.0717	2.0467	.04833	101.67
SDev	.00217	.0094	.0693	.0088	.0134	.00028	.62
%RSD	4.8159	.46502	3.6075	.82521	.65258	.57334	.61468
#1	.04252	2.0316	1.8456	1.0587	2.0665	.04867	101.33
#2	.04686	2.0159	1.9306	1.0736	2.0405	.04817	101.07
#3	.04686	2.0281	2.0103	1.0773	2.0422	.04842	101.79
#4	.04397	2.0121	1.8956	1.0773	2.0375	.04805	102.49
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05791	.48764	.19384	.24913	3.5101	51.989	.99694
SDev	.00360	.00278	.00339	.00108	.0089	.252	.01121
%RSD	6.2239	.56970	1.7506	.43401	.25280	.48497	1.1244
#1	.06245	.48801	.18989	.25039	3.5203	52.027	1.0116
#2	.05916	.48480	.19215	.24871	3.4987	51.703	.99949
#3	.05485	.49131	.19667	.24955	3.5117	52.308	.99031
#4	.05519	.48643	.19668	.24788	3.5095	51.916	.98637
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	70.496	.89208	.95323	91.344	.49140	.50464	.57557
SDev	.282	.00360	.01398	.786	.00747	.02805	.01672
%RSD	.40059	.40305	1.4664	.86054	1.5192	5.5585	2.9056
#1	70.903	.89235	.94676	92.407	.49286	.49761	.59886
#2	70.292	.88691	.94028	91.391	.49679	.51633	.57237
#3	70.468	.89453	.95323	91.019	.49547	.46942	.55902
#4	70.320	.89453	.97264	90.559	.48047	.53520	.57201
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9613	17.894	1.8678	1.3596	.92573	2.1122	.49449
SDev	.0341	.069	.0091	.0083	.00356	.1287	.00036
%RSD	1.7405	.38681	.48983	.60813	.38427	6.0933	.07236
#1	1.9729	17.989	1.8610	1.3718	.93059	2.0138	.49432
#2	1.9266	17.840	1.8803	1.3556	.92212	2.1713	.49416

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#3	2.0036	17.900	1.8691	1.3569	.92557	1.9982	.49450
#4	1.9420	17.846	1.8609	1.3539	.92463	2.2655	.49499

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem ZN
Units ppm
Avge .50404
SDev .00299
%RSD .59389

#1 .50609
#2 .49963
#3 .50569
#4 .50475

Errors LC Pass
High 100.00
Low -.02000

Method: QUANMET Sample Name: DXATQ

Operator: WTR

Run Time: 03/25/01 16:41:33

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00183	1.4349	-.04795	.19303	.99213	.00019	139.83
SDev	.00355	.0152	.03474	.00445	.01773	.00006	.68
%RSD	193.57	1.0593	72.455	2.3030	1.7875	29.820	.48868
#1	-.00715	1.4397	-.03607	.19616	1.0132	.00017	138.88
#2	-.00006	1.4274	-.07014	.19306	.98358	.00015	140.13
#3	-.00021	1.4187	-.00449	.18673	.97270	.00028	139.85
#4	.00009	1.4537	-.08109	.19616	.99899	.00017	140.46
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00295	.01109	.16385	.01489	115.68	41.185	.05624
SDev	.00132	.00211	.00226	.00074	.69	.399	.00079
%RSD	44.594	19.018	1.3781	4.9751	.59328	.96983	1.3992
#1	.00100	.00864	.16046	.01391	116.23	41.697	.05736
#2	.00389	.01191	.16498	.01550	115.45	41.228	.05605
#3	.00339	.01354	.16498	.01543	114.81	40.733	.05551
#4	.00352	.01027	.16498	.01474	116.23	41.083	.05605
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	63.503	1.2292	.00544	H527.88	-.00238	.01165	-.00140
SDev	.735	.0049	.00619	12.42	.00962	.00029	.01330
%RSD	1.1575	.39901	113.68	2.3522	404.34	2.5115	947.18
#1	64.314	1.2318	.01037	H543.63	.00532	.01142	.01855
#2	63.169	1.2284	.01026	H521.88	.00392	.01175	-.00805
#3	62.657	1.2228	.00371	H514.91	-.00304	.01202	-.00802
#4	63.871	1.2340	-.00258	H531.08	-.01572	.01142	-.00811
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.07106	13.236	-.02938	1.7275	.04388	.11581	.00783
SDev	.06584	.116	.01688	.0272	.00040	.16882	.00288
%RSD	92.656	.87804	57.478	1.5750	.90040	145.77	36.774
#1	-.13986	13.290	-.04098	1.7595	.04349	.20171	.00550
#2	.01157	13.201	-.00524	1.7147	.04381	-.02218	.01040

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#3	-.05200	13.093	-.03020	1.6973	.04381	-.02803	.01023
#4	-.10395	13.362	-.04109	1.7385	.04443	.31175	.00518
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.01505
SDev	.00229
%RSD	15.231

#1	.01185
#2	.01700
#3	.01637
#4	.01499

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DXATX

Operator: WTR

Run Time: 03/25/01 16:44:43

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00109	1.1508	-.06622	.24920	.41102	.00013	202.55
SDev	.00343	.0190	.03380	.01814	.00665	.00006	.70
%RSD	314.88	1.6496	51.046	7.2797	1.6181	42.774	.34482
#1	.00395	1.1596	-.08611	.23849	.40398	.00016	201.91
#2	-.00326	1.1718	-.02651	.24338	.41805	.00005	202.00
#3	-.00324	1.1438	-.10121	.27620	.41512	.00016	203.22
#4	-.00181	1.1281	-.05104	.23873	.40691	.00016	203.10
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00052	.00615	.03672	.00236	17.771	135.32	.08430
SDev	.00374	.00243	.00113	.00118	.123	2.47	.00199
%RSD	724.90	39.549	3.0751	49.968	.69194	1.8220	2.3606
#1	.00120	.00737	.03842	.00318	17.614	132.62	.08218
#2	-.00455	.00413	.03616	.00069	17.867	137.79	.08642
#3	.00447	.00898	.03616	.00321	17.871	136.99	.08550
#4	.00094	.00412	.03615	.00235	17.730	133.89	.08310
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	81.535	.54348	-.00091	S3075.3	.00361	.00756	.02957
SDev	.988	.00328	.00621	.4	.01090	.03167	.06611
%RSD	1.2118	.60316	683.07	.01170	302.32	419.14	223.59
#1	80.413	.53936	-.00255	S3074.9	-.00462	-.00162	.12559
#2	82.520	.54487	.00396	S3075.1	.00183	.01679	-.02020
#3	82.191	.54704	.00396	S3075.4	.01947	.04520	-.00674
#4	81.016	.54266	-.00900	S3075.7	-.00226	-.03015	.01963
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.03005	17.413	-.03326	1.8744	.05966	.04242	.00832
SDev	.02374	.150	.00620	.0273	.00083	.05615	.00221
%RSD	78.988	.86151	18.644	1.4591	1.3925	132.36	26.608
#1	-.03952	17.272	-.02458	1.8447	.06045	.10375	.00981
#2	-.05411	17.583	-.03345	1.9032	.05951	-.02584	.00507

#3	-.02846	17.494	-.03893	1.8911	.06013	.06838	.00874
#4	.00188	17.302	-.03606	1.8586	.05856	.02339	.00964
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem ZN
Units ppm
Avge .00836
SDev .00134
%RSD 15.986

#1 .00773
#2 .01036
#3 .00762
#4 .00771

Errors LC Pass
High 100.00
Low -.02000

Method: QUANMET Sample Name: DXAT0

Operator: WTR

Run Time: 03/25/01 16:47:53

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00143	.02653	-.08836	.24178	.06013	.00002	76.756
SDev	.00382	.01486	.03473	.00004	.00086	.00006	.459
%RSD	267.06	56.029	39.305	.01534	1.4299	249.89	.59809
#1	-.00688	.01488	-.06949	.24175	.06044	.00006	76.094
#2	.00039	.03556	-.06475	.24175	.05902	.00005	76.839
#3	.00182	.04271	-.13963	.24182	.06107	-.00006	76.950
#4	-.00105	.01297	-.07957	.24181	.05999	.00005	77.142
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00059	.00241	.02048	.01003	1.8400	61.819	.02101
SDev	.00214	.00244	.00028	.00143	.0169	.940	.00069
%RSD	361.93	101.36	1.3714	14.221	.92003	1.5211	3.2999
#1	-.00181	.00608	.02034	.00815	1.8280	62.698	.02198
#2	-.00234	.00119	.02035	.01148	1.8230	60.540	.02105
#3	.00244	.00118	.02035	.00982	1.8553	62.306	.02051
#4	-.00066	.00119	.02091	.01065	1.8538	61.734	.02051
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	44.879	.29936	.01156	H544.75	.00857	.01360	.02640
SDev	.538	.00199	.00835	12.36	.00734	.02308	.01707
%RSD	1.1985	.66404	72.232	2.2688	85.583	169.64	64.640
#1	45.180	.29827	.00186	H554.75	.01669	.03252	.00670
#2	44.109	.29719	.02127	H527.78	-.00016	-.01466	.03288
#3	45.306	.30045	.01480	H553.04	.00579	.03237	.01966
#4	44.920	.30154	.00833	H543.43	.01199	.00419	.04636
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00447	10.897	-.01694	.66969	-.00400	-.06226	.00278
SDev	.06517	.094	.02026	.01037	.00070	.04968	.00293
%RSD	1456.7	.86427	119.60	1.5490	17.391	79.796	105.19
#1	-.00195	10.946	-.03776	.67643	-.00487	-.09354	.00009
#2	.06984	10.779	-.01277	.65515	-.00330	-.04630	.00548

680 906

#3	.00327	10.994	.00930	.67780	-.00361	-.10963	.00042
#4	-.08906	10.869	-.02653	.66937	-.00424	.00042	.00515
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem ZN
Units ppm
Avge .01356
SDev .00169
%RSD 12.482

#1 .01318
#2 .01394
#3 .01559
#4 .01151

Errors LC Pass
High 100.00
Low -.02000

Method: QUANMET Sample Name: DXAT1

Operator: WTR

Run Time: 03/25/01 16:51:02

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00078	.10656	-.05564	.25162	.22860	.00011	110.61
SDev	.00408	.01447	.04807	.01249	.00268	.00007	.72
%RSD	522.88	13.580	86.400	4.9627	1.1706	62.184	.64672
#1	-.00368	.09698	-.07049	.26245	.23145	.00017	109.65
#2	-.00366	.09515	.01427	.24075	.22967	.00005	110.49
#3	-.00075	.10743	-.07074	.24085	.22815	.00017	111.17
#4	.00498	.12670	-.09560	.26241	.22513	.00006	111.15
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00272	.01126	.01978	.01284	29.583	193.36	.03920
SDev	.00507	.00308	.00216	.00119	.080	2.47	.00062
%RSD	186.36	27.385	10.934	9.2922	.26915	1.2780	1.5810
#1	.00054	.00921	.02034	.01200	29.527	195.64	.03847
#2	L-.01008	.01087	.01808	.01285	29.621	194.12	.03901
#3	-.00208	.01573	.02260	.01453	29.676	193.81	.03994
#4	.00073	.00921	.01809	.01200	29.507	189.85	.03939
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	68.340	1.5519	.01681	S-.11931	.02648	-.01219	.02326
SDev	.411	.0042	.00324	.00000	.00651	.02719	.06875
%RSD	.60159	.27175	19.270	.00000	24.574	223.06	295.58
#1	68.599	1.5479	.01195	S-.11931	.02071	-.03345	-.00659
#2	68.558	1.5522	.01844	S-.11931	.02124	-.03345	-.01985
#3	68.473	1.5577	.01844	S-.11931	.03367	.02337	.12594
#4	67.728	1.5500	.01842	S-.11931	.03030	-.00522	-.00648
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.02626	8.6624	-.01230	1.1988	-.00181	.10884	.00444
SDev	.03599	.0069	.03838	.0109	.00078	.10855	.00181
%RSD	137.06	.07957	311.93	.90524	43.478	99.734	40.798
#1	-.07388	8.6564	-.01796	1.2082	-.00267	.25511	.00524
#2	.01361	8.6684	-.02077	1.2039	-.00204	.03357	.00540

680 908

#3	-.02212	8.6564	.04067	1.1998	-.00173	.12703	.00541
#4	-.02266	8.6683	-.05115	1.1834	-.00079	.01964	.00173
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem ZN
Units ppm
Avge .05831
SDev .00178
%RSD 3.0434

#1 .05633
#2 .05830
#3 .06064
#4 .05797

Errors LC Pass
High 100.00
Low -.02000

Method: QUANMET Sample Name: DXAT4

Operator: WTR

Run Time: 03/25/01 16:54:12

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00144	.16563	-.08306	.19239	.09945	.00002	102.85
SDev	.00118	.01441	.03662	.02293	.00201	.00006	.49
%RSD	82.309	8.7027	44.090	11.918	2.0196	280.03	.47718
#1	-.00153	.14940	-.12363	.15927	.09671	.00004	102.15
#2	-.00287	.15820	-.10434	.19468	.10027	-.00006	103.00
#3	-.00139	.17394	-.04971	.20804	.10143	.00005	103.28
#4	.00003	.18099	-.05456	.20757	.09938	.00004	102.97
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00108	.00970	.43042	.00606	32.557	116.93	.02924
SDev	.00454	.00155	.00314	.00109	.328	2.17	.00099
%RSD	419.16	15.958	.72978	17.913	1.0077	1.8521	3.3864
#1	.00591	.01090	.42660	.00559	32.086	113.78	.02791
#2	-.00173	.00930	.43169	.00482	32.717	117.74	.02938
#3	-.00370	.00767	.42943	.00650	32.828	118.72	.03030
#4	.00386	.01091	.43394	.00732	32.596	117.48	.02938
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	33.995	.86751	.01720	S3079.5	.01452	-.02473	-.00692
SDev	.506	.00686	.00323	.4	.00542	.01322	.01263
%RSD	1.4878	.79139	18.787	.01154	37.354	53.465	182.42
#1	33.301	.85733	.01876	S3080.0	.02055	-.03396	-.02339
#2	34.175	.87163	.01884	S3079.6	.01374	-.03420	-.01027
#3	34.498	.87166	.01886	S3079.3	.00756	-.00604	.00291
#4	34.005	.86942	.01236	S3079.2	.01622	-.02469	.00305
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03053	7.3469	.00035	.99951	.00094	.05525	.00410
SDev	.01410	.0779	.00865	.01685	.00054	.12292	.00248
%RSD	46.201	1.0610	2449.3	1.6855	57.735	222.48	60.469
#1	.02135	7.2393	-.00392	.97564	.00141	-.10263	.00627
#2	.01821	7.3409	-.00655	1.0085	.00016	.02924	.00139

680 910

#3	.04933	7.4127	.01287	1.0137	.00110	.18474	.00261
#4	.03322	7.3948	-.00098	1.0002	.00110	.10965	.00612

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.03863
SDev	.00059
%RSD	1.5287

#1	.03858
#2	.03784
#3	.03885
#4	.03925

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: CCV2-4

Operator: WTR

Run Time: 03/25/01 16:57:22

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0004	49.062	4.9036	4.9010	4.7860	4.8258	50.875
SDev	.0025	.125	.0633	.0266	.0220	.0158	.235
%RSD	.25451	.25394	1.2902	.54372	.46037	.32673	.46272
#1	.99825	49.135	4.8180	4.8825	4.8049	4.8392	50.663
#2	.99967	49.152	4.9078	4.9393	4.8031	4.8336	50.753
#3	1.0041	49.080	4.9181	4.8987	4.7766	4.8271	51.201
#4	.99953	48.881	4.9704	4.8833	4.7592	4.8034	50.880
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	55.000	5.5000	5.5000	5.5000	5.5000	55.000
Low	.90000	45.000	4.5000	4.5000	4.5000	4.5000	45.000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.1044	4.9625	4.9620	4.7908	51.168	48.199	4.7602
SDev	.0355	.0226	.0186	.0217	.117	.219	.0372
%RSD	.69598	.45625	.37495	.45204	.22946	.45497	.78186
#1	5.0860	4.9332	4.9485	4.8092	51.156	48.154	4.7886
#2	5.1059	4.9657	4.9582	4.8050	51.158	48.052	4.7955
#3	5.1535	4.9884	4.9892	4.7875	51.322	48.521	4.7352
#4	5.0722	4.9626	4.9520	4.7615	51.036	48.069	4.7217
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.5000	5.5000	5.5000	5.5000	55.000	55.000	5.5000
Low	4.5000	4.5000	4.5000	4.5000	45.000	45.000	4.5000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	49.361	4.9279	4.9549	47.985	4.9541	4.9843	4.9221
SDev	.158	.0131	.0154	.033	.0429	.0472	.0628
%RSD	.31920	.26616	.31084	.06837	.86529	.94778	1.2754
#1	49.471	4.9219	4.9388	47.948	4.9816	4.9977	5.0120
#2	49.405	4.9284	4.9452	48.012	4.9287	4.9231	4.8787
#3	49.440	4.9459	4.9647	47.966	4.9984	5.0367	4.8793
#4	49.128	4.9154	4.9711	48.013	4.9078	4.9798	4.9183
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	5.5000	5.5000	55.000	5.5000	5.5000	5.5000
Low	45.000	4.5000	4.5000	45.000	4.5000	4.5000	4.5000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.9050	5.0954	4.9758	4.7904	4.8539	9.9050	4.9038
SDev	.0609	.0034	.0615	.0192	.0135	.1496	.0120
%RSD	1.2419	.06583	1.2364	.40055	.27785	1.5108	.24377
#1	4.9845	5.0925	4.9147	4.8056	4.8605	10.047	4.9113
#2	4.8717	5.0984	5.0606	4.8052	4.8640	9.9052	4.9053

#3	4.9183	5.0925	4.9556	4.7857	4.8571	9.6981	4.9120
#4	4.8456	5.0982	4.9724	4.7652	4.8342	9.9700	4.8864

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.5000	5.5000	5.5000	5.5000	5.5000	11.000	5.5000
Low	4.5000	4.5000	4.5000	4.5000	4.5000	9.0000	4.5000

Elem	ZN
Units	ppm
Avge	4.9754
SDev	.0130
%RSD	.26194

#1	4.9650
#2	4.9717
#3	4.9945
#4	4.9704

Errors	LC Pass
High	5.5000
Low	4.5000

Method: QUANMET Sample Name: CCB4

Operator: WTR

Run Time: 03/25/01 17:00:32

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00073	-.00414	-.06738	.01676	.00127	.00125	.01868
SDev	.00189	.01391	.04913	.01933	.00072	.00048	.01415
%RSD	258.34	335.58	72.924	115.29	56.579	38.677	75.758

#1	-.00147	-.02207	-.05715	.00001	.00073	.00082	.00431
#2	.00293	.00585	-.13741	.03349	.00136	.00104	.01604
#3	.00001	-.00816	-.05239	.00004	.00073	.00118	.01618
#4	.00145	.00781	-.02256	.03352	.00225	.00193	.03820

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.30000	.20000	.20000	.00500	5.0000
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00175	.00406	.00085	.00001	.01670	.23884	.00216
SDev	.00247	.00538	.00187	.00084	.00846	.63819	.00082
%RSD	141.18	132.44	219.44	14692.	50.656	267.20	37.764

#1	.00237	.00121	-.00169	-.00042	.00808	-.16847	.00124
#2	-.00186	.00936	.00226	.00126	.01383	1.1452	.00178
#3	.00279	-.00204	.00227	-.00042	.01670	-.24524	.00254
#4	.00370	.00771	.00057	-.00041	.02820	.22391	.00309

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.05000	.01000	.02500	.10000	5.0000	.05000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02123	.00164	.01780	.11893	-.00449	-.02578	-.00676
SDev	.01911	.00109	.00647	.07616	.00632	.00482	.00007
%RSD	90.015	66.246	36.354	64.042	140.79	18.710	1.0296

#1	.01575	.00110	.02103	.05061	-.00745	-.02350	-.00676
#2	.03493	.00110	.02103	.07074	.00485	-.02328	-.00670
#3	-.00342	.00110	.02103	.13460	-.00899	-.03302	-.00685
#4	.03767	.00327	.00809	.21976	-.00636	-.02333	-.00671

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	.01500	.04000	5.0000	.04000	.10000	.06000
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02570	.02691	-.00833	.00123	.00110	.05867	.00076
SDev	.02666	.00576	.01973	.00068	.00106	.05884	.00406
%RSD	103.73	21.394	236.96	55.586	96.186	100.30	536.42

#1	-.00767	.02237	-.03528	.00089	-.00016	.04314	-.00437
#2	.05390	.03444	.01172	.00089	.00141	-.00426	.00543

680 914

#3	.03852	.02244	-.00763	.00089	.00079	.13732	.00176
#4	.01804	.02840	-.00211	.00226	.00236	.05847	.00021

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.25000	.50000	.10000	.05000	.05000	.30000	.05000
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-.30000	-.05000

Elem	ZN
Units	ppm
Avge	.00305
SDev	.00096
%RSD	31.535

#1	.00229
#2	.00328
#3	.00431
#4	.00231

Errors	LC Pass
High	.02000
Low	-.02000

Method: QUANMET Sample Name: DXAT7

Operator: WTR

Run Time: 03/25/01 17:03:42

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	- .00240	.00435	-.05362	.16299	.49019	.00012	195.25
SDev	.00139	.01054	.03287	.00017	.00833	.00007	1.79
%RSD	58.084	242.35	61.294	.10675	1.6996	61.514	.91611
#1	-.00058	.01480	-.03125	.16292	.48195	.00017	197.34
#2	-.00203	.01129	-.02126	.16298	.48685	.00005	196.11
#3	-.00352	-.00084	-.09087	.16283	.49041	.00006	193.55
#4	-.00347	-.00786	-.07109	.16324	.50155	.00018	193.98
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00012	.00337	-.00113	.00123	17.065	42.051	.16207
SDev	.00328	.00312	.00391	.00106	.085	.788	.00432
%RSD	2639.4	92.457	345.97	85.831	.50081	1.8743	2.6659
#1	.00344	.00743	.00226	.00144	17.036	41.484	.15680
#2	-.00400	.00420	.00226	.00228	17.057	41.885	.16105
#3	-.00146	.00093	-.00452	-.00024	16.982	41.629	.16328
#4	.00152	.00092	-.00452	.00145	17.184	43.207	.16715
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	37.133	.74492	.00062	H459.62	.01055	-.01519	-.00975
SDev	.465	.00314	.00373	11.64	.01084	.04179	.02501
%RSD	1.2520	.42131	605.33	2.5325	102.71	275.15	256.43
#1	36.717	.74573	.00385	H447.14	.00563	-.02916	.00672
#2	37.008	.74682	.00385	H455.33	.00516	.04605	.00682
#3	37.008	.74028	-.00263	H461.21	.02680	-.04824	-.04608
#4	37.799	.74686	-.00260	H474.78	.00462	-.02941	-.00647
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.02201	13.398	-.02149	1.8867	-.01130	.09379	.00277
SDev	.03540	.076	.03124	.0276	.00041	.03819	.00262
%RSD	160.82	.56905	145.41	1.4654	3.5861	40.714	94.821
#1	-.02082	13.338	-.00829	1.8593	-.01083	.09812	.00500
#2	.01002	13.350	-.06635	1.8776	-.01115	.06638	.00500

#3	-.00561	13.398	.00531	1.8852	-.01146	.14619	-.00008
#4	-.07165	13.505	-.01662	1.9249	-.01178	.06448	.00115

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.00651
SDev	.00206
%RSD	31.731

#1	.00772
#2	.00871
#3	.00427
#4	.00531

Errors	LC Pass
High	100.00
Low	-.02000

#3	.00671	13.751	-.01380	1.9118	-.01178	.04186	.00516
#4	.08923	13.775	.00291	1.9050	-.01052	-.00763	.00885

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.00554
SDev	.00101
%RSD	18.194

#1	.00426
#2	.00597
#3	.00530
#4	.00662

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DXAT9

Operator: WTR

Run Time: 03/25/01 17:06:51

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00153	.00734	-.10552	.16709	.49530	.00008	204.61
SDev	.00249	.01031	.03130	.00563	.00589	.00006	1.89
%RSD	162.79	140.48	29.660	3.3678	1.1884	72.929	.92414

#1	-.00480	.00090	-.07674	.17553	.50396	.00006	202.72
#2	-.00047	.01135	-.12169	.16425	.49175	.00006	205.01
#3	-.00190	-.00281	-.14157	.16415	.49398	.00017	203.64
#4	.00105	.01993	-.08208	.16443	.49149	.00004	207.07

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00040	.00296	.00127	.00235	17.713	42.733	.16091
SDev	.00246	.00449	.00573	.00205	.064	.350	.00218
%RSD	616.12	151.66	450.98	87.466	.35986	.81954	1.3580

#1	.00267	-.00234	-.00678	-.00016	17.741	43.053	.16328
#2	.00146	.00581	.00283	.00235	17.692	42.234	.16012
#3	.00049	.00093	.00226	.00234	17.635	42.840	.16197
#4	-.00303	.00744	.00678	.00487	17.783	42.806	.15827

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	37.715	.77390	.00555	H460.55	.00981	.00109	.01668
SDev	.179	.00361	.00619	7.88	.00916	.03716	.02264
%RSD	.47362	.46595	111.50	1.7101	93.418	3404.4	135.72

#1	37.977	.77309	-.00253	H471.78	.01073	-.02968	.00684
#2	37.618	.77416	.00393	H456.73	.00355	-.02937	.04646
#3	37.588	.76980	.01040	H459.82	.00253	.04574	-.00662
#4	37.676	.77854	.01042	H453.86	.02242	.01767	.02005

Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02106	13.776	-.01162	1.9158	-.01130	.06426	.00351
SDev	.04700	.041	.01042	.0186	.00060	.05839	.00431
%RSD	223.24	.29720	89.616	.96878	5.3190	90.861	122.76

#1	-.01861	13.834	-.01373	1.9431	-.01178	.11893	-.00008
#2	.00689	13.745	-.02187	1.9032	-.01115	.10389	.00011

Method: QUANMET Sample Name: DXA2N

Operator: WTR

Run Time: 03/25/01 17:10:01

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00036	-.01798	-.04979	.00003	.00022	.00012	.06066
SDev	.00073	.00164	.02719	.00001	.00013	.00007	.00777
%RSD	203.44	9.1455	54.610	28.385	58.823	57.237	12.813
#1	.00001	-.01673	-.06229	.00002	.00029	.00018	.06316
#2	.00000	-.02013	-.02731	.00002	.00029	.00019	.07042
#3	.00000	-.01666	-.02733	.00004	.00003	.00006	.05599
#4	-.00144	-.01842	-.08222	.00004	.00029	.00006	.05306
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00014	.00041	.00057	.00000	.01508	.21752	.00068
SDev	.00279	.00387	.00339	.00174	.00069	.70135	.00045
%RSD	1941.5	948.95	599.12	85761.	4.5637	322.43	66.413
#1	.00289	.00284	.00226	.00209	.01454	.76984	.00124
#2	.00155	.00447	.00452	.00042	.01598	.81249	.00086
#3	-.00271	-.00203	-.00226	-.00209	.01526	-.63762	.00031
#4	-.00231	-.00365	-.00226	-.00042	.01454	-.07464	.00031
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00753	.00082	.00324	.16180	.00174	-.01176	-.00993
SDev	.01963	.00054	.00324	.00963	.00365	.02362	.01266
%RSD	260.54	66.274	99.938	5.9517	210.07	200.78	127.45
#1	.02123	.00109	.00809	.16247	.00260	-.02347	-.01987
#2	.02671	.00109	.00162	.17486	-.00180	.02366	-.00667
#3	-.01438	.00109	.00162	.15241	-.00033	-.02358	.00661
#4	-.00342	.00000	.00162	.15744	.00647	-.02367	-.01981
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.02816	-.02840	-.00695	.00089	-.00024	.04693	.00039
SDev	.04312	.03470	.01142	.00000	.00030	.08358	.00070
%RSD	153.10	122.18	164.27	.00000	127.66	178.10	178.99
#1	-.04355	-.00148	-.02151	.00089	-.00016	.02726	.00143
#2	.02826	.00448	-.00487	.00089	.00016	-.01993	.00005

#3	-.07432	-.06129	.00625	.00089	-.00047	.16880	.00004
#4	-.02303	-.05531	-.00768	.00089	-.00047	.01160	.00004

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.00116
SDev	.00158
%RSD	135.95

#1	.00257
#2	.00060
#3	.00229
#4	-.00081

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DXE28B

Operator: WTR

Run Time: 03/25/01 17:13:10

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00216	-.01803	-.06976	.00001	-.00005	.00012	.00234
SDev	.00144	.00599	.02624	.00001	.00022	.00007	.00451
%RSD	66.760	33.228	37.616	49.276	485.71	55.833	192.58
#1	-.00289	-.01315	-.03235	.00002	-.00016	.00006	-.00393
#2	.00000	-.01321	-.07228	.00001	.00029	.00006	.00542
#3	-.00289	-.02548	-.08218	.00001	-.00016	.00018	.00580
#4	-.00287	-.02028	-.09225	.00002	-.00016	.00018	.00207
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	-.30000	.20000	.20000	.00500	5.0000
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00122	.00162	-.00014	.00000	.00826	.09596	.00086
SDev	.00285	.00245	.00187	.00108	.00090	.29426	.00066
%RSD	233.98	150.60	1334.6	44004.	10.945	306.63	76.718
#1	.00266	-.00041	-.00226	-.00125	.00951	-.32201	.00086
#2	-.00235	.00448	.00000	.00126	.00808	.24950	.00031
#3	.00037	.00285	-.00056	.00042	.00808	.11302	.00048
#4	.00419	-.00042	.00226	-.00042	.00736	.34333	.00178
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.05000	.01000	.02500	.10000	5.0000	.05000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00068	.00000	.00647	.01277	-.00258	-.02585	-.01330
SDev	.01037	.00000	.00324	.00641	.00068	.00475	.00766
%RSD	1514.4	18.827	49.990	50.183	26.585	18.377	57.630
#1	-.00616	.00000	.00162	.01229	-.00219	-.02355	-.00664
#2	.01575	.00000	.00809	.01926	-.00281	-.02343	-.01993
#3	-.00616	.00001	.00809	.01539	-.00342	-.02345	-.00668
#4	-.00068	.00000	.00809	.00416	-.00188	-.03298	-.01994
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	.01500	.04000	5.0000	.04000	.10000	.06000
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02695	-.05679	-.00558	-.00002	-.00055	-.01194	.00139
SDev	.08788	.00572	.00475	.00000	.00054	.03957	.00177
%RSD	326.05	10.073	85.077	.00000	97.590	331.28	127.93
#1	-.01279	-.05531	.00067	-.00002	-.00079	.04309	.00004
#2	.04362	-.06129	-.00769	-.00002	.00016	-.01982	.00020

#3	.14107	-.04931	-.00486	-.00002	-.00047	-.01981	.00143
#4	-.06409	-.06124	-.01045	-.00002	-.00110	-.05124	.00388
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.25000	.50000	.10000	.05000	.05000	.30000	.05000
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-.30000	-.05000

Elem ZN
Units ppm
Avge -.00041
SDev .00212
%RSD 519.10

#1 -.00277
#2 -.00109
#3 .00230
#4 -.00007

Errors LC Pass
High .02000
Low -.02000

Method: QUANMET Sample Name: DXE28C

Operator: WTR

Run Time: 03/25/01 17:16:20

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04666	1.8906	1.8796	.96134	1.9303	.04700	47.341
SDev	.00219	.0080	.0410	.01752	.0123	.00026	.172
%RSD	4.6930	.42213	2.1812	1.8224	.63852	.55689	.36344
#1	.04482	1.8794	1.8848	.93803	1.9335	.04699	47.118
#2	.04922	1.8983	1.8595	.96232	1.9166	.04671	47.522
#3	.04774	1.8916	1.9345	.98048	1.9253	.04697	47.309
#4	.04485	1.8930	1.8396	.96453	1.9456	.04734	47.414
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass
High	.06000	2.4000	2.4000		2.4000	.06000	60.000
Low	.04000	1.6000	1.6000		1.6000	.04000	40.000
Elem	CD	CO	CR	CU	FE	K	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04679	.47021	.18877	.24007	1.0424	48.387	.98338
SDev	.00276	.00133	.00130	.00000	.0055	.217	.01077
%RSD	5.8961	.28380	.69008	.00062	.52724	.44838	1.0947
#1	.05023	.46857	.18764	.24007	1.0383	48.419	.98855
#2	.04400	.47023	.18990	.24007	1.0404	48.581	.96911
#3	.04769	.47184	.18990	.24007	1.0404	48.078	.98177
#4	.04524	.47019	.18765	.24007	1.0505	48.470	.99410
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	.06000	.60000	.24000	.30000	1.2000	60.000	
Low	.04000	.40000	.16000	.20000	.80000	40.000	
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	49.039	.47057	.96746	49.191	.46352	.47893	.42278
SDev	.294	.00189	.01435	.412	.00862	.03350	.00674
%RSD	.60045	.40118	1.4830	.83803	1.8600	6.9948	1.5942
#1	48.942	.46894	.95290	49.334	.46024	.44124	.42606
#2	48.838	.47003	.97231	48.688	.45753	.50718	.42600
#3	48.901	.47002	.95937	49.079	.47632	.46016	.42637
#4	49.476	.47330	.98526	49.664	.46000	.50715	.41267
Errors	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High	60.000	.60000		60.000	.60000	.60000	.60000
Low	40.000	.40000		40.000	.40000	.40000	.40000
Elem	SE	SI	SN	SR	TI	TL	V
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9369	9.7617	1.7956	.94653	.95140	1.9636	.48015
SDev	.0636	.0369	.0408	.00585	.00460	.1267	.00421
%RSD	3.2833	.37751	2.2744	.61764	.48387	6.4524	.87687
#1	1.9240	9.7557	1.8350	.94784	.95006	1.9559	.47489
#2	1.8676	9.7379	1.8046	.94032	.94849	1.8614	.48517

#3	1.9343	9.7378	1.7382	.94397	.94881	1.8929	.47995
#4	2.0215	9.8156	1.8045	.95399	.95823	2.1443	.48060

Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High	2.4000					2.4000	.60000
Low	1.6000					1.6000	.40000

Elem	ZN
Units	ppm
Avge	.47137
SDev	.00458
%RSD	.97134

#1	.46711
#2	.47263
#3	.46847
#4	.47727

Errors	LC Pass
High	.60000
Low	.40000

Method: QUANMET Sample Name: DXCV0

Operator: WTR

Run Time: 03/25/01 17:19:29

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00355	.17596	-.08239	.70291	.04420	.00012	307.21
SDev	.00398	.01655	.02930	.00123	.00064	.00006	1.39
%RSD	112.30	9.4048	35.556	.17570	1.4560	51.931	.45402
#1	.00043	.18957	-.11617	.70440	.04369	.00003	305.16
#2	-.00101	.18965	-.07626	.70138	.04369	.00015	308.29
#3	-.00825	.16848	-.09108	.70293	.04503	.00015	307.79
#4	-.00536	.15614	-.04605	.70292	.04440	.00015	307.59
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00402	.01140	2.9664	.01256	1.9856	137.11	.06212
SDev	.00565	.00154	.0178	.00042	.0115	1.97	.00094
%RSD	140.37	13.523	.59893	3.3194	.58050	1.4346	1.5101
#1	.00186	.01261	2.9416	.01235	1.9694	135.04	.06106
#2	-.00108	.01261	2.9726	.01235	1.9888	136.11	.06291
#3	L-.00585	.01100	2.9834	.01235	1.9967	139.55	.06291
#4	L-.01103	.00939	2.9681	.01318	1.9874	137.74	.06160
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	169.86	.47872	.02452	S-.11931	.03500	-.00242	.00148
SDev	1.81	.00308	.00835	.00000	.01192	.02306	.03140
%RSD	1.0644	.64275	34.063	.00000	34.048	952.21	2119.8
#1	167.60	.47437	.02129	S-.11931	.03216	-.02127	-.01819
#2	169.35	.48089	.01482	S-.11931	.04361	-.02119	.02144
#3	171.80	.48090	.02776	S-.11931	.01933	.02588	.03430
#4	170.68	.47873	.03423	S-.11931	.04491	.00690	-.03162
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.02710	12.380	-.05015	2.4974	-.01790	.14462	.01177
SDev	.04414	.095	.01129	.0330	.00110	.09822	.00022
%RSD	162.89	.76708	22.514	1.3227	6.1612	67.914	1.8822
#1	-.07844	12.268	-.05162	2.4588	-.01711	.25096	.01163
#2	-.00144	12.346	-.04040	2.4852	-.01680	.07776	.01154

#3	-.04758	12.489	-.04310	2.5359	-.01900	.04620	.01189
#4	.01907	12.417	-.06550	2.5095	-.01868	.20357	.01202

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.08634
SDev	.00080
%RSD	.92549

#1	.08744
#2	.08641
#3	.08579
#4	.08571

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DXCV0P5

Operator: WTR

Run Time: 03/25/01 17:22:39

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00084	.03881	-.06079	.15907	.01009	.00008	65.163
SDev	.00536	.01776	.03790	.00215	.00015	.00006	.467
%RSD	641.30	45.770	62.336	1.3485	1.4845	75.033	.71657
#1	.00444	.04279	-.11320	.16093	.01009	.00006	65.116
#2	-.00134	.02875	-.06320	.15722	.01009	.00005	64.629
#3	.00592	.06198	-.03857	.16093	.01027	.00004	65.769
#4	-.00568	.02171	-.02821	.15720	.00991	.00018	65.140
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00287	.00487	.65431	.01051	.48567	28.510	.01378
SDev	.00078	.00407	.00190	.00153	.00203	.439	.00094
%RSD	27.079	83.463	.29071	14.546	.41791	1.5414	6.8583
#1	.00221	.00609	.65544	.00967	.48711	28.603	.01403
#2	.00228	-.00041	.65148	.00883	.48710	28.970	.01272
#3	.00385	.00446	.65544	.01218	.48280	27.912	.01496
#4	.00316	.00935	.65488	.01135	.48566	28.552	.01343
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	37.218	.10555	.00977	279.06	.00373	-.00416	-.00886
SDev	.657	.00089	.00324	9.12	.00841	.03165	.02263
%RSD	1.7662	.84057	33.116	3.2682	225.45	760.08	255.51
#1	37.399	.10664	.00815	281.85	.01584	-.02294	.00115
#2	38.024	.10446	.00815	290.14	.00006	-.02311	.01434
#3	36.473	.10555	.00815	268.76	.00236	.04283	-.03863
#4	36.975	.10555	.01462	275.49	-.00335	-.01344	-.01229
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01771	2.5367	-.02762	.55114	-.00345	.01657	.00346
SDev	.02693	.0142	.02461	.01214	.00110	.03488	.00211
%RSD	152.10	.56058	89.114	2.2035	31.926	210.51	60.860
#1	-.04206	2.5516	-.00477	.55574	-.00267	-.02668	.00159
#2	-.01642	2.5456	-.03789	.56531	-.00424	.05197	.00280

#3	.01947	2.5277	-.05747	.53706	-.00236	.03625	.00648
#4	-.03181	2.5217	-.01035	.54644	-.00455	.00474	.00297
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem ZN
Units ppm
Avge .02371
SDev .00157
%RSD 6.6140

#1 .02342
#2 .02347
#3 .02585
#4 .02209

Errors LC Pass
High 100.00
Low -.02000

Analysis Report

Disregard "H" flags wrong check table entered. use 3-26-01
03/25/01 05:28:55 PM

page 1

Method: QUANMET Sample Name: DXCV0S 680 929 Operator: WTR
Run Time: 03/25/01 17:25:49
Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	H.04463	H1.9992	H1.7987	H1.5695	H1.6980	H.04140	H348.44
SDev	.00073	.0233	.0177	.0243	.0197	.00041	2.81
%RSD	1.6448	1.1654	.98219	1.5506	1.1596	.99893	.80579

#1	H.04496	H1.9695	H1.7729	H1.5384	H1.6714	H.04086	H345.68
#2	H.04353	H1.9959	H1.8025	H1.5894	H1.6966	H.04134	H346.43
#3	H.04505	H2.0059	H1.8122	H1.5619	H1.7068	H.04156	H351.39
#4	H.04500	H2.0254	H1.8072	H1.5884	H1.7173	H.04183	H350.25

Errors	LC High	LC High	LC High	LC High	LC High	LC High	LC High
High	.01000	.20000	.30000	.20000	.20000	.00500	5.0000
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	H.05106	H.44246	H3.0675	H.23898	H2.8470	H180.16	H.93479
SDev	.00728	.00482	.0271	.00424	.0228	2.66	.01503
%RSD	14.251	1.0887	.88229	1.7750	.80082	1.4783	1.6078

#1	H.04195	H.43642	H3.0399	H.23354	H2.8226	H176.66	H.91476
#2	H.05192	H.44124	H3.0490	H.23773	H2.8327	H179.73	H.93844
#3	H.05972	H.44771	H3.0948	H.24192	H2.8672	H181.39	H.93496
#4	H.05066	H.44447	H3.0863	H.24275	H2.8657	H182.87	H.95101

Errors	LC High	LC High	LC High	LC High	LC High	LC High	LC High
High	.00500	.05000	.01000	.02500	.10000	5.0000	.05000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	H210.06	H.89923	H.91270	S-.11931	H.45705	H.52028	H.53430
SDev	2.07	.00933	.01334	.00000	.01751	.06959	.07711
%RSD	.98743	1.0381	1.4617	.00000	3.8306	13.376	14.431

#1	H207.39	H.88781	H.91431	S-.11931	H.45189	H.45174	H.45497
#2	H209.53	H.89542	H.89490	S-.11931	H.43744	H.47073	H.48139
#3	H211.28	H.90630	H.92726	S-.11931	H.45937	H.59351	H.60034
#4	H212.06	H.90739	H.91432	S-.11931	H.47948	H.56515	H.60050

Errors	LC High	LC High	LC High	LC Pass	LC High	LC High	LC High
High	5.0000	.01500	.04000	5.0000	.04000	.10000	.06000
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	H1.9015	H21.454	H1.7560	H3.2369	H.83631	H1.9778	H.44720
SDev	.0655	.214	.0402	.0377	.00849	.1495	.00635
%RSD	3.4468	.99594	2.2889	1.1651	1.0151	7.5582	1.4208

#1	H1.8065	H21.182	H1.7224	H3.1861	H.82571	H2.0097	H.44076
#2	H1.9143	H21.385	H1.7419	H3.2331	H.83325	H1.7579	H.44518

#3	H1.9554	H21.618	H1.7452	H3.2547	H.84235	H2.0718	H.45589
#4	H1.9298	H21.630	H1.8144	H3.2737	H.84392	H2.0719	H.44698

Errors	LC High	LC High	LC High	LC High	LC High	LC High	LC High
High	.25000	.50000	.10000	.05000	.05000	.30000	.05000
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-.30000	-.05000

Elem ZN
Units ppm
Avge H.54935
SDev .00596
%RSD 1.0853

#1	H.54186
#2	H.54727
#3	H.55468
#4	H.55358

Errors	LC High
High	.02000
Low	-.02000

Method: QUANMET Sample Name: DXCV0D

Operator: WTR

Run Time: 03/25/01 17:28:58

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04394	2.0153	1.7611	1.5683	1.7128	.04176	349.59
SDev	.00182	.0122	.0533	.0241	.0157	.00026	2.33
%RSD	4.1398	.60756	3.0262	1.5340	.91498	.62547	.66552
#1	.04357	2.0272	1.7822	1.5761	1.7297	.04207	349.09
#2	.04212	2.0097	1.7624	1.5831	1.7224	.04182	347.22
#3	.04646	2.0009	1.8124	1.5325	1.6977	.04145	349.26
#4	.04359	2.0236	1.6873	1.5816	1.7015	.04168	352.79
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05147	.44813	3.0673	.23983	2.8494	179.63	.94046
SDev	.00319	.00279	.0116	.00260	.0106	1.61	.01605
%RSD	6.1994	.62282	.37825	1.0835	.37276	.89546	1.7065
#1	.05567	.44444	3.0558	.24275	2.8600	181.18	.95564
#2	.05211	.45097	3.0648	.24108	2.8456	180.86	.95300
#3	.04970	.44937	3.0654	.23857	2.8363	178.23	.92726
#4	.04841	.44774	3.0834	.23690	2.8557	178.25	.92595
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	210.09	.90494	.91270	S-.11931	.45502	.48977	.49113
SDev	1.04	.00420	.00323	.00000	.01772	.03353	.06527
%RSD	.49616	.46404	.35436	.00000	3.8951	6.8467	13.289
#1	211.29	.90521	.90785	S-.11931	.42870	.51785	.46791
#2	210.50	.90303	.91432	S-.11931	.46277	.51825	.58722
#3	208.86	.90086	.91432	S-.11931	.46721	.45213	.46798
#4	209.73	.91064	.91432	S-.11931	.46140	.47087	.44142
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9823	H21.522	1.8048	3.2314	.84565	1.8166	.45179
SDev	.0529	.077	.0595	.0240	.00392	.0844	.00250
%RSD	2.6678	.35651	3.2972	.74393	.46330	4.6468	.55323
#1	2.0067	H21.606	1.7418	3.2580	.84989	1.8675	.45042
#2	2.0374	H21.522	1.8612	3.2447	.84675	1.7891	.45060

680 932

#3	1.9143	H21.421	1.8496	3.2058	.84047	1.7106	.45060
#4	1.9708	H21.540	1.7666	3.2174	.84550	1.8990	.45554

Errors	LC Pass	LC High	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem ZN
Units ppm
Avge .55200
SDev .00366
%RSD .66337

#1 .55475
#2 .55465
#3 .55167
#4 .54695

Errors LC Pass
High 100.00
Low -.02000

Method: QUANMET Sample Name: DXCWA

Operator: WTR

Run Time: 03/25/01 17:32:08

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00360	.31924	-.08492	1.1095	.17469	.00007	259.21
SDev	.00248	.01162	.03272	.0233	.00097	.00006	1.28
%RSD	68.919	3.6384	38.532	2.0982	.55578	75.853	.49483
#1	-.00618	.30715	-.07334	1.1240	.17486	.00005	257.32
#2	-.00036	.33490	-.11364	1.0770	.17326	.00005	260.14
#3	-.00319	.31559	-.10880	1.1087	.17531	.00016	259.56
#4	-.00465	.31931	-.04389	1.1284	.17531	.00004	259.82
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00356	.00642	.03150	.00464	44.534	151.92	.10998
SDev	.00479	.00155	.00334	.00043	.166	1.42	.00148
%RSD	134.46	24.123	10.598	9.2075	.37323	.93395	1.3466
#1	.00324	.00762	.03164	.00441	44.337	151.83	.10956
#2	L-.00760	.00440	.02938	.00442	44.457	149.98	.10809
#3	L-.00605	.00602	.03616	.00528	44.663	153.25	.11141
#4	-.00385	.00764	.02882	.00445	44.680	152.61	.11086
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	334.07	1.9203	.01230	S-.11931	-.00477	.03173	-.04659
SDev	1.50	.0058	.00971	.00000	.00584	.00956	.07106
%RSD	.44868	.30180	78.971	.00000	122.43	30.120	152.53
#1	333.31	1.9126	.00095	S-.11931	.00299	.03661	-.00665
#2	332.34	1.9192	.02038	S-.11931	-.01108	.03645	-.00684
#3	335.09	1.9257	.02041	S-.11931	-.00471	.01740	L-.15276
#4	335.53	1.9236	.00747	S-.11931	-.00629	.03646	-.02011
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.03184	9.3066	-.07026	3.1613	-.00652	.23336	.00680
SDev	.08209	.0354	.03926	.0154	.00070	.17204	.00246
%RSD	257.85	.37988	55.876	.48703	10.686	73.724	36.082
#1	-.12991	9.2722	-.08532	3.1585	-.00738	.32678	.00499
#2	.07050	9.2842	L-.11849	3.1407	-.00581	.19920	.00547

#3	-.04169	9.3500	-.04442	3.1714	-.00675	.00733	.01038
#4	-.02625	9.3201	-.03281	3.1746	-.00612	.40013	.00637

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.01196
SDev	.00085
%RSD	7.0984

#1	.01237
#2	.01241
#3	.01239
#4	.01069

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: CCV2-5

Operator: WTR

Run Time: 03/25/01 17:35:17

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.99405	49.024	4.8684	4.9139	4.7938	4.8193	50.325
SDev	.00616	.520	.0748	.0619	.0658	.0465	.209
%RSD	.61980	1.0617	1.5357	1.2600	1.3726	.96388	.41541
#1	.98629	48.833	4.7569	4.8828	4.7750	4.8019	50.168
#2	.99360	48.653	4.8979	4.8867	4.7444	4.7882	50.629
#3	1.0013	49.796	4.9170	5.0067	4.8906	4.8884	50.296
#4	.99499	48.817	4.9017	4.8795	4.7652	4.7986	50.209
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	55.000	5.5000	5.5000	5.5000	5.5000	55.000
Low	.90000	45.000	4.5000	4.5000	4.5000	4.5000	45.000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.0628	4.9248	4.9203	4.8047	50.909	48.103	4.7912
SDev	.0188	.0231	.0167	.0773	.288	1.194	.0982
%RSD	.37130	.46858	.33909	1.6093	.56587	2.4822	2.0506
#1	5.0649	4.9057	4.9130	4.7815	50.732	47.421	4.7682
#2	5.0748	4.9415	4.9305	4.7431	50.834	46.986	4.7081
#3	5.0761	4.9478	4.9372	4.9179	51.335	49.690	4.9334
#4	5.0357	4.9042	4.9005	4.7765	50.735	48.316	4.7553
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.5000	5.5000	5.5000	5.5000	55.000	55.000	5.5000
Low	4.5000	4.5000	4.5000	4.5000	45.000	45.000	4.5000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	49.284	4.8963	4.9209	47.939	4.9411	4.9740	4.9754
SDev	.551	.0216	.0386	.905	.0106	.0590	.0566
%RSD	1.1188	.44153	.78507	1.8873	.21357	1.1853	1.1372
#1	49.038	4.8805	4.8999	47.707	4.9284	4.9124	5.0119
#2	48.958	4.8979	4.8934	47.149	4.9415	4.9701	5.0117
#3	50.109	4.9263	4.9776	49.242	4.9542	5.0540	4.9852
#4	49.029	4.8805	4.9128	47.659	4.9404	4.9593	4.8926
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	5.5000	5.5000	55.000	5.5000	5.5000	5.5000
Low	45.000	4.5000	4.5000	45.000	4.5000	4.5000	4.5000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.8863	5.0607	4.9553	4.7851	4.8399	9.8032	4.8808
SDev	.0806	.0590	.0925	.0593	.0402	.1633	.0342
%RSD	1.6490	1.1655	1.8658	1.2389	.83113	1.6657	.70086
#1	4.9473	4.9903	4.8595	4.7684	4.8235	9.6136	4.8600
#2	4.7681	5.0561	5.0807	4.7413	4.8181	9.8004	4.8685

#3	4.9235	5.1345	4.9283	4.8725	4.9001	10.012	4.9318
#4	4.9062	5.0620	4.9530	4.7584	4.8178	9.7865	4.8628

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.5000	5.5000	5.5000	5.5000	5.5000	11.000	5.5000
Low	4.5000	4.5000	4.5000	4.5000	4.5000	9.0000	4.5000

Elem ZN
Units ppm
Avge 4.9467
SDev .0287
%RSD .58112

#1 4.9166
#2 4.9498
#3 4.9847
#4 4.9358

Errors LC Pass
High 5.5000
Low 4.5000

Method: QUANMET Sample Name: CCB5

Operator: WTR

Run Time: 03/25/01 17:38:27

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00039	.01903	-.05268	.03357	.00372	.00364	.10706
SDev	.00183	.01971	.05224	.00003	.00145	.00140	.05278
%RSD	466.26	103.59	99.175	.10494	38.879	38.534	49.297
#1	-.00144	-.00629	-.07235	.03352	.00162	.00156	.02819
#2	.00294	.04093	-.01296	.03358	.00493	.00454	.13938
#3	.00004	.01633	-.11757	.03357	.00430	.00404	.12825
#4	.00003	.02516	-.00782	.03359	.00404	.00442	.13240
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.30000	.20000	.20000	.00500	5.0000
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00480	.00445	.00127	.00189	.04777	.02986	.00430
SDev	.00137	.00351	.00218	.00042	.01872	.42561	.00182
%RSD	28.560	78.908	171.13	22.272	39.184	1425.6	42.392
#1	H.00671	.00283	.00000	.00126	.02029	-.07464	.00162
#2	.00362	.00934	.00452	.00211	.06124	.45423	.00570
#3	.00484	.00445	.00000	.00210	.05190	.25803	.00494
#4	.00402	.00120	.00057	.00210	.05765	-.51820	.00494
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.05000	.01000	.02500	.10000	5.0000	.05000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.10959	.00382	.01618	.58786	-.00298	-.00226	-.00344
SDev	.05371	.00209	.00324	.28310	.00442	.05516	.00668
%RSD	49.006	54.569	19.995	48.158	148.41	2444.8	194.33
#1	.03219	.00110	.01456	.16441	-.00923	-.02347	-.00688
#2	.15548	.00545	.01457	.72644	.00091	.04258	-.00669
#3	.13082	.00328	.02104	.70437	-.00273	.04245	-.00677
#4	.11986	.00545	.01457	.75624	-.00087	-.07059	.00658
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	.01500	.04000	5.0000	.04000	.10000	.06000
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00271	.00901	.00413	.00433	.00345	.04245	.00378
SDev	.02551	.00898	.02822	.00188	.00171	.04440	.00236
%RSD	939.90	99.724	683.86	43.340	49.516	104.59	62.384
#1	-.02302	.00448	.04214	.00157	.00110	.04290	.00037
#2	.03353	.01650	-.00764	.00567	.00518	.10509	.00527

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#3	.01299	.01650	.00619	.00476	.00361	.01093	.00543
#4	-.01264	-.00145	-.02417	.00531	.00393	.01089	.00404

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.25000	.50000	.10000	.05000	.05000	.30000	.05000
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-.30000	-.05000

Elem ZN
Units ppm
Avge .00389
SDev .00181
%RSD 46.652

#1	.00161
#2	.00567
#3	.00330
#4	.00497

Errors	LC Pass
High	.02000
Low	-.02000

Method: QUANMET Sample Name: DXCWC

Operator: WTR

Run Time: 03/25/01 17:41:37

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00107	-.01674	-.05232	.00001	.00007	.00018	.01696
SDev	.00248	.01273	.03472	.00001	.00034	.00015	.00515
%RSD	231.79	76.055	66.360	66.991	510.69	80.671	30.388
#1	.00000	-.01139	-.08228	.00002	.00003	.00031	.01599
#2	-.00142	-.02026	-.02736	.00001	.00055	.00030	.02177
#3	-.00434	-.03254	-.08211	.00001	-.00016	.00006	.01013
#4	.00148	-.00276	-.01754	.00001	-.00016	.00005	.01995
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00117	.00407	.00057	.00105	.01059	.48621	.00105
SDev	.00157	.00205	.00284	.00080	.00181	.33448	.00062
%RSD	134.25	50.376	501.86	76.167	17.069	68.793	59.154
#1	.00037	.00122	.00000	.00126	.01311	.38599	.00178
#2	-.00002	.00447	.00452	.00210	.01023	.88073	.00086
#3	-.00228	.00448	-.00226	.00042	.00880	.08743	.00031
#4	-.00275	.00611	-.00000	.00042	.01023	.59071	.00124
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00479	-.00027	.00809	.03484	-.00482	.00247	-.00666
SDev	.01659	.00137	.00528	.00646	.00422	.03018	.01080
%RSD	346.02	513.68	65.306	18.556	87.550	1222.4	162.20
#1	-.01438	.00109	.00162	.03551	-.00203	-.02351	-.00661
#2	.01575	.00001	.00809	.04326	-.00559	-.02340	-.00672
#3	-.00342	-.00217	.01456	.02777	-.00119	.02365	-.01988
#4	.02123	.00001	.00809	.03280	-.01046	.03313	.00657
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00381	.00152	-.02422	.00053	-.00008	.03123	.00235
SDev	.03463	.00345	.01259	.00017	.00030	.06717	.00253
%RSD	908.10	226.98	51.964	32.897	382.97	215.13	107.79
#1	-.01278	-.00149	-.02422	.00043	.00016	-.01986	.00004
#2	.01798	.00453	-.00763	.00070	-.00016	-.01988	.00389

#3	-.04870	.00448	-.03810	.00034	-.00047	.12166	.00036
#4	.02824	-.00144	-.02693	.00066	.00016	.04299	.00510
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem ZN
Units ppm
Avge .00263
SDev .00202
%RSD 76.836

#1 .00328
#2 .00261
#3 -.00010
#4 .00472

Errors LC Pass
High 100.00
Low -.02000

Analysis Report

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03/25/01 05:47:53 PM

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Method: QUANMET Sample Name: DXCWL

Operator: WTR

Run Time: 03/25/01 17:44:47

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00154	1.0134	-.07317	.16873	.20846	.00020	269.50
SDev	.00248	.0078	.02384	.00172	.00111	.00007	.98
%RSD	161.51	.77428	32.582	1.0173	.53385	34.730	.36509
#1	-.00044	1.0124	-.08815	.17086	.20872	.00016	268.61
#2	-.00481	1.0073	-.03812	.16871	.20854	.00030	268.69
#3	.00101	1.0247	-.08826	.16870	.20694	.00016	270.26
#4	-.00190	1.0091	-.07814	.16666	.20962	.00017	270.44
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00026	.00634	.01144	.02842	11.437	32.082	.16373
SDev	.00282	.00278	.00187	.00118	.036	.480	.00048
%RSD	1077.0	43.786	16.327	4.1582	.31168	1.4960	.29533
#1	-.00061	.00919	.01356	.03009	11.412	32.749	.16344
#2	.00371	.00755	.01186	.02758	11.425	32.007	.16437
#3	-.00124	.00594	.01130	.02842	11.422	31.964	.16328
#4	-.00290	.00268	.00904	.02759	11.490	31.606	.16383
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	42.833	1.1037	.00312	348.48	.00467	.04508	.01657
SDev	.185	.0039	.00528	2.16	.01148	.00461	.02268
%RSD	.43248	.35462	169.46	.61876	245.94	10.234	136.88
#1	42.829	1.1007	.00958	347.95	.00719	.03816	.04637
#2	42.742	1.1018	.00311	349.29	-.00683	.04744	-.00688
#3	42.668	1.1029	.00311	345.80	.01955	.04740	.00687
#4	43.092	1.1094	-.00335	350.89	-.00125	.04731	.01993
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.02560	15.686	-.02977	2.4486	.02135	.08050	.00745
SDev	.06964	.056	.05380	.0123	.00151	.04089	.00293
%RSD	272.07	.35924	180.74	.50200	7.0527	50.792	39.278
#1	-.03850	15.634	-.02273	2.4442	.01994	.06118	.01006
#2	.06412	15.712	.04341	2.4518	.02057	.04531	.00500

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#3	-.10514	15.646	-.07543	2.4347	.02151	.07677	.00989
#4	-.02287	15.754	-.06432	2.4637	.02339	.13872	.00483

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.10680
SDev	.00163
%RSD	1.5306

#1	.10767
#2	.10532
#3	.10555
#4	.10867

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DXCWM

Operator: WTR

Run Time: 03/25/01 17:47:57

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00075	.02046	-.09977	.27433	.83440	.00007	113.07
SDev	.00653	.03003	.02892	.01069	.01290	.00012	1.31
%RSD	869.51	146.73	28.988	3.8985	1.5455	155.64	1.1587
#1	-.00007	.02177	-.08338	.26518	.82103	-.00008	112.93
#2	-.00874	-.01672	-.07317	.28349	.84758	.00005	111.27
#3	.00721	.05680	-.10382	.28369	.82594	.00017	114.01
#4	-.00141	.02001	-.13871	.26495	.84305	.00016	114.07
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00055	.00558	.00452	.00836	19.164	347.45	.06156
SDev	.00097	.00479	.00320	.00329	.144	7.80	.00138
%RSD	176.93	85.786	70.745	39.348	.75195	2.2436	2.2489
#1	.00013	.00071	.00226	.00416	19.018	339.42	.05975
#2	-.00040	.00395	.00226	.01002	19.093	355.27	.06198
#3	.00188	.00558	.00904	.00753	19.195	342.24	.06144
#4	.00060	.01208	.00452	.01173	19.351	352.88	.06307
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	48.270	.35016	.00413	S-.11931	.01013	.01475	-.00653
SDev	.542	.00424	.00002	.00000	.00662	.03115	.00005
%RSD	1.1224	1.2113	.45720	.00000	65.348	211.23	.72075
#1	47.651	.34849	.00411	S-.11931	.00415	-.00182	-.00658
#2	48.624	.34525	.00412	S-.11931	.00725	-.02055	-.00650
#3	47.991	.35180	.00413	S-.11931	.01947	.03590	-.00648
#4	48.813	.35510	.00415	S-.11931	.00965	.04547	-.00656
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01670	9.4501	-.00882	1.6003	-.00243	.17707	.00623
SDev	.06708	.0901	.02589	.0220	.00194	.10125	.00245
%RSD	401.79	.95325	293.64	1.3721	79.802	57.184	39.278
#1	-.01459	9.3320	-.01644	1.5765	-.00204	.17544	.00500
#2	-.11180	9.5174	-.03301	1.6195	-.00487	.31573	.00500

680 944

#3	.02187	9.4277	-.01366	1.5867	-.00016	.14124	.00502
#4	.03774	9.5234	.02784	1.6183	-.00267	.07586	.00991

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem ZN
Units ppm
Avge .01266
SDev .00060
%RSD 4.7552

#1 .01332
#2 .01189
#3 .01255
#4 .01287

Errors LC Pass
High 100.00
Low -.02000

Method: QUANMET Sample Name: DXCWP

Operator: WTR

Run Time: 03/25/01 17:51:06

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00238	-.00445	-.05890	.14530	.29679	.00002	264.29
SDev	.00086	.00370	.01929	.00112	.00189	.00012	1.82
%RSD	36.172	83.076	32.745	.76792	.63639	745.30	.69006
#1	-.00315	-.00958	-.04989	.14384	.29401	-.00008	261.98
#2	-.00310	-.00449	-.08511	.14647	.29820	.00005	263.69
#3	-.00164	-.00267	-.04031	.14513	.29739	-.00008	265.57
#4	-.00164	-.00106	-.06029	.14577	.29757	.00017	265.91
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00223	.00146	-.00184	.00130	25.375	27.277	.16003
SDev	.00247	.00205	.00125	.00081	.146	.422	.00154
%RSD	110.98	140.51	68.183	62.607	.57539	1.5465	.96460
#1	.00125	.00106	-.00227	.00065	25.166	26.744	.15773
#2	.00043	.00106	-.00000	.00067	25.382	27.213	.16067
#3	.00588	-.00058	-.00283	.00152	25.475	27.392	.16105
#4	.00135	.00431	-.00226	.00236	25.475	27.759	.16067
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	46.042	1.1359	.00170	290.43	-.00685	-.00397	-.00657
SDev	.275	.0070	.00837	1.63	.01155	.01335	.00007
%RSD	.59638	.61370	490.84	.56294	168.66	336.76	1.1271
#1	45.643	1.1261	-.00803	288.00	-.00861	.01492	-.00663
#2	46.123	1.1359	.00494	291.55	.00833	-.00398	-.00647
#3	46.271	1.1403	-.00152	291.19	-.01974	-.01348	-.00658
#4	46.134	1.1414	.01142	290.96	-.00737	-.01333	-.00662
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02719	14.081	-.03154	2.0117	-.01578	.05385	.00494
SDev	.04421	.103	.04296	.0106	.00040	.04942	.00021
%RSD	162.60	.73333	136.23	.52646	2.5041	91.767	4.2932
#1	.05602	13.930	.02305	1.9959	-.01586	.03738	.00469
#2	.01567	14.109	-.03223	2.0180	-.01617	.01836	.00502

#3	-.03020	14.121	-.08199	2.0171	-.01523	.03268	.00485
#4	.06725	14.163	-.03498	2.0159	-.01586	.12697	.00518

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.00821
SDev	.00085
%RSD	10.392

#1	.00854
#2	.00708
#3	.00815
#4	.00910

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DXCWQ

Operator: WTR

Run Time: 03/25/01 17:54:16

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00430	.25502	-.06992	.22165	.39488	-.00001	188.16
SDev	.00188	.00621	.05753	.00774	.00861	.00008	1.26
%RSD	43.658	2.4351	82.275	3.4931	2.1797	660.35	.66728

#1	-.00357	.25119	-.09484	.22615	.39381	-.00008	186.90
#2	-.00649	.24939	.00507	.22398	.39426	.00006	187.29
#3	-.00213	.25627	-.12981	.21015	.38527	.00005	189.48
#4	-.00500	.26325	-.06010	.22634	.40621	-.00008	188.97

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00140	.00017	-.00283	.00221	4.9663	41.804	.07590
SDev	.00490	.00281	.00284	.00108	.0456	.870	.00219
%RSD	350.52	1672.8	100.61	48.805	.91828	2.0801	2.8901

#1	.00601	.00260	-.00226	.00263	4.9456	41.492	.07494
#2	L-.00539	-.00225	-.00678	.00095	4.9507	40.989	.07494
#3	.00141	.00261	.00000	.00347	4.9349	41.706	.07456
#4	.00355	-.00229	-.00226	.00180	5.0340	43.028	.07918

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	48.038	2.1985	.00389	H468.48	.00249	-.01364	-.00654
SDev	.753	.0173	.00620	13.10	.00702	.03722	.01085
%RSD	1.5671	.78672	159.51	2.7970	281.55	272.90	165.73

#1	47.810	2.1847	-.00421	H466.08	.00361	-.02533	-.00652
#2	47.961	2.1934	.00227	H468.66	-.00699	-.02549	-.01982
#3	47.298	2.1923	.00873	H453.67	.00338	.04057	-.00660
#4	49.084	2.2238	.00875	H485.51	.00996	-.04431	.00675

Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00619	13.857	-.01531	1.8128	-.00871	.00573	.00376
SDev	.09046	.171	.02167	.0360	.00030	.09510	.00249
%RSD	1461.9	1.2333	141.57	1.9874	3.4502	1658.6	66.036

#1	-.13576	13.739	.00681	1.8056	-.00864	.00988	.00479
#2	.07454	13.840	-.04301	1.8110	-.00895	-.03724	.00004

#3	.02320	13.745	-.00425	1.7736	-.00832	.13586	.00512
#4	.01326	14.103	-.02077	1.8608	-.00895	-.08557	.00511

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.00908
SDev	.00135
%RSD	14.853

#1	.00796
#2	.00868
#3	.01104
#4	.00863

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DXE3EB

Operator: WTR

Run Time: 03/25/01 17:57:26

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B__	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00215	-.02017	-.07477	.00003	.00010	.00002	.01646
SDev	.00144	.01196	.05222	.00000	.00000	.00011	.00329
%RSD	67.033	59.307	69.844	8.2070	.00000	479.56	19.999
#1	-.00144	-.02539	-.11212	.00003	.00010	-.00006	.01627
#2	-.00144	-.00441	-.09234	.00004	.00010	-.00007	.01739
#3	-.00432	-.03243	-.09715	.00003	.00010	.00005	.01213
#4	-.00142	-.01844	.00254	.00003	.00010	.00017	.02004
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.30000	.20000	.20000	.00500	5.0000
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K__	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00216	.00284	.00056	.00168	.01957	.73785	.00099
SDev	.00252	.00133	.00284	.00084	.00059	.24647	.00071
%RSD	116.49	46.600	503.93	49.858	2.9987	33.405	71.373
#1	.00326	.00284	.00000	.00209	.01957	.64189	.00086
#2	.00092	.00122	-.00226	.00209	.01957	.49688	.00124
#3	-.00061	.00285	-.00000	.00042	.01885	.73572	.00010
#4	H.00509	.00446	.00452	.00210	.02029	1.0769	.00178
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.05000	.01000	.02500	.10000	5.0000	.05000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01164	.00001	.00162	.01829	-.00219	.00714	-.00664
SDev	.00475	.00000	.00000	.00557	.00454	.03556	.00006
%RSD	40.754	4.1781	.00474	30.450	207.69	498.14	.84967
#1	.01301	.00001	.00162	.02158	-.00257	.04244	-.00663
#2	.00479	.00001	.00162	.02042	.00207	-.02351	-.00658
#3	.01301	.00001	.00162	.00997	-.00837	-.02345	-.00672
#4	.01575	.00001	.00162	.02119	.00013	.03308	-.00663
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	.01500	.04000	5.0000	.04000	.10000	.06000
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V__
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.01789	.02245	-.00141	.00027	-.00031	-.00428	.00249
SDev	.03995	.00490	.01092	.00023	.00041	.01285	.00224
%RSD	223.30	21.845	775.99	85.379	129.10	300.37	89.920
#1	-.01789	.01644	-.01039	.00020	-.00016	-.00426	.00004
#2	-.07431	.02244	-.00486	.00011	.00016	.01147	.00126

680 950

#3	.01288	.02246	.01449	.00015	-.00079	-.02000	.00371
#4	.00776	.02845	-.00486	.00061	-.00047	-.00432	.00495

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.25000	.50000	.10000	.05000	.05000	.30000	.05000
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-.30000	-.05000

Elem	ZN
Units	ppm
Avge	.00599
SDev	.00081
%RSD	13.550

#1	.00665
#2	.00565
#3	.00501
#4	.00667

Errors	LC Pass
High	.02000
Low	-.02000

Method: QUANMET Sample Name: DXE3EC

Operator: WTR

Run Time: 03/25/01 18:00:36

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04665	1.8561	1.8687	.92368	1.8659	.04616	49.297
SDev	.00246	.0055	.0617	.01485	.0151	.00037	.328
%RSD	5.2782	.29829	3.3013	1.6080	.80863	.80826	.66574

#1	.04770	1.8568	1.8351	.91454	1.8460	.04562	48.810
#2	.04921	1.8531	1.8150	.91827	1.8752	.04633	49.524
#3	.04342	1.8510	1.9547	.94584	1.8797	.04646	49.407
#4	.04629	1.8636	1.8699	.91607	1.8625	.04622	49.447

Errors	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass
High	.06000	2.4000	2.4000		2.4000	.06000	60.000
Low	.04000	1.6000	1.6000		1.6000	.04000	40.000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04934	.47799	.19004	.23234	1.0160	46.885	.92325
SDev	.00577	.00654	.00028	.00220	.0086	.449	.00685
%RSD	11.693	1.3675	.14702	.94889	.84647	.95700	.74151

#1	.04418	.46868	.18990	.22920	1.0037	46.235	.91485
#2	.05721	.47837	.19046	.23422	1.0181	46.969	.92587
#3	.04603	.48327	.18991	.23339	1.0239	47.088	.93096
#4	.04993	.48165	.18990	.23255	1.0181	47.250	.92132

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	.06000	.60000	.24000	.30000	1.2000	60.000	
Low	.04000	.40000	.16000	.20000	.80000	40.000	

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	48.286	.47736	.96099	46.929	.47776	.46982	.44610
SDev	.360	.00325	.01702	.380	.00895	.02794	.06627
%RSD	.74590	.68067	1.7709	.80942	1.8744	5.9470	14.856

#1	47.764	.47327	.94643	46.467	.47361	.44126	.41302
#2	48.561	.48089	.95290	47.057	.48777	.45095	.41304
#3	48.482	.47872	.98525	47.368	.48212	.48874	.41282
#4	48.336	.47654	.95937	46.824	.46755	.49831	.54550

Errors	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High	60.000	.60000		60.000	.60000	.60000	.60000
Low	40.000	.40000		40.000	.40000	.40000	.40000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9188	9.6975	1.8504	.91970	.93695	1.8343	.48122
SDev	.0425	.0452	.0367	.00684	.00671	.0565	.00497
%RSD	2.2142	.46567	1.9816	.74396	.71588	3.0785	1.0326

#1	1.9444	9.6301	1.8212	.91047	.92714	1.8464	.47473
#2	1.8778	9.7199	1.8848	.92323	.94127	1.7989	.48469

680 952

#3	1.8881	9.7259	1.8792	.92619	.94127	1.9088	.48550
#4	1.9650	9.7139	1.8162	.91890	.93813	1.7831	.47995

Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High	2.4000					2.4000	.60000
Low	1.6000					1.6000	.40000

Elem	ZN
Units	ppm
Avge	.47844
SDev	.00460
%RSD	.96201

#1	.47358
#2	.48468
#3	.47755
#4	.47797

Errors	LC Pass
High	.60000
Low	.40000

Method: QUANMET Sample Name: DXDX4

Operator: WTR

Run Time: 03/25/01 18:03:46

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00105	.00244	-.07999	.05958	.01054	.00011	72.787
SDev	.00182	.00615	.05068	.00001	.00000	.00007	.295
%RSD	173.46	251.98	63.350	.01110	.00000	66.024	.40535

#1	-.00141	.00229	-.01761	.05958	.01054	.00017	72.433
#2	.00148	.01113	-.13247	.05958	.01054	.00005	72.798
#3	-.00286	-.00272	-.06248	.05959	.01054	.00005	72.761
#4	-.00141	-.00094	-.10741	.05957	.01054	.00017	73.155

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00168	-.00041	-.00169	.00648	.02817	2.0429	.00101
SDev	.00241	.00230	.00113	.00042	.00102	.1905	.00064
%RSD	143.60	560.87	66.577	6.4490	3.6049	9.3263	63.710

#1	-.00011	-.00203	-.00226	.00627	.02746	2.2285	.00124
#2	.00449	-.00042	-.00226	.00711	.02818	1.8702	.00069
#3	.00288	-.00204	-.00000	.00627	.02961	1.8873	.00031
#4	-.00053	.00285	-.00226	.00628	.02745	2.1858	.00178

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.6945	.00028	.00971	3.7745	.00460	-.02357	-.00660
SDev	.0168	.00054	.00971	.0381	.00212	.00007	.00007
%RSD	.99119	192.89	99.961	1.0100	45.996	.28514	1.1275

#1	1.6788	.00001	.02103	3.7417	.00377	-.02362	-.00666
#2	1.6815	.00110	.01456	3.7649	.00632	-.02357	-.00667
#3	1.7116	.00001	.00162	3.8296	.00632	-.02361	-.00655
#4	1.7062	.00001	.00162	3.7619	.00199	-.02347	-.00652

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01658	2.5188	-.00139	.29949	-.00432	.04670	.00514
SDev	.04258	.0060	.02098	.00228	.00054	.08741	.00024
%RSD	256.81	.23738	1508.6	.75957	12.421	187.19	4.7405

#1	-.07428	2.5098	-.01314	.29778	-.00424	.07423	.00542
#2	.01804	2.5218	.02833	.29823	-.00361	-.05156	.00526

680 954

#3	.01292	2.5218	-.00208	.30279	-.00455	.01131	.00494
#4	-.02299	2.5218	-.01867	.29915	-.00487	.15280	.00493
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem ZN
Units ppm
Avge .11889
SDev .00248
%RSD 2.0850

#1 .11569
#2 .12005
#3 .11836
#4 .12145

Errors LC Pass
High 100.00
Low -.02000

Method: QUANMET Sample Name: DXDX4P5

Operator: WTR

Run Time: 03/25/01 18:06:56

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00038	-.01539	-.06358	.01767	.00229	.00005	15.163
SDev	.00071	.00950	.03508	.02046	.00026	.00001	.059
%RSD	184.86	61.702	55.173	115.78	11.217	15.185	.38620

#1	.00003	-.00969	-.01249	-.00000	.00207	.00005	15.119
#2	.00003	-.00794	-.07738	.03720	.00207	.00005	15.245
#3	.00145	-.02890	-.09211	.03349	.00252	.00006	15.121
#4	.00003	-.01503	-.07234	.00000	.00252	.00005	15.165

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00043	.00285	.00113	-.00125	.00431	.76557	.00091
SDev	.00122	.00133	.00131	.00000	.00108	.28839	.00087
%RSD	285.43	46.556	115.70	.09685	25.010	37.669	95.771

#1	-.00013	.00448	-.00000	-.00125	.00377	.67601	.00031
#2	.00034	.00285	-.00000	-.00125	.00305	.78690	.00216
#3	-.00222	.00123	.00226	-.00125	.00520	.45423	.00086
#4	.00031	.00285	.00226	-.00125	.00520	1.1452	.00031

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.36575	.00000	.00324	.79321	-.00306	-.02345	-.00662
SDev	.01680	.00000	.00324	.02444	.00375	.00003	.00005
%RSD	4.5922	49.404	99.985	3.0815	122.57	.14150	.71095

#1	.37740	.00000	.00162	.76785	-.00559	-.02341	-.00663
#2	.35000	.00000	.00162	.78256	-.00110	-.02346	-.00656
#3	.35274	.00000	.00162	.82514	-.00675	-.02349	-.00664
#4	.38288	.00000	.00809	.79727	.00122	-.02345	-.00667

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00130	.48435	-.01869	.06073	-.00086	.03526	.00376
SDev	.01349	.02984	.02165	.00042	.00016	.05813	.00248
%RSD	1041.0	6.1600	115.87	.69739	18.182	164.87	65.891

#1	-.01281	.44102	-.01316	.06013	-.00079	.01166	.00494
#2	.01283	.50679	-.02975	.06082	-.00079	.12174	.00494

#3	.01284	.50076	-.04081	.06114	-.00110	-.00402	.00005
#4	-.00768	.48885	.00896	.06082	-.00079	.01165	.00511

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.02561
SDev	.00089
%RSD	3.4937

#1	.02527
#2	.02595
#3	.02456
#4	.02664

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DXDX4S

Operator: WTR

Run Time: 03/25/01 18:10:05

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04515	1.8346	1.8017	.93352	1.8037	.04475	121.37
SDev	.00179	.0149	.0336	.02499	.0154	.00025	.79
%RSD	3.9606	.81461	1.8629	2.6766	.85400	.55844	.65235

#1	.04477	1.8150	1.8505	.91080	1.7959	.04463	120.50
#2	.04764	1.8361	1.7756	.95481	1.7915	.04453	121.24
#3	.04478	1.8359	1.7954	.91299	1.8015	.04476	121.31
#4	.04339	1.8514	1.7851	.95548	1.8260	.04510	122.42

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05079	.46385	.18651	.22752	.99449	47.875	.89554
SDev	.00373	.00564	.00292	.00205	.00900	.317	.00688
%RSD	7.3519	1.2158	1.5651	.90205	.90479	.66147	.76823

#1	.04829	.46549	.18763	.22752	.98784	48.103	.89264
#2	.05630	.45571	.18311	.22500	.98856	47.489	.89011
#3	.04871	.46874	.18990	.22752	.99431	47.745	.89381
#4	.04988	.46545	.18538	.23003	1.0073	48.163	.90559

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	48.886	.46267	.93349	49.404	.46993	.50943	.44943
SDev	.393	.00286	.01181	.428	.02299	.00919	.07280
%RSD	.80488	.61893	1.2656	.86601	4.8927	1.8038	16.198

#1	48.621	.46131	.92701	49.194	.45920	.51673	.55863
#2	48.591	.46022	.92054	48.979	.44801	.49737	.41281
#3	48.890	.46240	.93996	49.472	.47114	.50717	.41301
#4	49.440	.46675	.94643	49.970	.50138	.51647	.41328

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.8611	11.974	1.8878	1.1801	.90265	1.8662	.47072
SDev	.0813	.083	.0420	.0096	.00621	.0391	.00642
%RSD	4.3664	.69119	2.2226	.81306	.68819	2.0970	1.3645

#1	1.7905	11.890	1.9408	1.1743	.89825	1.8466	.46934
#2	1.7956	11.926	1.9015	1.1731	.89919	1.8467	.46427

#3	1.9547	12.004	1.8490	1.1789	.90139	1.8465	.46967
#4	1.9034	12.076	1.8600	1.1940	.91175	1.9249	.47962
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem ZN
Units ppm
Avge .58094
SDev .00345
%RSD .59365

#1 .57591
#2 .58169
#3 .58361
#4 .58256

Errors LC Pass
High 100.00
Low -.02000

Method: QUANMET Sample Name: CCV2-6

Operator: WTR

Run Time: 03/25/01 18:13:15

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.99128	48.374	4.9044	4.8218	4.7037	4.7423	50.638
SDev	.00676	.318	.0791	.0285	.0320	.0330	.312
%RSD	.68185	.65715	1.6126	.59123	.68023	.69630	.61702

#1	.98153	47.939	4.8155	4.7813	4.6621	4.6961	50.179
#2	.99506	48.491	4.8642	4.8420	4.7164	4.7583	50.863
#3	.99650	48.691	4.9474	4.8224	4.7377	4.7720	50.797
#4	.99202	48.377	4.9904	4.8416	4.6987	4.7427	50.715

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	55.000	5.5000	5.5000	5.5000	5.5000	55.000
Low	.90000	45.000	4.5000	4.5000	4.5000	4.5000	45.000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.0674	4.9082	4.9200	4.6973	50.599	46.988	4.6407
SDev	.0628	.0331	.0309	.0353	.321	.379	.0339
%RSD	1.2402	.67395	.62725	.75197	.63372	.80566	.73067

#1	4.9773	4.8589	4.8785	4.6501	50.150	46.772	4.5972
#2	5.0960	4.9219	4.9418	4.7105	50.800	46.747	4.6585
#3	5.1208	4.9300	4.9452	4.7339	50.857	47.549	4.6749
#4	5.0755	4.9220	4.9147	4.6946	50.587	46.883	4.6323

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.5000	5.5000	5.5000	5.5000	55.000	55.000	5.5000
Low	4.5000	4.5000	4.5000	4.5000	45.000	45.000	4.5000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	48.617	4.8821	4.9241	46.659	4.9065	4.9833	4.8755
SDev	.359	.0301	.0323	.359	.0643	.0624	.0329
%RSD	.73781	.61609	.65650	.76903	1.3115	1.2521	.67476

#1	48.095	4.8401	4.8804	46.195	4.8163	4.8928	4.8785
#2	48.851	4.9034	4.9258	46.793	4.9260	5.0070	4.8655
#3	48.854	4.9045	4.9322	47.046	4.9155	4.9978	4.9185
#4	48.668	4.8805	4.9581	46.604	4.9683	5.0354	4.8396

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	5.5000	5.5000	55.000	5.5000	5.5000	5.5000
Low	45.000	4.5000	4.5000	45.000	4.5000	4.5000	4.5000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.8302	5.0036	4.9344	4.7093	4.7864	9.7690	4.8506
SDev	.1039	.0437	.0851	.0314	.0306	.0843	.0293
%RSD	2.1514	.87411	1.7250	.66764	.63880	.86283	.60485

#1	4.8223	4.9598	4.8398	4.6673	4.7443	9.6704	4.8081
#2	4.8141	5.0083	5.0414	4.7228	4.8059	9.7382	4.8718

#3	4.9682	5.0621	4.9531	4.7410	4.8119	9.8002	4.8683
#4	4.7160	4.9842	4.9031	4.7060	4.7836	9.8673	4.8542
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.5000	5.5000	5.5000	5.5000	5.5000	11.000	5.5000
Low	4.5000	4.5000	4.5000	4.5000	4.5000	9.0000	4.5000

Elem ZN
Units ppm
Avge 4.9263
SDev .0318
%RSD .64598

#1 4.8795
#2 4.9348
#3 4.9496
#4 4.9414

Errors LC Pass
High 5.5000
Low 4.5000

Method: QUANMET Sample Name: CCB6

Operator: WTR

Run Time: 03/25/01 18:16:25

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00107	.00022	-.08117	.03725	.00240	.00237	.04093
SDev	.00343	.02809	.04660	.00306	.00209	.00174	.03818
%RSD	320.53	12889.	57.411	8.2047	86.694	73.527	93.291

#1	-.00579	-.03438	-.04216	.03720	.00010	.00031	-.00291
#2	-.00144	-.00979	-.09228	.03351	.00118	.00156	.02172
#3	.00146	.01639	-.14244	.03729	.00404	.00355	.06554
#4	.00149	.02866	-.04778	.04100	.00430	.00404	.07936

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.30000	.20000	.20000	.00500	5.0000
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00301	.00365	.00156	.00042	.02856	-.18126	.00313
SDev	.00361	.00093	.00213	.00282	.02261	.43809	.00238
%RSD	119.83	25.368	136.71	663.14	79.175	241.69	75.905

#1	.00117	.00285	.00001	-.00042	.00090	.07037	.00048
#2	-.00113	.00285	.00000	-.00125	.01958	-.39878	.00178
#3	H.00659	.00445	.00170	-.00124	.04975	-.68027	.00494
#4	H.00542	.00445	.00452	.00461	.04400	.28362	.00532

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.05000	.01000	.02500	.10000	5.0000	.05000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01849	.00327	.01780	.04587	-.00424	-.02345	-.00677
SDev	.02367	.00267	.00374	.02957	.00336	.00001	.00005
%RSD	128.01	81.450	20.987	64.458	79.213	.04416	.68208

#1	.00753	.00109	.02103	.01461	-.00837	-.02344	-.00681
#2	-.00342	.00110	.01456	.02700	-.00536	-.02346	-.00677
#3	.01849	.00437	.02104	.06687	-.00072	-.02344	-.00670
#4	.05137	.00654	.01456	.07500	-.00250	-.02344	-.00679

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	.01500	.04000	5.0000	.04000	.10000	.06000
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.04863	-.01942	-.00487	.00243	.00220	.05849	.00168
SDev	.01331	.03718	.02269	.00195	.00238	.06636	.00240
%RSD	27.362	191.46	465.69	80.202	108.48	113.46	143.12

#1	-.06411	-.04933	-.00763	-.00002	-.00079	-.03541	.00053
#2	-.05379	-.03737	.00619	.00180	.00141	.05863	.00037

680 962

#3	-.04344	.03438	-.03529	.00362	.00361	.10534	.00053
#4	-.03320	-.02535	.01724	.00431	.00455	.10540	.00527

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.25000	.50000	.10000	.05000	.05000	.30000	.05000
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-.30000	-.05000

Elem	ZN
Units	ppm
Avge	.00364
SDev	.00241
%RSD	66.098

#1	.00162
#2	.00161
#3	.00636
#4	.00497

Errors	LC Pass
High	.02000
Low	-.02000

Method: QUANMET Sample Name: DXDX4D

Operator: WTR

Run Time: 03/25/01 18:19:35

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04807	1.8654	1.8500	.96816	1.8195	.04511	124.79
SDev	.00321	.0038	.0691	.00328	.0083	.00018	.60
%RSD	6.6817	.20146	3.7352	.33911	.45542	.39362	.48158
#1	.04336	1.8602	1.8850	.97188	1.8318	.04524	123.98
#2	.04915	1.8654	1.8600	.96968	1.8139	.04487	124.68
#3	.05060	1.8671	1.9049	.96663	1.8169	.04524	125.30
#4	.04918	1.8689	1.7500	.96444	1.8153	.04510	125.18
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05248	.47358	.18821	.22983	1.0101	48.218	.90130
SDev	.00314	.00297	.00113	.00143	.0027	.387	.00776
%RSD	5.9811	.62767	.59927	.62008	.26649	.80195	.86063
#1	.04806	.47033	.18764	.23171	1.0094	48.675	.91199
#2	.05313	.47684	.18764	.22920	1.0073	47.830	.90028
#3	.05326	.47520	.18764	.22837	1.0137	47.975	.89343
#4	.05548	.47194	.18990	.23003	1.0102	48.393	.89950
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	49.458	.46839	.95613	49.872	.47890	.49321	.44280
SDev	.155	.00188	.00374	.289	.00553	.02704	.05978
%RSD	.31298	.40181	.39071	.58030	1.1542	5.4825	13.502
#1	49.679	.47002	.95290	50.300	.47222	.51660	.41280
#2	49.325	.46567	.95937	49.757	.47868	.46991	.53247
#3	49.440	.46893	.95937	49.661	.47895	.46967	.41292
#4	49.386	.46893	.95290	49.771	.48575	.51665	.41299
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.8791	12.123	1.8739	1.1966	.91262	1.9287	.47589
SDev	.0909	.033	.0740	.0041	.00167	.1690	.00266
%RSD	4.8383	.27017	3.9479	.33922	.18288	8.7640	.55813
#1	1.7906	12.106	1.9346	1.2025	.91301	2.0664	.47489
#2	1.9650	12.088	1.7665	1.1934	.91018	1.8619	.47505

#3	1.8111	12.159	1.8904	1.1957	.91395	2.0662	.47383
#4	1.9496	12.141	1.9042	1.1948	.91332	1.7204	.47979
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem ZN
Units ppm
Avge .59106
SDev .00358
%RSD .60615

#1 .59206
#2 .58599
#3 .59175
#4 .59443

Errors LC Pass
High 100.00
Low -.02000

Method: QUANMET Sample Name: DXD0A

Operator: WTR

Run Time: 03/25/01 18:22:45

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00033	.14248	-.06368	.13488	.03224	-.00000	79.896
SDev	.00183	.01184	.05276	.00182	.00039	.00006	.241
%RSD	554.43	8.3134	82.840	1.3480	1.2222	3980.0	.30220
#1	-.00289	.12843	-.01359	.13636	.03255	-.00005	79.576
#2	.00006	.13892	-.11864	.13264	.03237	.00005	79.927
#3	.00003	.15657	-.09873	.13417	.03237	.00006	80.162
#4	.00148	.14598	-.02378	.13636	.03166	-.00006	79.919
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00043	.00121	-.00098	.00775	.12478	7.0096	.00120
SDev	.00185	.00230	.00237	.00143	.00238	.4376	.00103
%RSD	431.99	190.87	240.41	18.442	1.9110	6.2435	85.633
#1	-.00014	-.00205	-.00451	.00628	.12154	6.4764	-.00023
#2	-.00202	.00284	.00057	.00712	.12514	7.0650	.00124
#3	.00207	.00282	.00000	.00796	.12730	7.5427	.00162
#4	-.00162	.00121	.00000	.00963	.12514	6.9541	.00216
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	21.124	.00438	.01457	208.41	-.00625	-.01423	-.00672
SDev	.214	.00000	.00528	3.49	.00510	.01092	.00007
%RSD	1.0122	.02991	36.246	1.6760	81.643	76.753	1.0170
#1	21.380	.00438	.02104	212.54	-.00567	-.02373	-.00677
#2	21.194	.00438	.01457	209.61	-.01255	-.00476	-.00672
#3	21.043	.00438	.00810	207.15	-.00010	-.00478	-.00662
#4	20.879	.00438	.01457	204.35	-.00667	-.02364	-.00675
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02732	2.8640	-.02282	.41556	-.00236	.07669	.00067
SDev	.04196	.0383	.01697	.00530	.00081	.02685	.00347
%RSD	153.59	1.3356	74.376	1.2753	34.427	35.014	515.92
#1	-.02270	2.8864	-.01037	.42143	-.00330	.08859	-.00315
#2	.02860	2.8925	-.04632	.41755	-.00267	.10415	.00527

#3	.02348	2.8685	-.02420	.41436	-.00141	.07271	.00020
#4	.07989	2.8087	-.01037	.40889	-.00204	.04131	.00037

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem ZN
Units ppm
Avge .01535
SDev .00183
%RSD 11.917

#1 .01576
#2 .01750
#3 .01505
#4 .01308

Errors LC Pass
High 100.00
Low -.02000

Method: QUANMET Sample Name: DXD0F

Operator: WTR

Run Time: 03/25/01 18:25:55

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00170	.01609	-.04358	.05845	.00907	.00005	151.88
SDev	.00145	.00957	.04511	.02064	.00039	.00001	.76
%RSD	85.749	59.462	103.53	35.305	4.3449	19.077	.50018

#1	-.00095	.02426	-.03496	.07738	.00894	.00004	150.82
#2	-.00098	.02274	-.10973	.03951	.00875	.00006	151.84
#3	-.00097	.01389	-.01486	.07520	.00894	.00005	152.52
#4	-.00388	.00348	-.01475	.04172	.00964	.00006	152.33

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00132	.00245	-.00111	.01088	2.0273	3.6445	.00143
SDev	.00059	.00081	.00292	.00080	.0047	.3813	.00085
%RSD	44.436	33.289	263.88	7.3553	.23408	10.462	59.385

#1	.00168	.00122	.00229	.01067	2.0247	3.8492	.00216
#2	.00160	.00285	.00002	.01151	2.0219	3.6103	.00069
#3	.00154	.00285	-.00224	.01151	2.0319	3.9942	.00216
#4	.00044	.00286	-.00450	.00984	2.0305	3.1241	.00069

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	7.3575	.01388	.07791	9.8571	-.00110	.02053	-.00708
SDev	.0413	.00055	.00619	.0715	.00218	.03113	.00004
%RSD	.56175	3.9245	7.9514	.72515	197.79	151.59	.62309

#1	7.3692	.01361	.08600	9.9325	.00129	-.02422	-.00712
#2	7.3171	.01360	.07306	9.8006	-.00381	.04172	-.00712
#3	7.3336	.01469	.07953	9.7916	-.00018	.02290	-.00706
#4	7.4103	.01360	.07306	9.9035	-.00172	.04173	-.00703

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00253	2.3229	-.00460	.55787	-.00864	.00405	.00349
SDev	.05252	.0075	.00984	.00245	.00044	.12147	.00247
%RSD	2079.9	.32423	214.05	.43895	5.1426	2999.5	70.791

#1	.06535	2.3245	-.01013	.55920	-.00864	.07482	.00707
#2	.00892	2.3124	.00923	.55510	-.00832	.04345	.00184

#3	-.06285	2.3304	-.01289	.55666	-.00832	.07473	.00323
#4	-.00131	2.3244	-.00459	.56053	-.00926	-.17680	.00183

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.00488
SDev	.00079
%RSD	16.235

#1	.00380
#2	.00548
#3	.00547
#4	.00478

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DXD0H

Operator: WTR

Run Time: 03/25/01 18:29:05

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00102	.14688	-.08892	.54472	.02473	-.00001	131.45
SDev	.00249	.01126	.03983	.02928	.00051	.00007	.57
%RSD	243.63	7.6687	44.797	5.3747	2.0561	566.24	.43695
#1	.00007	.14941	-.06900	.52251	.02435	.00005	131.56
#2	-.00430	.13737	-.14866	.55598	.02479	-.00006	130.74
#3	.00152	.16176	-.06909	.51944	.02435	.00005	132.13
#4	-.00138	.13898	-.06891	.58094	.02542	-.00008	131.37
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00265	-.00124	-.00099	.00108	.29570	28.770	.00514
SDev	.00405	.00282	.00286	.00597	.00224	.346	.00077
%RSD	152.70	228.21	289.14	554.53	.75569	1.2018	15.049
#1	.00826	-.00206	-.00169	.00045	.29606	28.441	.00587
#2	.00289	-.00205	-.00452	-.00708	.29247	28.501	.00423
#3	.00029	.00284	.00226	.00630	.29750	29.081	.00478
#4	-.00083	-.00367	-.00000	.00463	.29678	29.056	.00570
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	50.327	.13566	.00813	H402.73	-.00091	-.00963	.00663
SDev	.544	.00137	.00528	9.59	.00412	.02237	.01874
%RSD	1.0810	1.0068	65.011	2.3807	454.50	232.22	282.51
#1	49.838	.13376	.01460	395.19	.00361	.02327	-.00670
#2	50.739	.13701	.00166	H410.42	-.00327	-.02379	-.00656
#3	49.879	.13593	.00813	393.72	.00138	-.02364	.00666
#4	50.854	.13593	.00813	H411.60	-.00534	-.01436	.03313
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.03427	14.304	-.02066	.85644	-.00447	.11798	.00388
SDev	.04756	.091	.02960	.01406	.00054	.06670	.00256
%RSD	138.79	.63711	143.28	1.6418	11.985	56.533	66.140
#1	.08043	14.229	.02283	.84516	-.00424	.18085	.00526
#2	.07016	14.343	-.03799	.86739	-.00518	.13380	.00003

#3	-.00676	14.229	-.02688	.84347	-.00393	.13364	.00511
#4	-.00676	14.414	-.04059	.86976	-.00455	.02365	.00510

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem ZN
Units ppm
Avge .01206
SDev .00070
%RSD 5.7898

#1 .01171
#2 .01174
#3 .01169
#4 .01311

Errors LC Pass
High 100.00
Low -.02000

Method: QUANMET Sample Name: DXDOM

Operator: WTR

Run Time: 03/25/01 18:32:15

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00158	.21443	-.05206	1.4487	.00951	.00005	132.02
SDev	.00084	.00549	.03360	.0298	.00021	.00010	.68
%RSD	53.056	2.5615	64.542	2.0559	2.2380	174.64	.51564
#1	-.00229	.20917	-.01210	1.4338	.00946	.00005	131.32
#2	-.00084	.22135	-.04216	1.4338	.00938	.00017	131.55
#3	-.00231	.21622	-.09198	1.4339	.00983	-.00006	132.55
#4	-.00086	.21099	-.06199	1.4934	.00938	.00006	132.65
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00098	.00163	.00113	.00112	2.6368	50.543	.04674
SDev	.00360	.00277	.00130	.00048	.0216	.765	.00168
%RSD	367.22	169.97	115.76	43.021	.82088	1.5128	3.5867
#1	-.00222	.00123	-.00000	.00154	2.6122	49.809	.04549
#2	.00381	.00284	.00226	.00071	2.6252	50.338	.04642
#3	-.00477	-.00202	-.00000	.00070	2.6532	50.406	.04587
#4	-.00074	.00448	.00226	.00155	2.6568	51.618	.04919
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	119.89	.10014	-.00289	S-.11931	.00773	.05313	-.00644
SDev	1.29	.00141	.00323	.00000	.00871	.05008	.00012
%RSD	1.0725	1.4061	111.91	.00000	112.64	94.259	1.8547
#1	118.28	.09850	-.00451	S-.11931	.00330	.11667	-.00654
#2	119.52	.09959	.00196	S-.11931	.01784	.05081	-.00631
#3	120.56	.10177	-.00451	S-.11931	.01158	-.00582	-.00638
#4	121.22	.10069	-.00450	S-.11931	-.00180	.05085	-.00655
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00188	H28.763	-.04187	.55287	-.00424	.08943	.00238
SDev	.02147	.282	.03390	.00718	.00044	.10754	.00287
%RSD	1143.6	.97926	80.974	1.2994	10.476	120.25	120.91
#1	.00052	H28.459	.00099	.54439	-.00455	.05049	.00478
#2	.03133	H28.603	-.07643	.54963	-.00424	-.04406	.00495

#3	-.00448	H28.914	-.05984	.55734	-.00455	.15999	-.00011
#4	-.01986	H29.075	-.03219	.56011	-.00361	.19132	-.00011

Errors	LC Pass	LC High	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.00529
SDev	.00114
%RSD	21.534

#1	.00685
#2	.00443
#3	.00542
#4	.00446

Errors	LC Pass
High	100.00
Low	-.02000

Analysis Report

680 973

03/25/01 06:38:32 PM

page 1

Method: QUANMET Sample Name: DXD00

Operator: WTR

Run Time: 03/25/01 18:35:25

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00111	.28806	-.02153	.89952	.02116	-.00001	102.07
SDev	.00244	.00826	.04697	.00179	.00027	.00007	.25
%RSD	220.67	2.8658	218.14	.19886	1.2649	1251.0	.24922

#1	-.00005	.28288	.02355	.89976	.02141	-.00006	101.80
#2	.00142	.30039	-.02158	.89829	.02123	.00006	101.92
#3	-.00431	.28449	-.00178	.89808	.02123	-.00008	102.34
#4	-.00148	.28448	-.08631	.90196	.02078	.00006	102.22

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00049	.04108	.00452	.00011	19.885	28.985	.03369
SDev	.00421	.00281	.00261	.00118	.119	.311	.00086
%RSD	850.51	6.8314	57.760	1047.2	.59862	1.0728	2.5658

#1	-.00308	.03865	.00226	-.00073	19.808	28.569	.03346
#2	.00308	.04351	.00678	.00011	19.848	29.056	.03292
#3	L-.00506	.03865	.00226	-.00071	20.062	29.320	.03493
#4	.00308	.04351	.00678	.00178	19.822	28.996	.03346

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	114.71	1.1144	.00260	S-.11931	.10692	.02949	-.00539
SDev	.98	.0040	.00620	.00000	.01248	.03298	.00009
%RSD	.85810	.36342	238.04	.00000	11.677	111.83	1.6784

#1	113.99	1.1116	-.00226	S-.11931	.08900	-.01998	-.00548
#2	114.58	1.1127	-.00225	S-.11931	.11576	.04604	-.00527
#3	116.14	1.1204	.00424	S-.11931	.10779	.04583	-.00543
#4	114.13	1.1127	.01068	S-.11931	.11514	.04606	-.00540

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.06572	H24.506	-.06127	1.1059	-.00149	.05184	.00191
SDev	.05437	.141	.02341	.0128	.00065	.08466	.00217
%RSD	82.729	.57451	38.206	1.1598	43.401	163.31	113.59

#1	.00328	H24.394	-.08547	1.0985	-.00141	-.03735	-.00005
#2	-.06327	H24.477	-.07441	1.1028	-.00079	.04060	.00118

#3	-.12928	H24.710	-.03290	1.1248	-.00236	.03734	.00501
#4	-.07361	H24.441	-.05229	1.0975	-.00141	.16677	.00151

Errors	LC Pass	LC High	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.02219
SDev	.00276
%RSD	12.429

#1	.01905
#2	.02234
#3	.02575
#4	.02164

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DXD35

Operator: WTR

Run Time: 03/25/01 18:38:35

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00086	.49567	-.07001	.13677	.02097	.00005	119.42
SDev	.00182	.00900	.03303	.00111	.00000	.00010	.29
%RSD	212.90	1.8155	47.183	.80761	.00000	219.22	.24561

#1	.00168	.50476	-.10253	.13737	.02097	.00005	119.22
#2	-.00122	.49442	-.09245	.13583	.02097	.00005	119.15
#3	-.00122	.49975	-.05257	.13802	.02097	.00017	119.80
#4	-.00266	.48375	-.03249	.13585	.02097	-.00008	119.49

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00151	.00446	-.00014	.00617	.95790	2.0046	.00185
SDev	.00282	.00133	.00321	.00143	.00364	.3886	.00042
%RSD	186.20	29.853	2259.0	23.136	.37981	19.384	22.448

#1	.00324	.00445	-.00056	.00471	.95897	1.9214	.00200
#2	-.00168	.00609	.00226	.00554	.95466	2.3735	.00216
#3	.00444	.00445	.00226	.00805	.95538	2.2285	.00124
#4	.00006	.00283	-.00452	.00638	.96256	1.4949	.00200

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	17.749	.09018	.00660	80.967	.00523	-.02401	.02331
SDev	.095	.00104	.00971	.717	.00882	.01340	.05966
%RSD	.53787	1.1553	147.15	.88512	168.76	55.807	255.99

#1	17.813	.08936	.01468	81.402	.00671	-.02406	-.00657
#2	17.797	.08936	.00174	81.149	.01684	-.03342	-.00641
#3	17.608	.09044	-.00473	79.907	.00103	-.00504	.11280
#4	17.780	.09154	.01468	81.408	-.00366	-.03352	-.00660

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01199	3.9254	-.03297	.60625	.00039	.03669	.00506
SDev	.09111	.0209	.00991	.00364	.00030	.05525	.00024
%RSD	760.12	.53313	30.043	.60124	76.594	150.60	4.7267

#1	.05174	3.9508	-.02411	.60857	.00047	-.01836	.00527
#2	-.08675	3.9149	-.02687	.60720	.00016	.09175	.00494

#3	.11840	3.9329	-.03467	.60086	.00079	.07604	.00478
#4	-.03544	3.9030	-.04623	.60838	.00016	-.00267	.00526

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.00353
SDev	.00042
%RSD	11.908

#1	.00319
#2	.00315
#3	.00388
#4	.00391

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DXD4A

Operator: WTR

Run Time: 03/25/01 18:41:46

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00262	.01958	-.06524	.11583	.05108	.00011	79.914
SDev	.00072	.00299	.00647	.00457	.00036	.00007	.480
%RSD	27.700	15.256	9.9149	3.9451	.71218	66.358	.60089
#1	-.00298	.01834	-.06273	.11769	.05063	.00017	79.580
#2	-.00153	.01994	-.06774	.11243	.05108	.00005	79.550
#3	-.00298	.01650	-.05772	.12141	.05108	.00017	79.943
#4	-.00298	.02353	-.07276	.11177	.05153	.00005	80.582
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00162	.01055	.00184	.00525	.09874	4.8792	.00225
SDev	.00253	.00278	.00259	.00105	.00036	.2520	.00038
%RSD	155.91	26.337	140.79	20.051	.36333	5.1652	17.085
#1	-.00129	.00933	-.00170	.00378	.09856	4.8899	.00216
#2	.00031	.01096	.00226	.00546	.09856	4.6766	.00271
#3	.00397	.00769	.00452	.00629	.09856	5.2311	.00233
#4	.00350	.01420	.00226	.00546	.09928	4.7193	.00178
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	18.590	.78171	.00810	210.72	.00402	-.00210	-.00655
SDev	.134	.00481	.00528	1.53	.02620	.02702	.00030
%RSD	.71910	.61527	65.215	.72495	651.86	1285.8	4.5417
#1	18.586	.77708	.00163	210.76	.03246	.03316	-.00620
#2	18.408	.77818	.01457	208.73	-.00103	.00497	-.00665
#3	18.720	.78469	.00810	212.45	-.02949	-.02336	-.00690
#4	18.649	.78687	.00810	210.94	.01413	-.02318	-.00647
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.05098	2.6862	-.01728	.44516	-.00408	-.01318	.00510
SDev	.06289	.0179	.00917	.00287	.00031	.05932	.00014
%RSD	123.36	.66777	53.063	.64390	7.6923	450.20	2.6792
#1	-.10996	2.6712	-.02972	.44486	-.00424	-.00140	.00493
#2	-.09970	2.6712	-.01590	.44134	-.00361	-.00141	.00527

680 978

#3	-.00738	2.6952	-.01590	.44809	-.00424	-.09567	.00511
#4	.01313	2.7071	-.00760	.44636	-.00424	.04577	.00511
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem ZN
Units ppm
Avge .02156
SDev .00259
%RSD 12.001

#1 .01936
#2 .01946
#3 .02461
#4 .02279

Errors LC Pass
High 100.00
Low -.02000

Method: QUANMET Sample Name: DXD4C

Operator: WTR

Run Time: 03/25/01 18:44:56

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	- .00049	.09871	- .09928	.48654	.02829	.00008	42.804
SDev	.00084	.00247	.03185	.01675	.00039	.00011	.247
%RSD	172.72	2.4969	32.083	3.4423	1.3667	138.53	.57675
#1	- .00120	.10218	- .09434	.47818	.02810	.00005	42.940
#2	.00024	.09875	- .08931	.47815	.02836	.00017	42.611
#3	- .00123	.09697	- .06926	.51166	.02880	- .00006	42.582
#4	.00024	.09693	- .14421	.47816	.02791	.00017	43.083
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	- .01000	- .20000	- .30000	- .20000	- .20000	- .00500	- 5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	- .00005	.00486	.07854	.00638	.99704	24.328	.00401
SDev	.00266	.00277	.00122	.00068	.00571	.105	.00040
%RSD	5141.5	57.025	1.5524	10.733	.57318	.43264	9.8402
#1	.00325	.00608	.07967	.00638	1.0028	24.321	.00401
#2	- .00214	.00446	.07854	.00638	.98914	24.347	.00440
#3	- .00228	.00121	.07685	.00554	.99847	24.193	.00347
#4	.00095	.00771	.07911	.00722	.99775	24.449	.00418
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	- .00500	- .05000	- .01000	- .02500	- .10000	- 5.0000	- .05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	34.384	.07770	.01307	H424.42	.12988	- .00489	.00382
SDev	.268	.00054	.00324	6.73	.01695	.03174	.01259
%RSD	.77835	.69624	24.756	1.5852	13.051	648.99	329.74
#1	34.484	.07743	.01469	H424.81	.14392	- .01427	.00725
#2	34.210	.07851	.00822	H421.56	.10540	- .02370	.02019
#3	34.714	.07743	.01469	H433.54	.13749	- .02384	- .00606
#4	34.128	.07743	.01469	H417.77	.13270	.04225	- .00610
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	- 5.0000	- .01500	- .04000	- 5.0000	- .04000	- .10000	- .06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00826	2.6488	- .00609	.29939	- .00008	.02816	.00417
SDev	.03090	.0123	.00660	.00325	.00054	.01816	.00243
%RSD	373.99	.46479	108.42	1.0861	683.13	64.492	58.177
#1	.00572	2.6593	- .00193	.29974	.00016	.04377	.00543
#2	.05183	2.6354	- .00464	.29746	.00047	.04400	.00527

#3	-.01994	2.6592	-.01580	.30384	-.00079	.01247	.00053
#4	-.00456	2.6414	-.00198	.29655	-.00016	.01239	.00543

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.01020
SDev	.00205
%RSD	20.066

#1	.00949
#2	.01299
#3	.01019
#4	.00813

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DXD4H

Operator: WTR

Run Time: 03/25/01 18:48:06

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00238	.04687	-.01613	.20077	.05467	.00003	335.64
SDev	.00073	.00168	.05087	.00398	.00035	.00000	1.08
%RSD	30.783	3.5781	315.43	1.9808	.63958	2.1739	.32145
#1	-.00203	.04939	-.08595	.19876	.05483	.00003	335.00
#2	-.00348	.04597	.03385	.19879	.05438	.00003	336.42
#3	-.00203	.04610	-.01605	.19879	.05509	.00003	334.47
#4	-.00198	.04602	.00364	.20674	.05438	.00003	336.68
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00059	.00732	-.00183	.01366	48.631	14.262	.00962
SDev	.00169	.00335	.00126	.00047	.126	.371	.00044
%RSD	288.48	45.774	68.436	3.4703	.25826	2.6017	4.5497
#1	-.00117	.00935	.00001	.01407	48.560	14.682	.00995
#2	.00172	.01097	-.00226	.01324	48.575	14.452	.00957
#3	-.00060	.00447	-.00283	.01407	48.568	14.043	.00902
#4	-.00230	.00447	-.00226	.01326	48.819	13.872	.00995
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	54.951	.35720	.02416	43.967	.00016	.02589	.02321
SDev	.209	.00107	.00835	.276	.00277	.00773	.05974
%RSD	.38096	.29938	34.555	.62776	1698.1	29.843	257.32
#1	54.958	.35746	.03386	43.947	.00415	.02593	-.00671
#2	54.687	.35637	.02739	43.612	-.00172	.02597	-.00662
#3	54.958	.35637	.01445	44.027	-.00010	.01637	-.00664
#4	55.199	.35861	.02095	44.281	-.00168	.03530	.11282
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.05615	10.743	-.02867	2.0105	-.01625	.06724	.01040
SDev	.04884	.033	.05096	.0085	.00030	.10272	.00021
%RSD	86.981	.31154	177.78	.42396	1.8501	152.76	2.0479
#1	-.11663	10.719	.00369	2.0080	-.01586	.00149	.01065
#2	-.07043	10.713	-.03502	2.0004	-.01649	.00124	.01048

#3	-.03455	10.755	.01475	2.0127	-.01649	.04857	.01015
#4	-.00298	10.785	-.09809	2.0208	-.01617	.21765	.01032
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem ZN
Units ppm
Avge .04208
SDev .00169
%RSD 4.0252

#1 .04242
#2 .04413
#3 .04173
#4 .04003

Errors LC Pass
High 100.00
Low -.02000

Method: QUANMET Sample Name: CCV2-7

Operator: WTR

Run Time: 03/25/01 18:51:16

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.98553	48.012	4.8586	4.8110	4.6536	4.6983	50.185
SDev	.00493	.246	.0135	.0347	.0224	.0227	.202
%RSD	.50007	.51220	.27731	.72137	.48076	.48382	.40212
#1	.97848	47.735	4.8477	4.7808	4.6266	4.6749	49.963
#2	.98578	47.881	4.8463	4.7810	4.6439	4.6829	50.117
#3	.98888	48.172	4.8682	4.8409	4.6726	4.7151	50.218
#4	.98898	48.261	4.8721	4.8412	4.6713	4.7203	50.444
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	55.000	5.5000	5.5000	5.5000	5.5000	55.000
Low	.90000	45.000	4.5000	4.5000	4.5000	4.5000	45.000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.0331	4.8706	4.8795	4.6675	50.116	46.779	4.6234
SDev	.0178	.0206	.0227	.0250	.203	.373	.0286
%RSD	.35375	.42347	.46617	.53516	.40495	.79753	.61889
#1	5.0383	4.8442	4.8548	4.6434	49.898	46.269	4.5987
#2	5.0108	4.8703	4.8689	4.6485	50.010	46.772	4.5989
#3	5.0300	4.8734	4.8870	4.6894	50.197	46.926	4.6519
#4	5.0535	4.8945	4.9073	4.6887	50.357	47.148	4.6442
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.5000	5.5000	5.5000	5.5000	55.000	55.000	5.5000
Low	4.5000	4.5000	4.5000	4.5000	45.000	45.000	4.5000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	48.319	4.8388	4.8691	46.409	4.8604	4.9496	4.8922
SDev	.298	.0190	.0111	.246	.0411	.0452	.0215
%RSD	.61614	.39320	.22721	.52979	.84484	.91236	.44037
#1	47.958	4.8216	4.8545	46.158	4.8220	4.9208	4.8920
#2	48.194	4.8249	4.8739	46.238	4.8301	4.9780	4.9185
#3	48.534	4.8467	4.8804	46.616	4.8823	4.9024	4.8658
#4	48.591	4.8619	4.8675	46.624	4.9072	4.9971	4.8925
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	5.5000	5.5000	55.000	5.5000	5.5000	5.5000
Low	45.000	4.5000	4.5000	45.000	4.5000	4.5000	4.5000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.7004	4.9583	4.8930	4.6608	4.7484	9.6668	4.8124
SDev	.0700	.0365	.0374	.0222	.0207	.0411	.0230
%RSD	1.4890	.73607	.76480	.47601	.43630	.42534	.47745
#1	4.6625	4.9656	4.8869	4.6352	4.7249	9.6273	4.7902
#2	4.6219	4.9058	4.8427	4.6491	4.7384	9.6882	4.7956

#3	4.7712	4.9720	4.9171	4.6792	4.7594	9.6380	4.8264
#4	4.7460	4.9900	4.9255	4.6795	4.7710	9.7139	4.8372

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.5000	5.5000	5.5000	5.5000	5.5000	11.000	5.5000
Low	4.5000	4.5000	4.5000	4.5000	4.5000	9.0000	4.5000

Elem ZN
Units ppm
Avge 4.8927
SDev .0233
%RSD .47594

#1	4.8635
#2	4.8858
#3	4.9170
#4	4.9045

Errors	LC Pass
High	5.5000
Low	4.5000

Method: QUANMET Sample Name: CCB7

Operator: WTR

Run Time: 03/25/01 18:54:26

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00037	-.00594	-.04617	.02514	.00123	.00118	.02964
SDev	.00182	.01861	.03796	.01676	.00122	.00109	.03337
%RSD	485.14	313.54	82.217	66.670	99.542	91.856	112.60
#1	.00290	.00236	-.08239	.03349	.00047	.00044	.00803
#2	-.00144	-.02037	-.05725	-.00000	.00029	.00031	.00189
#3	.00001	-.02214	-.05226	.03352	.00118	.00131	.03327
#4	.00004	.01641	.00722	.03355	.00296	.00267	.07536
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.30000	.20000	.20000	.00500	5.0000
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00038	.00203	.00015	-.00125	.01670	.13222	.00239
SDev	.00332	.00281	.00162	.00000	.01603	.18273	.00116
%RSD	877.02	138.68	1104.0	.29344	95.981	138.21	48.616
#1	.00036	-.00041	.00001	-.00125	.00449	.21538	.00216
#2	-.00246	.00448	.00001	-.00125	.00449	.10449	.00124
#3	-.00143	-.00041	-.00169	-.00125	.01958	-.10876	.00216
#4	H.00504	.00446	.00226	-.00125	.03825	.31774	.00401
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.05000	.01000	.02500	.10000	5.0000	.05000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01027	.00218	.01941	.04790	.00651	-.01172	-.00664
SDev	.01831	.00154	.00323	.03097	.00977	.02359	.00014
%RSD	178.22	70.503	16.655	64.657	149.95	201.28	2.0920
#1	.00205	.00109	.02103	.03551	-.00590	-.02356	-.00683
#2	-.00068	.00110	.02103	.02119	.00617	.02367	-.00663
#3	.00205	.00219	.02103	.04248	.00787	-.02355	-.00657
#4	.03767	.00436	.01456	.09241	.01792	-.02344	-.00651
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	.01500	.04000	5.0000	.04000	.10000	.06000
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01031	.00151	-.02353	.00112	.00126	.06654	.00171
SDev	.02699	.03143	.02694	.00151	.00122	.04142	.00237
%RSD	261.79	2082.9	114.47	135.45	96.825	62.247	138.23
#1	-.00768	.03438	.00619	-.00002	.00079	.07462	.00053
#2	.03335	-.02541	-.02975	-.00002	-.00016	.04313	.00053

#3	-.01789	.02242	-.05741	.00134	.00173	.02722	.00053
#4	.03346	-.02535	-.01317	.00317	.00267	.12120	.00527

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.25000	.50000	.10000	.05000	.05000	.30000	.05000
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-.30000	-.05000

Elem	ZN
Units	ppm
Avge	.00337
SDev	.00177
%RSD	52.400

#1	.00132
#2	.00327
#3	.00326
#4	.00563

Errors	LC Pass
High	.02000
Low	-.02000

Method: QUANMET Sample Name: DXD4L

Operator: WTR

Run Time: 03/25/01 18:57:37

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00257	.01950	-.06330	.17364	.06977	.00005	208.87
SDev	.00139	.00863	.01111	.00360	.00047	.00000	1.27
%RSD	53.855	44.235	17.544	2.0739	.67290	.61729	.60916
#1	-.00439	.01296	-.05950	.17269	.06979	.00005	207.89
#2	-.00149	.01115	-.05947	.16894	.06935	.00005	207.66
#3	-.00293	.02699	-.07961	.17647	.07042	.00005	209.84
#4	-.00149	.02690	-.05464	.17645	.06953	.00005	210.09
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00078	.00445	.00042	.00195	6.3389	7.4446	.00170
SDev	.00154	.00230	.00125	.00068	.0202	.1760	.00038
%RSD	198.28	51.647	294.70	34.988	.31887	2.3640	22.552
#1	-.00215	.00120	.00000	.00194	6.3289	7.4318	.00178
#2	.00100	.00608	-.00056	.00195	6.3160	7.2527	.00124
#3	-.00198	.00608	.00226	.00112	6.3605	7.6792	.00216
#4	.00002	.00445	.00000	.00278	6.3504	7.4148	.00162
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	36.408	.33860	.01215	63.260	.05839	-.00441	-.00275
SDev	.089	.00126	.00374	.079	.00494	.00465	.02724
%RSD	.24464	.37207	30.731	.12526	8.4631	105.22	990.05
#1	36.301	.33751	.00892	63.227	.05976	.00255	-.00606
#2	36.421	.33751	.01539	63.335	.05212	-.00665	.03360
#3	36.517	.33969	.00892	63.313	.06401	-.00678	-.03247
#4	36.394	.33969	.01539	63.163	.05768	-.00678	-.00607
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00582	2.6518	-.02065	.85017	-.01138	.05307	.00520
SDev	.01278	.0294	.01939	.00129	.00030	.08943	.00009
%RSD	219.54	1.1103	93.914	.15161	2.6412	168.51	1.7782
#1	.01220	2.6294	-.01237	.84926	-.01146	.12007	.00512
#2	.01216	2.6414	.00162	.84926	-.01178	.04161	.00528

680 988

#3	-.01335	2.6952	-.04289	.85199	-.01115	-.06912	.00513
#4	.01227	2.6414	-.02896	.85017	-.01115	.11972	.00528
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem ZN
Units ppm
Avge .00490
SDev .00161
%RSD 32.750

#1 .00599
#2 .00602
#3 .00260
#4 .00500

Errors LC Pass
High 100.00
Low -.02000

Method: QUANMET Sample Name: DXD4M

Operator: WTR

Run Time: 03/25/01 19:00:47

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00171	.05800	-.06837	.87446	.12897	-.00002	171.15
SDev	.00299	.01321	.02953	.02350	.00103	.00007	1.44
%RSD	174.50	22.772	43.194	2.6872	.79515	364.58	.83991
#1	-.00501	.04444	-.06560	.88070	.12790	-.00008	169.13
#2	.00225	.07249	-.04595	.83996	.12834	.00005	171.12
#3	-.00205	.06556	-.05107	.89235	.13013	-.00008	172.04
#4	-.00203	.04950	-.11087	.88483	.12950	.00003	172.31
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00123	.00400	-.00184	.00116	16.413	64.325	.01864
SDev	.00626	.00308	.00125	.00198	.114	.594	.00120
%RSD	510.88	77.012	68.239	170.77	.69235	.92379	6.4427
#1	.00252	-.00048	.00000	-.00032	16.272	63.926	.01735
#2	L-.00729	.00605	-.00282	-.00030	16.373	63.730	.01958
#3	.00560	.00602	-.00226	.00139	16.525	64.984	.01975
#4	L-.00572	.00442	-.00226	.00389	16.482	64.660	.01789
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	194.64	.20081	.01185	S3081.0	-.00851	.03208	-.01328
SDev	1.34	.00139	.00814	.2	.01403	.02241	.01718
%RSD	.68924	.69455	68.688	.00579	164.85	69.841	129.45
#1	193.33	.19887	.01022	S3081.3	-.02919	.03668	-.03338
#2	193.94	.20107	.01023	S3080.9	.00121	.04625	-.01977
#3	196.41	.20220	.00378	S3080.9	-.00095	-.00084	-.00652
#4	194.90	.20111	.02319	S3081.0	-.00512	.04623	.00657
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.04329	9.7072	-.03334	1.7464	-.00895	.01444	.00611
SDev	.09250	.0398	.01038	.0111	.00051	.04073	.00289
%RSD	213.65	.40953	31.149	.63277	5.7298	282.04	47.366
#1	-.12067	9.6848	-.03067	1.7386	-.00958	.05989	.00515
#2	.00274	9.7207	-.04720	1.7373	-.00832	.02685	.00392

680 990

#3	.06476	9.7566	-.03330	1.7612	-.00895	.00878	.00499
#4	-.12001	9.6669	-.02219	1.7484	-.00895	-.03776	.01037
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem ZN
Units ppm
Avge .00266
SDev .00117
%RSD 43.890

#1 .00214
#2 .00203
#3 .00441
#4 .00205

Errors LC Pass
High 100.00
Low -.02000

Method: QUANMET Sample Name: DXD4N

Operator: WTR

Run Time: 03/25/01 19:03:57

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00268	-.00615	-.09259	1.0651	.01519	.00001	231.27
SDev	.00248	.00599	.02441	.0254	.00041	.00007	1.84
%RSD	92.263	97.407	26.359	2.3846	2.6810	695.92	.79763
#1	-.00380	-.01483	-.11238	1.0640	.01473	.00005	229.35
#2	-.00235	-.00423	-.08254	1.0306	.01544	.00005	230.04
#3	.00060	-.00452	-.06276	1.0903	.01562	.00004	232.90
#4	-.00519	-.00104	-.11270	1.0754	.01499	-.00009	232.80
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00236	-.00120	-.00325	-.00003	9.3336	69.311	.02107
SDev	.00312	.00210	.00271	.00081	.0632	.355	.00065
%RSD	132.13	174.90	83.139	2616.6	.67750	.51271	3.0746
#1	L-.00544	-.00363	-.00227	-.00109	9.2699	69.147	.02105
#2	-.00454	.00125	-.00622	.00059	9.2893	68.942	.02051
#3	-.00045	-.00039	-.00452	.00060	9.3956	69.769	.02072
#4	.00100	-.00202	-.00000	-.00024	9.3798	69.386	.02198
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	199.82	.76732	-.00525	S3078.0	.00180	.02972	.00686
SDev	.92	.00483	.00971	.2	.00878	.03770	.02651
%RSD	.45852	.62931	185.07	.00745	487.63	126.83	386.37
#1	198.98	.76214	-.01011	S3078.1	.00292	-.02682	-.00632
#2	199.09	.76431	-.01658	S3078.1	-.01093	.04861	-.00646
#3	200.75	.77195	.00285	S3077.6	.00704	.04861	.04663
#4	200.46	.77086	.00285	S3078.0	.00818	.04849	-.00641
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00015	18.863	-.05619	1.3247	-.01390	.00910	.00690
SDev	.05946	.132	.02227	.0060	.00030	.14439	.00276
%RSD	38653.	.69987	39.624	.45032	2.1637	1587.4	39.990
#1	-.07088	18.743	-.08667	1.3192	-.01397	.04547	.00464
#2	-.02466	18.779	-.03413	1.3199	-.01429	-.15925	.00446

#3	.03210	19.036	-.04772	1.3298	-.01366	.18502	.00863
#4	.06282	18.893	-.05624	1.3299	-.01366	-.03485	.00986
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem ZN
Units ppm
Avge .00690
SDev .00049
%RSD 7.1589

#1 .00764
#2 .00669
#3 .00664
#4 .00665

Errors LC Pass
High 100.00
Low -.02000

Method: QUANMET Sample Name: DXD4Q

Operator: WTR

Run Time: 03/25/01 19:07:07

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00036	-.00268	-.06113	.05954	-.00002	.00000	.01176
SDev	.00247	.00938	.03804	.00001	.00033	.00007	.00526
%RSD	678.44	349.81	62.231	.01447	1677.3	180e6	44.773
#1	.00290	.00787	-.01754	.05953	.00047	.00006	.01762
#2	-.00289	-.01141	-.10723	.05954	-.00016	-.00006	.00505
#3	.00145	.00252	-.07240	.05954	-.00024	.00006	.01087
#4	.00000	-.00970	-.04735	.05952	-.00016	-.00006	.01348
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00061	.00122	-.00169	.00042	.00826	.34973	.00078
SDev	.00326	.00398	.00216	.00068	.00091	.45985	.00079
%RSD	536.34	327.12	127.75	162.97	10.971	131.49	101.29
#1	.00366	.00284	.00000	.00126	.00952	.90632	.00124
#2	-.00322	-.00202	-.00226	-.00042	.00736	-.16847	-.00007
#3	.00295	-.00204	-.00452	.00042	.00808	.16420	.00162
#4	-.00096	.00610	.00000	.00042	.00808	.49688	.00031
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00068	.00000	.00485	.06677	.00013	-.00233	-.00660
SDev	.00975	.00000	.00374	.00600	.00185	.03119	.00003
%RSD	1423.6	30.217	76.962	8.9855	1392.3	1338.1	.41967
#1	.00753	.00000	.00162	.07538	-.00049	-.02347	-.00662
#2	-.01438	.00000	.00162	.06493	-.00018	-.00477	-.00659
#3	-.00068	.00000	.00809	.06532	-.00157	-.02361	-.00663
#4	.00479	.00000	.00809	.06145	.00276	.04253	-.00657
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00259	.13005	-.01938	.00006	.00039	.05882	.00012
SDev	.04332	.00000	.01019	.00016	.00078	.05290	.00009
%RSD	1672.2	.00000	52.565	282.35	200.00	89.942	78.204
#1	-.00766	.13005	-.00764	.00030	.00141	.09023	.00004
#2	.02823	.13005	-.01869	-.00002	-.00047	-.01975	.00004

680 994

#3	.04362	.13005	-.01869	-.00002	.00047	.09029	.00019
#4	-.05383	.13005	-.03252	-.00002	.00016	.07450	.00020
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem ZN
Units ppm
Avge .00260
SDev .00229
%RSD 87.890

#1 .00496
#2 -.00010
#3 .00159
#4 .00396

Errors LC Pass
High 100.00
Low -.02000

Method: QUANMET Sample Name: DXD4W

Operator: WTR

Run Time: 03/25/01 19:10:17

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00321	.04786	-.08085	1.0767	.00809	.00002	224.13
SDev	.00187	.00715	.03744	.0118	.00018	.00006	.95
%RSD	58.280	14.945	46.311	1.0996	2.2844	342.74	.42562
#1	-.00395	.04439	-.03211	1.0617	.00812	-.00001	223.07
#2	-.00538	.04262	-.11700	1.0842	.00786	-.00001	224.43
#3	-.00249	.04605	-.10205	1.0730	.00831	.00011	225.29
#4	-.00103	.05839	-.07225	1.0880	.00805	-.00001	223.72
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00210	.00124	-.00171	.00110	8.1935	66.562	.02248
SDev	.00391	.00132	.00201	.00080	.0380	.530	.00113
%RSD	186.81	106.66	117.65	72.416	.46323	.79598	5.0457
#1	.00303	.00285	-.00002	.00214	8.1452	66.357	.02252
#2	-.00122	-.00039	-.00397	.00047	8.2019	66.622	.02252
#3	-.00445	.00125	-.00001	.00131	8.1897	66.008	.02105
#4	L-.00575	.00125	-.00284	.00048	8.2371	67.262	.02383
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	186.69	.81646	-.00216	S3079.3	-.00058	.02072	-.00310
SDev	1.25	.00402	.00323	.4	.00786	.03353	.01679
%RSD	.67051	.49178	149.59	.01156	1353.1	161.80	541.47
#1	185.86	.81183	-.00379	S3079.5	-.00382	.04900	-.01972
#2	187.08	.81619	-.00378	S3079.3	-.00961	.00184	-.00652
#3	185.54	.81619	.00269	S3079.6	.00253	-.01693	-.00644
#4	188.28	.82163	-.00377	S3078.8	.00857	.04898	.02028
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.03708	16.126	-.03218	1.1633	-.01225	.07401	.02442
SDev	.04790	.121	.02862	.0103	.00018	.18980	.00008
%RSD	129.20	.75161	88.922	.88787	1.4804	256.46	.34420
#1	-.06415	16.041	-.02050	1.1596	-.01209	-.01569	.02439
#2	-.00756	16.125	-.00662	1.1648	-.01240	.28221	.02438

#3	-.08966	16.041	-.02874	1.1521	-.01209	.17233	.02455
#4	.01307	16.298	-.07286	1.1766	-.01240	-.14282	.02438

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.00700
SDev	.00088
%RSD	12.615

#1	.00584
#2	.00785
#3	.00681
#4	.00749

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DXTE6B RERUN Operator: WTR
 Run Time: 03/25/01 19:13:27
 Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL ✓	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00181	-.02194	-.08593	.00001	-.00003	-.00000	.01197
SDev	.00072	.00821	.02766	.00001	.00015	.00006	.01384
%RSD	40.041	37.415	32.188	92.151	577.34	35050.	115.61
#1	-.00289	-.02548	-.06718	.00000	.00010	.00006	.00161
#2	-.00142	-.01145	-.05739	-.00000	.00010	.00005	.01092
#3	-.00145	-.02015	-.10715	.00001	-.00016	-.00006	.00352
#4	-.00147	-.03067	-.11198	.00001	-.00016	-.00005	.03182
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00176	.00081	-.00212	-.00021	.00395	.14288	.00091
SDev	.00372	.00155	.00246	.00143	.00108	.48054	.00023
%RSD	211.23	191.75	116.00	687.69	27.269	336.33	25.329
#1	.00245	.00121	.00000	.00042	.00305	.16420	.00086
#2	.00395	.00284	-.00000	.00126	.00305	.81249	.00124
#3	-.00369	-.00040	-.00452	-.00042	.00521	-.25377	.00069
#4	.00433	-.00042	-.00395	-.00209	.00449	-.15141	.00086
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00548	.00082	.00485	.06300	-.00766	-.02586	-.00670
SDev	.01149	.00054	.00374	.03804	.00524	.00470	.00008
%RSD	209.66	66.472	76.971	60.386	68.460	18.157	1.1981
#1	.01027	.00109	.00809	.04209	-.00064	-.03291	-.00661
#2	.01301	.00109	.00162	.05138	-.00907	-.02346	-.00666
#3	-.01164	.00000	.00162	.03900	-.00768	-.02355	-.00675
#4	.01027	.00109	.00809	.11951	-.01325	-.02354	-.00678
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01283	.02392	-.00417	.00001	-.00055	-.00006	.00012
SDev	.02406	.00898	.03382	.00007	.00040	.06715	.00394
%RSD	187.44	37.551	810.40	666.68	71.903	103870.	3335.5
#1	-.01794	.01644	-.03805	.00011	-.00016	-.08259	.00020
#2	.02309	.03443	-.01592	-.00002	-.00047	.02741	.00494

#3	.00771	.01644	.04214	-.00002	-.00047	.07460	.00003
#4	.03848	.02835	-.00486	-.00002	-.00110	-.01968	-.00470

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem ZN
Units ppm
Avge .00119
SDev .00049
%RSD 41.341

#1 .00159
#2 .00094
#3 .00062
#4 .00162

Errors LC Pass
High 100.00
Low -.02000

Method: QUANMET Sample Name: DW684/25 NA Operator: WTR
 Run Time: 03/25/01 19:16:38
 Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00035	-.00438	-.08610	.07444	.00535	.00006	9.4404
SDev	.00217	.00561	.02808	.00001	.00021	.00001	.0416
%RSD	618.28	127.97	32.611	.00940	3.9419	13.493	.44063
#1	.00145	-.00964	-.07231	.07444	.00537	.00006	9.3837
#2	.00145	-.00254	-.05740	.07443	.00519	.00006	9.4731
#3	-.00289	.00268	-.09238	.07445	.00519	.00006	9.4700
#4	-.00141	-.00803	-.12233	.07444	.00563	.00005	9.4348
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00158	.00243	-.00000	-.00020	.02083	5.8132	.00193
SDev	.00224	.00278	.00261	.00042	.00159	.4978	.00061
%RSD	141.54	114.13	390320.	204.61	7.6468	8.5631	31.483
#1	.00296	.00121	-.00226	-.00041	.01885	5.3505	.00124
#2	.00069	.00610	.00226	-.00041	.02172	6.1864	.00254
#3	-.00113	-.00041	-.00226	-.00042	.02244	5.4187	.00162
#4	.00380	.00283	.00226	.00042	.02029	6.2973	.00233
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	22.317	.00082	.00000	171.44	.00132	-.01647	-.03973
SDev	.161	.00054	.00619	2.16	.00748	.04640	.06620
%RSD	.72051	66.007	227190.	1.2576	566.75	281.73	166.63
#1	22.399	.00109	.00162	172.61	-.00482	-.02351	-.00670
#2	22.188	.00109	-.00485	169.62	.01169	-.01416	L-.13903
#3	22.503	.00109	-.00485	173.88	-.00342	-.07063	-.00660
#4	22.177	.00001	.00809	169.63	.00183	.04243	-.00659
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01545	.54860	-.00569	.13314	-.00031	.02324	.00122
SDev	.04784	.00843	.02146	.00094	.00018	.09890	.00259
%RSD	309.57	1.5368	376.99	.70392	57.735	425.65	211.45
#1	.08469	.55457	.02002	.13342	-.00047	-.05139	.00004
#2	-.00763	.54859	-.00542	.13251	-.00016	.13719	-.00012

680 1000

#3	.00776	.55457	-.00486	.13433	-.00047	.07434	-.00013
#4	-.02302	.53668	-.03251	.13228	-.00016	-.06720	.00511

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem ZN
Units ppm
Avge .00345
SDev .00130
%RSD 37.725

#1	.00399
#2	.00493
#3	.00299
#4	.00190

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DXRH2/25 NA Operator: WTR
 Run Time: 03/25/01 19:19:48
 Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00040	.15179	-.05508	.00036	.00546	.00006	1.3207
SDev	.00184	.00518	.03569	.00001	.00022	.00009	.0175
%RSD	455.50	3.4119	64.793	2.1466	3.9864	147.74	1.3239
#1	.00004	.14607	-.05878	.00036	.00563	.00006	1.3163
#2	.00004	.15308	-.02389	.00035	.00519	.00006	1.3018
#3	.00296	.15826	-.10388	.00036	.00563	.00017	1.3440
#4	-.00143	.14974	-.03378	.00037	.00537	-.00005	1.3208
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00124	.00121	.00495	.00065	.18046	.04265	.00124
SDev	.00264	.00441	.00203	.00080	.00155	.52925	.00116
%RSD	213.60	364.79	41.084	124.16	.86002	1240.9	93.452
#1	-.00135	.00284	.00678	.00128	.18117	.15567	.00216
#2	-.00003	.00447	.00622	.00128	.18046	.24950	.00086
#3	.00477	.00282	.00452	.00044	.18190	.48835	.00216
#4	.00156	-.00530	.00226	-.00040	.17830	-.72292	-.00023
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.28493	.00494	.00488	146.93	-.00014	-.01660	-.00666
SDev	.01603	.00063	.00647	2.10	.00660	.01616	.00005
%RSD	5.6273	12.737	132.69	1.4307	4790.6	97.357	.82376
#1	.27877	.00439	.00811	148.15	.00114	.00463	-.00670
#2	.27603	.00548	.00811	146.54	-.00018	-.01415	-.00666
#3	.30890	.00548	.00811	144.15	.00725	-.02362	-.00658
#4	.27603	.00439	-.00483	148.89	-.00876	-.03327	-.00669
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00698	.55756	-.02352	.00693	.00330	-.00671	.00044
SDev	.03660	.03030	.00941	.00013	.00044	.04624	.00364
%RSD	524.48	5.4339	40.009	1.8994	13.469	689.20	828.79
#1	.05955	.56653	-.01039	.00681	.00298	.02471	.00022
#2	.00313	.51271	-.03251	.00681	.00298	-.05390	.00022

#3	-.01225	.57854	-.02421	.00704	.00393	.04039	.00511
#4	-.02252	.57247	-.02698	.00704	.00330	-.03803	-.00379

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.02943
SDev	.00097
%RSD	3.3004

#1	.02858
#2	.03027
#3	.03028
#4	.02860

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DXRH2P125

Operator: WTR

Run Time: 03/25/01 19:22:58

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00073	.01442	-.04133	.00006	.00071	.00006	.22024
SDev	.00302	.01472	.04125	.00001	.00030	.00000	.00814
%RSD	411.97	102.12	99.816	9.1391	41.559	2.7778	3.6976
#1	.00145	.01661	-.10248	.00006	.00092	.00006	.21234
#2	-.00289	.00085	-.02250	.00005	.00029	.00006	.21421
#3	.00001	.00602	-.01256	.00006	.00092	.00006	.22850
#4	.00436	.03419	-.02778	.00006	.00073	.00006	.22589
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00062	-.00000	.00057	-.00021	.02945	.18126	.00087
SDev	.00122	.00204	.00113	.00105	.00301	.27403	.00045
%RSD	197.76	65547.	199.57	511.98	10.234	151.18	51.885
#1	-.00059	-.00041	.00000	-.00125	.03035	.21538	.00124
#2	-.00007	-.00041	.00000	-.00042	.02532	.13008	.00031
#3	.00094	-.00204	.00000	-.00042	.02963	-.14288	.00069
#4	.00217	.00284	.00226	.00126	.03250	.52247	.00124
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05685	.00137	.00162	23.346	.00038	-.02356	-.00660
SDev	.00387	.00054	.00528	.089	.00544	.00005	.00009
%RSD	6.8155	39.775	325.81	.38281	1416.0	.22201	1.4336
#1	.06233	.00218	.00162	23.215	-.00304	-.02358	-.00660
#2	.05685	.00109	.00162	23.409	.00818	-.02356	-.00652
#3	.05411	.00110	.00809	23.392	-.00366	-.02362	-.00673
#4	.05411	.00109	-.00485	23.369	.00006	-.02349	-.00656
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00888	.10464	-.01938	.00089	.00063	-.00045	.00035
SDev	.00490	.00573	.01783	.00000	.00065	.10140	.00051
%RSD	55.216	5.4719	91.997	.00000	104.08	22499.	146.91
#1	-.01273	.11211	-.03528	.00089	.00079	.12139	.00004
#2	-.00248	.10015	-.02422	.00089	-.00016	-.06720	.00004

#3	-.01273	.10015	.00619	.00089	.00047	.04280	.00020
#4	-.00759	.10614	-.02422	.00089	.00141	-.09879	.00111
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem ZN
Units ppm
Avge .00439
SDev .00119
%RSD 27.043

#1 .00567
#2 .00295
#3 .00498
#4 .00397

Errors LC Pass
High 100.00
Low -.02000

Method: QUANMET Sample Name: DXRH2S/25 NA Operator: WTR
 Run Time: 03/25/01 19:26:09
 Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00306	.26446	.03221	.05989	.08005	.00187	3.2324
SDev	.00119	.01169	.01704	.00001	.00116	.00014	.0125
%RSD	38.978	4.4189	52.903	.01399	1.4454	7.4859	.38782
#1	.00161	.25043	.03983	.05989	.07844	.00174	3.2457
#2	.00306	.25928	.02977	.05990	.07996	.00174	3.2406
#3	.00306	.27321	.00969	.05989	.08085	.00199	3.2206
#4	.00453	.27492	.04953	.05988	.08093	.00198	3.2229
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00178	.02225	.01469	.01070	.20878	2.4055	.03824
SDev	.00288	.00420	.00190	.00186	.00271	.9099	.00176
%RSD	162.09	18.863	12.949	17.353	1.2993	37.826	4.5970
#1	-.00201	.01738	.01526	.00965	.20500	1.9385	.03716
#2	.00496	.02061	.01187	.00882	.21075	1.3925	.03646
#3	.00246	.02387	.01582	.01133	.21075	2.8768	.04032
#4	.00172	.02713	.01582	.01301	.20860	3.4142	.03901
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA ✓	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.2390	.02479	.04532	137.01	.01427	.00277	-.00693
SDev	.0367	.00054	.00324	2.53	.00944	.03564	.00007
%RSD	1.6371	2.1900	7.1382	1.8470	66.181	1289.0	1.0028
#1	2.1966	.02506	.04694	133.41	.01552	-.02325	-.00689
#2	2.2212	.02506	.04047	137.20	.00067	-.02317	-.00702
#3	2.2623	.02397	.04694	139.16	.01885	.00516	-.00694
#4	2.2760	.02506	.04694	138.26	.02202	.05232	-.00687
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.09041	.94046	.06482	.04346	.04176	.12232	.02198
SDev	.05444	.03434	.02508	.00092	.00054	.06841	.00248
%RSD	60.210	3.6518	38.685	2.1052	1.3023	55.923	11.273
#1	.10579	.91952	.02818	.04228	.04098	.13422	.02080
#2	.01348	.91952	.06966	.04319	.04192	.14983	.02063

#3	.10068	.99127	.08348	.04418	.04192	.18124	.02080
#4	.14170	.93154	.07795	.04418	.04224	.02399	.02570

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem ZN
Units ppm
Avge .04702
SDev .00129
%RSD 2.7428

#1	.04716
#2	.04860
#3	.04685
#4	.04546

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: CCV2-8

Operator: WTR

Run Time: 03/25/01 19:29:19

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.97198	47.322	4.7837	4.7261	4.5757	4.6242	49.587
SDev	.00338	.345	.0782	.0376	.0437	.0348	.086
%RSD	.34762	.72879	1.6351	.79470	.95434	.75234	.17371

#1	.96785	47.061	4.6852	4.6978	4.5463	4.6019	49.458
#2	.97078	47.083	4.7598	4.7054	4.5413	4.5951	49.633
#3	.97381	47.340	4.8271	4.7205	4.5791	4.6281	49.634
#4	.97550	47.803	4.8625	4.7806	4.6362	4.6719	49.623

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	55.000	5.5000	5.5000	5.5000	5.5000	55.000
Low	.90000	45.000	4.5000	4.5000	4.5000	4.5000	45.000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.9737	4.8103	4.8219	4.5919	49.449	46.382	4.5427
SDev	.0178	.0173	.0135	.0443	.230	.372	.0613
%RSD	.35778	.36035	.28067	.96404	.46520	.80169	1.3498

#1	4.9637	4.8039	4.8085	4.5622	49.250	46.551	4.5071
#2	4.9994	4.7940	4.8141	4.5572	49.315	46.209	4.4855
#3	4.9716	4.8087	4.8260	4.5948	49.464	45.962	4.5544
#4	4.9600	4.8346	4.8390	4.6534	49.767	46.807	4.6240

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.5000	5.5000	5.5000	5.5000	55.000	55.000	5.5000
Low	4.5000	4.5000	4.5000	4.5000	45.000	45.000	4.5000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	47.667	4.7815	4.8140	45.721	4.7964	4.8989	4.8160
SDev	.318	.0175	.0462	.510	.0289	.0385	.1191
%RSD	.66645	.36664	.95971	1.1155	.60343	.78559	2.4740

#1	47.388	4.7627	4.7767	45.372	4.8032	4.8920	4.8660
#2	47.435	4.7747	4.7897	45.322	4.7786	4.9478	4.6404
#3	47.780	4.7845	4.8091	45.765	4.7695	4.8542	4.8522
#4	48.065	4.8042	4.8803	46.426	4.8342	4.9017	4.9052

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	5.5000	5.5000	55.000	5.5000	5.5000	5.5000
Low	45.000	4.5000	4.5000	45.000	4.5000	4.5000	4.5000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.7778	4.8709	4.8272	4.5869	4.6793	9.4617	4.7457
SDev	.0646	.0481	.0846	.0394	.0298	.1673	.0246
%RSD	1.3524	.98758	1.7525	.85918	.63731	1.7684	.51907

#1	4.7221	4.8692	4.8123	4.5607	4.6586	9.3548	4.7257
#2	4.7223	4.8035	4.7505	4.5555	4.6561	9.2910	4.7298

#3	4.8253	4.9053	4.7983	4.5900	4.6819	9.6501	4.7474
#4	4.8416	4.9057	4.9478	4.6415	4.7205	9.5508	4.7798

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.5000	5.5000	5.5000	5.5000	5.5000	11.000	5.5000
Low	4.5000	4.5000	4.5000	4.5000	4.5000	9.0000	4.5000

Elem	ZN
Units	ppm
Avge	4.8401
SDev	.0143
%RSD	.29604

#1	4.8188
#2	4.8469
#3	4.8452
#4	4.8496

Errors	LC Pass
High	5.5000
Low	4.5000

Method: QUANMET Sample Name: CCB8

Operator: WTR

Run Time: 03/25/01 19:32:29

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	- .00070	.01463	- .05386	.03540	.00323	.00327	.03181
SDev	.00185	.02119	.06062	.00375	.00213	.00203	.02129
%RSD	264.54	144.80	112.55	10.589	66.013	62.312	66.917
#1	.00145	- .01330	- .09723	.03349	.00029	.00044	.00221
#2	- .00141	.01291	.02223	.03355	.00315	.00329	.03196
#3	- .00285	.03734	- .10777	.04103	.00519	H.00516	.05152
#4	.00001	.02158	- .03268	.03355	.00430	.00418	.04156
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.30000	.20000	.20000	.00500	5.0000
Low	- .01000	- .20000	- .30000	- .20000	- .20000	- .00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	H.00548	.00567	.00325	.00085	.03736	.07037	.00378
SDev	.00159	.00277	.00286	.00260	.02264	.51147	.00175
%RSD	28.914	48.882	87.918	307.70	60.615	726.80	46.273
#1	.00314	.00284	.00226	- .00041	.00593	.74425	.00178
#2	H.00649	.00445	.00000	- .00125	.03826	- .35613	.00309
#3	H.00586	.00608	.00396	.00461	.05909	- .29642	.00440
#4	H.00643	.00933	.00679	.00043	.04616	.18979	.00587
Errors	LC High	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.05000	.01000	.02500	.10000	5.0000	.05000
Low	- .00500	- .05000	- .01000	- .02500	- .10000	-5.0000	- .05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01712	.00436	.01942	.07180	- .00093	- .02104	- .00672
SDev	.01621	.00235	.00620	.03581	.00632	.01190	.00007
%RSD	94.657	53.967	31.915	49.879	679.47	56.554	1.0073
#1	.00479	.00109	.01456	.02351	- .00706	- .02345	- .00673
#2	.00753	.00436	.01456	.07151	.00385	- .02344	- .00664
#3	.04041	.00654	.02104	.10906	.00516	- .03282	- .00670
#4	.01575	.00545	.02751	.08312	- .00567	- .00447	- .00681
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	.01500	.04000	5.0000	.04000	.10000	.06000
Low	-5.0000	- .01500	- .04000	-5.0000	- .04000	- .10000	- .06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00012	- .00446	- .02077	.00322	.00322	.07012	.00294
SDev	.03385	.02513	.01867	.00233	.00167	.07208	.00278
%RSD	28830.	564.07	89.860	72.173	51.854	102.80	94.435
#1	.02310	- .01943	- .03252	- .00002	.00079	.09029	.00037
#2	- .01783	.02248	- .00488	.00339	.00361	.10548	.00526

#3	-.03828	-.03133	-.00488	.00545	.00455	-.03635	.00544
#4	.03348	.01046	-.04082	.00408	.00393	.12107	.00071

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.25000	.50000	.10000	.05000	.05000	.30000	.05000
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-.30000	-.05000

Elem ZN
Units ppm
Avge .00550
SDev .00224
%RSD 40.731

#1 .00231
#2 .00736
#3 .00564
#4 .00667

Errors LC Pass
High .02000
Low -.02000

Method: QUANMET Sample Name: DXRH2D/25 NA Operator: WTR
 Run Time: 03/25/01 19:35:45
 Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00270	.27582	.04834	.05991	.08361	.00252	3.3482
SDev	.00072	.00466	.05238	.00001	.00086	.00039	.0171
%RSD	26.832	1.6895	108.35	.01710	1.0290	15.312	.51222

#1	.00306	.26962	-.01524	.05990	.08334	.00199	3.3245
#2	.00306	.28024	.02959	.05990	.08290	.00274	3.3599
#3	.00161	.27839	.10447	.05991	.08334	.00287	3.3469
#4	.00306	.27501	.07453	.05992	.08486	.00249	3.3617

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00535	.02427	.01597	.01238	.21938	2.4503	.04063
SDev	.00079	.00361	.00187	.00126	.00498	.4310	.00028
%RSD	14.750	14.877	11.688	10.143	2.2686	17.591	.67757

#1	.00577	.02223	.01639	.01133	.21219	2.2882	.04086
#2	.00499	.02875	.01808	.01385	.22081	3.0730	.04048
#3	.00443	.02549	.01357	.01133	.22369	2.0835	.04032
#4	.00620	.02060	.01582	.01300	.22081	2.3564	.04086

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA ✓	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.3322	.02588	.04856	139.07	.01970	.00987	-.00692
SDev	.0230	.00054	.00619	1.77	.00411	.03884	.00005
%RSD	.98520	2.1005	12.758	1.2728	20.838	393.36	.75448

#1	2.3226	.02506	.05341	139.42	.01514	.05218	-.00699
#2	2.3226	.02615	.04694	137.38	.02055	.03354	-.00692
#3	2.3171	.02615	.05341	138.08	.01823	-.02304	-.00692
#4	2.3664	.02615	.04047	141.40	.02488	-.02318	-.00686

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.09044	.99427	.07172	.04561	.04388	.11822	.02115
SDev	.05247	.04991	.01380	.00043	.00047	.05599	.00048
%RSD	58.011	5.0198	19.243	.94990	1.0733	47.360	2.2766

#1	.09042	.93746	.06136	.04528	.04349	.16551	.02097
#2	.09558	1.0032	.08071	.04528	.04349	.05528	.02081

#3	.02378	.97932	.05859	.04570	.04412	.16531	.02096
#4	.15200	1.0571	.08624	.04619	.04443	.08678	.02186

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.05009
SDev	.00271
%RSD	5.4125

#1	.04616
#2	.05050
#3	.05221
#4	.05149

Errors	LC Pass
High	100.00
Low	-.02000

Method: QUANMET Sample Name: DXRKF/25 NA Operator: WTR
 Run Time: 03/25/01 19:38:55
 Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00115	.15608	-.07141	.00038	.00724	.00024	1.5217
SDev	.00139	.00745	.01033	.00001	.00012	.00008	.0206
%RSD	121.32	4.7766	14.465	2.7954	1.7075	32.449	1.3510
#1	.00007	.15478	-.05894	.00037	.00723	.00017	1.5311
#2	.00004	.14605	-.08374	.00039	.00715	.00031	1.4911
#3	.00152	.16184	-.06898	.00038	.00742	.00030	1.5294
#4	.00297	.16167	-.07397	.00039	.00715	.00017	1.5353
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00191	.00202	.00127	.00044	.19177	.30068	.00235
SDev	.00288	.00431	.00218	.00069	.00170	.34565	.00088
%RSD	151.37	213.77	171.53	155.72	.88559	114.95	37.497
#1	-.00086	.00772	.00452	.00128	.19052	.71866	.00363
#2	.00570	-.00206	.00000	-.00040	.19052	-.10876	.00162
#3	.00248	.00283	.00056	.00044	.19411	.20685	.00216
#4	.00030	-.00042	.00000	.00044	.19196	.38599	.00200
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.31096	.01282	.00811	80.412	-.00076	-.00717	-.00666
SDev	.01104	.00054	.00528	1.102	.00926	.03287	.00015
%RSD	3.5517	4.2404	65.116	1.3705	1223.9	458.15	2.2965
#1	.32260	.01200	.00811	79.798	-.00551	-.02348	-.00673
#2	.29795	.01309	.00811	81.903	.00671	.04213	-.00661
#3	.30616	.01309	.00164	80.545	.00725	-.02363	-.00647
#4	.31712	.01309	.01458	79.400	-.01147	-.02372	-.00682
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00453	.49930	-.01247	.00729	.00479	.02064	.00388
SDev	.01291	.02690	.02158	.00005	.00047	.05198	.00245
%RSD	285.29	5.3869	173.12	.64339	9.8361	251.85	63.242
#1	-.00709	.45896	.00067	.00727	.00455	.05597	.00511
#2	-.01735	.51271	-.01039	.00736	.00424	.05610	.00020

680 1014

#3	.01343	.51277	-.04357	.00727	.00518	-.05409	.00494
#4	-.00709	.51277	.00343	.00727	.00518	.02458	.00526

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem ZN
Units ppm
Avge .07462
SDev .00090
%RSD 1.2046

#1 .07491
#2 .07446
#3 .07348
#4 .07563

Errors LC Pass
High 100.00
Low -.02000

Method: QUANMET Sample Name: CCV2-9

Operator: WTR

Run Time: 03/25/01 19:42:06

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.97504	47.587	4.8346	4.7343	4.6085	4.6500	49.693
SDev	.00224	.130	.0897	.0269	.0172	.0115	.111
%RSD	.22930	.27231	1.8544	.56888	.37412	.24799	.22391
#1	.97243	47.450	4.8510	4.7207	4.5964	4.6370	49.529
#2	.97690	47.660	4.7340	4.7211	4.6180	4.6618	49.778
#3	.97691	47.729	4.9480	4.7747	4.6277	4.6574	49.732
#4	.97394	47.509	4.8053	4.7208	4.5917	4.6440	49.732
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	55.000	5.5000	5.5000	5.5000	5.5000	55.000
Low	.90000	45.000	4.5000	4.5000	4.5000	4.5000	45.000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.9713	4.8188	4.8407	4.6200	49.668	46.617	4.5830
SDev	.0370	.0172	.0131	.0155	.115	.294	.0191
%RSD	.74341	.35620	.27136	.33518	.23174	.63041	.41753
#1	4.9181	4.8006	4.8220	4.6107	49.541	46.201	4.5717
#2	4.9833	4.8379	4.8514	4.6300	49.758	46.670	4.5921
#3	4.9801	4.8281	4.8480	4.6359	49.773	46.892	4.6052
#4	5.0036	4.8086	4.8412	4.6032	49.600	46.704	4.5631
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.5000	5.5000	5.5000	5.5000	55.000	55.000	5.5000
Low	4.5000	4.5000	4.5000	4.5000	45.000	45.000	4.5000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	47.954	4.7998	4.8367	46.109	4.8254	4.8990	4.8623
SDev	.136	.0105	.0424	.140	.0290	.0051	.0489
%RSD	.28277	.21863	.87652	.30262	.60083	.10327	1.0065
#1	47.794	4.7867	4.7833	46.049	4.7832	4.8914	4.7994
#2	48.032	4.8107	4.8221	46.210	4.8487	4.9019	4.9190
#3	48.095	4.8053	4.8674	46.237	4.8382	4.9015	4.8655
#4	47.895	4.7965	4.8739	45.941	4.8315	4.9011	4.8655
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	5.5000	5.5000	55.000	5.5000	5.5000	5.5000
Low	45.000	4.5000	4.5000	45.000	4.5000	4.5000	4.5000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.7606	4.9145	4.8668	4.6155	4.6990	9.6625	4.7668
SDev	.1071	.0150	.0329	.0148	.0111	.0830	.0074
%RSD	2.2507	.30501	.67520	.32024	.23598	.85863	.15535
#1	4.7076	4.9353	4.8396	4.6049	4.6891	9.6490	4.7565
#2	4.9083	4.9116	4.8594	4.6246	4.7076	9.7711	4.7723

#3	4.7647	4.9116	4.9145	4.6314	4.7095	9.6608	4.7722
#4	4.6616	4.8995	4.8537	4.6012	4.6897	9.5693	4.7662

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.5000	5.5000	5.5000	5.5000	5.5000	11.000	5.5000
Low	4.5000	4.5000	4.5000	4.5000	4.5000	9.0000	4.5000

Elem ZN
Units ppm
Avge 4.8748
SDev .0118
%RSD .24240

#1	4.8576
#2	4.8776
#3	4.8793
#4	4.8846

Errors	LC Pass
High	5.5000
Low	4.5000

Analysis Report

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Method: QUANMET Sample Name: CCB9

Operator: WTR

Run Time: 03/25/01 19:45:16

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00072	-.02382	-.07843	.01768	.00016	.00047	.00028
SDev	.00345	.01233	.03669	.02046	.00051	.00031	.00464
%RSD	478.15	51.737	46.786	115.74	326.88	66.667	1662.5
#1	-.00579	-.03604	-.07708	.03347	-.00016	.00031	-.00426
#2	.00000	-.03266	-.12203	.00001	-.00016	.00031	-.00189
#3	.00145	-.01513	-.08225	.00000	.00003	.00031	.00072
#4	.00145	-.01146	-.03236	.03721	.00092	.00094	.00654
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.30000	.20000	.20000	.00500	5.0000
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00261	.00162	-.00042	-.00104	.00449	.11089	.00110
SDev	.00180	.00361	.00085	.00041	.00427	.20429	.00064
%RSD	68.826	222.77	202.57	39.734	95.148	184.23	57.801
#1	.00301	.00447	-.00169	-.00125	.00090	-.05758	.00086
#2	.00329	-.00367	.00001	-.00042	.00161	-.04052	.00031
#3	.00413	.00284	.00001	-.00125	.00521	.16420	.00162
#4	.00001	.00285	.00000	-.00125	.01024	.37746	.00162
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.05000	.01000	.02500	.10000	5.0000	.05000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00411	.00028	.01618	.01422	-.00103	-.02584	-.00671
SDev	.00565	.00054	.00619	.00798	.01035	.01176	.00016
%RSD	137.44	195.46	38.293	56.075	1007.8	45.508	2.3158
#1	.00205	.00001	.01456	.00416	.00400	-.04222	-.00660
#2	-.00890	.00001	.02103	.01152	-.00807	-.01422	-.00685
#3	-.00890	.00110	.02103	.02003	-.01108	-.02345	-.00682
#4	-.00068	.00001	.00809	.02119	.01104	-.02346	-.00655
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	.01500	.04000	5.0000	.04000	.10000	.06000
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.03076	-.03139	-.01316	.00020	.00024	.04315	.00041
SDev	.02458	.03718	.01151	.00046	.00083	.03391	.00016
%RSD	79.925	118.44	87.458	222.95	350.66	78.584	38.456
#1	-.01282	-.03737	-.02698	-.00002	-.00047	.04318	.00036
#2	-.00769	-.04933	.00066	-.00002	-.00047	.02752	.00053

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#3	-.04358	.02242	-.01593	-.00002	.00079	.01169	.00053
#4	-.05895	-.06129	-.01040	.00089	.00110	.09022	.00020
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.25000	.50000	.10000	.05000	.05000	.30000	.05000
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-.30000	-.05000

Elem	ZN
Units	ppm
Avge	.00202
SDev	.00162
%RSD	80.188

#1	-.00011
#2	.00162
#3	.00332
#4	.00325

Errors	LC Pass
High	.02000
Low	-.02000

CIC220173

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Analysis Report 60103 Averages

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William J. Reinhardt 3-27-01

#	Sample Name	AG	AS	CD	CR	PB	SB
1	STD1	-.00251	-.00271	.00214	.00111		
2	STD6	9.67334	5.51876	12.4717			
3	STD7				10.1243		
4	ICV3-1 0087-148-1	.51096	.25842	.25546	1.0109	.25601	.25834
5	ICB1	.00075	-.00009	.00005	.00052	-.00065	.00084
6	ICSA 0087-133-5	.00073	.00284	-.00212	.00536	-.00027	-.00114
7	ICSAB 0087-081-6	1.1068	1.0439	.94905	.50942	.99257	1.0513
8	DXG64B	.00019	-.00066	.00027	.00065	.00126	-.00060
9	DXG64C	.05168	2.0058	.04833	.20306	.49749	.49958
10	DXFFA	.00137	.05058	L-.00748	10510	02642	-.00363
11	DXFFAP5	.00040	.01218	-.00357	02396	00633	-.00169
12	DXFFAS	.04735	1.7820	.03200	.29161	.43522	.30847
13	DXFFAD	.04696	1.7591	.03103	.29314	.43198	.31063
14	DXFFA/5 FE	.00035	.01180	-.00388	.02432	.00569	-.00142
15	DXFFAP25	.00027	.00282	-.00072	.00530	.00103	.00087
16	CCV3-1 0087-118-1	1.0168	.50887	.49515	1.9837	.50169	.50520
17	CCB1	.00080	-.00040	.00008	.00067	.00034	-.00003
18	DXFFAS/5 FE	.01048	.40345	.00593	.06633	.09990	.07078
19	DXFFAD/5 FE	.01013	.39925	.00587	.06634	.09927	.07053
20	DXK1DB	.00041	.00104	.00017	.00150	.00123	.00073
21	DXK1DC	.05115	1.9908	.04862	.20322	.49825	.49415
22	DXJL6	.00140	.40611	-.00336	.28368	.04963	-.00106
23	DXJL6P5	.00043	.08627	-.00125	.06091	.01120	-.00057
24	DXJL6S	.05102	2.2409	.03888	.44600	.49160	.42375
25	DXJL6D	.05018	2.2083	.03792	.44911	.48391	.42541
26	DXJL6/2 FE	.00092	.21130	-.00288	.14644	.02552	-.00208
27	DXJL6P10	.00088	.04455	-.00049	.03141	.00523	-.00147
28	CCV3-2	1.0225	.51743	.50173	2.0008	.50633	.51117
29	CCB2	.00043	.00172	.00002	.00047	.00091	.00007
30	DXJL6S/2 FE	.02595	1.1630	.02017	.23098	.25692	.21839
31	DXJL6D/2 FE	.02576	1.1471	.01983	.23298	.25506	.21984
32	DXQT1B	.00045	.00017	.00012	.00138	.00187	.00115
33	DXQT1C	.04946	2.0031	.04950	.20264	.50075	L.00009
34	DXL6T	.00069	.00905	.00074	.08853	.00260	.00053
35	DXL6TP5	.00032	.00356	.00009	.01846	.00104	-.00035
36	DXL6TS	.04766	1.9336	.04792	.28001	.47510	.00019
37	DXL6TD	.04600	1.8712	.04629	.27216	.45924	.00116
38	DXL68	-.00034	.01506	-.00026	.02546	.00052	.00004
39	DXTG1B	.00034	.00190	.00003	.00110	.00109	.00180
40	CCV3-3	1.0191	.51322	.49848	1.9950	.50818	.51026
41	CCB3	.00028	.00091	.00004	.00045	-.00012	.00023
42	DXTG1C	.05080	2.0271	.04817	.19847	.49403	.50422
43	DXMAM	.00103	.01124	.05261	.42243	.58173	.07331
44	DXMAMP5	.00031	.00131	.01066	.08553	.11910	.01664
45	DXMAMS	.04705	1.9158	.12584	.70168	1.1812	.13247
46	DXMAMD	.04928	1.9742	.09032	.58577	.72679	.05589
47	DXQT6B	.00000	.00064	.00003	.00160	.00163	.00156
48	DXQT6C	.05141	2.0212	.04849	.20206	.50017	.49054
49	DXQT6L	.05000	1.9704	.04794	.19906	.48941	.48453
50	DXME5	.00059	.01611	.02080	.21482	3.2841	.04947
51	DXME5P5	.00072	.00321	.00441	.04436	.67988	.00991
52	CCV3-4	1.0220	.51827	.50278	2.0033	.50886	.51591
53	CCB4	.00013	.00062	.00005	.00018	-.00008	-.00068

Fe over range: IBC exists
on Ca, Cr, Pb & Sb. Report
Dilutions. 03-27-01

PB 32801

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#	Sample Name	AG	AS	CD	CR	PB	SB
54	DXMFP	.00152	.05295	.00364	.09023	H7.8575	.02643
55	DXMF8	.00035	.00635	.00361	.03923	1.2871	.00673
56	DXMGN	.00095	.00672	.00198	.02028	.87935	.00233
57	DXMGW	.00082	.00302	.00017	.00452	.00444	.00331
58	DXNVDB	.00086	.00025	.00010	.00146	.00212	-.00064
59	DXNVDC	.04956	1.9837	.04973	.19964	.49725	L.00091
60	DXLLC	.00116	.01296	.00399	.03654	.06151	.00128
61	DXLLCP5	.00071	.00421	.00083	.00696	.01211	-.00081
62	DXLLCS	.04965	1.9576	.05149	.23138	.54965	.00071
63	DXLLCD	.05037	1.9886	.05096	.23360	.55592	.00382
64	CCV3-5	1.0176	.51759	.50242	1.9980	.50866	.51158
65	CCB5	-.00017	.00099	-.00004	.00057	.00006	-.00054
66	DXLLG	.00144	.02469	.00463	.05116	.09178	.00011
67	DXLLJ	.00019	.02507	-.00045	.08685	.11796	.00041
68	DXLLM	.00067	.00210	.00013	.00312	.00301	.00222
69	DXLLT	.00044	.00226	.00023	.00224	.00162	.00306
70	DXLLX	.00099	.00326	.00027	.00346	.00147	.00239
71	DXNVLB	.00018	-.00008	.00014	.00091	.00038	.00209
72	DXNVLC	.04907	1.9693	.04913	.19817	.48778	L-.00027
73	DXLKX	.00032	-.00030	.00015	.00111	.00136	-.00078
74	DXLKXP5	.00014	.00124	-.00006	-.00011	.00065	-.00203
75	DXLKXS	.05061	2.0161	.04888	.19886	.49696	.00030
76	CCV3-6	1.0229	.51804	.50178	2.0013	.50710	.51415
77	CCB6	.00042	.00167	.00024	.00072	.00129	-.00066
78	DXLKXD	.05097	2.0481	.04978	.20404	.50528	.00030
79	DXLK6	.00110	.00225	.00048	.00125	-.00026	.00157
80	DXLK9	.00033	.00183	.00074	.00076	.00129	-.00066
81	DXT56B	.00081	.00035	.00008	.00123	.00057	.00035
82	DXT56C	.04999	1.9690	.04711	.19641	.48460	.49048
83	DXRH2	.00153	.02100	-.00001	.14526	.00883	.00485
84	DXRH2P5	.00048	.00458	.00012	.02984	.00323	.00240
85	DXRH2S	.05494	2.1060	.04622	.34521	.49027	.51176
86	DXRH2D	.05266	2.0600	.04584	.33782	.48155	.49941
87	DXRKF	.00112	.07734	.00052	.03432	.01620	.00695
88	CCV3-7	1.0242	.52321	.50842	2.0218	.51375	.51304
89	CCB7	.00046	.00184	.00010	.00074	.00015	.00261
90	DXCMEB	.00083	.00120	-.00004	.00071	.00120	-.00180
91	DXCMEC	.04913	2.0689	.04969	.20468	.51016	.49176
92	DXATD	.00021	.00428	.00016	.00320	.00295	.00133
93	DXATDP5	-.00004	.00112	.00012	.00062	.00240	-.00082
94	DXATDS	.04936	2.0927	.04972	.20700	.51406	.49264
95	DXATDD	.04932	2.0816	.04938	.20555	.51125	.49284
96	DXATQ	.00050	.00904	-.00142	.17790	.01587	-.00082
97	DXATX	.00027	.00469	.00001	.04407	.00397	-.00091
98	DXAT0	.00040	.00391	.00024	.02613	.00023	.00139
99	DXAT1	.00076	.00650	-.00036	.02468	.00119	-.00004
100	CCV3-8	1.0257	.52396	.50768	2.0224	.51330	.51304
101	CCB8	.00045	.00148	.00016	.00023	-.00010	-.00013
102	DXAT4	.00108	.00523	-.00014	.46286	.00233	-.00030
103	DXAT7	.00063	.00075	-.00017	.00413	-.00054	-.00082
104	DXAT9	.00075	.00245	-.00025	.00435	.00160	-.00180
105	DXA2N	.00044	.00046	.00019	.00112	.00117	.00112
106	DXE28B	.00041	.00153	.00015	.00087	.00084	-.00029
107	DXE28C	.04939	1.9692	.04745	.19588	.48587	.48730

#	Sample Name	AG	AS	CD	CR	PB	SB
108	DXCV0	.00037	.00491	.00048	3.2618	.00133	.00484
109	DXCV0P5	-.00013	.00143	-.00002	.66646	-.00044	.00136
110	DXCV0S	.05160	2.0128	.04461	3.3956	.47000	.49472
111	DXCV0D	.05227	2.0457	.04521	3.3984	.47628	.50321
112	CCV3-9	1.0324	.52414	.51288	2.0431	.51862	.51874
113	CCB9	.00043	.00135	.00000	.00056	-.00007	-.00012
114	DXCWA	.00078	.01704	-.00047	.04003	.00260	-.00140
115	DXCWC	.00061	.00042	.00021	.00068	.00158	-.00008
116	DXCWL	.00047	.00564	-.00010	.01754	.03207	-.00191
117	DXCWM	.00059	.00577	-.00019	.00721	-.00031	-.00008
118	DXCWP	.00041	.00316	-.00033	.00122	.00079	.00223
119	DXCWQ	.00057	.00371	.00004	.00271	.00233	-.00052
120	DXNT3B	.00057	.00077	.00031	.00114	.00047	-.00139
121	DXNT3C	.05119	2.0447	.05029	.20650	.51214	.50462
122	DXM3W	.00047	.04413	.00063	.02822	.01249	.00132
123	DXM3WP5	.00017	.00873	.00008	.00602	.00331	.00068
124	CCV3-10	1.0337	.52673	.51634	2.0553	.52162	.52048
125	CCB10	.00082	.00082	.00003	.00108	.00003	-.00048
126	DXM3WS	.05010	2.0412	.04846	.22789	.50558	.49480
127	DXM3WD	.05043	2.0427	.04859	.22607	.50219	.49190
128	DXME5/5 BA	.00024	.00473	.00423	.04468	.68074	.00931
129	DXME5P25	.00064	.00300	.00090	.00921	.14367	.00214
130	DXMFP/2 PB	.00047	.02730	.00238	.04624	4.0179	.01383
131	DXMGN/5 BA	.00037	.00176	.00056	.00424	.17962	.00199
132	CCV3-11	1.0266	.51851	.50808	2.0304	.51597	.51473
133	CCB11	.00014	.00187	.00010	.00049	-.00007	-.00026

#	Sample Name	SE	TL
1	STD1		-.02616
2	STD6		3.33793
3	STD7		
4	ICV3-1 0087-148-1	.26073	.51685
5	ICB1	-.00191	.00502
6	ICSA 0087-133-5	.00144	-.00269
7	ICSAB 0087-081-6	1.0386	1.0148
8	DXG64B	-.00287	.00184
9	DXG64C	1.9461	2.0880
10	DXFFA	L-.01620	L-.03454
11	DXFFAP5	.00046	-.00320
12	DXFFAS	1.6658	1.4997
13	DXFFAD	1.6676	1.5201
14	DXFFA/5 FE	.00221	-.00284
15	DXFFAP25	-.00292	.00313
16	CCV3-1 0087-118-1	.51114	1.0280
17	CCB1	-.00109	.00137
18	DXFFAS/5 FE	.40503	.34611
19	DXFFAD/5 FE	.39542	.35069
20	DXK1DB	-.00213	-.00627
21	DXK1DC	1.9244	2.0836
22	DXJL6	L-.00851	L-.01035
23	DXJL6P5	-.00135	-.00028
24	DXJL6S	1.8525	1.8680

Minor Fe over range: IECs exist on
Se? TL. Report dilutions with 3-27-d

#	Sample Name	SE	TL
25	DXJL6D	1.8423	1.8639
26	DXJL6/2 FE	.00062	-.00280
27	DXJL6P10	-.00311	.00105
28	CCV3-2	.51756	1.0448
29	CCB2	-.00202	.00457
30	DXJL6S/2 FE	.98683	.98059
31	DXJL6D/2 FE	.97983	.97484
32	DXQT1B	.00219	.00286
33	DXQT1C	1.9798	2.0286
34	DXL6T	.01228	.00936
35	DXL6TP5	.00253	.00114
36	DXL6TS	1.9719	1.8095
37	DXL6TD	1.9337	1.7366
38	DXL68	.00094	.00623
39	DXTG1B	-.00107	.00362
40	CCV3-3	.51896	1.0395
41	CCB3	-.00168	.00660
42	DXTG1C	2.1269	2.0831
43	DXMAM	.00802	.01154
44	DXMAMP5	.00325	.00586
45	DXMAMS	2.0439	1.9548
46	DXMAMD	2.0476	2.0320
47	DXQT6B	.00073	.00529
48	DXQT6C	2.0217	2.1030
49	DXQT6L	1.9496	2.0552
50	DXME5	.00728	.00533
51	DXME5P5	-.00235	.00486
52	CCV3-4	.52040	1.0475
53	CCB4	.00057	.00377
54	DXMFP	.00321	.00100
55	DXMF8	.00390	.00162
56	DXMGN	.00722	.00389
57	DXMGW	.00174	.00075
58	DXNVDB	-.00149	.00075
59	DXNVDC	1.9184	2.0364
60	DXLLC	.00036	-.00014
61	DXLLCP5	.00184	.00203
62	DXLLCS	1.8945	2.0185
63	DXLLCD	1.9142	2.0535
64	CCV3-5	.52249	1.0571
65	CCB5	-.00081	.00622
66	DXLLG	.00032	-.00023
67	DXLLJ	-.00007	-.00385
68	DXLLM	.00567	-.00038
69	DXLLT	.00465	.00621
70	DXLLX	.00484	.00269
71	DXNVLB	.00081	-.00113
72	DXNVLC	1.9333	1.9969
73	DXLKX	-.00026	.00220
74	DXLKXP5	.00069	.00187
75	DXLKXS	2.0076	2.0709
76	CCV3-6	.51984	1.0455
77	CCB6	-.00157	.00716
78	DXLKXD	2.0093	2.0845

Fe overrange: DEC's exist on SePTL. Report dilutions. Wx 5 27-01

#	Sample Name	SE	TL
79	DXLK6	.00094	.00140
80	DXLK9	.00078	.00379
81	DXT56B	-.00295	.00054
82	DXT56C	1.9539	2.0397
83	DXRH2	-.00020	.00863
84	DXRH2P5	L-.00511	.00601
85	DXRH2S	2.0314	2.0734
86	DXRH2D	1.9797	2.0233
87	DXRKF	-.00088	.00697
88	CCV3-7	.52423	1.0555
89	CCB7	-.00088	.00109
90	DXCMEB	-.00137	.00259
91	DXCMEC	2.0438	2.1341
92	DXATD	-.00194	.00143
93	DXATDP5	-.00259	.00204
94	DXATDS	2.0532	2.1475
95	DXATDD	2.0590	2.1522
96	DXATQ	-.00023	.00628
97	DXATX	.00028	.00282
98	DXAT0	-.00151	.00335
99	DXAT1	-.00323	.00413
100	CCV3-8	.52259	1.0515
101	CCB8	-.00001	.00352
102	DXAT4	-.00275	-.00212
103	DXAT7	-.00090	-.00262
104	DXAT9	-.00208	-.00095
105	DXA2N	-.00145	.00030
106	DXE28B	-.00013	-.00249
107	DXE28C	1.9278	2.0232
108	DXCV0	.00278	.00071
109	DXCV0P5	.00045	.00317
110	DXCV0S	2.0036	2.0139
111	DXCV0D	2.0333	2.0404
112	CCV3-9	.52614	1.0598
113	CCB9	-.00302	.00641
114	DXCWA	-.00282	-.00028
115	DXCWC	-.00056	-.00075
116	DXCWL	-.00103	.00157
117	DXCWM	-.00117	-.00221
118	DXCWP	-.00121	.00042
119	DXCWQ	-.00070	.00162
120	DXNT3B	-.00061	-.00330
121	DXNT3C	2.0321	2.1249
122	DXM3W	.00477	.01047
123	DXM3WP5	-.00159	.00227
124	CCV3-10	.52816	1.0597
125	CCB10	.00060	.00655
126	DXM3WS	2.0860	2.0618
127	DXM3WD	2.1111	2.0560
128	DXME5/5 BA	.00123	.00280
129	DXME5P25	.00050	.00212
130	DXMFP/2 PB	.00150	.00103
131	DXMGN/5 BA	-.00118	.00337
132	CCV3-11	.52289	1.0486

#	Sample Name	SE	TL
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680 1024

133	CCB11	-.00030	.00610
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WNC 3-26-01

680 1025

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	STD1	T10325A	METTRA	03/25/01	12:08		X	IR
2	STD6	T10325A	METTRA	03/25/01	12:12		X	IR
3	STD7	T10325A	METTRA	03/25/01	12:17		X	IR
4	ICV3-1 0087-148-1	T10325A	METTRA	03/25/01	12:22	WTR	S	CONC
5	ICB1	T10325A	METTRA	03/25/01	12:26	WTR	S	CONC
6	ICSA 0087-133-5	T10325A	METTRA	03/25/01	12:31	WTR	Q	CONC
7	ICSAB 0087-081-6	T10325A	METTRA	03/25/01	12:35	WTR	Q	CONC
8	DXG64B	T10325A	METTRA	03/25/01	12:40	WTR	S	CONC
9	DXG64C	T10325A	METTRA	03/25/01	12:44	WTR	S	CONC
10	DXFFA	T10325A	METTRA	03/25/01	12:48	WTR	S	CONC
11	DXFFAP5	T10325A	METTRA	03/25/01	12:53	WTR	S	CONC
12	DXFFAS	T10325A	METTRA	03/25/01	12:57	WTR	S	CONC
13	DXFFAD	T10325A	METTRA	03/25/01	13:02	WTR	S	CONC
14	DXFFA/5 FE	T10325A	METTRA	03/25/01	13:06	WTR	S	CONC
15	DXFFAP25	T10325A	METTRA	03/25/01	13:11	WTR	S	CONC
16	CCV3-1 0087-118-1	T10325A	METTRA	03/25/01	13:15	WTR	S	CONC
17	CCB1	T10325A	METTRA	03/25/01	13:19	WTR	S	CONC
18	DXFFAS/5 FE	T10325A	METTRA	03/25/01	13:24	WTR	S	CONC
19	DXFFAD/5 FE	T10325A	METTRA	03/25/01	13:28	WTR	S	CONC
20	DXK1DB	T10325A	METTRA	03/25/01	13:33	WTR	S	CONC
21	DXK1DC	T10325A	METTRA	03/25/01	13:37	WTR	S	CONC
22	DXJL6	T10325A	METTRA	03/25/01	13:42	WTR	S	CONC
23	DXJL6P5	T10325A	METTRA	03/25/01	13:46	WTR	S	CONC
24	DXJL6S	T10325A	METTRA	03/25/01	13:50	WTR	S	CONC
25	DXJL6D	T10325A	METTRA	03/25/01	13:55	WTR	S	CONC
26	DXJL6/2 FE	T10325A	METTRA	03/25/01	13:59	WTR	S	CONC
27	DXJL6P10	T10325A	METTRA	03/25/01	14:04	WTR	S	CONC
28	CCV3-2	T10325A	METTRA	03/25/01	14:08	WTR	S	CONC
29	CCB2	T10325A	METTRA	03/25/01	14:13	WTR	S	CONC
30	DXJL6S/2 FE	T10325A	METTRA	03/25/01	14:17	WTR	S	CONC
31	DXJL6D/2 FE	T10325A	METTRA	03/25/01	14:21	WTR	S	CONC
32	DXQT1B	T10325A	METTRA	03/25/01	14:26	WTR	S	CONC
33	DXQT1C	T10325A	METTRA	03/25/01	14:30	WTR	S	CONC
34	DXL6T	T10325A	METTRA	03/25/01	14:35	WTR	S	CONC
35	DXL6TP5	T10325A	METTRA	03/25/01	14:39	WTR	S	CONC
36	DXL6TS	T10325A	METTRA	03/25/01	14:44	WTR	S	CONC
37	DXL6TD	T10325A	METTRA	03/25/01	14:48	WTR	S	CONC
38	DXL68	T10325A	METTRA	03/25/01	14:52	WTR	S	CONC
39	DXTG1B	T10325A	METTRA	03/25/01	14:57	WTR	S	CONC
40	CCV3-3	T10325A	METTRA	03/25/01	15:01	WTR	S	CONC
41	CCB3	T10325A	METTRA	03/25/01	15:06	WTR	S	CONC
42	DXTG1C	T10325A	METTRA	03/25/01	15:10	WTR	S	CONC
43	DXMAM	T10325A	METTRA	03/25/01	15:15	WTR	S	CONC
44	DXMAMP5	T10325A	METTRA	03/25/01	15:19	WTR	S	CONC
45	DXMAMS	T10325A	METTRA	03/25/01	15:23	WTR	S	CONC
46	DXMAMD	T10325A	METTRA	03/25/01	15:28	WTR	S	CONC
47	DXQT6B	T10325A	METTRA	03/25/01	15:32	WTR	S	CONC
48	DXQT6C	T10325A	METTRA	03/25/01	15:37	WTR	S	CONC
49	DXQT6L	T10325A	METTRA	03/25/01	15:41	WTR	S	CONC
50	DXME5	T10325A	METTRA	03/25/01	15:46	WTR	S	CONC
51	DXME5P5	T10325A	METTRA	03/25/01	15:50	WTR	S	CONC
52	CCV3-4	T10325A	METTRA	03/25/01	15:54	WTR	S	CONC
53	CCB4	T10325A	METTRA	03/25/01	15:59	WTR	S	CONC

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
54	DXMFP	T10325A	METTRA	03/25/01	16:05	WTR	S	CONC
55	DXMF8	T10325A	METTRA	03/25/01	16:10	WTR	S	CONC
56	DXMGN	T10325A	METTRA	03/25/01	16:14	WTR	S	CONC
57	DXMGW	T10325A	METTRA	03/25/01	16:19	WTR	S	CONC
58	DXNVDB	T10325A	METTRA	03/25/01	16:23	WTR	S	CONC
59	DXNVDC	T10325A	METTRA	03/25/01	16:29	WTR	S	CONC
60	DXLLC	T10325A	METTRA	03/25/01	16:33	WTR	S	CONC
61	DXLLCP5	T10325A	METTRA	03/25/01	16:38	WTR	S	CONC
62	DXLLCS	T10325A	METTRA	03/25/01	16:42	WTR	S	CONC
63	DXLLCD	T10325A	METTRA	03/25/01	16:46	WTR	S	CONC
64	CCV3-5	T10325A	METTRA	03/25/01	16:51	WTR	S	CONC
65	CCB5	T10325A	METTRA	03/25/01	16:55	WTR	S	CONC
66	DXLLG	T10325A	METTRA	03/25/01	17:00	WTR	S	CONC
67	DXLLJ	T10325A	METTRA	03/25/01	17:04	WTR	S	CONC
68	DXLLM	T10325A	METTRA	03/25/01	17:09	WTR	S	CONC
69	DXLLT	T10325A	METTRA	03/25/01	17:13	WTR	S	CONC
70	DXLLX	T10325A	METTRA	03/25/01	17:17	WTR	S	CONC
71	DXNVLB	T10325A	METTRA	03/25/01	17:22	WTR	S	CONC
72	DXNVLC	T10325A	METTRA	03/25/01	17:26	WTR	S	CONC
73	DXLKX	T10325A	METTRA	03/25/01	17:31	WTR	S	CONC
74	DXLKXP5	T10325A	METTRA	03/25/01	17:35	WTR	S	CONC
75	DXLKXS	T10325A	METTRA	03/25/01	17:40	WTR	S	CONC
76	CCV3-6	T10325A	METTRA	03/25/01	17:44	WTR	S	CONC
77	CCB6	T10325A	METTRA	03/25/01	17:48	WTR	S	CONC
78	DXLKXD	T10325A	METTRA	03/25/01	17:53	WTR	S	CONC
79	DXLK6	T10325A	METTRA	03/25/01	17:57	WTR	S	CONC
80	DXLK9	T10325A	METTRA	03/25/01	18:02	WTR	S	CONC
81	DXT56B	T10325A	METTRA	03/25/01	18:06	WTR	S	CONC
82	DXT56C	T10325A	METTRA	03/25/01	18:11	WTR	S	CONC
83	DXRH2	T10325A	METTRA	03/25/01	18:15	WTR	S	CONC
84	DXRH2P5	T10325A	METTRA	03/25/01	18:20	WTR	S	CONC
85	DXRH2S	T10325A	METTRA	03/25/01	18:24	WTR	S	CONC
86	DXRH2D	T10325A	METTRA	03/25/01	18:28	WTR	S	CONC
87	DXRKF	T10325A	METTRA	03/25/01	18:33	WTR	S	CONC
88	CCV3-7	T10325A	METTRA	03/25/01	18:37	WTR	S	CONC
89	CCB7	T10325A	METTRA	03/25/01	18:42	WTR	S	CONC
90	DXCMEB	T10325A	METTRA	03/25/01	18:46	WTR	S	CONC
91	DXCMEC	T10325A	METTRA	03/25/01	18:51	WTR	S	CONC
92	DXATD	T10325A	METTRA	03/25/01	18:55	WTR	S	CONC
93	DXATDP5	T10325A	METTRA	03/25/01	18:59	WTR	S	CONC
94	DXATDS	T10325A	METTRA	03/25/01	19:04	WTR	S	CONC
95	DXATDD	T10325A	METTRA	03/25/01	19:08	WTR	S	CONC
96	DXATQ	T10325A	METTRA	03/25/01	19:13	WTR	S	CONC
97	DXATX	T10325A	METTRA	03/25/01	19:17	WTR	S	CONC
98	DXAT0	T10325A	METTRA	03/25/01	19:22	WTR	S	CONC
99	DXAT1	T10325A	METTRA	03/25/01	19:26	WTR	S	CONC
100	CCV3-8	T10325A	METTRA	03/25/01	19:31	WTR	S	CONC
101	CCB8	T10325A	METTRA	03/25/01	19:35	WTR	S	CONC
102	DXAT4	T10325A	METTRA	03/25/01	19:39	WTR	S	CONC
103	DXAT7	T10325A	METTRA	03/25/01	19:44	WTR	S	CONC
104	DXAT9	T10325A	METTRA	03/25/01	19:48	WTR	S	CONC
105	DXA2N	T10325A	METTRA	03/25/01	19:53	WTR	S	CONC
106	DXE28B	T10325A	METTRA	03/25/01	19:57	WTR	S	CONC
107	DXE28C	T10325A	METTRA	03/25/01	20:02	WTR	S	CONC

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
108	DXCV0	T10325A	METTRA	03/25/01	20:06	WTR	S	CONC
109	DXCV0P5	T10325A	METTRA	03/25/01	20:11	WTR	S	CONC
110	DXCV0S	T10325A	METTRA	03/25/01	20:15	WTR	S	CONC
111	DXCV0D	T10325A	METTRA	03/25/01	20:19	WTR	S	CONC
112	CCV3-9	T10325A	METTRA	03/25/01	20:24	WTR	S	CONC
113	CCB9	T10325A	METTRA	03/25/01	20:28	WTR	S	CONC
114	DXCWA	T10325A	METTRA	03/25/01	20:33	WTR	S	CONC
115	DXCWC	T10325A	METTRA	03/25/01	20:37	WTR	S	CONC
116	DXCWL	T10325A	METTRA	03/25/01	20:42	WTR	S	CONC
117	DXCWM	T10325A	METTRA	03/25/01	20:46	WTR	S	CONC
118	DXCWP	T10325A	METTRA	03/25/01	20:51	WTR	S	CONC
119	DXCWQ	T10325A	METTRA	03/25/01	20:55	WTR	S	CONC
120	DXNT3B	T10325A	METTRA	03/25/01	21:00	WTR	S	CONC
121	DXNT3C	T10325A	METTRA	03/25/01	21:04	WTR	S	CONC
122	DXM3W	T10325A	METTRA	03/25/01	21:08	WTR	S	CONC
123	DXM3WP5	T10325A	METTRA	03/25/01	21:13	WTR	S	CONC
124	CCV3-10	T10325A	METTRA	03/25/01	21:17	WTR	S	CONC
125	CCB10	T10325A	METTRA	03/25/01	21:22	WTR	S	CONC
126	DXM3WS	T10325A	METTRA	03/25/01	21:26	WTR	S	CONC
127	DXM3WD	T10325A	METTRA	03/25/01	21:31	WTR	S	CONC
128	DXME5/5 BA	T10325A	METTRA	03/25/01	21:35	WTR	S	CONC
129	DXME5P25	T10325A	METTRA	03/25/01	21:40	WTR	S	CONC
130	DXMFP/2 PB	T10325A	METTRA	03/25/01	21:44	WTR	S	CONC
131	DXMGN/5 BA	T10325A	METTRA	03/25/01	21:48	WTR	S	CONC
132	CCV3-11	T10325A	METTRA	03/25/01	21:53	WTR	S	CONC
133	CCB11	T10325A	METTRA	03/25/01	21:57	WTR	S	CONC

3/25/01	12%08011	ST01	WPC 3-25-01				
	Ag	AL	As	BA	BE	CA	CD
Avge	-.00251	.03982	-.00272	.00028	-.03342	.00542	.00214
SDev	.00246	.00030	.00949	.00009	.00111	.00003	.00279
%RSD	97.953	.74134	349.22	32.045	3.3318	.49068	130.20
#1	-.00425	.04003	.00399	.00034	-.03263	.00544	.00017
#2	-.00077	.03961	-.00943	.00021	-.03421	.00540	.00412
Elem	CO	CR	CU	FE	MG	MN	MO
Avge	-.00043	.00111	.00973	-.00026	-.00055	.00068	.00004
SDev	.00012	.00109	.00054	.00024	.00030	.00000	.00006
%RSD	28.882	98.230	5.5842	93.934	53.861	.62289	141.42
#1	-.00034	.00034	.00935	-.00042	-.00076	.00068	.00000
#2	-.00051	.00189	.01012	-.00009	-.00034	.00069	.00009
Elem	NI	PB/1	PB/2	SB/1	SB/2	SE/1	SE/2
Avge	.00009	.00794	.00040	.00150	-.00189	-.08078	.04675
SDev	.00012	.00089	.02130	.01715	.00363	.00523	.01755
%RSD	141.42	11.264	5284.7	1140.0	192.32	6.4758	37.551
#1	.00000	.00731	.01547	-.01062	.00068	-.08447	.03433
#2	.00017	.00857	-.01466	.01363	-.00446	-.07708	.05916
Elem	TL	V	ZN				
Avge	-.02617	.00000	.00873				
SDev	.00179	.00000	.00009				
%RSD	6.8506	.00000	.96866				
#1	-.02490	.00000	.00867				
#2	-.02744	.00000	.00879				

680 1028

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11715	--	--	--	--	--	--
SDev	72.97287	--	--	--	--	--	--
%RSD	.6228905	--	--	--	--	--	--
#1	11767	--	--	--	--	--	--
#2	11664	--	--	--	--	--	--

Method: METTRA Standard: STD6 0087-154-1
Run Time: 03/25/01 12:12:41

Elem	AG	AS	CD	PB/1	PB/2	SB/1	SB/2
Avge	9.6733	5.5188	12.472	4.6649	6.5355	6.6381	3.8859
SDev	.0181	.0235	.016	.0195	.0500	.0190	.0179
%RSD	.18669	.42543	.13121	.41785	.76475	.28685	.46185

#1	9.6606	5.5354	12.483	4.6512	6.5001	6.6246	3.8733
#2	9.6861	5.5022	12.460	4.6787	6.5708	6.6516	3.8986

Elem	SE/1	SE/2	TL
Avge	4.7772	2.9553	3.3379
SDev	.0020	.0098	.0115
%RSD	.04123	.33068	.34365

#1	4.7786	2.9484	3.3460
#2	4.7758	2.9622	3.3298

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11524	--	--	--	--	--	--
SDev	32.84525	--	--	--	--	--	--
%RSD	.2850055	--	--	--	--	--	--
#1	11548	--	--	--	--	--	--
#2	11501	--	--	--	--	--	--

680 1031

03/25/01 12:21:01 PM

Method: METTRA

Standard: STD7

Run Time: 03/25/01 12:17:08

0087-154-Z

Elem	AL	BA	BE	CA	CO	CR	CU
Avge	6.0625	12.798	11.128	4.6517	2.5769	10.124	2.7974
SDev	.0060	.011	.005	.0022	.0007	.006	.0035
%RSD	.09962	.08605	.04932	.04719	.02692	.06219	.12580

#1	6.0582	12.790	11.125	4.6502	2.5764	10.120	2.7949
#2	6.0668	12.806	11.132	4.6533	2.5774	10.129	2.7999

Elem	FE	MG	MN	MO	NI	V	ZN
Avge	2.6612	11.702	7.6254	2.3694	2.1820	.72966	2.4341
SDev	.0020	.009	.0028	.0085	.0036	.00183	.0022
%RSD	.07553	.07355	.03609	.35886	.16633	.25106	.09036

#1	2.6598	11.696	7.6235	2.3634	2.1795	.72836	2.4325
#2	2.6626	11.708	7.6274	2.3754	2.1846	.73095	2.4356

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11371	--	--	--	--	--	--
SDev	1.414214	--	--	--	--	--	--
%RSD	.0124369	--	--	--	--	--	--

#1	11372	--	--	--	--	--	--
#2	11370	--	--	--	--	--	--

Method: METTRA

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
AG	328.068	STD6	STD1	.206700	.000519	03/25/01 12:17:08
AL	308.215	STD7	STD1	8.31312	-.331021	03/25/01 12:17:08
AS	189.042	STD6	STD1	.181111	.000492	03/25/01 12:17:08
BA	493.409	STD7	STD1	.312550	-.000087	03/25/01 12:17:08
BE	313.042	STD7	STD1	.356170	.011904	03/25/01 12:17:08
CA	317.933	STD7	STD1	21.5226	-.116657	03/25/01 12:17:08
CD	226.502	STD6	STD1	.080196	-.000172	03/25/01 12:17:08
CO	228.616	STD7	STD1	1.55201	.000663	03/25/01 12:17:08
CR	267.716	STD7	STD1	.394987	-.000440	03/25/01 12:17:08
CU	324.753	STD7	STD1	1.43489	-.013965	03/25/01 12:17:08
FE	271.441	STD7	STD1	18.8955	.004825	03/25/01 12:17:08
MG	279.078	STD7	STD1	8.54534	.004733	03/25/01 12:17:08
MN	257.610	STD7	STD1	.524608	-.000358	03/25/01 12:17:08
MO	202.030	STD7	STD1	1.68820	-.000072	03/25/01 12:17:08
NI	231.604	STD7	STD1	1.83211	-.000157	03/25/01 12:17:08
PB/1	220.351	STD6	STD1	.214730	-.001705	03/25/01 12:17:08
PB/2	220.352	STD6	STD1	.153021	-.000062	03/25/01 12:17:08
PB	220.353	NONE	NONE	.000000	.000000	*NOT STANDARDIZED
SB/1	206.831	STD6	STD1	.150680	-.000227	03/25/01 12:17:08
SB/2	206.832	STD6	STD1	.257213	.000486	03/25/01 12:17:08
SB	220.353	NONE	NONE	.000000	.000000	*NOT STANDARDIZED
SE/1	196.021	STD6	STD1	.205845	.016627	03/25/01 12:17:08
SE/2	196.022	STD6	STD1	.343813	-.016072	03/25/01 12:17:08
SE	220.353	NONE	NONE	.000000	.000000	*NOT STANDARDIZED
TL	190.864	STD6	STD1	.594512	.015557	03/25/01 12:17:08
V	292.402	STD7	STD1	5.46013	.000000	03/25/01 12:17:08
ZN	213.856	STD7	STD1	1.65962	-.014486	03/25/01 12:17:08

Method: METTRA Sample Name: ICV3-1 0087-148-1 Operator: WTR
 Run Time: 03/25/01 12:22:20
 Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

680 1033

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51097	11.984	.25842	1.0040	1.0008	25.063	.25547
SDev	.00069	.027	.00244	.0087	.0053	.087	.00348
%RSD	.13436	.22798	.94383	.87023	.53367	.34909	1.3610
#1	.51145	12.003	.25670	1.0101	1.0046	25.125	.25793
#2	.51048	11.965	.26015	.99778	.99700	25.001	.25301
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.55000	13.750	.27500	1.1000	1.1000	27.500	.27500
Low	.45000	11.250	.22500	.90000	.90000	22.500	.22500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0237	1.0109	.97989	12.614	24.659	1.0022	1.0127
SDev	.0057	.0013	.00741	.002	.284	.0023	.0037
%RSD	.55756	.13054	.75587	.01343	1.1518	.22668	.36799
#1	1.0197	1.0100	.98513	12.613	24.860	1.0006	1.0101
#2	1.0278	1.0119	.97466	12.615	24.458	1.0038	1.0153
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	1.1000	1.1000	13.750	27.500	1.1000	1.1000
Low	.90000	.90000	.90000	11.250	22.500	.90000	.90000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0369	.25729	.25537	.25601	.25937	.25783	.25835
SDev	.0280	.00060	.00338	.00246	.00352	.00210	.00023
%RSD	2.7031	.23227	1.3255	.95963	1.3587	.81483	.08817
#1	1.0567	.25771	.25777	.25775	.26187	.25635	.25819
#2	1.0171	.25687	.25298	.25427	.25688	.25932	.25851
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	1.1000			.27500			.27500
Low	.90000			.22500			.22500
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.25134	.26543	.26074	.51686	1.0226	1.0286	
SDev	.00585	.00328	.00024	.00212	.0192	.0091	
%RSD	2.3275	1.2340	.09075	.40982	1.8744	.88905	
#1	.24720	.26775	.26091	.51836	1.0362	1.0351	
#2	.25547	.26312	.26057	.51536	1.0091	1.0221	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.27500	.55000	1.1000	1.1000	
Low			.22500	.45000	.90000	.90000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y.	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11528	--	--	--	--	--	--
SDev	29.45127	--	--	--	--	--	--
%RSD	.2554854	--	--	--	--	--	--
#1	11548	--	--	--	--	--	--
#2	11507	--	--	--	--	--	--

Analysis Report

Method: METTRA Sample Name: ICB1 Operator: WTR
Run Time: 03/25/01 12:26:46
Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00075	.02075	-.00009	.00017	.00060	-.01433	.00006
SDev	.00030	.00275	.00217	.00003	.00032	.00210	.00008
%RSD	40.291	13.239	2338.3	17.441	53.671	14.686	145.60
#1	.00054	.01881	.00144	.00015	.00083	-.01582	.00011
#2	.00096	.02269	-.00163	.00020	.00037	-.01284	-.00000
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00003	.00053	.00008	-.00892	.00510	.00014	.00333
SDev	.00023	.00046	.00050	.00330	.00052	.00019	.00033
%RSD	673.83	87.806	631.81	37.025	10.098	142.17	10.019
#1	-.00020	.00020	-.00027	-.01125	.00546	-.00000	.00309
#2	.00013	.00085	.00043	-.00658	.00473	.00027	.00356
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00055	-.00095	-.00051	-.00066	.00039	.00107	.00085
SDev	.00033	.00017	.00036	.00019	.00253	.00113	.00160
%RSD	59.736	18.281	71.590	28.237	639.71	105.43	188.24
#1	.00078	-.00107	-.00025	-.00052	.00218	.00188	.00198
#2	.00032	-.00083	-.00077	-.00079	-.00139	.00027	-.00028
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00212	-.00181	-.00192	.00502	.00070	-.01093	
SDev	.00112	.00178	.00081	.00121	.00034	.00007	
%RSD	52.795	98.068	42.453	24.168	48.180	.65407	
#1	-.00133	-.00307	-.00249	.00416	.00046	-.01088	
#2	-.00291	-.00056	-.00134	.00588	.00094	-.01098	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11674	--	--	--	--	--	--
SDev	91.35764	--	--	--	--	--	--
%RSD	.7825602	--	--	--	--	--	--
#1	11739	--	--	--	--	--	--
#2	11610	--	--	--	--	--	--

Method: METTRA Sample Name: ICSA 0087-133-5 Operator: WTR
 Run Time: 03/25/01 12:31:12
 Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00073	526.00	.00284	.00196	-.00063	490.57	-.00213
SDev	.00011	.07	.00122	.00006	.00014	.08	.00030
%RSD	14.932	.01311	43.042	3.2721	21.415	.01651	13.898

#1	.00065	526.05	.00371	.00192	-.00054	490.51	-.00234
#2	.00081	525.95	.00198	.00201	-.00073	490.63	-.00192

Errors	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK
Value		500.00				500.00	
Range		20.000				20.000	

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00012	.00536	-.00048	203.43	529.23	.00809	.00048
SDev	.00015	.00045	.00030	.11	.54	.00006	.00078
%RSD	126.99	8.3297	63.036	.05236	.10194	.72308	162.87

#1	.00023	.00505	-.00069	203.36	529.61	.00813	.00103
#2	.00001	.00568	-.00026	203.51	528.85	.00805	-.00007

Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	NOCHECK	NOCHECK
Value				200.00	500.00		
Range				20.000	20.000		

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00095	-.00169	.00043	-.00028	.00770	-.00556	-.00114
SDev	.00036	.00328	.00037	.00084	.00281	.00308	.00112
%RSD	38.148	194.11	86.662	306.49	36.493	55.363	97.649

#1	.00069	.00063	.00017	.00032	.00572	-.00338	-.00035
#2	.00121	-.00401	.00070	-.00087	.00969	-.00774	-.00194

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00129	.00281	.00145	-.00269	.00734	-.01172
SDev	.00306	.00095	.00166	.00340	.00040	.00007
%RSD	236.93	33.869	114.42	126.09	5.4168	.62693

#1	.00087	.00349	.00262	-.00029	.00762	-.01177
#2	-.00346	.00214	.00028	-.00509	.00706	-.01167

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value						
Range						

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Analysis Report

QC Standard

03/25/01 12:35:35 PM

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IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	10744	--	--	--	--	--	--
SDev	13.43503	--	--	--	--	--	--
%RSD	.1250474	--	--	--	--	--	--
#1	10753	--	--	--	--	--	--
#2	10734	--	--	--	--	--	--

Method: METTRA Sample Name: ICSAB 0087-081-6 Operator: WTR
 Run Time: 03/25/01 12:35:39
 Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.1068	528.23	1.0439	.53337	.50406	492.62	.94905
SDev	.0021	1.03	.0019	.00120	.00072	.69	.00015
%RSD	.19314	.19470	.18028	.22417	.14187	.13976	.01587
#1	1.1053	527.50	1.0452	.53252	.50355	492.13	.94916
#2	1.1083	528.96	1.0426	.53421	.50457	493.11	.94895
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.0000	500.00	1.0000	.50000	.50000	500.00	1.0000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49819	.50942	.55149	204.46	529.81	.51798	.99838
SDev	.00194	.00044	.00057	.15	.62	.00064	.00712
%RSD	.39009	.08642	.10405	.07358	.11786	.12304	.71322
#1	.49682	.50911	.55108	204.35	529.37	.51753	.99334
#2	.49957	.50974	.55189	204.56	530.25	.51843	1.0034
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.50000	.50000	.50000	200.00	500.00	.50000	1.0000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.97961	1.0032	.98728	.99258	1.0507	1.0515	1.0513
SDev	.00191	.0010	.00280	.00220	.0023	.0047	.0023
%RSD	.19476	.10112	.28337	.22203	.21842	.44329	.22306
#1	.97826	1.0025	.98530	.99102	1.0491	1.0548	1.0529
#2	.98095	1.0039	.98925	.99413	1.0523	1.0483	1.0496
Errors	QC Pass	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	QC Pass
Value	1.0000			1.0000			1.0000
Range	20.000			20.000			20.000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	1.0410	1.0374	1.0386	1.0148	.52408	1.0406	
SDev	.0014	.0020	.0009	.0053	.00207	.0019	
%RSD	.13614	.19437	.08406	.52552	.39581	.18623	
#1	1.0400	1.0388	1.0392	1.0110	.52555	1.0393	
#2	1.0420	1.0360	1.0380	1.0186	.52261	1.0420	
Errors	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	
Value			1.0000	1.0000	.50000	1.0000	
Range			20.000	20.000	20.000	20.000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	10700	--	--	--	--	--	--
SDev	.9902257	--	--	--	--	--	--
%RSD	.0092541	--	--	--	--	--	--
#1	10701	--	--	--	--	--	--
#2	10700	--	--	--	--	--	--

Method: METTRA Sample Name: DXG64B

Operator: WTR

Run Time: 03/25/01 12:40:05

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00020	.04509	-.00067	.00007	.00043	.05233	.00028
SDev	.00061	.00619	.00010	.00014	.00009	.00950	.00011
%RSD	309.35	13.726	15.590	207.54	21.426	18.158	39.384
#1	.00063	.04946	-.00059	.00017	.00049	.05905	.00020
#2	-.00023	.04071	-.00074	-.00003	.00036	.04561	.00035
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00058	.00066	.00001	.02540	.03031	.00028	.00403
SDev	.00062	.00000	.00073	.01041	.00056	.00006	.00042
%RSD	106.00	.28082	9529.6	40.992	1.8594	23.423	10.439
#1	-.00015	.00066	-.00051	.03276	.03071	.00033	.00433
#2	-.00102	.00066	.00052	.01804	.02991	.00023	.00373
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00112	.00351	.00015	.00127	-.00209	.00013	-.00061
SDev	.00158	.00138	.00178	.00073	.00110	.00269	.00143
%RSD	141.29	39.264	1205.3	57.629	52.701	2066.4	235.55
#1	.00223	.00254	.00141	.00179	-.00131	-.00177	-.00162
#2	.00000	.00449	-.00111	.00075	-.00286	.00204	.00040
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00895	.00016	-.00287	.00184	.00048	-.00953	
SDev	.00052	.00499	.00316	.00158	.00000	.00000	
%RSD	5.7559	3145.7	109.87	85.927	.84201	.01250	
#1	-.00858	-.00337	L-.00511	.00296	.00048	-.00953	
#2	-.00931	.00369	-.00064	.00072	.00048	-.00953	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11527	--	--	--	--	--	--
SDev	17.74880	--	--	--	--	--	--
%RSD	.1539812	--	--	--	--	--	--
#1	11514	--	--	--	--	--	--
#2	11539	--	--	--	--	--	--

Method: METTRA Sample Name: DXG64C Operator: WTR
 Run Time: 03/25/01 12:44:31
 Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05168	2.1197	2.0058	1.9963	.04957	50.652	.04833
SDev	.00017	.0051	.0024	.0035	.00005	.072	.00051
%RSD	.33168	.24276	.11949	.17645	.09919	.14125	1.0466
#1	.05156	2.1234	2.0041	1.9988	.04960	50.601	.04798
#2	.05180	2.1161	2.0075	1.9938	.04953	50.702	.04869
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.06000	2.4000	2.4000	2.4000	.06000	60.000	.06000
Low	.04000	1.6000	1.6000	1.6000	.04000	40.000	.04000

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50310	.20307	.24910	.92442	49.275	.49971	1.0182
SDev	.00106	.00020	.00036	.01219	.009	.00100	.0027
%RSD	.21139	.09903	.14625	1.3187	.01774	.19994	.26158
#1	.50235	.20292	.24936	.91580	49.269	.49900	1.0163
#2	.50386	.20321	.24885	.93304	49.281	.50041	1.0201
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.60000	.24000	.30000	1.2000	60.000	.60000	1.2000
Low	.40000	.16000	.20000	.80000	40.000	.40000	.80000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50381	.50413	.49418	.49749	.49015	.50430	.49959
SDev	.00109	.00151	.00019	.00037	.00150	.00262	.00125
%RSD	.21550	.30023	.03952	.07512	.30641	.51929	.24952
#1	.50304	.50306	.49432	.49723	.49121	.50245	.49870
#2	.50458	.50520	.49404	.49776	.48909	.50615	.50047
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.60000			.60000			.60000
Low	.40000			.40000			.40000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9505	1.9438	1.9461	2.0880	.50398	.49553
SDev	.0044	.0022	.0000	.0005	.00095	.00067
%RSD	.22548	.11343	.00032	.02357	.18814	.13480
#1	1.9536	1.9423	1.9460	2.0877	.50465	.49600
#2	1.9474	1.9454	1.9461	2.0884	.50331	.49506
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			2.4000	2.4000	.60000	.60000
Low			1.6000	1.6000	.40000	.40000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11448	--	--	--	--	--	--
SDev	21.63788	--	--	--	--	--	--
%RSD	.1890176	--	--	--	--	--	--
#1	11432	--	--	--	--	--	--
#2	11463	--	--	--	--	--	--

Method: METTRA Sample Name: DXFFA

Operator: WTR

Run Time: 03/25/01 12:48:56

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00137	17.080	.05059	2.9123	.00896	553.52	L-.00749
SDev	.00022	.006	.00130	.0030	.00019	.31	.00104
%RSD	16.224	.03305	2.5671	.10284	2.1389	.05566	13.936

#1	.00153	17.076	.04967	2.9144	.00910	553.30	L-.00823
#2	.00122	17.084	.05151	2.9102	.00883	553.74	L-.00675

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.03857	.10511	.41490	H1431.8	18.917	H10.353	.00767
SDev	.00014	.00109	.00077	.9	.004	.002	.00019
%RSD	.37224	1.0322	.18574	.06243	.02181	.02121	2.5343

#1	.03847	.10588	.41545	H1431.2	18.920	H10.352	.00753
#2	.03867	.10434	.41436	H1432.4	18.915	H10.355	.00780

Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC High	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.11375	.03691	.02119	.02642	-.00488	-.00301	-.00363
SDev	.00101	.00324	.00068	.00063	.00540	.00415	.00097
%RSD	.88615	8.7821	3.2036	2.3708	110.72	137.91	26.682

#1	.11446	.03461	.02167	.02598	-.00106	-.00595	-.00432
#2	.11303	.03920	.02071	.02687	-.00870	-.00007	-.00295

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00660	-.02100	L-.01621	L-.03454	.03196	4.0377
SDev	.00316	.00133	.00194	.00392	.00139	.0007
%RSD	47.890	6.3190	11.960	11.348	4.3575	.01713

#1	-.00884	-.02194	L-.01758	L-.03731	.03294	4.0382
#2	-.00437	-.02006	L-.01484	L-.03177	.03097	4.0372

Errors	NOCHECK	NOCHECK	LC Low	LC Low	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	12436	--	--	--	--	--	--
SDev	3.677093	--	--	--	--	--	--
%RSD	.0295678	--	--	--	--	--	--
#1	12439	--	--	--	--	--	--
#2	12434	--	--	--	--	--	--

Method: METTRA Sample Name: DXFFAP5

Operator: WTR

Run Time: 03/25/01 12:53:22

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00041	3.5080	.01219	.63063	.00260	129.45	-.00357
SDev	.00030	.0529	.00139	.00997	.00012	1.84	.00015
%RSD	74.267	1.5077	11.438	1.5809	4.7384	1.4208	4.2506
#1	.00019	3.5454	.01317	.63768	.00268	130.75	-.00368
#2	.00062	3.4706	.01120	.62358	.00251	128.15	-.00346
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00919	.02397	.08479	323.19	4.2172	2.2893	.00336
SDev	.00058	.00001	.00111	4.51	.0585	.0319	.00009
%RSD	6.2905	.05811	1.3040	1.3950	1.3864	1.3949	2.7867
#1	.00960	.02398	.08557	326.38	4.2586	2.3119	.00342
#2	.00878	.02396	.08401	320.00	4.1759	2.2667	.00329
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02545	.00822	.00539	.00633	-.00175	-.00166	-.00169
SDev	.00036	.00141	.00237	.00111	.00334	.00170	.00002
%RSD	1.4243	17.128	43.915	17.538	190.45	102.36	1.2958
#1	.02519	.00722	.00706	.00712	.00061	-.00286	-.00171
#2	.02570	.00921	.00372	.00555	-.00411	-.00046	-.00168
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00489	.00315	.00047	-.00320	.01161	.92816	
SDev	.00295	.00256	.00269	.00424	.00063	.01238	
%RSD	60.186	81.504	575.01	132.40	5.3880	1.3335	
#1	-.00698	.00133	-.00143	-.00020	.01205	.93691	
#2	-.00281	.00496	.00237	-.00620	.01117	.91941	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	12060	--	--	--	--	--	--
SDev	19.09188	--	--	--	--	--	--
%RSD	.1583114	--	--	--	--	--	--
#1	12073	--	--	--	--	--	--
#2	12046	--	--	--	--	--	--

Method: METTRA Sample Name: DXFFAS

Operator: WTR

Run Time: 03/25/01 12:57:47

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04735	25.899	1.7820	4.5039	.05049	564.52	.03201
SDev	.00005	.012	.0013	.0117	.00002	.45	.00028
%RSD	.11498	.04600	.07354	.25903	.04504	.07913	.86746
#1	.04739	25.907	1.7810	4.5121	.05051	564.21	.03181
#2	.04732	25.890	1.7829	4.4956	.05048	564.84	.03221
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.45330	.29162	.62029	H1373.0	61.351	H10.271	.84439
SDev	.00229	.00022	.00034	.8	.033	.015	.00039
%RSD	.50591	.07704	.05532	.05627	.05312	.15031	.04650
#1	.45168	.29146	.62053	H1372.4	61.374	H10.260	.84467
#2	.45492	.29178	.62005	H1373.5	61.328	H10.281	.84411
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC High	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.53886	.44878	.42845	.43522	.29641	.31450	.30848
SDev	.00862	.00264	.00347	.00144	.00437	.00181	.00025
%RSD	1.5996	.58753	.81046	.33043	1.4744	.57567	.08030
#1	.54496	.45064	.42600	.43420	.29950	.31322	.30865
#2	.53277	.44691	.43091	.43624	.29332	.31578	.30830
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	1.6821	1.6577	1.6658	1.4997	.47674	4.1374	
SDev	.0042	.0000	.0014	.0053	.00101	.0009	
%RSD	.24884	.00219	.08512	.35488	.21205	.02187	
#1	1.6792	1.6577	1.6648	1.4960	.47746	4.1380	
#2	1.6851	1.6577	1.6668	1.5035	.47603	4.1367	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	12236	--	--	--	--	--	--
SDev	1.378996	--	--	--	--	--	--
%RSD	.0112702	--	--	--	--	--	--
#1	12237	--	--	--	--	--	--
#2	12235	--	--	--	--	--	--

Method: METTRA Sample Name: DXFFAD

Operator: WTR

Run Time: 03/25/01 13:02:12

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04696	23.934	1.7591	4.3114	.04932	524.84	.03103
SDev	.00061	.002	.0031	.0033	.00001	.64	.00074
%RSD	1.3087	.00726	.17340	.07656	.02629	.12261	2.3814
#1	.04740	23.933	1.7612	4.3137	.04932	524.39	.03051
#2	.04653	23.936	1.7569	4.3091	.04933	525.30	.03156
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.44710	.29315	.58946	H1275.8	59.416	9.3694	.83919
SDev	.00045	.00039	.00117	.6	.021	.0120	.00289
%RSD	.09996	.13413	.19779	.04452	.03512	.12782	.34480
#1	.44741	.29287	.58863	H1275.3	59.431	9.3610	.83715
#2	.44678	.29343	.59028	H1276.2	59.401	9.3779	.84124
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.52115	.44439	.42579	.43199	.30053	.31568	.31063
SDev	.00217	.00007	.00185	.00121	.00206	.00044	.00098
%RSD	.41603	.01633	.43490	.28032	.68537	.13943	.31531
#1	.52268	.44445	.42448	.43113	.30198	.31599	.31133
#2	.51962	.44434	.42710	.43284	.29907	.31537	.30994
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	1.6779	1.6625	1.6676	1.5201	.47044	3.8820	
SDev	.0064	.0018	.0009	.0054	.00179	.0036	
%RSD	.37907	.10559	.05680	.35687	.37996	.09196	
#1	1.6734	1.6637	1.6670	1.5239	.47170	3.8795	
#2	1.6824	1.6612	1.6683	1.5162	.46917	3.8845	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	12193	--	--	--	--	--	--
SDev	13.43503	--	--	--	--	--	--
%RSD	.1101882	--	--	--	--	--	--
#1	12183	--	--	--	--	--	--
#2	12202	--	--	--	--	--	--

Method: METTRA Sample Name: DXFFA/5 FE

Operator: WTR

Run Time: 03/25/01 13:06:37

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD ✓
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00035	3.5463	.01181	.63457	.00265	130.35	-.00388
SDev	.00023	.0005	.00395	.00057	.00025	.17	.00058
%RSD	65.304	.01465	33.434	.08921	9.4130	.12720	15.038
#1	.00019	3.5466	.01460	.63497	.00283	130.47	-.00430
#2	.00052	3.5459	.00902	.63417	.00247	130.23	-.00347
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR ✓	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00920	.02433	.08499	325.06	4.2409	2.3002	.00388
SDev	.00044	.00054	.00036	.24	.0017	.0011	.00021
%RSD	4.8310	2.2143	.42721	.07447	.03893	.04845	5.5181
#1	.00889	.02471	.08474	325.23	4.2420	2.2994	.00373
#2	.00952	.02394	.08525	324.89	4.2397	2.3010	.00404
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB ✓	SB/1	SB/2	SB ✓
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02684	.00736	.00487	.00570	-.00144	-.00142	-.00142
SDev	.00075	.00016	.00104	.00064	.00101	.00139	.00059
%RSD	2.7941	2.1450	21.445	11.299	70.166	98.274	41.657
#1	.02631	.00725	.00561	.00615	-.00072	-.00240	-.00184
#2	.02737	.00747	.00413	.00524	-.00215	-.00043	-.00101
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE ✓	TL ✓	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00041	.00312	.00222	-.00285	.01272	.93508	
SDev	.00024	.00314	.00201	.00576	.00073	.00006	
%RSD	58.697	100.51	90.718	202.43	5.7777	.00669	
#1	.00058	.00090	.00080	-.00692	.01324	.93504	
#2	.00024	.00534	.00364	.00123	.01220	.93512	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11948	--	--	--	--	--	--
SDev	43.84062	--	--	--	--	--	--
%RSD	.3669224	--	--	--	--	--	--
#1	11979	--	--	--	--	--	--
#2	11917	--	--	--	--	--	--

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Method: METTRA Sample Name: DXFFAP25

Operator: WTR

Run Time: 03/25/01 13:11:02

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00027	.68932	.00282	.12650	.00122	26.211	-.00073
SDev	.00033	.00139	.00027	.00067	.00015	.175	.00029
%RSD	120.95	.20180	9.4709	.52978	12.435	.66783	39.537

#1	.00004	.69030	.00301	.12603	.00132	26.087	-.00053
#2	.00050	.68834	.00263	.12698	.00111	26.335	-.00093

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00170	.00531	.01510	65.088	.84437	.46249	.00148
SDev	.00037	.00013	.00020	.373	.00329	.00320	.00041
%RSD	21.911	2.4246	1.3031	.57297	.38929	.69178	27.614

#1	.00143	.00522	.01524	64.825	.84205	.46023	.00119
#2	.00196	.00540	.01496	65.352	.84670	.46475	.00176

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00602	-.00044	.00178	.00104	.00100	.00081	.00087
SDev	.00072	.00376	.00046	.00095	.00084	.00095	.00091
%RSD	11.892	850.34	25.609	91.134	83.125	117.38	104.25

#1	.00653	-.00310	.00210	.00037	.00160	.00148	.00152
#2	.00551	.00222	.00146	.00171	.00041	.00014	.00023

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00059	-.00409	-.00292	.00314	-.00148	.17869
SDev	.00299	.00433	.00189	.00353	.00002	.00079
%RSD	504.64	106.06	64.819	112.55	1.4518	.44078

#1	.00152	-.00715	-.00426	.00064	-.00146	.17814
#2	-.00271	-.00102	-.00158	.00563	-.00149	.17925

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	12010	--	--	--	--	--	--
SDev	75.80199	--	--	--	--	--	--
%RSD	.6311835	--	--	--	--	--	--
#1	12063	--	--	--	--	--	--
#2	11956	--	--	--	--	--	--

Method: METTRA Sample Name: CCV3-1 0087-118-1 ¹²⁶₁₃₇₃ 3200 Operator: WTR
 Run Time: 03/25/01 13:15:28
 Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACE ICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0168	23.957	.50888	1.9612	1.9796	49.560	.49515
SDev	.0043	.143	.00327	.0110	.0085	.214	.00125
%RSD	.42512	.59706	.64176	.56291	.42986	.43154	.25180
#1	1.0198	24.059	.51119	1.9691	1.9856	49.711	.49603
#2	1.0137	23.856	.50657	1.9534	1.9735	49.409	.49427
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	55.000	.55000
Low	.90000	22.500	.45000	1.8000	1.8000	45.000	.45000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9933	1.9837	1.9397	24.648	48.352	1.9569	1.9838
SDev	.0083	.0084	.0110	.092	.256	.0078	.0061
%RSD	.41738	.42457	.56575	.37130	.52920	.40023	.30977
#1	1.9992	1.9897	1.9474	24.712	48.533	1.9625	1.9882
#2	1.9874	1.9778	1.9319	24.583	48.171	1.9514	1.9795
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	27.500	55.000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	22.500	45.000	1.8000	1.8000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9989	.50512	.49999	.50169	.50491	.50535	.50521
SDev	.0169	.00384	.00332	.00349	.00058	.00345	.00211
%RSD	.84310	.76038	.66393	.69627	.11458	.68274	.41738
#1	2.0108	.50783	.50233	.50416	.50450	.50779	.50670
#2	1.9870	.50240	.49764	.49922	.50532	.50291	.50371
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000			.55000			.55000
Low	1.8000			.45000			.45000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.50744	.51300	.51115	1.0280	1.9773	1.9969	
SDev	.00767	.00770	.00769	.0050	.0117	.0103	
%RSD	1.5110	1.5006	1.5040	.48827	.59381	.51687	
#1	.51287	.51844	.51659	1.0245	1.9856	2.0042	
#2	.50202	.50756	.50571	1.0316	1.9690	1.9896	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.55000	1.1000	2.2000	2.2000	
Low			.45000	.90000	1.8000	1.8000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11642	--	--	--	--	--	--
SDev	37.86612	--	--	--	--	--	--
%RSD	.3252663	--	--	--	--	--	--
#1	11615	--	--	--	--	--	--
#2	11668	--	--	--	--	--	--

Method: METTRA Sample Name: CCB1

Operator: WTR

Run Time: 03/25/01 13:19:53

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00081	.03136	-.00041	.00033	.00111	-.02683	.00009
SDev	.00023	.00231	.00275	.00005	.00005	.00891	.00031
%RSD	29.007	7.3671	672.95	14.076	4.3548	33.192	343.86
#1	.00064	.03299	-.00235	.00030	.00115	-.03313	-.00013
#2	.00097	.02973	.00154	.00036	.00108	-.02053	.00031
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00007	.00068	-.00078	.03110	.00437	.00044	.00285
SDev	.00065	.00016	.00010	.01456	.00255	.00019	.00090
%RSD	878.11	24.282	12.460	46.820	58.276	42.702	31.749
#1	-.00038	.00056	-.00071	.02080	.00257	.00031	.00221
#2	.00053	.00079	-.00085	.04139	.00617	.00057	.00348
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00031	-.00005	.00054	.00034	-.00079	.00034	-.00004
SDev	.00000	.00070	.00117	.00055	.00115	.00025	.00021
%RSD	.17002	1437.4	217.07	159.04	145.57	75.345	549.34
#1	-.00031	-.00055	.00136	.00073	.00002	.00016	.00011
#2	-.00031	.00045	-.00029	-.00004	-.00161	.00052	-.00019
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00040	-.00184	-.00110	.00137	.00070	-.01200	
SDev	.00385	.00243	.00291	.00112	.00098	.00014	
%RSD	957.31	131.97	265.26	82.074	140.08	1.2046	
#1	-.00232	-.00356	-.00315	.00217	.00001	-.01211	
#2	.00313	-.00012	.00096	.00058	.00139	-.01190	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11860	--	--	--	--	--	--
SDev	10.18261	--	--	--	--	--	--
%RSD	.0858586	--	--	--	--	--	--
#1	11853	--	--	--	--	--	--
#2	11867	--	--	--	--	--	--

Method: METTRA Sample Name: DXFFAS/5 FE Operator: WTR
 Run Time: 03/25/01 13:24:19
 Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD ✓
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01048	5.4226	.40345	.98499	.01201	133.10	.00593
SDev	.00030	.0034	.00194	.00150	.00002	.17	.00030
%RSD	2.8357	.06333	.47973	.15211	.17304	.12793	5.1405
#1	.01027	5.4251	.40482	.98605	.01199	133.22	.00572
#2	.01069	5.4202	.40209	.98394	.01202	132.98	.00615
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR ✓	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.10479	.06634	.12725	311.28	13.684	2.2885	.19235
SDev	.00037	.00066	.00021	.28	.022	.0020	.00071
%RSD	.35577	.99303	.16786	.09112	.15995	.08835	.36892
#1	.10453	.06587	.12740	311.48	13.699	2.2899	.19185
#2	.10505	.06680	.12710	311.08	13.668	2.2871	.19285
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB ✓	SB/1	SB/2	SB ✓
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.12337	.10188	.09892	.09991	.06815	.07210	.07078
SDev	.00143	.00127	.00255	.00213	.00370	.00476	.00441
%RSD	1.1575	1.2467	2.5793	2.1268	5.4354	6.5962	6.2241
#1	.12236	.10278	.10073	.10141	.06553	.06874	.06767
#2	.12438	.10098	.09712	.09840	.07077	.07546	.07390
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE ✓	TL ✓	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.39892	.40808	.40503	.34612	.11290	.96052	
SDev	.00465	.00215	.00298	.00092	.00009	.00270	
%RSD	1.1662	.52690	.73659	.26632	.08019	.28097	
#1	.40221	.40960	.40714	.34677	.11296	.96243	
#2	.39563	.40656	.40292	.34547	.11284	.95861	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11805	--	--	--	--	--	--
SDev	.1063422	--	--	--	--	--	--
%RSD	.0009009	--	--	--	--	--	--
#1	11805	--	--	--	--	--	--
#2	11805	--	--	--	--	--	--

Method: METTRA Sample Name: DXFFAD/5 FE

Operator: WTR

Run Time: 03/25/01 13:28:45

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD ✓
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01013	4.9166	.39926	.93920	.01163	122.18	.00588
SDev	.00016	.0245	.00484	.00395	.00010	.51	.00020
%RSD	1.5776	.49737	1.2118	.42020	.84437	.42148	3.4690
#1	.01002	4.9339	.40268	.94199	.01170	122.54	.00573
#2	.01024	4.8993	.39584	.93641	.01156	121.81	.00602
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR ✓	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.10331	.06634	.12101	286.87	13.140	2.0766	.19001
SDev	.00037	.00028	.00028	1.10	.041	.0073	.00000
%RSD	.35635	.41761	.23097	.38287	.31514	.35022	.00098
#1	.10305	.06654	.12121	287.64	13.170	2.0817	.19001
#2	.10357	.06614	.12081	286.09	13.111	2.0715	.19001
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB ✓	SB/1	SB/2	SB ✓
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.12162	.09881	.09950	.09927	.06954	.07103	.07053
SDev	.00033	.00067	.00028	.00041	.00087	.00067	.00016
%RSD	.27209	.67889	.27692	.41016	1.2474	.94087	.22243
#1	.12138	.09834	.09931	.09898	.06893	.07150	.07064
#2	.12185	.09929	.09970	.09956	.07015	.07055	.07042
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE ✓	TL ✓	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.38867	.39880	.39542	.35070	.10635	.89206	
SDev	.00217	.00016	.00083	.00064	.00087	.00336	
%RSD	.55952	.04035	.21027	.18224	.81581	.37619	
#1	.38713	.39868	.39483	.35025	.10696	.89444	
#2	.39020	.39891	.39601	.35115	.10573	.88969	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11915	--	--	--	--	--	--
SDev	106.8795	--	--	--	--	--	--
%RSD	.8970518	--	--	--	--	--	--
#1	11990	--	--	--	--	--	--
#2	11839	--	--	--	--	--	--

Method: METTRA Sample Name: DXK1DB

Operator: WTR

Run Time: 03/25/01 13:33:11

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00041	.03414	.00105	.00009	.00062	-.04069	.00017
SDev	.00005	.00307	.00014	.00010	.00002	.00398	.00008
%RSD	12.403	8.9829	13.447	106.49	3.1834	9.7808	47.682
#1	.00037	.03631	.00115	.00016	.00061	-.04350	.00011
#2	.00045	.03197	.00095	.00002	.00064	-.03787	.00023
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00072	.00151	-.00018	.05182	.00101	.00081	.00184
SDev	.00043	.00002	.00022	.00345	.00000	.00003	.00146
%RSD	59.492	1.6090	124.59	6.6632	.00113	4.0025	79.144
#1	-.00042	.00149	-.00033	.05426	.00101	.00083	.00287
#2	-.00103	.00152	-.00002	.04938	.00101	.00078	.00081
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00144	.00288	.00042	.00124	-.00241	.00231	.00074
SDev	.00090	.00171	.00046	.00088	.00228	.00274	.00259
%RSD	62.778	59.214	110.72	70.761	94.519	118.83	352.01
#1	.00208	.00168	.00009	.00062	-.00080	.00425	.00257
#2	.00080	.00409	.00074	.00186	-.00403	.00037	-.00110
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	-.01240	.00299	-.00214	-.00628	.00025	-.01399	
SDev	.00272	.00057	.00052	.00011	.00034	.00031	
%RSD	21.894	19.190	24.415	1.7234	132.65	2.2271	
#1	-.01432	.00339	-.00251	-.00620	.00049	-.01421	
#2	-.01048	.00258	-.00177	-.00636	.00002	-.01377	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11474	--	--	--	--	--	--
SDev	.0352172	--	--	--	--	--	--
%RSD	.0003069	--	--	--	--	--	--
#1	11474	--	--	--	--	--	--
#2	11474	--	--	--	--	--	--

Method: METTRA Sample Name: DXK1DC

Operator: WTR

Run Time: 03/25/01 13:37:37

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05116	2.0737	1.9908	1.9860	.04980	50.792	.04863
SDev	.00047	.0052	.0042	.0019	.00007	.082	.00024
%RSD	.92131	.25295	.21131	.09547	.13551	.16061	.48656
#1	.05149	2.0774	1.9878	1.9873	.04975	50.734	.04846
#2	.05082	2.0700	1.9937	1.9846	.04985	50.850	.04880
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.06000	2.4000	2.4000	2.4000	.06000	60.000	.06000
Low	.04000	1.6000	1.6000	1.6000	.04000	40.000	.04000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50295	.20322	.24727	.90494	49.518	.49608	1.0118
SDev	.00102	.00022	.00082	.00278	.039	.00102	.0055
%RSD	.20203	.10847	.33049	.30679	.07805	.20583	.54051
#1	.50223	.20307	.24785	.90690	49.490	.49536	1.0079
#2	.50367	.20338	.24670	.90298	49.545	.49680	1.0156
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.60000	.24000	.30000	1.2000	60.000	.60000	1.2000
Low	.40000	.16000	.20000	.80000	40.000	.40000	.80000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50244	.50591	.49444	.49826	.48387	.49930	.49416
SDev	.00213	.00158	.00189	.00073	.00318	.00341	.00121
%RSD	.42420	.31276	.38250	.14743	.65649	.68243	.24585
#1	.50395	.50703	.49310	.49774	.48163	.50171	.49502
#2	.50093	.50479	.49578	.49878	.48612	.49689	.49330
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.60000			.60000			.60000
Low	.40000			.40000			.40000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	1.9247	1.9242	1.9244	2.0836	.50576	.49108	
SDev	.0027	.0067	.0036	.0086	.00392	.00125	
%RSD	.14128	.35058	.18676	.41355	.77528	.25470	
#1	1.9228	1.9290	1.9270	2.0776	.50853	.49020	
#2	1.9267	1.9195	1.9219	2.0897	.50299	.49197	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			2.4000	2.4000	.60000	.60000	
Low			1.6000	1.6000	.40000	.40000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11499	--	--	--	--	--	--
SDev	20.43566	--	--	--	--	--	--
%RSD	.1777184	--	--	--	--	--	--
#1	11484	--	--	--	--	--	--
#2	11513	--	--	--	--	--	--

Method: METTRA Sample Name: DXJL6

Operator: WTR

Run Time: 03/25/01 13:42:03

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00141	6.0163	.40612	1.2627	.00315	H937.65	-.00337
SDev	.00021	.0101	.00333	.0010	.00005	.11	.00031
%RSD	15.030	.16752	.82000	.08123	1.5809	.01139	9.2655
#1	.00156	6.0234	.40376	1.2619	.00318	H937.72	-.00359
#2	.00126	6.0092	.40847	1.2634	.00311	H937.57	-.00315
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07672	.28369	.44502	H612.70	29.774	7.4539	.00972
SDev	.00011	.00128	.00007	.38	.004	.0042	.00000
%RSD	.13667	.45296	.01524	.06166	.01305	.05638	.01489
#1	.07664	.28278	.44497	H612.43	29.771	7.4509	.00972
#2	.07679	.28460	.44506	H612.97	29.776	7.4569	.00972
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.09897	.05251	.04820	.04964	-.00173	-.00073	-.00106
SDev	.00333	.00302	.00161	.00007	.00010	.00348	.00229
%RSD	3.3645	5.7461	3.3300	.13246	5.7227	477.67	215.32
#1	.09662	.05465	.04707	.04959	-.00180	.00173	.00055
#2	.10132	.05038	.04934	.04968	-.00166	-.00319	-.00268
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00813	-.00870	L-.00851	L-.01036	.03351	1.0620	
SDev	.00066	.00184	.00145	.00416	.00089	.0008	
%RSD	8.1254	21.116	16.983	40.168	2.6595	.07160	
#1	-.00860	-.01000	L-.00954	-.00741	.03414	1.0614	
#2	-.00767	-.00740	L-.00749	L-.01330	.03288	1.0625	
Errors	NOCHECK	NOCHECK	LC Low	LC Low	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11723	--	--	--	--	--	--
SDev	1.732550	--	--	--	--	--	--
%RSD	.0147785	--	--	--	--	--	--
#1	11725	--	--	--	--	--	--
#2	11722	--	--	--	--	--	--

Method: METTRA Sample Name: DXJL6P5

Operator: WTR

Run Time: 03/25/01 13:46:29

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00043	1.2276	.08627	.26139	.00131	213.25	-.00125
SDev	.00042	.0027	.00044	.00102	.00018	.87	.00045
%RSD	97.883	.21986	.50392	.39144	14.145	.40581	35.543
#1	.00013	1.2295	.08596	.26211	.00144	213.86	-.00157
#2	.00073	1.2257	.08658	.26067	.00117	212.64	-.00094
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01669	.06092	.08733	130.11	6.2186	1.5707	.00402
SDev	.00007	.00025	.00044	.48	.0257	.0049	.00030
%RSD	.44837	.40635	.50827	.37190	.41348	.31037	7.4605
#1	.01674	.06109	.08765	130.45	6.2367	1.5742	.00423
#2	.01663	.06074	.08702	129.77	6.2004	1.5673	.00380
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02056	.01039	.01162	.01121	.00025	-.00098	-.00057
SDev	.00112	.00076	.00077	.00026	.00025	.00111	.00066
%RSD	5.4701	7.2839	6.6621	2.3572	97.640	113.17	115.47
#1	.01977	.00985	.01216	.01140	.00043	-.00177	-.00104
#2	.02136	.01092	.01107	.01102	.00008	-.00020	-.00010
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00139	-.00133	-.00135	-.00028	.00910	.21681	
SDev	.00013	.00068	.00041	.00009	.00019	.00101	
%RSD	9.1765	50.731	30.160	33.209	2.1091	.46676	
#1	-.00130	-.00181	-.00164	-.00022	.00924	.21752	
#2	-.00148	-.00085	-.00106	-.00035	.00897	.21609	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11768	--	--	--	--	--	--
SDev	13.54068	--	--	--	--	--	--
%RSD	.1150667	--	--	--	--	--	--
#1	11777	--	--	--	--	--	--
#2	11758	--	--	--	--	--	--

Method: METTRA Sample Name: DXJL6S

Operator: WTR

Run Time: 03/25/01 13:50:55

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05103	12.198	2.2409	3.0194	.04738	H917.43	.03889
SDev	.00085	.141	.0263	.0390	.00043	9.57	.00032
%RSD	1.6672	1.1540	1.1734	1.2907	.90169	1.0437	.82827
#1	.05163	12.298	2.2595	3.0469	.04768	H924.20	.03911
#2	.05043	12.099	2.2223	2.9918	.04708	H910.66	.03866
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.52257	.44601	.67911	H569.63	74.048	7.5673	.90778
SDev	.00569	.00546	.00883	6.21	.928	.0843	.00881
%RSD	1.0894	1.2236	1.2997	1.0907	1.2532	1.1137	.97001
#1	.52660	.44987	.68535	H574.02	74.704	7.6269	.91400
#2	.51855	.44215	.67287	H565.24	73.391	7.5077	.90155
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.53854	.50154	.48664	.49161	.41336	.42895	.42375
SDev	.00877	.00616	.00701	.00673	.00297	.00250	.00266
%RSD	1.6287	1.2285	1.4407	1.3686	.71754	.58401	.62739
#1	.54475	.50590	.49160	.49636	.41545	.43072	.42563
#2	.53234	.49719	.48169	.48685	.41126	.42718	.42187
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	1.8535	1.8520	1.8525	1.8680	.50755	1.4332	
SDev	.0108	.0242	.0197	.0220	.00719	.0158	
%RSD	.58314	1.3074	1.0661	1.1771	1.4166	1.1023	
#1	1.8612	1.8691	1.8665	1.8836	.51264	1.4443	
#2	1.8459	1.8349	1.8385	1.8525	.50247	1.4220	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11525	--	--	--	--	--	--
SDev	113.1019	--	--	--	--	--	--
%RSD	.9813462	--	--	--	--	--	--
#1	11445	--	--	--	--	--	--
#2	11605	--	--	--	--	--	--

Method: METTRA Sample Name: DXJL6D

Operator: WTR

Run Time: 03/25/01 13:55:20

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05019	11.394	2.2083	2.9520	.04705	H912.39	.03793
SDev	.00042	.014	.0117	.0048	.00006	.09	.00061
%RSD	.84178	.12292	.53160	.16157	.13193	.00960	1.6057
#1	.04989	11.404	2.2166	2.9554	.04701	H912.46	.03750
#2	.05049	11.384	2.2000	2.9487	.04710	H912.33	.03836
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51726	.44911	.65508	H584.51	70.321	7.4316	.91179
SDev	.00099	.00049	.00116	.02	.088	.0020	.00179
%RSD	.19077	.11001	.17765	.00367	.12578	.02758	.19683
#1	.51796	.44876	.65590	H584.52	70.384	7.4302	.91052
#2	.51657	.44946	.65426	H584.49	70.259	7.4331	.91306
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.53299	.49272	.47952	.48391	.41561	.43030	.42541
SDev	.00056	.00196	.00187	.00190	.00188	.00498	.00395
%RSD	.10480	.39791	.39108	.39339	.45202	1.1567	.92746
#1	.53338	.49410	.48084	.48526	.41429	.42678	.42262
#2	.53259	.49133	.47819	.48257	.41694	.43382	.42820
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TI	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	1.8408	1.8430	1.8423	1.8639	.50200	1.3592	
SDev	.0031	.0092	.0051	.0034	.00279	.0002	
%RSD	.16609	.49733	.27659	.18019	.55603	.01555	
#1	1.8386	1.8495	1.8459	1.8663	.50003	1.3590	
#2	1.8429	1.8365	1.8387	1.8615	.50398	1.3593	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11598	--	--	--	--	--	--
SDev	7.283752	--	--	--	--	--	--
%RSD	.0628021	--	--	--	--	--	--
#1	11593	--	--	--	--	--	--
#2	11603	--	--	--	--	--	--

Method: METTRA Sample Name: DXJL6/2 FE

Operator: WTR

Run Time: 03/25/01 13:59:45

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD ✓
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00092	3.0006	.21131	.64281	.00218	506.69	-.00288
SDev	.00010	.0267	.00026	.00547	.00003	3.56	.00030
%RSD	10.916	.89026	.12409	.85067	1.3911	.70201	10.456
#1	.00099	3.0194	.21112	.64668	.00221	509.21	-.00310
#2	.00085	2.9817	.21149	.63894	.00216	504.18	-.00267
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR ✓	CU ✓	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04093	.14644	.22163	316.62	15.303	3.8188	.00666
SDev	.00057	.00041	.00147	2.20	.113	.0255	.00063
%RSD	1.3857	.28251	.66289	.69543	.73958	.66705	9.4952
#1	.04133	.14673	.22267	318.18	15.383	3.8368	.00711
#2	.04053	.14615	.22060	315.06	15.223	3.8007	.00621
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB ✓	SB/1	SB/2	SB ✓
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05070	.02676	.02491	.02553	-.00030	-.00298	-.00209
SDev	.00003	.00152	.00237	.00209	.00111	.00068	.00008
%RSD	.06417	5.6689	9.5229	8.1774	371.01	22.733	3.8763
#1	.05068	.02569	.02323	.02405	-.00109	-.00250	-.00203
#2	.05073	.02784	.02659	.02700	.00049	-.00346	-.00214
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE ✓	TL ✓	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00614	.00400	.00063	-.00281	.02428	.54454	
SDev	.00190	.00068	.00018	.00626	.00042	.00487	
%RSD	30.926	16.899	28.950	222.95	1.7331	.89513	
#1	-.00480	.00352	.00075	.00162	.02458	.54799	
#2	-.00748	.00448	.00050	-.00723	.02399	.54109	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11785	--	--	--	--	--	--
SDev	43.34551	--	--	--	--	--	--
%RSD	.3678008	--	--	--	--	--	--
#1	11754	--	--	--	--	--	--
#2	11816	--	--	--	--	--	--

Method: METTRA Sample Name: DXJL6P10

Operator: WTR

Run Time: 03/25/01 14:04:11

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem Units	AG ppm	AL ppm	AS ppm	BA ppm	BE ppm	CA ppm	CD ✓ ppm
Avg	.00088	.62052	.04455	.13280	.00111	109.63	-.00049
SDev	.00011	.00006	.00209	.00038	.00022	.48	.00019
%RSD	12.656	.00920	4.6968	.29025	20.137	.43897	38.804

#1	.00096	.62056	.04603	.13308	.00127	109.97	-.00062
#2	.00080	.62048	.04307	.13253	.00096	109.29	-.00036

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem Units	CO ppm	CR ✓ ppm	CU ppm	FE ppm	MG ppm	MN ppm	MO ppm
Avg	.00885	.03141	.04278	66.435	3.1595	.80342	.00260
SDev	.00012	.00026	.00024	.288	.0136	.00335	.00052
%RSD	1.3512	.82529	.57104	.43383	.42970	.41750	19.903

#1	.00894	.03160	.04295	66.639	3.1691	.80579	.00223
#2	.00877	.03123	.04261	66.231	3.1499	.80105	.00296

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem Units	NI ppm	PB/1 ppm	PB/2 ppm	PB ✓ ppm	SB/1 ppm	SB/2 ppm	SB ✓ ppm
Avg	.01191	.00560	.00506	.00524	-.00033	-.00204	-.00147
SDev	.00202	.00177	.00047	.00028	.00194	.00157	.00040
%RSD	16.996	31.599	9.3047	5.2518	586.88	76.793	27.174

#1	.01048	.00685	.00473	.00543	.00104	-.00315	-.00176
#2	.01334	.00435	.00539	.00504	-.00170	-.00093	-.00119

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem Units	SE/1 ppm	SE/2 ppm	SE ✓ ppm	TL ✓ ppm	V_ ppm	ZN ppm
Avg	-.00255	-.00339	-.00311	.00106	.00513	.10493
SDev	.00141	.00830	.00600	.00112	.00046	.00050
%RSD	55.256	244.49	192.80	106.10	9.0267	.47821

#1	-.00355	-.00926	L-.00736	.00185	.00546	.10529
#2	-.00156	.00247	.00113	.00026	.00481	.10458

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11701	--	--	--	--	--	--
SDev	30.08725	--	--	--	--	--	--
%RSD	.2571236	--	--	--	--	--	--
#1	11723	--	--	--	--	--	--
#2	11680	--	--	--	--	--	--

Method: METTRA Sample Name: CCV3-2 Operator: WTR
 Run Time: 03/25/01 14:08:36
 Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0225	24.132	.51744	1.9703	1.9966	50.046	.50173
SDev	.0017	.038	.00035	.0045	.0024	.003	.00035
%RSD	.16230	.15834	.06759	.22861	.12080	.00685	.06991
#1	1.0236	24.159	.51769	1.9735	1.9983	50.048	.50198
#2	1.0213	24.105	.51719	1.9671	1.9949	50.044	.50148
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	55.000	.55000
Low	.90000	22.500	.45000	1.8000	1.8000	45.000	.45000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0094	2.0008	1.9474	24.836	48.870	1.9702	2.0080
SDev	.0024	.0023	.0053	.011	.081	.0008	.0008
%RSD	.11845	.11602	.27076	.04570	.16673	.03984	.03751
#1	2.0077	1.9991	1.9511	24.844	48.928	1.9697	2.0074
#2	2.0111	2.0024	1.9436	24.828	48.813	1.9708	2.0085
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	27.500	55.000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	22.500	45.000	1.8000	1.8000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0189	.50907	.50497	.50633	.51134	.51109	.51117
SDev	.0051	.00165	.00385	.00312	.00092	.00100	.00036
%RSD	.25360	.32328	.76233	.61534	.17911	.19641	.07132
#1	2.0225	.50790	.50225	.50413	.51069	.51180	.51143
#2	2.0153	.51023	.50769	.50854	.51199	.51038	.51092
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000			.55000			.55000
Low	1.8000			.45000			.45000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.51590	.51839	.51756	1.0448	1.9993	2.0139	
SDev	.00187	.00301	.00139	.0041	.0091	.0027	
%RSD	.36162	.58140	.26837	.39469	.45688	.13402	
#1	.51459	.52052	.51855	1.0418	2.0057	2.0158	
#2	.51722	.51626	.51658	1.0477	1.9928	2.0120	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.55000	1.1000	2.2000	2.2000	
Low			.45000	.90000	1.8000	1.8000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11565	--	--	--	--	--	--
SDev	32.27901	--	--	--	--	--	--
%RSD	.2790992	--	--	--	--	--	--
#1	11588	--	--	--	--	--	--
#2	11543	--	--	--	--	--	--

Method: METTRA Sample Name: CCB2

Operator: WTR

Run Time: 03/25/01 14:13:01

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00043	.03796	.00172	.00019	.00137	-.02046	.00003
SDev	.00012	.00291	.00131	.00009	.00016	.02261	.00016
%RSD	28.696	7.6742	75.976	48.302	11.743	110.53	568.81

#1	.00034	.04002	.00080	.00013	.00126	-.03645	.00014
#2	.00052	.03590	.00264	.00025	.00149	-.00447	-.00008

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00056	.00048	-.00137	.01430	.00653	.00046	.00320
SDev	.00023	.00007	.00028	.01572	.00152	.00028	.00002
%RSD	41.128	13.871	20.159	109.88	23.274	60.319	.53236

#1	.00040	.00043	-.00157	.00319	.00546	.00026	.00322
#2	.00073	.00052	-.00118	.02542	.00761	.00066	.00319

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00046	-.00194	.00234	.00092	-.00018	.00021	.00008
SDev	.00000	.00181	.00253	.00109	.00319	.00055	.00069
%RSD	.66656	93.279	108.20	118.71	1740.6	262.51	874.72

#1	.00046	-.00322	.00413	.00169	.00207	-.00018	.00057
#2	.00046	-.00066	.00055	.00015	-.00244	.00060	-.00041

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00155	-.00381	-.00202	.00458	.00047	-.01379
SDev	.00066	.00033	.00044	.00228	.00000	.00029
%RSD	42.581	8.5386	21.566	49.909	.56399	2.1148

#1	.00202	-.00358	-.00172	.00619	.00046	-.01400
#2	.00108	-.00404	-.00233	.00296	.00047	-.01358

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			.00500	.01000	.05000	.02000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11851	--	--	--	--	--	--
SDev	61.69507	--	--	--	--	--	--
%RSD	.5205994	--	--	--	--	--	--
#1	11807	--	--	--	--	--	--
#2	11894	--	--	--	--	--	--

Method: METTRA Sample Name: DXJL6S/2 FE Operator: WTR
 Run Time: 03/25/01 14:17:27
 Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD ✓
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02596	6.0722	1.1630	1.5457	.02504	495.51	.02018
SDev	.00026	.0044	.0023	.0033	.00001	.47	.00018
%RSD	1.0219	.07174	.20087	.21111	.02083	.09406	.87942
#1	.02577	6.0753	1.1646	1.5480	.02504	495.84	.02005
#2	.02614	6.0691	1.1613	1.5434	.02505	495.19	.02030
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR ✓	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.27369	.23099	.33967	294.21	37.994	3.8931	.47362
SDev	.00002	.00003	.00100	.11	.045	.0012	.00006
%RSD	.00584	.01402	.29555	.03749	.11790	.03081	.01232
#1	.27368	.23096	.34038	294.29	38.026	3.8923	.47366
#2	.27370	.23101	.33896	294.13	37.962	3.8940	.47358
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB ✓	SB/1	SB/2	SB ✓
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.28086	.26214	.25433	.25693	.21440	.22039	.21840
SDev	.00154	.00056	.00056	.00019	.00013	.00588	.00396
%RSD	.54788	.21331	.22095	.07340	.05870	2.6674	1.8146
#1	.28195	.26175	.25472	.25706	.21449	.22455	.22120
#2	.27977	.26254	.25393	.25680	.21431	.21624	.21560
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE ✓	TL ✓	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.98200	.98925	.98684	.98059	.25955	.73631	
SDev	.00438	.00342	.00374	.00101	.00029	.00096	
%RSD	.44614	.34568	.37897	.10331	.11184	.13068	
#1	.97890	.98683	.98419	.98131	.25975	.73699	
#2	.98510	.99167	.98948	.97988	.25934	.73563	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11579	--	--	--	--	--	--
SDev	28.81460	--	--	--	--	--	--
%RSD	.2488496	--	--	--	--	--	--
#1	11600	--	--	--	--	--	--
#2	11559	--	--	--	--	--	--

Method: METTRA Sample Name: DXJL6D/2 FE

Operator: WTR

Run Time: 03/25/01 14:21:52

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD✓
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02577	5.7121	1.1471	1.5195	.02488	494.55	.01984
SDev	.00012	.0378	.0010	.0059	.00013	1.87	.00009
%RSD	.45497	.66212	.08461	.38633	.50759	.37816	.45984
#1	.02585	5.7389	1.1465	1.5236	.02497	495.87	.01990
#2	.02568	5.6854	1.1478	1.5153	.02479	493.22	.01977
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR✓	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.27161	.23299	.32937	302.98	36.230	3.8385	.47365
SDev	.00122	.00024	.00167	.91	.118	.0067	.00071
%RSD	.44810	.10219	.50590	.29907	.32579	.17359	.14995
#1	.27247	.23316	.33055	303.62	36.313	3.8432	.47315
#2	.27075	.23282	.32819	302.34	36.147	3.8338	.47416
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB✓	SB/1	SB/2	SB✓
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.28098	.25865	.25328	.25507	.21508	.22223	.21985
SDev	.00497	.00071	.00166	.00087	.00154	.00229	.00101
%RSD	1.7696	.27282	.65619	.34249	.71517	1.0297	.46123
#1	.28450	.25815	.25446	.25569	.21399	.22385	.22057
#2	.27747	.25914	.25211	.25445	.21617	.22061	.21913
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE✓	TL✓	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.98338	.97807	.97984	.97485	.25817	.70707	
SDev	.00251	.00344	.00146	.01026	.00172	.00340	
%RSD	.25568	.35194	.14887	1.0529	.66754	.48070	
#1	.98161	.98050	.98087	.98211	.25938	.70948	
#2	.98516	.97563	.97881	.96759	.25695	.70467	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11642	--	--	--	--	--	--
SDev	7.742958	--	--	--	--	--	--
%RSD	.0665061	--	--	--	--	--	--
#1	11637	--	--	--	--	--	--
#2	11648	--	--	--	--	--	--

Method: METTRA Sample Name: DXQT1B

Operator: WTR

Run Time: 03/25/01 14:26:18

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00046	.04420	.00017	.00027	.00087	-.01069	.00013
SDev	.00004	.00955	.00007	.00004	.00001	.00937	.00002
%RSD	8.3932	21.594	41.405	14.292	.97961	87.649	18.873
#1	.00043	.05095	.00022	.00024	.00088	-.00407	.00015
#2	.00048	.03745	.00012	.00029	.00087	-.01732	.00011
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00008	.00139	-.00096	.03695	.00250	.00076	.00375
SDev	.00010	.00019	.00017	.02217	.00421	.00010	.00000
%RSD	119.03	13.931	17.249	59.998	168.33	12.608	.08541
#1	-.00015	.00125	-.00108	.05262	.00548	.00069	.00375
#2	-.00001	.00152	-.00084	.02127	-.00048	.00083	.00375
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00184	.00433	.00065	.00188	.00119	.00113	.00115
SDev	.00215	.00087	.00219	.00175	.00363	.00078	.00173
%RSD	116.70	20.097	334.50	93.111	304.22	68.835	150.07
#1	.00336	.00495	.00220	H.00312	.00376	.00168	.00237
#2	.00032	.00372	-.00089	.00064	-.00137	.00058	-.00007
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00534	.00596	.00220	.00287	.00049	-.01370	
SDev	.00188	.00164	.00046	.00189	.00067	.00001	
%RSD	35.267	27.442	21.108	66.050	136.54	.08977	
#1	-.00667	.00712	.00253	.00421	.00002	-.01371	
#2	-.00401	.00480	.00187	.00153	.00096	-.01369	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11476	--	--	--	--	--	--
SDev	9.616376	--	--	--	--	--	--
%RSD	.0837944	--	--	--	--	--	--
#1	11469	--	--	--	--	--	--
#2	11483	--	--	--	--	--	--

Method: METTRA Sample Name: DXQT1C

Run Time: 03/25/01 14:30:44

Operator: WTR

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04947	1.8421	2.0031	1.9298	.04998	L-.04541	.04951
SDev	.00008	.0195	.0156	.0104	.00029	.00377	.00139
%RSD	.17061	1.0582	.77954	.53792	.58086	8.2949	2.8185
#1	.04953	1.8559	2.0142	1.9372	.05018	L-.04807	.05049
#2	.04941	1.8283	1.9921	1.9225	.04977	L-.04274	.04852
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass
High	.06000	2.4000	2.4000	2.4000	.06000	60.000	.06000
Low	.04000	1.6000	1.6000	1.6000	.04000	40.000	.04000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51044	.20264	.23827	1.0170	L.00070	.49160	L.00218
SDev	.00213	.00103	.00043	.0251	.00363	.00120	.00133
%RSD	.41759	.50902	.18196	2.4724	521.38	.24340	61.087
#1	.51195	.20337	.23858	1.0348	L.00326	.49245	L.00124
#2	.50893	.20191	.23796	.99925	L-.00187	.49076	L.00312
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass	LC Low
High	.60000	.24000	.30000	1.2000	60.000	.60000	1.2000
Low	.40000	.16000	.20000	.80000	40.000	.40000	.80000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50942	.50035	.50095	.50075	.00028	-.00000	L.00009
SDev	.00214	.00196	.00034	.00088	.00153	.00390	.00209
%RSD	.42077	.39085	.06761	.17516	554.09	743230.	2280.9
#1	.51093	.49897	.50071	.50013	-.00081	.00276	L.00157
#2	.50790	.50174	.50119	.50137	.00136	-.00276	L-.00139
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Low
High	.60000			.60000			.60000
Low	.40000			.40000			.40000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	1.9781	1.9806	1.9798	2.0286	.48886	.49552	
SDev	.0026	.0059	.0031	.0135	.00276	.00239	
%RSD	.12940	.29565	.15422	.66367	.56483	.48335	
#1	1.9763	1.9847	1.9819	2.0381	.49081	.49721	
#2	1.9799	1.9764	1.9776	2.0191	.48691	.49382	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			2.4000	2.4000	.60000	.60000	
Low			1.6000	1.6000	.40000	.40000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11629	--	--	--	--	--	--
SDev	26.02208	--	--	--	--	--	--
%RSD	.2237650	--	--	--	--	--	--
#1	11611	--	--	--	--	--	--
#2	11648	--	--	--	--	--	--

680 1093

Analysis Report

03/25/01 02:39:32 PM

page 1

Method: METTRA Sample Name: DXL6T Operator: WTR
 Run Time: 03/25/01 14:35:10
 Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00070	5.6280	.00905	.47797	.00931	31.277	.00075
SDev	.00028	.0056	.00053	.00004	.00025	.048	.00017
%RSD	40.054	.09888	5.8895	.00810	2.7303	.15379	23.229

#1	.00050	5.6240	.00943	.47794	.00949	31.311	.00063
#2	.00090	5.6319	.00867	.47800	.00913	31.243	.00087

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02877	.08854	.09645	8.0296	3.3491	.46449	.01133
SDev	.00048	.00025	.00098	.0024	.0003	.00003	.00019
%RSD	1.6657	.28260	1.0181	.03015	.00986	.00535	1.6714

#1	.02910	.08871	.09576	8.0279	3.3489	.46447	.01146
#2	.02843	.08836	.09715	8.0313	3.3493	.46451	.01119

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.08003	.00268	.00257	.00261	.00281	-.00060	.00054
SDev	.00036	.00270	.00051	.00124	.00386	.00161	.00236
%RSD	.45474	100.55	19.752	47.444	137.14	269.14	437.74

#1	.08029	.00078	.00221	.00173	.00554	.00054	.00220
#2	.07977	.00459	.00293	.00348	.00009	-.00173	-.00113

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01184	.01250	.01228	.00937	.17732	.07449
SDev	.00253	.00164	.00026	.00052	.00015	.00071
%RSD	21.334	13.147	2.0760	5.5526	.08437	.95875

#1	.01363	.01134	.01210	.00900	.17722	.07398
#2	.01006	.01366	.01246	.00974	.17743	.07499

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11998	--	--	--	--	--	--
SDev	10.21783	--	--	--	--	--	--
%RSD	.0851647	--	--	--	--	--	--
#1	12005	--	--	--	--	--	--
#2	11990	--	--	--	--	--	--

Method: METTRA Sample Name: DXL6TP5

Operator: WTR

Run Time: 03/25/01 14:39:36

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACE ICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00033	1.1582	.00357	.09753	.00284	6.3505	.00009
SDev	.00061	.0016	.00114	.00030	.00020	.0162	.00034
%RSD	186.65	.14141	32.030	.30850	6.9046	.25541	369.60

#1	-.00011	1.1571	.00437	.09732	.00298	6.3390	-.00015
#2	.00076	1.1594	.00276	.09775	.00271	6.3620	.00033

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00595	.01846	.01756	1.6653	.68273	.09512	.00306
SDev	.00003	.00021	.00042	.0152	.00294	.00030	.00042
%RSD	.45173	1.1574	2.3716	.91228	.43031	.31327	13.677

#1	.00594	.01831	.01727	1.6545	.68065	.09491	.00276
#2	.00597	.01861	.01786	1.6760	.68480	.09533	.00335

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01650	.00011	.00152	.00105	.00171	-.00139	-.00036
SDev	.00035	.00138	.00049	.00013	.00174	.00080	.00004
%RSD	2.1302	1218.7	32.588	12.381	101.44	57.694	12.030

#1	.01675	-.00086	.00186	.00096	.00048	-.00082	-.00039
#2	.01625	.00109	.00117	.00114	.00294	-.00196	-.00033

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00161	.00299	.00253	.00115	.03615	.00508
SDev	.00242	.00033	.00059	.00234	.00014	.00010
%RSD	150.14	11.062	23.164	203.73	.38468	1.9840

#1	-.00010	.00322	.00212	.00280	.03625	.00501
#2	.00333	.00276	.00295	-.00051	.03606	.00515

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11879	--	--	--	--	--	--
SDev	60.38650	--	--	--	--	--	--
%RSD	.5083339	--	--	--	--	--	--
#1	11922	--	--	--	--	--	--
#2	11837	--	--	--	--	--	--

Method: METTRA Sample Name: DXL6TS Operator: WTR
 Run Time: 03/25/01 14:44:02
 Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04767	7.4734	1.9336	2.3511	.05659	32.590	.04793
SDev	.00014	.0063	.0004	.0006	.00015	.013	.00024
%RSD	.29138	.08426	.02126	.02706	.27003	.03938	.51107
#1	.04757	7.4779	1.9339	2.3516	.05670	32.599	.04810
#2	.04776	7.4690	1.9333	2.3507	.05648	32.581	.04776
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51629	.28002	.32723	8.4936	3.4950	.93959	.00973
SDev	.00013	.00038	.00061	.0117	.0084	.00002	.00101
%RSD	.02559	.13504	.18756	.13788	.23952	.00222	10.332
#1	.51619	.28029	.32767	8.5019	3.5009	.93960	.00902
#2	.51638	.27975	.32680	8.4853	3.4891	.93957	.01044
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.57062	.47726	.47403	.47510	.00376	-.00158	.00020
SDev	.00050	.00068	.00183	.00099	.00130	.00142	.00138
%RSD	.08775	.14274	.38595	.20910	34.701	90.041	695.96
#1	.57098	.47678	.47532	.47581	.00284	-.00258	-.00078
#2	.57027	.47774	.47273	.47440	.00468	-.00057	.00118
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V__	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	1.9730	1.9714	1.9719	1.8095	.64666	.56061	
SDev	.0054	.0086	.0040	.0000	.00125	.00119	
%RSD	.27146	.43640	.20056	.00004	.19378	.21145	
#1	1.9692	1.9775	1.9747	1.8095	.64755	.56145	
#2	1.9768	1.9653	1.9691	1.8095	.64577	.55977	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11888	--	--	--	--	--	--
SDev	.9191007	--	--	--	--	--	--
%RSD	.0077315	--	--	--	--	--	--
#1	11888	--	--	--	--	--	--
#2	11887	--	--	--	--	--	--

Method: METTRA Sample Name: DXL6TD Operator: WTR
 Run Time: 03/25/01 14:48:28
 Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP
 Mode: CONC , Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04601	7.3171	1.8712	2.2691	.05501	32.255	.04630
SDev	.00083	.0517	.0164	.0206	.00038	.251	.00075
%RSD	1.7968	.70677	.87602	.90977	.68612	.77894	1.6194
#1	.04542	7.2805	1.8596	2.2545	.05475	32.078	.04577
#2	.04659	7.3537	1.8828	2.2837	.05528	32.433	.04683
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49882	.27216	.31493	8.9678	3.4513	.92517	.01016
SDev	.00639	.00279	.00363	.0829	.0322	.00975	.00069
%RSD	1.2819	1.0247	1.1534	.92428	.93312	1.0538	6.8365
#1	.49430	.27019	.31236	8.9092	3.4285	.91828	.01065
#2	.50334	.27413	.31750	9.0264	3.4741	.93207	.00967
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.54761	.46143	.45815	.45924	.00216	.00067	.00117
SDev	.00431	.00479	.00231	.00314	.00165	.00179	.00174
%RSD	.78718	1.0379	.50402	.68264	76.517	266.76	149.50
#1	.54457	.45805	.45652	.45703	.00099	-.00059	-.00007
#2	.55066	.46482	.45978	.46146	.00333	.00194	.00240
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	1.9295	1.9357	1.9337	1.7366	.62631	.54583	
SDev	.0109	.0024	.0052	.0103	.00668	.00579	
%RSD	.56490	.12259	.26957	.59093	1.0657	1.0614	
#1	1.9218	1.9340	1.9300	1.7293	.62159	.54173	
#2	1.9372	1.9374	1.9373	1.7438	.63103	.54993	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	12043	--	--	--	--	--	--
SDev	116.0359	--	--	--	--	--	--
%RSD	.9635176	--	--	--	--	--	--
#1	12125	--	--	--	--	--	--
#2	11961	--	--	--	--	--	--

Method: METTRA Sample Name: DXL68

Operator: WTR

Run Time: 03/25/01 14:52:54

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00035	33.642	.01507	.99800	.00540	34.777	-.00027
SDev	.00086	.034	.00049	.00082	.00024	.051	.00029
%RSD	248.15	.10031	3.2588	.08174	4.4689	.14597	109.71

#1	-.00095	33.665	.01541	.99742	.00557	34.741	-.00047
#2	.00026	33.618	.01472	.99857	.00523	34.813	-.00006

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03802	.02547	.03278	24.080	8.7874	.34055	.00196
SDev	.00003	.00098	.00061	.027	.0106	.00083	.00029
%RSD	.08014	3.8668	1.8637	.11130	.12054	.24381	14.754

#1	.03804	.02477	.03234	24.061	8.7799	.33996	.00216
#2	.03799	.02616	.03321	24.099	8.7949	.34114	.00175

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05240	-.00131	.00143	.00052	.00204	-.00094	.00005
SDev	.00011	.00110	.00141	.00058	.00382	.00054	.00091
%RSD	.20192	83.862	98.579	110.88	187.73	57.651	1823.8

#1	.05233	-.00208	.00243	.00093	-.00067	-.00056	-.00059
#2	.05247	-.00053	.00043	.00011	.00474	-.00132	.00069

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00584	-.00150	.00095	.00624	.03420	.00599
SDev	.00090	.00258	.00202	.00367	.00085	.00014
%RSD	15.463	172.25	213.17	58.799	2.4707	2.3489

#1	.00520	-.00332	-.00048	.00883	.03480	.00589
#2	.00648	.00033	.00238	.00364	.03361	.00608

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	12049	--	--	--	--	--	--
SDev	48.93193	--	--	--	--	--	--
%RSD	.4060960	--	--	--	--	--	--
#1	12084	--	--	--	--	--	--
#2	12015	--	--	--	--	--	--

Method: METTRA Sample Name: DXTG1B

Operator: WTR

Run Time: 03/25/01 14:57:19

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00034	.05034	.00191	.00032	.00098	-.05639	.00003
SDev	.00038	.00311	.00067	.00013	.00005	.00138	.00013
%RSD	110.97	6.1833	35.126	42.143	5.4744	2.4477	369.42

#1	.00061	.05254	.00238	.00022	.00102	-.05737	-.00005
#2	.00007	.04814	.00144	.00041	.00095	-.05542	.00012

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00016	.00111	-.00123	.01051	.00289	.00030	.00167
SDev	.00061	.00017	.00010	.01042	.00052	.00010	.00021
%RSD	381.54	15.367	8.2795	99.102	18.071	32.518	12.414

#1	.00060	.00099	-.00130	.00315	.00326	.00023	.00153
#2	-.00027	.00123	-.00116	.01788	.00252	.00037	.00182

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00103	.00298	.00015	.00109	.00249	.00146	.00180
SDev	.00078	.00003	.00034	.00022	.00032	.00227	.00162
%RSD	76.149	1.1290	226.06	19.996	12.724	155.82	89.964

#1	.00047	.00300	-.00009	.00094	.00271	.00306	.00295
#2	.00158	.00295	.00040	.00125	.00226	-.00015	.00066

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00377	.00027	-.00108	.00363	.00071	-.01421
SDev	.00103	.00301	.00235	.00477	.00034	.00011
%RSD	27.249	1135.3	218.27	131.49	47.488	.74456

#1	-.00304	.00240	.00059	.00025	.00047	-.01413
#2	-.00450	-.00187	-.00274	.00700	.00095	-.01428

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			.00500	.01000	.05000	.02000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11607	--	--	--	--	--	--
SDev	13.32869	--	--	--	--	--	--
%RSD	.1148305	--	--	--	--	--	--
#1	11617	--	--	--	--	--	--
#2	11598	--	--	--	--	--	--

Method: METTRA Sample Name: CCV3-3

Operator: WTR

Run Time: 03/25/01 15:01:45

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0191	24.012	.51323	1.9622	1.9901	49.876	.49848
SDev	.0007	.043	.00110	.0038	.0028	.121	.00118
%RSD	.06623	.18052	.21397	.19308	.14052	.24300	.23696
#1	1.0196	24.042	.51400	1.9648	1.9921	49.961	.49932
#2	1.0186	23.981	.51245	1.9595	1.9881	49.790	.49765
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	55.000	.55000
Low	.90000	22.500	.45000	1.8000	1.8000	45.000	.45000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0060	1.9950	1.9392	24.707	48.800	1.9701	2.0000
SDev	.0033	.0019	.0032	.049	.126	.0014	.0050
%RSD	.16361	.09379	.16313	.19966	.25904	.07056	.25222
#1	2.0083	1.9964	1.9415	24.741	48.890	1.9710	1.9965
#2	2.0037	1.9937	1.9370	24.672	48.711	1.9691	2.0036
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	27.500	55.000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	22.500	45.000	1.8000	1.8000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0085	.50978	.50739	.50819	.51069	.51005	.51026
SDev	.0009	.00210	.00030	.00090	.00016	.00101	.00062
%RSD	.04277	.41154	.05957	.17714	.03061	.19851	.12215
#1	2.0091	.51127	.50760	.50882	.51058	.51076	.51070
#2	2.0079	.50830	.50718	.50755	.51080	.50933	.50982
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000			.55000			.55000
Low	1.8000			.45000			.45000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.51396	.52147	.51897	1.0395	1.9899	2.0072	
SDev	.00132	.00598	.00443	.0022	.0061	.0054	
%RSD	.25605	1.1465	.85282	.20755	.30599	.27016	
#1	.51489	.52569	.52210	1.0380	1.9942	2.0111	
#2	.51303	.51724	.51584	1.0410	1.9856	2.0034	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.55000	1.1000	2.2000	2.2000	
Low			.45000	.90000	1.8000	1.8000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11596	--	--	--	--	--	--
SDev	5.373735	--	--	--	--	--	--
%RSD	.0463395	--	--	--	--	--	--
#1	11600	--	--	--	--	--	--
#2	11593	--	--	--	--	--	--

Method: METTRA Sample Name: CCB3

Operator: WTR

Run Time: 03/25/01 15:06:11

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00029	.04335	.00091	.00031	.00144	-.06062	.00004
SDev	.00040	.00639	.00058	.00022	.00035	.00128	.00015
%RSD	137.98	14.743	63.304	70.654	24.345	2.1133	351.14
#1	.00057	.04787	.00050	.00046	.00169	-.05971	.00015
#2	.00001	.03883	.00132	.00015	.00120	-.06152	-.00006
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00007	.00045	-.00165	-.00566	.00802	.00027	.00274
SDev	.00000	.00002	.00008	.01255	.00258	.00006	.00092
%RSD	.29122	5 2574	4 9939	221.63	32.164	23.491	33.467
#1	.00007	.00047	-.00160	.00321	.00984	.00031	.00339
#2	.00007	.00044	-.00171	-.01453	.00619	.00022	.00209
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00102	.00081	-.00059	-.00013	-.00147	.00108	.00023
SDev	.00055	.00054	.00154	.00085	.00033	.00260	.00184
%RSD	54.394	66.076	259.68	674.56	22.434	240.02	789.26
#1	.00141	.00043	.00050	.00048	-.00170	-.00076	-.00107
#2	.00063	.00119	-.00169	-.00073	-.00124	.00292	.00154
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00020	-.00242	-.00168	.00660	-.00000	-.01399	
SDev	.00140	.00345	.00276	.00693	.00066	.00020	
%RSD	701.06	142.11	164.19	104.97	34602.	1.4012	
#1	-.00119	-.00486	-.00364	H.01150	.00047	-.01386	
#2	.00079	.00001	.00027	.00170	-.00047	-.01413	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11714	--	--	--	--	--	--
SDev	3.818653	--	--	--	--	--	--
%RSD	.0326004	--	--	--	--	--	--
#1	11716	--	--	--	--	--	--
#2	11711	--	--	--	--	--	--

Analysis Report

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Method: METTRA Sample Name: DXTG1C

Operator: WTR

Run Time: 03/25/01 15:10:36

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05081	2.1042	2.0271	1.9166	.04944	49.305	.04818
SDev	.00000	.0027	.0086	.0007	.00003	.016	.00038
%RSD	.00711	.12941	.42371	.03544	.05960	.03208	.78293

#1	.05081	2.1062	2.0211	1.9171	.04942	49.294	.04791
#2	.05081	2.1023	2.0332	1.9161	.04946	49.316	.04844

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.06000	2.4000	2.4000	2.4000	.06000	60.000	.06000
Low	.04000	1.6000	1.6000	1.6000	.04000	40.000	.04000

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49761	.19848	.23714	.83592	48.673	.48572	.98993
SDev	.00044	.00013	.00121	.00662	.007	.00057	.00297
%RSD	.08845	.06417	.50882	.79170	.01359	.11679	.29970

#1	.49729	.19857	.23628	.84060	48.678	.48532	.98783
#2	.49792	.19839	.23799	.83124	48.668	.48612	.99203

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.60000	.24000	.30000	1.2000	60.000	.60000	1.2000
Low	.40000	.16000	.20000	.80000	40.000	.40000	.80000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49667	.49732	.49240	.49404	.49397	.50934	.50423
SDev	.00139	.00298	.00513	.00243	.00151	.00352	.00184
%RSD	.27975	.59870	1.0428	.49256	.30637	.69081	.36550

#1	.49765	.49522	.49603	.49576	.49290	.51183	.50553
#2	.49569	.49943	.48877	.49232	.49504	.50686	.50292

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.60000			.60000			.60000
Low	.40000			.40000			.40000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.1252	2.1277	2.1269	2.0831	.49166	.50035
SDev	.0049	.0003	.0015	.0101	.00050	.00032
%RSD	.23170	.01177	.06925	.48678	.10255	.06463

#1	2.1218	2.1278	2.1258	2.0760	.49201	.50012
#2	2.1287	2.1275	2.1279	2.0903	.49130	.50058

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			2.4000	2.4000	.60000	.60000
Low			1.6000	1.6000	.40000	.40000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11712	--	--	--	--	--	--
SDev	3.747528	--	--	--	--	--	--
%RSD	.0319983	--	--	--	--	--	--
#1	11714	--	--	--	--	--	--
#2	11709	--	--	--	--	--	--

Method: METTRA Sample Name: DXMAM

Operator: WTR

Run Time: 03/25/01 15:15:02

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00104	26.216	.01124	.11635	.00136	7.1048	.05261
SDev	.00011	.035	.00031	.00046	.00016	.0079	.00005
%RSD	10.709	.13344	2.7215	.39410	11.797	.11147	.09602

#1	.00111	26.241	.01146	.11667	.00147	7.1104	.05258
#2	.00096	26.191	.01103	.11602	.00125	7.0992	.05265

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01023	.42244	.66746	45.219	2.7779	.43909	.06469
SDev	.00154	.00010	.00045	.004	.0012	.00062	.00094
%RSD	15.094	.02436	.06711	.00842	.04305	.14036	1.4581

#1	.00913	.42251	.66778	45.222	2.7787	.43866	.06536
#2	.01132	.42236	.66715	45.216	2.7770	.43953	.06402

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.30643	.58272	.58125	.58174	.07577	.07208	.07331
SDev	.00165	.00166	.00266	.00122	.00347	.00278	.00301
%RSD	.53959	.28561	.45770	.20976	4.5764	3.8575	4.1049

#1	.30760	.58389	.57937	.58087	.07332	.07012	.07118
#2	.30527	.58154	.58313	.58260	.07822	.07405	.07544

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00951	.00728	.00802	.01154	.02925	4.7620
SDev	.00110	.00129	.00123	.00382	.00001	.0085
%RSD	11.590	17.699	15.288	33.070	.04870	.17764

#1	.01029	.00819	.00889	.01424	.02924	4.7680
#2	.00873	.00637	.00716	.00884	.02926	4.7560

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11808	--	--	--	--	--	--
SDev	12.33915	--	--	--	--	--	--
%RSD	.1044958	--	--	--	--	--	--
#1	11817	--	--	--	--	--	--
#2	11800	--	--	--	--	--	--

Method: METTRA Sample Name: DXMAMP5

Operator: WTR

Run Time: 03/25/01 15:19:28

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00032	5.0663	.00132	.02353	.00126	1.3756	.01066
SDev	.00041	.0167	.00157	.00014	.00010	.0040	.00026
%RSD	128.43	.33042	119.10	.57530	7.6330	.29378	2.4217
#1	.00003	5.0782	.00021	.02362	.00133	1.3785	.01048
#2	.00061	5.0545	.00243	.02343	.00119	1.3728	.01084
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00211	.08553	.12899	9.0938	.55604	.08867	.01377
SDev	.00009	.00056	.00027	.0281	.00054	.00010	.00100
%RSD	4.4724	.65141	.20877	.30940	.09751	.11350	7.2295
#1	.00217	.08593	.12918	9.1137	.55643	.08860	.01307
#2	.00204	.08514	.12880	9.0739	.55566	.08874	.01448
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.06181	.11781	.11974	.11910	.01755	.01619	.01664
SDev	.00016	.00080	.00080	.00080	.00299	.00262	.00274
%RSD	.25575	.68098	.67182	.67484	17.045	16.148	16.463
#1	.06170	.11838	.12031	.11967	.01966	.01804	.01858
#2	.06192	.11724	.11918	.11853	.01543	.01434	.01471
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00305	.00336	.00326	.00586	.00291	.98685	
SDev	.00063	.00089	.00038	.00073	.00001	.00143	
%RSD	20.620	26.445	11.763	12.543	.30941	.14493	
#1	.00261	.00399	.00353	.00638	.00291	.98786	
#2	.00350	.00273	.00299	.00534	.00290	.98584	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11827	--	--	--	--	--	--
SDev	11.63135	--	--	--	--	--	--
%RSD	.0983493	--	--	--	--	--	--
#1	11818	--	--	--	--	--	--
#2	11835	--	--	--	--	--	--

Analysis Report

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Method: METTRA Sample Name: DXMAMS Operator: WTR
 Run Time: 03/25/01 15:23:53
 Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04705	27.690	1.9158	2.0058	.04809	10.488	.12585
SDev	.00003	.035	.0012	.0020	.00011	.003	.00010
%RSD	.05369	.12576	.06342	.10132	.22760	.02454	.08297

#1	.04703	27.715	1.9167	2.0072	.04816	10.490	.12592
#2	.04707	27.665	1.9149	2.0043	.04801	10.486	.12577

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49307	.70169	1.8239	45.150	2.9519	1.0746	.08433
SDev	.00094	.00118	.0009	.036	.0053	.0010	.00103
%RSD	.19112	.16834	.04674	.07902	.17927	.09634	1.2187

#1	.49240	.70085	1.8245	45.125	2.9556	1.0738	.08360
#2	.49374	.70252	1.8233	45.175	2.9481	1.0753	.08505

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.1859	1.1846	1.1795	1.1812	.13130	.13306	.13248
SDev	.0055	.0004	.0010	.0006	.00249	.00034	.00106
%RSD	.25382	.03261	.08650	.04672	1.8978	.25506	.79721

#1	2.1899	1.1843	1.1802	1.1816	.13306	.13330	.13322
#2	2.1820	1.1848	1.1787	1.1808	.12953	.13282	.13173

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0487	2.0415	2.0439	1.9548	.49717	2.4723
SDev	.0042	.0003	.0016	.0017	.00065	.0009
%RSD	.20603	.01354	.07779	.08805	.13145	.03664

#1	2.0457	2.0413	2.0428	1.9560	.49763	2.4729
#2	2.0517	2.0417	2.0450	1.9536	.49671	2.4717

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11752	--	--	--	--	--	--
SDev	15.80356	--	--	--	--	--	--
%RSD	.1344781	--	--	--	--	--	--
#1	11763	--	--	--	--	--	--
#2	11741	--	--	--	--	--	--

Method: METTRA Sample Name: DXMAMD

Operator: WTR

Run Time: 03/25/01 15:28:19

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04928	107.06	1.9742	1.9547	.04960	4.4835	.09033
SDev	.00022	.01	.0009	.0005	.00004	.0028	.00007
%RSD	.43770	.01047	.04527	.02712	.08526	.06206	.08180
#1	.04944	107.07	1.9735	1.9544	.04963	4.4816	.09038
#2	.04913	107.05	1.9748	1.9551	.04957	4.4855	.09028
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50692	.58578	1.3870	16.630	3.2031	.79547	.03449
SDev	.00112	.00152	.0020	.049	.0014	.00157	.00047
%RSD	.21999	.25981	.14399	.29755	.04431	.19790	1.3601
#1	.50614	.58470	1.3885	16.595	3.2021	.79435	.03416
#2	.50771	.58685	1.3856	16.665	3.2041	.79658	.03482
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.88739	.73104	.72467	.72679	.05875	.05448	.05590
SDev	.00290	.00004	.00006	.00005	.00049	.00131	.00071
%RSD	.32635	.00562	.00791	.00714	.83904	2.4024	1.2680
#1	.88944	.73101	.72463	.72676	.05840	.05540	.05640
#2	.88535	.73107	.72472	.72683	.05910	.05355	.05540
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	2.0494	2.0468	2.0476	2.0320	.49926	1.6253	
SDev	.0098	.0075	.0083	.0038	.00088	.0005	
%RSD	.47926	.36882	.40563	.18749	.17517	.03063	
#1	2.0563	2.0521	2.0535	2.0347	.49864	1.6257	
#2	2.0424	2.0414	2.0418	2.0293	.49988	1.6250	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11673	--	--	--	--	--	--
SDev	20.29410	--	--	--	--	--	--
%RSD	.1738529	--	--	--	--	--	--
#1	11688	--	--	--	--	--	--
#2	11659	--	--	--	--	--	--

Method: METTRA Sample Name: DXQT6B

Operator: WTR

Run Time: 03/25/01 15:32:45

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00000	.06511	.00065	.00030	.00131	-.05273	.00004
SDev	.00056	.00387	.00020	.00005	.00012	.00006	.00019
%RSD	32742.	5.9426	30.999	15.516	8.7792	.11713	488.68
#1	-.00039	.06237	.00079	.00027	.00139	-.05277	-.00010
#2	.00040	.06784	.00051	.00034	.00123	-.05269	.00018
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00016	.00161	-.00054	.01926	.00256	.00075	.00050
SDev	.00014	.00010	.00109	.01588	.00102	.00006	.00020
%RSD	86.742	6.0172	201.92	82.411	40.008	8.4840	40.363
#1	-.00026	.00154	-.00131	.03049	.00183	.00071	.00064
#2	-.00006	.00167	.00023	.00804	.00328	.00080	.00036
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00218	-.00080	.00285	.00163	.00405	.00033	.00157
SDev	.00088	.00125	.00021	.00028	.00088	.00126	.00113
%RSD	40.537	155.52	7.2628	17.019	21.573	388.18	72.334
#1	.00155	-.00169	.00300	.00144	.00344	-.00057	.00077
#2	.00280	.00008	.00270	.00183	.00467	.00122	.00237
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00101	.00160	.00073	.00529	.00024	-.01256	
SDev	.00121	.00310	.00167	.00190	.00032	.00025	
%RSD	119.61	193.99	228.16	35.908	135.63	1.9776	
#1	-.00186	.00379	.00191	.00664	.00001	-.01274	
#2	-.00016	-.00059	-.00045	.00395	.00047	-.01239	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11784	--	--	--	--	--	--
SDev	11.38414	--	--	--	--	--	--
%RSD	.0966109	--	--	--	--	--	--
#1	11792	--	--	--	--	--	--
#2	11775	--	--	--	--	--	--

Analysis Report

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Method: METTRA Sample Name: DXQT6C

Run Time: 03/25/01 15:37:10

Operator: WTR

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05142	2.1304	2.0212	1.9484	.04938	52.851	.04849
SDev	.00036	.0005	.0015	.0042	.00015	.067	.00019
%RSD	.70140	.02138	.07367	.21797	.31030	.12744	.38264
#1	.05116	2.1301	2.0222	1.9514	.04949	52.899	.04836
#2	.05167	2.1308	2.0201	1.9454	.04927	52.804	.04863
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.06000	2.4000	2.4000	2.4000	.06000	60.000	.06000
Low	.04000	1.6000	1.6000	1.6000	.04000	40.000	.04000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50194	.20206	.24031	.86606	51.629	.49255	1.0062
SDev	.00062	.00035	.00017	.01477	.093	.00020	.0005
%RSD	.12338	.17490	.06984	1.7057	.18089	.04067	.04851
#1	.50238	.20181	.24019	.85561	51.695	.49269	1.0058
#2	.50150	.20231	.24042	.87651	51.563	.49241	1.0065
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.60000	.24000	.30000	1.2000	60.000	.60000	1.2000
Low	.40000	.16000	.20000	.80000	40.000	.40000	.80000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50453	.50235	.49909	.50018	.48193	.49484	.49054
SDev	.00110	.00069	.00391	.00238	.00387	.00179	.00248
%RSD	.21694	.13665	.78407	.47615	.80319	.36239	.50660
#1	.50376	.50283	.49633	.49849	.48467	.49611	.49230
#2	.50531	.50186	.50186	.50186	.47920	.49357	.48878
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.60000			.60000			.60000
Low	.40000			.40000			.40000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	2.0230	2.0210	2.0217	2.1030	.49909	.49942	
SDev	.0028	.0018	.0021	.0045	.00034	.00028	
%RSD	.13658	.09018	.10564	.21290	.06718	.05657	
#1	2.0250	2.0223	2.0232	2.0998	.49932	.49922	
#2	2.0211	2.0197	2.0202	2.1061	.49885	.49962	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			2.4000	2.4000	.60000	.60000	
Low			1.6000	1.6000	.40000	.40000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11718	--	--	--	--	--	--
SDev	.2472112	--	--	--	--	--	--
%RSD	.0021097	--	--	--	--	--	--
#1	11718	--	--	--	--	--	--
#2	11718	--	--	--	--	--	--

Method: METTRA Sample Name: DXQT6L

Operator: WTR

Run Time: 03/25/01 15:41:37

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05001	2.0905	1.9704	1.9088	.04816	51.880	.04794
SDev	.00033	.0085	.0059	.0040	.00006	.066	.00004
%RSD	.66738	.40851	.29820	.21213	.11554	.12649	.07610
#1	.04977	2.0965	1.9662	1.9117	.04820	51.927	.04792
#2	.05024	2.0844	1.9745	1.9059	.04812	51.834	.04797
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.06000	2.4000	2.4000	2.4000	.06000	60.000	.06000
Low	.04000	1.6000	1.6000	1.6000	.04000	40.000	.04000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49207	.19906	.23681	.83950	50.625	.48262	.98372
SDev	.00025	.00028	.00002	.00482	.093	.00012	.00143
%RSD	.05130	.13848	.00755	.57467	.18419	.02402	.14576
#1	.49189	.19926	.23680	.83609	50.691	.48270	.98271
#2	.49225	.19887	.23683	.84291	50.559	.48254	.98474
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.60000	.24000	.30000	1.2000	60.000	.60000	1.2000
Low	.40000	.16000	.20000	.80000	40.000	.40000	.80000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49473	.49296	.48765	.48942	.47774	.48793	.48454
SDev	.00312	.00050	.00220	.00130	.00015	.00475	.00322
%RSD	.63121	.10123	.45076	.26562	.03102	.97388	.66431
#1	.49694	.49261	.48920	.49034	.47763	.48457	.48226
#2	.49252	.49332	.48610	.48850	.47784	.49129	.48681
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.60000			.60000			.60000
Low	.40000			.40000			.40000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	1.9527	1.9481	1.9496	2.0552	.48653	.48717	
SDev	.0015	.0036	.0029	.0069	.00079	.00033	
%RSD	.07606	.18658	.14972	.33354	.16186	.06726	
#1	1.9537	1.9507	1.9517	2.0601	.48709	.48740	
#2	1.9516	1.9456	1.9476	2.0504	.48597	.48694	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			2.4000	2.4000	.60000	.60000	
Low			1.6000	1.6000	.40000	.40000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11672	--	--	--	--	--	--
SDev	4.878622	--	--	--	--	--	--
%RSD	.0417966	--	--	--	--	--	--
#1	11676	--	--	--	--	--	--
#2	11669	--	--	--	--	--	--

Analysis Report

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Method: METTRA

Sample Name: DXME5

Operator: WTR

Run Time: 03/25/01 15:46:03

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00060	1.9693	.01611	H19.675	.00142	24.693	.02080
SDev	.00054	.0011	.00020	.035	.00007	.074	.00006
%RSD	90.513	.05365	1.2597	.17748	4.8045	.29835	.26935
#1	.00022	1.9700	.01597	H19.650	.00146	24.641	.02076
#2	.00098	1.9685	.01626	H19.699	.00137	24.745	.02084
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00174	.21483	.27281	41.576	1.5204	.54008	.08440
SDev	.00029	.00105	.00153	.132	.0103	.00209	.00097
%RSD	16.503	.48890	.55962	.31835	.67615	.38622	1.1469
#1	.00153	.21409	.27173	41.482	1.5131	.53860	.08509
#2	.00194	.21557	.27389	41.669	1.5277	.54155	.08372
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.33643	3.2930	3.2797	3.2841	.05091	.04876	.04948
SDev	.00234	.0014	.0198	.0128	.00087	.00161	.00079
%RSD	.69522	.04098	.60355	.38835	1.7108	3.3124	1.5911
#1	.33477	3.2939	3.2657	3.2751	.05153	.04762	.04892
#2	.33808	3.2920	3.2937	3.2931	.05030	.04990	.05003
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00076	.01054	.00729	.00533	.01517	2.3009	
SDev	.00049	.00058	.00022	.00219	.00062	.0079	
%RSD	64.701	5.5165	3.0682	41.163	4.0913	.34445	
#1	.00041	.01095	.00744	.00689	.01561	2.2953	
#2	.00111	.01013	.00713	.00378	.01473	2.3065	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

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IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11581	--	--	--	--	--	--
SDev	22.73307	--	--	--	--	--	--
%RSD	.1963018	--	--	--	--	--	--
#1	11597	--	--	--	--	--	--
#2	11565	--	--	--	--	--	--

Method: METTRA Sample Name: DXME5P5

Operator: WTR

Run Time: 03/25/01 15:50:29

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00072	.43374	.00321	4.1393	.00135	4.9944	.00442
SDev	.00029	.00823	.00123	.0023	.00022	.0028	.00005
%RSD	39.795	1.8986	38.377	.05437	16.718	.05681	1.1148
#1	.00052	.43956	.00408	4.1377	.00151	4.9964	.00438
#2	.00093	.42791	.00234	4.1409	.00119	4.9924	.00445
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00083	.04436	.05161	8.5040	.31053	.11028	.01793
SDev	.00014	.00015	.00024	.0141	.01071	.00011	.00005
%RSD	17.005	.34175	.46513	.16585	3.4491	.10020	.30128
#1	.00073	.04447	.05144	8.4940	.30296	.11021	.01789
#2	.00093	.04426	.05178	8.5140	.31810	.11036	.01797
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.06829	.67797	.68084	.67989	.01053	.00960	.00991
SDev	.00065	.00202	.00341	.00295	.00192	.00115	.00013
%RSD	.94811	.29811	.50125	.43379	18.207	11.965	1.2886
#1	.06784	.67940	.68326	.68197	.00918	.01042	.01000
#2	.06875	.67654	.67843	.67780	.01189	.00879	.00982
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00031	-.00368	-.00235	.00487	.00272	.47734	
SDev	.00238	.00188	.00205	.00161	.00001	.00013	
%RSD	774.55	51.035	87.011	33.091	.16585	.02652	
#1	-.00138	-.00501	-.00380	.00601	.00271	.47743	
#2	.00199	-.00235	-.00091	.00373	.00272	.47725	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11723	--	--	--	--	--	--
SDev	35.17856	--	--	--	--	--	--
%RSD	.3000720	--	--	--	--	--	--
#1	11748	--	--	--	--	--	--
#2	11698	--	--	--	--	--	--

Method: METTRA Sample Name: CCV3-4

Operator: WTR

Run Time: 03/25/01 15:54:55

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACE ICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0220	24.122	.51828	1.9630	1.9964	50.268	.50278
SDev	.0015	.057	.00336	.0045	.0050	.124	.00099
%RSD	.14654	.23687	.64810	.22678	.25265	.24673	.19763
#1	1.0209	24.081	.51590	1.9598	1.9928	50.181	.50208
#2	1.0230	24.162	.52065	1.9661	2.0000	50.356	.50348
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	55.000	.55000
Low	.90000	22.500	.45000	1.8000	1.8000	45.000	.45000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.0187	2.0033	1.9450	24.817	49.049	1.9808	2.0137
SDev	.0093	.0066	.0037	.046	.064	.0053	.0131
%RSD	.46124	.33033	.19112	.18607	.12979	.26761	.65235
#1	2.0122	1.9987	1.9424	24.785	49.004	1.9770	2.0044
#2	2.0253	2.0080	1.9477	24.850	49.094	1.9845	2.0230
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	27.500	55.000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	22.500	45.000	1.8000	1.8000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.0259	.50934	.50862	.50886	.51405	.51685	.51592
SDev	.0025	.00166	.00162	.00163	.00262	.00091	.00148
%RSD	.12224	.32493	.31787	.32022	.50921	.17650	.28688
#1	2.0277	.50817	.50748	.50771	.51220	.51620	.51487
#2	2.0242	.51052	.50977	.51002	.51590	.51749	.51696
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000			.55000			.55000
Low	1.8000			.45000			.45000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.51689	.52216	.52041	1.0475	1.9993	2.0161	
SDev	.00020	.00548	.00359	.0035	.0019	.0064	
%RSD	.03794	1.0488	.68938	.33280	.09557	.31521	
#1	.51703	.51829	.51787	1.0450	1.9979	2.0116	
#2	.51676	.52603	.52294	1.0500	2.0007	2.0206	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.55000	1.1000	2.2000	2.2000	
Low			.45000	.90000	1.8000	1.8000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11564	--	--	--	--	--	--
SDev	51.72445	--	--	--	--	--	--
%RSD	.4472895	--	--	--	--	--	--
#1	11601	--	--	--	--	--	--
#2	11527	--	--	--	--	--	--

Analysis Report

680 1131

03/25/01 04:03:43 PM

page 1

Method: METTRA

Sample Name: CCB4

Operator: WTR

Run Time: 03/25/01 15:59:21

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00013	.04914	.00063	.00090	.00177	-.06442	.00005
SDev	.00047	.00223	.00110	.00035	.00021	.00298	.00022
%RSD	359.68	4.5445	175.47	38.841	11.840	4.6331	413.52
#1	-.00020	.05072	-.00015	.00065	.00192	-.06653	-.00010
#2	.00047	.04756	.00141	.00115	.00162	-.06230	.00021
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00017	.00019	-.00157	-.00470	.00296	.00012	.00303
SDev	.00023	.00005	.00057	.00677	.00352	.00006	.00077
%RSD	133.54	27.571	36.462	143.96	119.06	46.657	25.497
#1	.00034	.00015	-.00197	.00008	.00047	.00017	.00358
#2	.00001	.00023	-.00116	-.00949	.00545	.00008	.00249
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00038	-.00030	.00002	-.00009	.00023	-.00115	-.00069
SDev	.00055	.00404	.00260	.00039	.00026	.00091	.00052
%RSD	143.07	1336.1	12185.	448.21	115.28	78.964	74.976
#1	-.00000	-.00316	.00186	.00019	.00041	-.00179	-.00106
#2	.00077	.00255	-.00182	-.00036	.00004	-.00051	-.00032
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00194	-.00011	.00057	.00377	-.00023	-.01320	
SDev	.00256	.00211	.00055	.00145	.00032	.00006	
%RSD	131.54	1837.2	96.941	38.395	139.55	.43932	
#1	.00014	.00137	.00096	.00275	-.00045	-.01324	
#2	.00375	-.00160	.00018	.00480	-.00000	-.01316	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11950	--	--	--	--	--	--
SDev	100.0556	--	--	--	--	--	--
%RSD	.8372679	--	--	--	--	--	--
#1	12021	--	--	--	--	--	--
#2	11880	--	--	--	--	--	--

Method: METTRA Sample Name: DXMFP

Run Time: 03/25/01 16:05:58

Operator: WTR

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00152	2.2890	.05295	.33180	.00218	19.130	.00364
SDev	.00012	.0238	.00214	.00290	.00113	.029	.00036
%RSD	7.9348	1.0399	4.0311	.87524	51.816	.14926	9.8990
#1	.00161	2.3058	.05144	.33386	.00298	19.110	.00339
#2	.00144	2.2721	.05446	.32975	.00138	19.150	.00390
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.03258	.09024	5.3562	70.477	.73677	.37463	.07433
SDev	.00038	.00051	.0333	.227	.00983	.00284	.00126
%RSD	1.1579	.56628	.62151	.32215	1.3344	.75850	1.6994
#1	.03231	.09060	5.3798	70.317	.74373	.37262	.07343
#2	.03284	.08987	5.3327	70.638	.72982	.37664	.07522
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	<u>PB</u>	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.62558	7.8255	7.8734	H7.8575	.02560	.02685	.02643
SDev	.01338	.0342	.0487	.0211	.00141	.00205	.00184
%RSD	2.1386	.43646	.61872	.26878	5.4962	7.6397	6.9483
#1	.63504	7.8013	7.9079	H7.8724	.02461	.02539	.02513
#2	.61612	7.8496	7.8390	H7.8425	.02660	.02830	.02773
Errors	LC Pass	NOCHECK	NOCHECK	LC High	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	-.00206	.00584	.00321	.00101	.00716	.99098	
SDev	.00291	.00082	.00151	.00131	.00102	.00563	
%RSD	141.31	13.985	47.146	129.58	14.254	.56835	
#1	-.00000	.00642	.00428	.00008	.00788	.99496	
#2	-.00412	.00526	.00214	.00194	.00644	.98700	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11550	--	--	--	--	--	--
SDev	67.74069	--	--	--	--	--	--
%RSD	.5864843	--	--	--	--	--	--
#1	11598	--	--	--	--	--	--
#2	11502	--	--	--	--	--	--

Analysis Report

680 1135

03/25/01 04:14:47 PM

page 1

Method: METTRA Sample Name: DXMF8

Run Time: 03/25/01 16:10:25

Operator: WTR

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00036	.84028	.00635	9.4179	.00157	17.932	.00362
SDev	.00007	.00211	.00112	.0390	.00010	.064	.00002
%RSD	20.764	.25118	17.688	.41386	6.1709	.35967	.53833
#1	.00031	.84178	.00715	9.3904	.00164	17.886	.00363
#2	.00041	.83879	.00556	9.4455	.00150	17.978	.00361
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00090	.03924	.09613	11.977	1.1476	.28695	.01909
SDev	.00051	.00007	.00003	.045	.0044	.00154	.00077
%RSD	57.035	.19208	.02694	.37789	.38134	.53635	4.0430
#1	-.00126	.03929	.09615	11.945	1.1446	.28586	.01855
#2	-.00054	.03918	.09611	12.009	1.1507	.28804	.01964
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.10282	1.2880	1.2866	1.2871	.00727	.00647	.00673
SDev	.00141	.0036	.0072	.0060	.00061	.00083	.00076
%RSD	1.3726	.27872	.56102	.46694	8.4667	12.845	11.271
#1	.10182	1.2855	1.2815	1.2828	.00770	.00705	.00727
#2	.10382	1.2906	1.2917	1.2913	.00683	.00588	.00620
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00272	.00450	.00391	.00163	.00453	.69020	
SDev	.00401	.00077	.00185	.00198	.00031	.00366	
%RSD	147.16	17.096	47.275	121.84	6.9388	.53059	
#1	.00556	.00504	.00522	.00303	.00475	.68761	
#2	-.00011	.00396	.00260	.00023	.00431	.69279	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

680 1136

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11671	--	--	--	--	--	--
SDev	34.11790	--	--	--	--	--	--
%RSD	.2923212	--	--	--	--	--	--
#1	11696	--	--	--	--	--	--
#2	11647	--	--	--	--	--	--

Analysis Report

680 1137

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page 1

Method: METTRA

Sample Name: DXMGN

Operator: WTR

Run Time: 03/25/01 16:14:50

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00096	1.5336	.00673	H44.203	.00145	12.885	.00199
SDev	.00003	.0313	.00317	.628	.00000	.183	.00033
%RSD	3.3790	2.0385	47.150	1.4207	.15458	1.4228	16.503
#1	.00093	1.5557	.00897	H44.647	.00145	13.014	.00175
#2	.00098	1.5115	.00448	H43.758	.00145	12.755	.00222
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.02515	.02028	.06988	6.8685	.95663	.50992	.00896
SDev	.00104	.00002	.00093	.0894	.01416	.00731	.00012
%RSD	4.1253	.10820	1.3343	1.3022	1.4803	1.4327	1.2789
#1	-.02589	.02030	.07054	6.9317	.96664	.51508	.00904
#2	-.02442	.02027	.06922	6.8052	.94661	.50475	.00888
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02006	.88122	.87842	.87935	.00239	.00231	.00234
SDev	.00026	.01341	.01874	.01696	.00146	.00197	.00180
%RSD	1.2764	1.5215	2.1330	1.9289	61.174	85.041	76.919
#1	.02024	.89071	.89166	.89135	.00136	.00092	.00107
#2	.01988	.87174	.86517	.86736	.00342	.00371	.00361
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00789	.00689	.00722	.00390	.00408	H5.5406	
SDev	.00204	.00021	.00082	.00113	.00005	.0820	
%RSD	25.921	3.0722	11.383	28.933	1.2867	1.4794	
#1	.00644	.00674	.00664	.00469	.00412	H5.5986	
#2	.00934	.00704	.00780	.00310	.00404	H5.4827	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC High	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

680 1138

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11591	--	--	--	--	--	--
SDev	147.0430	--	--	--	--	--	--
%RSD	1.268632	--	--	--	--	--	--
#1	11487	--	--	--	--	--	--
#2	11695	--	--	--	--	--	--

Analysis Report

680 1139

03/25/01 04:23:38 PM

page 1

Method: METTRA

Sample Name: DXMGW

Run Time: 03/25/01 16:19:16

Operator: WTR

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem Units	AG ppm	AL ppm	AS ppm	BA ppm	BE ppm	CA ppm	CD ppm
Avge	.00082	.11414	.00302	.01720	.00137	3.7460	.00018
SDev	.00000	.01008	.00107	.00191	.00005	.0106	.00018
%RSD	.12529	8.8317	35.266	11.118	3.8269	.28201	101.90
#1	.00082	.12127	.00227	.01584	.00141	3.7535	.00030
#2	.00082	.10702	.00378	.01855	.00133	3.7385	.00005
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem Units	CO ppm	CR ppm	CU ppm	FE ppm	MG ppm	MN ppm	MO ppm
Avge	-.00030	.00452	.00074	.13814	.45025	.00410	.00174
SDev	.00024	.00028	.00030	.00735	.00463	.00002	.00072
%RSD	78.923	6.1998	40.401	5.3198	1.0279	.37089	41.574
#1	-.00047	.00472	.00053	.14334	.45352	.00411	.00225
#2	-.00013	.00433	.00095	.13295	.44697	.00408	.00123
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem Units	NI ppm	PB/1 ppm	PB/2 ppm	PB ppm	SB/1 ppm	SB/2 ppm	SB ppm
Avge	.00141	.00872	.00232	.00445	.00451	.00272	.00332
SDev	.00067	.00028	.00046	.00021	.00072	.00003	.00022
%RSD	47.476	3.2446	19.667	4.7121	15.976	1.2424	6.5508
#1	.00189	.00852	.00264	.00459	.00502	.00270	.00347
#2	.00094	.00892	.00199	.00430	.00400	.00275	.00317
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem Units	SE/1 ppm	SE/2 ppm	SE ppm	TL ppm	V_ ppm	ZN ppm	
Avge	.00130	.00197	.00175	.00076	.00075	.00310	
SDev	.00126	.00054	.00078	.00297	.00034	.00040	
%RSD	97.073	27.442	44.709	391.75	44.954	12.796	
#1	.00041	.00159	.00120	-.00134	.00098	.00282	
#2	.00220	.00235	.00230	.00286	.00051	.00338	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

680 1140

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11662	--	--	--	--	--	--
SDev	39.77476	--	--	--	--	--	--
%RSD	.3410578	--	--	--	--	--	--
#1	11634	--	--	--	--	--	--
#2	11690	--	--	--	--	--	--

Analysis Report

680 1141

03/25/01 04:28:04 PM

page 1

Method: METTRA Sample Name: DXNVDB

Run Time: 03/25/01 16:23:42

Operator: WTR

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00086	.10829	.00026	.00137	.00146	-.06138	.00011
SDev	.00013	.00238	.00136	.00014	.00002	.00141	.00005
%RSD	14.843	2.1974	521.62	10.004	1.1261	2.3005	43.853
#1	.00077	.10998	-.00070	.00127	.00147	-.06238	.00008
#2	.00095	.10661	.00122	.00147	.00145	-.06038	.00014
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00055	.00147	-.00129	.00321	-.00122	.00042	.00221
SDev	.00009	.00008	.00007	.00234	.00211	.00006	.00073
%RSD	16.930	5.1672	5.3219	72.763	173.21	15.155	33.135
#1	-.00062	.00142	-.00124	.00487	.00027	.00046	.00169
#2	-.00049	.00152	-.00133	.00156	-.00271	.00037	.00272
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00120	.00624	.00007	.00212	-.00049	-.00071	-.00064
SDev	.00214	.00255	.00055	.00048	.00083	.00237	.00130
%RSD	178.89	40.886	832.64	22.833	168.48	332.02	203.49
#1	.00271	.00804	-.00032	.00246	-.00108	.00096	.00028
#2	-.00032	.00443	.00045	.00178	.00009	-.00239	-.00156
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.01034	.00292	-.00149	.00076	.00095	-.01366	
SDev	.00107	.00064	.00007	.00310	.00000	.00006	
%RSD	10.341	22.001	4.8798	410.33	.07858	.46142	
#1	-.00958	.00247	-.00154	.00295	.00095	-.01371	
#2	-.01109	.00338	-.00144	-.00144	.00095	-.01362	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11486	--	--	--	--	--	--
SDev	18.06644	--	--	--	--	--	--
%RSD	.1572947	--	--	--	--	--	--
#1	11498	--	--	--	--	--	--
#2	11473	--	--	--	--	--	--

Analysis Report

680 1143

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page 1

Method: METTRA Sample Name: DXNVDC

Run Time: 03/25/01 16:29:08

Operator: WTR

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04956	1.8681	1.9837	1.9141	.05066	L-.05514	.04973
SDev	.00056	.0036	.0090	.0083	.00115	.00573	.00037
%RSD	1.1290	.19529	.45178	.43162	2.2708	10.399	.74471
#1	.04917	1.8707	1.9774	1.9200	.05147	L-.05920	.04999
#2	.04996	1.8655	1.9901	1.9083	.04985	L-.05109	.04947
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass
High	.06000	2.4000	2.4000	2.4000	.06000	60.000	.06000
Low	.04000	1.6000	1.6000	1.6000	.04000	40.000	.04000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50495	.19964	.23692	1.0051	L.00695	.48835	L.00212
SDev	.00756	.00211	.00093	.0119	.00002	.00423	.00084
%RSD	1.4962	1.0577	.39052	1.1860	.24068	.86628	39.721
#1	.49961	.19815	.23627	.99668	L.00694	.48536	L.00153
#2	.51029	.20114	.23758	1.0135	L.00696	.49134	L.00272
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass	LC Low
High	.60000	.24000	.30000	1.2000	60.000	.60000	1.2000
Low	.40000	.16000	.20000	.80000	40.000	.40000	.80000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51667	.49698	.49740	.49726	-.00021	.00147	L.00091
SDev	.00900	.00064	.00441	.00316	.00120	.00104	.00110
%RSD	1.7419	.12914	.88716	.63489	581.70	70.951	120.07
#1	.52303	.49743	.50052	.49949	.00064	.00221	L.00169
#2	.51031	.49653	.49427	.49502	-.00105	.00073	L.00014
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Low
High	.60000			.60000			.60000
Low	.40000			.40000			.40000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	1.9105	1.9223	1.9184	2.0364	.49360	.49277	
SDev	.0162	.0106	.0016	.0203	.00396	.00013	
%RSD	.85028	.54920	.08507	.99685	.80338	.02577	
#1	1.8990	1.9297	1.9195	2.0220	.49641	.49268	
#2	1.9220	1.9148	1.9172	2.0507	.49080	.49286	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			2.4000	2.4000	.60000	.60000	
Low			1.6000	1.6000	.40000	.40000	

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IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11550	--	--	--	--	--	--
SDev	87.07979	--	--	--	--	--	--
%RSD	.7539261	--	--	--	--	--	--
#1	11612	--	--	--	--	--	--
#2	11489	--	--	--	--	--	--

Analysis Report

680 1145

03/25/01 04:37:57 PM

page 1

Method: METTRA

Sample Name: DXLLC

Operator: WTR

Run Time: 03/25/01 16:33:35

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00116	16.956	.01296	.20964	.00232	7.1117	.00399
SDev	.00050	.018	.00129	.00054	.00002	.0073	.00014
%RSD	43.450	.10601	9.9669	.25832	.90018	.10258	3.5086
#1	.00152	16.944	.01388	.21003	.00230	7.1065	.00389
#2	.00080	16.969	.01205	.20926	.00233	7.1169	.00409
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00927	.03654	.02427	41.816	1.8632	.11924	.00503
SDev	.00005	.00004	.00013	.055	.0002	.00004	.00000
%RSD	.52027	.11963	.52535	.13139	.01004	.03695	.01021
#1	.00923	.03657	.02436	41.777	1.8631	.11921	.00503
#2	.00930	.03651	.02418	41.855	1.8633	.11927	.00503
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02704	.06536	.05960	.06151	.00263	.00061	.00128
SDev	.00089	.00032	.00010	.00004	.00193	.00554	.00305
%RSD	3.2970	.49140	.16160	.06944	73.377	911.93	238.41
#1	.02768	.06513	.05966	.06148	.00127	.00453	.00344
#2	.02641	.06559	.05953	.06155	.00399	-.00331	-.00088
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00345	.00227	.00036	-.00014	.07368	.11889	
SDev	.00585	.00292	.00389	.00403	.00002	.00039	
%RSD	169.56	128.75	1069.9	2811.6	.03208	.33075	
#1	.00069	.00433	.00312	.00271	.07367	.11917	
#2	-.00758	.00020	-.00239	-.00299	.07370	.11861	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

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IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11587	--	--	--	--	--	--
SDev	1.167002	--	--	--	--	--	--
%RSD	.0100716	--	--	--	--	--	--
#1	11588	--	--	--	--	--	--
#2	11586	--	--	--	--	--	--

Analysis Report

680 1147

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page 1

Method: METTRA Sample Name: DXLLCP5 Operator: WTR
 Run Time: 03/25/01 16:38:01
 Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00071	3.2160	.00421	.04025	.00180	1.3070	.00084
SDev	.00007	.0021	.00102	.00003	.00021	.0030	.00016
%RSD	10.489	.06534	24.119	.08159	11.843	.23038	19.096
#1	.00066	3.2174	.00349	.04023	.00195	1.3091	.00072
#2	.00076	3.2145	.00493	.04027	.00165	1.3049	.00095
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00178	.00697	.00261	8.0075	.35258	.02275	.00208
SDev	.00000	.00001	.00015	.0015	.00460	.00013	.00021
%RSD	.09488	.18471	5.8946	.01872	1.3043	.56826	9.9125
#1	.00178	.00698	.00251	8.0085	.35583	.02266	.00193
#2	.00178	.00696	.00272	8.0064	.34933	.02285	.00222
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00544	.01343	.01146	.01212	.00002	-.00124	-.00082
SDev	.00089	.00013	.00025	.00012	.00064	.00048	.00053
%RSD	16.318	.94360	2.1460	1.0056	2601.8	38.649	64.943
#1	.00481	.01352	.01129	.01203	-.00043	-.00158	-.00119
#2	.00607	.01334	.01164	.01220	.00047	-.00090	-.00044
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00031	.00261	.00185	.00203	.01529	.01214	
SDev	.00230	.00188	.00202	.00497	.00096	.00016	
%RSD	732.84	71.891	109.22	244.61	6.3006	1.3296	
#1	-.00131	.00129	.00042	.00555	.01597	.01226	
#2	.00194	.00394	.00328	-.00148	.01461	.01203	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11792	--	--	--	--	--	--
SDev	17.81854	--	--	--	--	--	--
%RSD	.1511109	--	--	--	--	--	--
#1	11804	--	--	--	--	--	--
#2	11779	--	--	--	--	--	--

Analysis Report

680 1149

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page 1

Method: METTRA Sample Name: DXLLCS

Run Time: 03/25/01 16:42:27

Operator: WTR

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04966	17.717	1.9576	2.0905	.05054	6.5668	.05150
SDev	.00008	.049	.0028	.0052	.00011	.0162	.00005
%RSD	.15582	.27603	.14080	.24637	.21772	.24731	.09172
#1	.04960	17.683	1.9557	2.0868	.05046	6.5553	.05147
#2	.04971	17.752	1.9596	2.0941	.05061	6.5783	.05153
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51114	.23138	.26207	40.711	1.7629	.59675	.00419
SDev	.00200	.00101	.00155	.116	.0017	.00159	.00011
%RSD	.39129	.43793	.59278	.28600	.09913	.26624	2.5467
#1	.50973	.23067	.26097	40.629	1.7642	.59563	.00412
#2	.51256	.23210	.26317	40.793	1.7617	.59787	.00427
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.52713	.55394	.54751	.54965	-.00200	.00207	.00071
SDev	.00188	.00194	.00237	.00094	.00276	.00217	.00236
%RSD	.35611	.34985	.43344	.17057	137.47	104.79	331.53
#1	.52846	.55531	.54583	.54899	-.00006	.00360	.00239
#2	.52580	.55257	.54919	.55031	-.00395	.00054	-.00096
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	1.8997	1.8919	1.8945	2.0185	.55100	.60825	
SDev	.0125	.0013	.0050	.0104	.00127	.00097	
%RSD	.65882	.06944	.26625	.51383	.23075	.15917	
#1	1.9086	1.8928	1.8981	2.0112	.55011	.60757	
#2	1.8909	1.8910	1.8910	2.0258	.55190	.60894	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

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IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11682	--	--	--	--	--	--
SDev	12.44549	--	--	--	--	--	--
%RSD	.1065393	--	--	--	--	--	--
#1	11690	--	--	--	--	--	--
#2	11673	--	--	--	--	--	--

Method: METTRA

Sample Name: DXLLCD

Operator: WTR

Run Time: 03/25/01 16:46:52

Comment: STL PITTSBURGH ICP METALS ANALYSIS, INSTRUMENT TRACE ICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05037	17.925	1.9886	2.1154	.05152	6.2573	.05097
SDev	.00027	.002	.0070	.0006	.00003	.0077	.00034
%RSD	.53908	.01374	.35454	.02638	.06838	.12320	.67261
#1	.05057	17.927	1.9936	2.1158	.05155	6.2518	.05121
#2	.05018	17.923	1.9836	2.1150	.05150	6.2627	.05072
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.51926	.23360	.26487	38.982	1.7580	.59756	.00387
SDev	.00036	.00047	.00004	.034	.0012	.00015	.00041
%RSD	.07001	.19930	.01644	.08673	.06965	.02571	10.480
#1	.51952	.23393	.26484	38.958	1.7589	.59745	.00359
#2	.51901	.23327	.26490	39.006	1.7571	.59767	.00416
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.53647	.56044	.55367	.55592	.00056	.00545	.00382
SDev	.00302	.00145	.00087	.00106	.00078	.00141	.00120
%RSD	.56369	.25802	.15719	.19104	138.93	25.873	31.402
#1	.53433	.56146	.55428	.55667	.00111	.00644	.00467
#2	.53861	.55942	.55305	.55517	.00001	.00445	.00297
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.9243	1.9092	1.9142	2.0535	.55675	.61190
SDev	.0002	.0162	.0107	.0045	.00169	.00071
%RSD	.00790	.84735	.56105	.22141	.30317	.11590
#1	1.9242	1.9206	1.9218	2.0567	.55794	.61240
#2	1.9244	1.8977	1.9066	2.0503	.55555	.61140
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

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IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11546	--	--	--	--	--	--
SDev	21.84988	--	--	--	--	--	--
%RSD	.1892338	--	--	--	--	--	--
#1	11531	--	--	--	--	--	--
#2	11562	--	--	--	--	--	--

Method: METTRA Sample Name: CCV3-5

Operator: WTR

Run Time: 03/25/01 16:51:19

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0176	24.099	.51759	1.9530	1.9868	50.285	.50243
SDev	.0019	.040	.00126	.0036	.0007	.022	.00119
%RSD	.18704	.16670	.24389	.18343	.03347	.04406	.23627
#1	1.0190	24.127	.51849	1.9555	1.9873	50.301	.50327
#2	1.0163	24.071	.51670	1.9504	1.9864	50.270	.50159
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	55.000	.55000
Low	.90000	22.500	.45000	1.8000	1.8000	45.000	.45000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0141	1.9980	1.9383	24.756	49.033	1.9773	2.0104
SDev	.0014	.0007	.0049	.026	.083	.0006	.0054
%RSD	.07078	.03391	.25251	.10362	.16904	.03034	.27077
#1	2.0131	1.9975	1.9418	24.774	49.092	1.9768	2.0066
#2	2.0151	1.9985	1.9349	24.738	48.975	1.9777	2.0143
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	27.500	55.000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	22.500	45.000	1.8000	1.8000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0199	.51094	.50753	.50866	.51276	.51100	.51158
SDev	.0004	.00084	.00132	.00116	.00298	.00388	.00358
%RSD	.01921	.16410	.25973	.22774	.58151	.76001	.70043
#1	2.0196	.51153	.50846	.50948	.51065	.50825	.50905
#2	2.0202	.51035	.50659	.50784	.51487	.51374	.51412
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000			.55000			.55000
Low	1.8000			.45000			.45000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.51323	.52712	.52249	1.0571	1.9927	2.0144	
SDev	.00501	.00318	.00379	.0081	.0034	.0026	
%RSD	.97668	.60361	.72564	.76503	.17148	.13058	
#1	.51678	.52937	.52517	1.0628	1.9951	2.0163	
#2	.50969	.52487	.51981	1.0514	1.9903	2.0126	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.55000	1.1000	2.2000	2.2000	
Low			.45000	.90000	1.8000	1.8000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11595	--	--	--	--	--	--
SDev	11.20806	--	--	--	--	--	--
%RSD	.0966610	--	--	--	--	--	--
#1	11603	--	--	--	--	--	--
#2	11587	--	--	--	--	--	--

Method: METTRA Sample Name: CCB5

Operator: WTR

Run Time: 03/25/01 16:55:45

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00017	.06094	.00099	.00020	.00200	-.06700	-.00004
SDev	.00008	.00268	.00024	.00021	.00019	.00149	.00028
%RSD	43.795	4.4053	24.502	109.57	9.3659	2.2288	679.37

#1	-.00012	.05904	.00116	.00004	.00213	-.06806	.00016
#2	-.00023	.06283	.00082	.00035	.00187	-.06594	-.00024

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00018	.00057	-.00250	.00481	.00366	.00017	.00297
SDev	.00032	.00050	.00026	.00003	.00152	.00013	.00071
%RSD	182.48	86.788	10.518	.67584	41.409	74.508	24.017

#1	-.00005	.00022	-.00268	.00484	.00259	.00008	.00247
#2	.00040	.00092	-.00231	.00479	.00473	.00026	.00348

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00047	-.00254	.00136	.00006	.00283	-.00222	-.00054
SDev	.00131	.00057	.00108	.00053	.00115	.00271	.00219
%RSD	279.39	22.433	79.520	851.40	40.604	121.88	404.54

#1	.00046	-.00294	.00213	.00044	.00201	-.00414	-.00209
#2	-.00139	-.00213	.00060	-.00031	.00364	-.00031	.00101

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00052	-.00096	-.00081	.00623	.00000	-.01403
SDev	.00306	.00087	.00044	.00272	.00065	.00006
%RSD	584.01	91.043	53.849	43.729	21956.	.40997

#1	-.00269	-.00034	-.00112	.00815	-.00046	-.01407
#2	.00164	-.00157	-.00050	.00430	.00046	-.01399

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			.00500	.01000	.05000	.02000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11920	--	--	--	--	--	--
SDev	51.97235	--	--	--	--	--	--
%RSD	.4360170	--	--	--	--	--	--
#1	11957	--	--	--	--	--	--
#2	11883	--	--	--	--	--	--

Method: METTRA Sample Name: DXLLG

Operator: WTR

Run Time: 03/25/01 17:00:11

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00145	23.387	.02470	.30430	.00259	5.6594	.00463
SDev	.00015	.003	.00181	.00028	.00013	.0110	.00023
%RSD	10.209	.01437	7.3395	.09312	5.0863	.19518	4.9521
#1	.00134	23.384	.02342	.30450	.00268	5.6516	.00447
#2	.00155	23.389	.02598	.30410	.00250	5.6672	.00480
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00807	.05117	.03322	185.59	1.6647	1.0842	.00458
SDev	.00015	.00045	.00008	.06	.0009	.0010	.00031
%RSD	1.8217	.87983	.24756	.03386	.05496	.08934	6.7309
#1	.00817	.05085	.03316	185.54	1.6640	1.0835	.00480
#2	.00796	.05148	.03328	185.63	1.6653	1.0848	.00436
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02315	.09840	.08849	.09179	.00116	-.00040	.00012
SDev	.00086	.00171	.00013	.00066	.00222	.00110	.00147
%RSD	3.6958	1.7353	.14953	.71564	190.92	271.32	1253.9
#1	.02255	.09961	.08858	.09225	-.00041	-.00118	-.00092
#2	.02376	.09720	.08839	.09132	.00273	.00037	.00116
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00481	.00289	.00033	-.00023	.11442	.16478	
SDev	.00135	.00146	.00143	.00462	.00128	.00049	
%RSD	28.055	50.667	438.93	1972.3	1.1144	.29482	
#1	-.00577	.00186	-.00068	.00303	.11352	.16444	
#2	-.00386	.00393	.00133	-.00350	.11532	.16513	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11792	--	--	--	--	--	--
SDev	11.70248	--	--	--	--	--	--
%RSD	.0992448	--	--	--	--	--	--
#1	11783	--	--	--	--	--	--
#2	11800	--	--	--	--	--	--

Method: METTRA Sample Name: DXLLJ

Operator: WTR

Run Time: 03/25/01 17:04:37

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00019	26.571	.02508	.31453	.00303	20.799	-.00045
SDev	.00046	.005	.00019	.00041	.00001	.004	.00020
%RSD	243.28	.01915	.75488	.13029	.33686	.02134	43.748

#1	.00052	26.568	.02521	.31482	.00303	20.795	-.00031
#2	-.00014	26.575	.02495	.31424	.00304	20.802	-.00059

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00744	.08685	.04756	82.702	3.2043	.14270	.00685
SDev	.00015	.00028	.00031	.022	.0061	.00009	.00041
%RSD	1.9518	.32634	.65709	.02652	.19132	.06098	5.9470

#1	.00755	.08705	.04734	82.687	3.2086	.14264	.00713
#2	.00734	.08665	.04778	82.718	3.2000	.14276	.00656

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04612	.11961	.11714	.11796	.00133	-.00005	.00041
SDev	.00070	.00102	.00057	.00072	.00206	.00079	.00016
%RSD	1.5227	.84825	.48989	.61089	155.38	1728.4	39.532

#1	.04661	.11889	.11674	.11745	.00279	-.00060	.00053
#2	.04562	.12033	.11755	.11847	-.00013	.00051	.00030

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00854	.00416	-.00007	-.00386	.20039	.20149
SDev	.00065	.00037	.00003	.00082	.00019	.00025
%RSD	7.6675	8.9250	41.854	21.379	.09429	.12581

#1	-.00900	.00442	-.00005	-.00327	.20053	.20167
#2	-.00808	.00390	-.00009	-.00444	.20026	.20131

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11958	--	--	--	--	--	--
SDev	13.47025	--	--	--	--	--	--
%RSD	.1126418	--	--	--	--	--	--
#1	11949	--	--	--	--	--	--
#2	11968	--	--	--	--	--	--

Method: METTRA Sample Name: DXLLM

Operator: WTR

Run Time: 03/25/01 17:09:03

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00068	.09454	.00211	.00143	.00156	1.1782	.00013
SDev	.00015	.01349	.00161	.00003	.00005	.0017	.00018
%RSD	21.917	14.271	76.158	2.1031	3.1087	.14303	136.01
#1	.00057	.10408	.00097	.00145	.00159	1.1794	.00026
#2	.00078	.08500	.00325	.00141	.00152	1.1770	.00001
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00065	.00312	.02440	.08567	2.5793	.00159	.00271
SDev	.00028	.00031	.00005	.00670	.0080	.00000	.00030
%RSD	42.590	9.9856	.20461	7.8148	.30831	.15937	11.036
#1	-.00045	.00334	.02444	.08093	2.5849	.00160	.00250
#2	-.00085	.00290	.02437	.09040	2.5736	.00159	.00292
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00162	.00707	.00099	.00301	.00185	.00241	.00222
SDev	.00120	.00026	.00053	.00044	.00016	.00183	.00117
%RSD	74.072	3.7081	54.107	14.740	8.6024	75.728	52.438
#1	.00077	.00725	.00137	.00333	.00173	.00371	.00305
#2	.00248	.00688	.00061	.00270	.00196	.00112	.00140
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00095	.00803	.00567	-.00038	.00118	.03489	
SDev	.00127	.00157	.00147	.00119	.00033	.00002	
%RSD	133.52	19.575	25.952	310.17	27.688	.06087	
#1	.00185	.00914	.00672	.00046	.00095	.03491	
#2	.00005	.00692	.00463	-.00122	.00141	.03488	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11818	--	--	--	--	--	--
SDev	15.37957	--	--	--	--	--	--
%RSD	.1301371	--	--	--	--	--	--
#1	11807	--	--	--	--	--	--
#2	11829	--	--	--	--	--	--

Method: METTRA Sample Name: DXLLT

Operator: WTR

Run Time: 03/25/01 17:13:29

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00045	.08571	.00227	.00059	.00147	1.2636	.00024
SDev	.00054	.00364	.00026	.00006	.00012	.0015	.00017
%RSD	120.55	4.2498	11.695	9.7774	8.3530	.11598	72.161
#1	.00007	.08828	.00245	.00055	.00156	1.2625	.00035
#2	.00083	.08313	.00208	.00063	.00139	1.2646	.00012
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00009	.00224	.00615	.06262	2.9811	.00150	.00199
SDev	.00005	.00026	.00017	.01229	.0048	.00000	.00071
%RSD	53.325	11.785	2.7379	19.627	.16010	.24672	35.570
#1	-.00006	.00206	.00603	.07131	2.9845	.00150	.00149
#2	-.00012	.00243	.00627	.05393	2.9777	.00150	.00249
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00131	.00489	-.00001	.00162	.00283	.00319	.00307
SDev	.00011	.00148	.00300	.00151	.00167	.00009	.00061
%RSD	8.5558	30.190	47756.	92.980	59.161	2.7547	20.062
#1	.00123	.00385	.00212	.00269	.00164	.00313	.00263
#2	.00139	.00593	-.00213	.00056	.00401	.00325	.00350
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00155	.00620	.00465	.00622	.00094	.03791	
SDev	.00018	.00228	.00146	.00314	.00065	.00009	
%RSD	11.393	36.676	31.329	50.451	68.936	.24441	
#1	.00168	.00459	.00362	.00400	.00048	.03798	
#2	.00143	.00781	.00569	.00843	.00140	.03785	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11859	--	--	--	--	--	--
SDev	23.61695	--	--	--	--	--	--
%RSD	.1991504	--	--	--	--	--	--
#1	11876	--	--	--	--	--	--
#2	11842	--	--	--	--	--	--

Analysis Report

680 1165

03/25/01 05:22:18 PM

page 1

Method: METTRA

Sample Name: DXLLX

Operator: WTR

Run Time: 03/25/01 17:17:55

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00100	.08080	.00327	.00058	.00149	1.0819	.00028
SDev	.00021	.00409	.00052	.00003	.00001	.0023	.00000
%RSD	21.011	5.0591	15.911	4.7299	.67689	.21535	1.1264
#1	.00085	.08369	.00290	.00060	.00148	1.0802	.00027
#2	.00115	.07791	.00363	.00056	.00150	1.0835	.00028
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00032	.00347	.02886	.15809	2.2474	.00165	.00320
SDev	.00018	.00007	.00021	.00213	.0015	.00003	.00040
%RSD	58.049	2.1287	.72185	1.3464	.06468	1.7848	12.487
#1	-.00045	.00342	.02871	.15960	2.2463	.00167	.00348
#2	-.00019	.00352	.02900	.15659	2.2484	.00163	.00291
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00308	.00558	-.00057	.00148	.00317	.00200	.00239
SDev	.00043	.00060	.00166	.00090	.00065	.00067	.00023
%RSD	14.061	10.844	291.59	61.131	20.434	33.454	9.6774
#1	.00339	.00600	-.00174	.00084	.00363	.00153	.00223
#2	.00278	.00515	.00060	.00212	.00271	.00248	.00255
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00034	.00744	.00485	.00270	.00120	.03665
SDev	.00051	.00029	.00002	.00473	.00032	.00010
%RSD	150.66	3.8594	.43031	175.30	27.069	.27576
#1	-.00070	.00764	.00486	-.00065	.00143	.03672
#2	.00002	.00724	.00483	.00604	.00097	.03658
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

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IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11879	--	--	--	--	--	--
SDev	10.39392	--	--	--	--	--	--
%RSD	.0874986	--	--	--	--	--	--
#1	11886	--	--	--	--	--	--
#2	11872	--	--	--	--	--	--

Analysis Report

680 1167

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Method: METTRA Sample Name: DXNVLB

Run Time: 03/25/01 17:22:21

Operator: WTR

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00019	.05889	-.00008	.00004	.00146	-.01794	.00014
SDev	.00052	.00264	.00051	.00003	.00008	.00036	.00007
%RSD	273.84	4.4848	630.03	69.579	5.4908	2.0236	47.727
#1	-.00018	.06076	.00028	.00002	.00151	-.01820	.00009
#2	.00055	.05703	-.00044	.00006	.00140	-.01768	.00019
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00024	.00091	-.00161	.00568	.00215	.00007	.00153
SDev	.00024	.00061	.00040	.01043	.00470	.00003	.00061
%RSD	98.653	66.841	24.651	183.58	218.08	46.080	40.033
#1	-.00007	.00048	-.00189	-.00169	-.00117	.00005	.00197
#2	-.00041	.00134	-.00133	.01306	.00547	.00010	.00110
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00087	.00402	-.00142	.00039	.00047	.00290	.00209
SDev	.00079	.00098	.00148	.00066	.00063	.00019	.00009
%RSD	90.127	24.408	103.69	169.94	133.89	6.4103	4.1005
#1	.00032	.00332	-.00038	.00085	.00092	.00277	.00215
#2	.00143	.00471	-.00247	-.00008	.00003	.00303	.00203
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00087	.00402	-.00142	.00039	.00047	.00290	.00209
SDev	.00079	.00098	.00148	.00066	.00063	.00019	.00009
%RSD	90.127	24.408	103.69	169.94	133.89	6.4103	4.1005
#1	.00032	.00332	-.00038	.00085	.00092	.00277	.00215
#2	.00143	.00471	-.00247	-.00008	.00003	.00303	.00203
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00087	.00402	-.00142	.00039	.00047	.00290	.00209
SDev	.00079	.00098	.00148	.00066	.00063	.00019	.00009
%RSD	90.127	24.408	103.69	169.94	133.89	6.4103	4.1005
#1	.00032	.00332	-.00038	.00085	.00092	.00277	.00215
#2	.00143	.00471	-.00247	-.00008	.00003	.00303	.00203
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00526	.00385	.00082	-.00113	.00024	-.00760
SDev	.00342	.00544	.00249	.00099	.00034	.00012
%RSD	65.030	141.01	303.44	87.559	141.74	1.6045
#1	-.00768	.00770	.00258	-.00184	-.00000	-.00768
#2	-.00284	.00001	-.00094	-.00043	.00048	-.00751
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			.00500	.01000	.05000	.02000
Low			-.00500	-.01000	-.05000	-.02000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00526	.00385	.00082	-.00113	.00024	-.00760
SDev	.00342	.00544	.00249	.00099	.00034	.00012
%RSD	65.030	141.01	303.44	87.559	141.74	1.6045
#1	-.00768	.00770	.00258	-.00184	-.00000	-.00768
#2	-.00284	.00001	-.00094	-.00043	.00048	-.00751
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			.00500	.01000	.05000	.02000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11555	--	--	--	--	--	--
SDev	42.49753	--	--	--	--	--	--
%RSD	.3677737	--	--	--	--	--	--
#1	11585	--	--	--	--	--	--
#2	11525	--	--	--	--	--	--

Analysis Report

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Method: METTRA

Sample Name: DXNVLC

Operator: WTR

Run Time: 03/25/01 17:26:47

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04908	1.8234	1.9693	1.8818	.04882	L-.06445	.04914
SDev	.00022	.0009	.0095	.0026	.00010	.00003	.00037
%RSD	.45038	.04679	.48182	.13728	.19509	.05186	.75292

#1	.04923	1.8240	1.9760	1.8836	.04888	L-.06442	.04940
#2	.04892	1.8228	1.9626	1.8800	.04875	L-.06447	.04888

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass
High	.06000	2.4000	2.4000	2.4000	.06000	60.000	.06000
Low	.04000	1.6000	1.6000	1.6000	.04000	40.000	.04000

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50261	.19818	.23131	1.0029	L.00066	.48342	L.00146
SDev	.00089	.00052	.00011	.0052	.00262	.00050	.00031
%RSD	.17744	.25965	.04613	.51979	394.88	.10396	21.136

#1	.50324	.19854	.23124	1.0065	L.00251	.48378	L.00124
#2	.50198	.19781	.23129	.99917	L-.00119	.48307	L.00168

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass	LC Low
High	.60000	.24000	.30000	1.2000	60.000	.60000	1.2000
Low	.40000	.16000	.20000	.80000	40.000	.40000	.80000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49960	.49172	.48582	.48778	-.00095	.00006	L-.00028
SDev	.00133	.00051	.00005	.00020	.00227	.00552	.00444
%RSD	.26630	.10432	.00993	.04162	239.16	9594.6	1602.5

#1	.50054	.49209	.48585	.48793	.00065	.00396	L.00286
#2	.49866	.49136	.48578	.48764	-.00255	-.00385	L-.00342

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Low
High	.60000			.60000			.60000
Low	.40000			.40000			.40000

Elem	SE/1	SE/2	SE	TL	V	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9390	1.9305	1.9333	1.9969	.47787	.48619
SDev	.0130	.0036	.0019	.0082	.00131	.00067
%RSD	.67020	.18466	.10084	.41264	.27432	.13801

#1	1.9298	1.9330	1.9320	1.9911	.47880	.48667
#2	1.9482	1.9280	1.9347	2.0028	.47694	.48572

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			2.4000	2.4000	.60000	.60000
Low			1.6000	1.6000	.40000	.40000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11542	--	--	--	--	--	--
SDev	7.389404	--	--	--	--	--	--
%RSD	.0640203	--	--	--	--	--	--
#1	11537	--	--	--	--	--	--
#2	11548	--	--	--	--	--	--

Analysis Report

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Method: METTRA

Sample Name: DXLKX

Operator: WTR

Run Time: 03/25/01 17:31:14

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00032	.12471	-.00031	.13875	.00151	24.721	.00016
SDev	.00033	.00283	.00059	.00004	.00012	.010	.00008
%RSD	101.64	2.2680	194.49	.03035	7.6886	.03941	51.235

#1	.00055	.12271	-.00072	.13878	.00159	24.728	.00021
#2	.00009	.12671	.00011	.13872	.00143	24.714	.00010

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00013	.00112	-.00129	.31273	4.4602	.00846	.00139
SDev	.00028	.00017	.00011	.00970	.0077	.00011	.00082
%RSD	223.61	15.349	8.6208	3.1030	.17252	1.3046	59.381

#1	.00033	.00124	-.00137	.31959	4.4657	.00854	.00080
#2	-.00007	.00100	-.00121	.30587	4.4548	.00838	.00197

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00024	.00241	.00084	.00137	.00127	-.00182	-.00079
SDev	.00011	.00002	.00155	.00104	.00154	.00054	.00015
%RSD	47.437	.79101	184.04	76.279	120.58	29.496	19.559

#1	-.00016	.00240	-.00025	.00063	.00019	-.00144	-.00090
#2	-.00032	.00242	.00194	.00210	.00236	-.00220	-.00068

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00583	.00251	-.00027	.00220	.00081	-.01248
SDev	.00511	.00150	.00270	.00016	.00034	.00015
%RSD	87.599	59.900	1011.9	7.2036	41.817	1.2060

#1	-.00222	.00357	.00164	.00232	.00105	-.01258
#2	-.00944	.00145	-.00218	.00209	.00057	-.01237

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

Analysis Report

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IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11574	--	--	--	--	--	--
SDev	18.63199	--	--	--	--	--	--
%RSD	.1609845	--	--	--	--	--	--
#1	11561	--	--	--	--	--	--
#2	11587	--	--	--	--	--	--

Analysis Report

680 1173

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Method: METTRA

Sample Name: DXLKXP5

Operator: WTR

Run Time: 03/25/01 17:35:40

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00015	.07227	.00124	.02778	.00163	4.9180	-.00006
SDev	.00002	.00177	.00085	.00003	.00006	.0019	.00002
%RSD	16.165	2.4550	68.564	.09224	3.7384	.03927	33.441

#1	.00013	.07102	.00064	.02777	.00167	4.9193	-.00005
#2	.00017	.07353	.00184	.02780	.00158	4.9166	-.00008

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00053	-.00012	-.00200	.06041	.89130	.00167	.00165
SDev	.00028	.00002	.00037	.00922	.00549	.00003	.00000
%RSD	53.697	19.220	18.456	15.261	.61564	2.1213	.20165

#1	-.00033	-.00010	-.00226	.05389	.89518	.00165	.00165
#2	-.00073	-.00014	-.00174	.06693	.88742	.00170	.00165

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00039	.00085	.00055	.00065	-.00003	-.00304	-.00204
SDev	.00011	.00038	.00036	.00011	.00075	.00041	.00052
%RSD	28.026	45.504	64.924	17.218	2622.5	13.448	25.621

#1	-.00047	.00112	.00030	.00057	.00050	-.00275	-.00167
#2	-.00031	.00057	.00081	.00073	-.00056	-.00333	-.00241

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00290	-.00040	.00070	.00188	-.00021	-.01375
SDev	.00036	.00030	.00032	.00321	.00033	.00015
%RSD	12.484	74.956	45.636	171.16	155.64	1.0884

#1	.00315	-.00019	.00092	.00415	-.00045	-.01385
#2	.00264	-.00061	.00047	-.00039	.00002	-.01364

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

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IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11750	--	--	--	--	--	--
SDev	22.69854	--	--	--	--	--	--
%RSD	.1931865	--	--	--	--	--	--
#1	11766	--	--	--	--	--	--
#2	11734	--	--	--	--	--	--

Analysis Report

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Method: METTRA

Sample Name: DXLKXS

Operator: WTR

Run Time: 03/25/01 17:40:06

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05061	1.9470	2.0161	2.0508	.04952	24.416	.04888
SDev	.00039	.0010	.0054	.0021	.00011	.049	.00012
%RSD	.77416	.05200	.26632	.10281	.22338	.20268	.25093

#1	.05033	1.9463	2.0123	2.0493	.04944	24.381	.04879
#2	.05089	1.9477	2.0199	2.0523	.04959	24.451	.04897

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50408	.19886	.23443	1.2899	4.4120	.49684	.00184
SDev	.00302	.00015	.00069	.0249	.0124	.00196	.00021
%RSD	.59977	.07437	.29354	1.9271	.28182	.39520	11.722

#1	.50194	.19896	.23395	1.2723	4.4032	.49545	.00169
#2	.50622	.19876	.23492	1.3075	4.4208	.49823	.00199

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50025	.50164	.49463	.49696	.00033	.00029	.00030
SDev	.00148	.00250	.00262	.00258	.00209	.00131	.00157
%RSD	.29679	.49829	.53036	.51958	638.40	451.82	519.19

#1	.50130	.49987	.49278	.49514	-.00115	-.00063	-.00081
#2	.49920	.50341	.49649	.49879	.00180	.00121	.00141

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0059	2.0085	2.0076	2.0709	.48756	.49202
SDev	.0047	.0046	.0046	.0111	.00106	.00138
%RSD	.23203	.23016	.23078	.53446	.21735	.28132

#1	2.0026	2.0052	2.0044	2.0630	.48831	.49105
#2	2.0092	2.0117	2.0109	2.0787	.48681	.49300

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

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IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11494	--	--	--	--	--	--
SDev	46.13872	--	--	--	--	--	--
%RSD	.4014130	--	--	--	--	--	--
#1	11527	--	--	--	--	--	--
#2	11461	--	--	--	--	--	--

Analysis Report

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Method: METTRA Sample Name: CCV3-6

Run Time: 03/25/01 17:44:32

Operator: WTR

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0229	24.176	.51805	1.9632	1.9883	50.235	.50179
SDev	.0010	.023	.00250	.0024	.0029	.044	.00042
%RSD	.09304	.09522	.48229	.12231	.14730	.08781	.08464

#1	1.0222	24.159	.51628	1.9615	1.9862	50.204	.50209
#2	1.0235	24.192	.51982	1.9649	1.9904	50.266	.50149

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	55.000	.55000
Low	.90000	22.500	.45000	1.8000	1.8000	45.000	.45000

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0193	2.0013	1.9461	24.799	49.079	1.9829	2.0183
SDev	.0064	.0039	.0012	.034	.005	.0032	.0114
%RSD	.31805	.19679	.06053	.13886	.01020	.15893	.56582

#1	2.0148	1.9985	1.9452	24.774	49.076	1.9806	2.0103
#2	2.0239	2.0041	1.9469	24.823	49.083	1.9851	2.0264

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	27.500	55.000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	22.500	45.000	1.8000	1.8000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0078	.51100	.50517	.50711	.50981	.51632	.51415
SDev	.0038	.00326	.00331	.00329	.00097	.00165	.00142
%RSD	.18691	.63768	.65518	.64930	.18998	.31956	.27678

#1	2.0105	.51330	.50751	.50944	.50912	.51515	.51314
#2	2.0052	.50869	.50283	.50478	.51049	.51749	.51516

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000			.55000			.55000
Low	1.8000			.45000			.45000

Elem	SE/1	SE/2	SE	TL	V	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51739	.52108	.51985	1.0455	1.9897	2.0190
SDev	.00273	.00282	.00279	.0058	.0059	.0023
%RSD	.52782	.54218	.53742	.55595	.29705	.11314

#1	.51932	.52307	.52182	1.0413	1.9856	2.0174
#2	.51546	.51908	.51787	1.0496	1.9939	2.0206

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			.55000	1.1000	2.2000	2.2000
Low			.45000	.90000	1.8000	1.8000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11497	--	--	--	--	--	--
SDev	4.737753	--	--	--	--	--	--
%RSD	.0412081	--	--	--	--	--	--
#1	11494	--	--	--	--	--	--
#2	11500	--	--	--	--	--	--

Analysis Report

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Method: METTRA Sample Name: CCB6

Run Time: 03/25/01 17:48:58

Operator: WTR

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00042	.06468	.00168	.00041	.00192	-.06428	.00025
SDev	.00014	.00006	.00004	.00042	.00001	.00657	.00009
%RSD	32.501	.09140	2.4208	102.71	.28526	10.222	34.914
#1	.00032	.06464	.00165	.00011	.00191	-.06893	.00019
#2	.00052	.06472	.00171	.00071	.00192	-.05963	.00031
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00000	.00072	-.00187	.00645	.00875	.00034	.00317
SDev	.00038	.00036	.00003	.00689	.00878	.00029	.00051
%RSD	236750.	49.622	1.4103	106.86	100.27	85.070	15.930
#1	.00027	.00047	-.00185	.00158	.00255	.00013	.00353
#2	-.00027	.00098	-.00189	.01132	.01496	.00054	.00281
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00023	-.00106	.00247	.00130	.00182	-.00110	-.00006
SDev	.00033	.00034	.00105	.00081	.00081	.00113	.00102
%RSD	141.81	31.792	42.490	62.751	44.342	59.389	153.85
#1	-.00000	-.00082	.00322	.00187	.00239	-.00110	.00006
#2	.00047	-.00130	.00173	.00072	.00125	-.00270	-.00139
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00086	-.00193	-.00158	.00716	.00023	-.01385	
SDev	.00385	.00386	.00129	.00283	.00033	.00000	
%RSD	445.53	199.85	82.007	39.472	139.24	.01092	
#1	.00186	-.00466	-.00249	.00516	.00047	-.01385	
#2	-.00359	.00080	-.00066	.00916	.00000	-.01385	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

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IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11712	--	--	--	--	--	--
SDev	16.44023	--	--	--	--	--	--
%RSD	.1403693	--	--	--	--	--	--
#1	11724	--	--	--	--	--	--
#2	11700	--	--	--	--	--	--

Analysis Report

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Method: METTRA

Sample Name: DXLKXD

Operator: WTR

Run Time: 03/25/01 17:53:24

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05097	1.9938	2.0481	2.1023	.05061	24.949	.04978
SDev	.00031	.0056	.0027	.0008	.00001	.048	.00006
%RSD	.61252	.28059	.13260	.03690	.02344	.19069	.11337

#1	.05075	1.9898	2.0500	2.1029	.05060	24.916	.04974
#2	.05119	1.9977	2.0462	2.1018	.05061	24.983	.04982

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.51688	.20405	.24127	1.3283	4.5099	.50836	.00177
SDev	.00114	.00110	.00029	.0015	.0123	.00048	.00031
%RSD	.22006	.54039	.12132	.11628	.27304	.09453	17.601

#1	.51607	.20327	.24107	1.3294	4.5012	.50802	.00199
#2	.51768	.20483	.24148	1.3272	4.5186	.50870	.00155

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.51612	.50849	.50263	.50528	-.00000	.00000	.00000
SDev	.00171	.00045	.00017	.00015	.00123	.00000	.00000
%RSD	.33154	.09388	.09291	.03031	176.40	5.3069	124.85

#1	.51733	.50816	.50401	.50539	-.00157	.00084	.00004
#2	.51491	.50883	.50334	.50517	.00017	.00078	.00058

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.0151	2.0064	2.0093	2.0845	.49838	.50130
SDev	.0091	.0023	.0046	.0145	.00171	.00033
%RSD	.44972	.11664	.22788	.69413	.34316	.06646

#1	2.0215	2.0081	2.0125	2.0743	.49959	.50107
#2	2.0087	2.0047	2.0061	2.0947	.49717	.50154

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11459	--	--	--	--	--	--
SDev	7.177410	--	--	--	--	--	--
%RSD	.0626379	--	--	--	--	--	--
#1	11464	--	--	--	--	--	--
#2	11454	--	--	--	--	--	--

Analysis Report

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Method: METTRA

Sample Name: DXLK6

Run Time: 03/25/01 17:57:50

Operator: WTR

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACE ICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00111	.08673	.00226	.13742	.00142	24.419	.00049
SDev	.00033	.00613	.00102	.00030	.00002	.001	.00003
%RSD	29.544	7.0671	44.997	.22165	1.6963	.00215	6.3908
#1	.00088	.09107	.00298	.13763	.00140	24.420	.00047
#2	.00134	.08240	.00154	.13720	.00144	24.419	.00051
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00045	.00126	-.00150	.20220	4.3810	.00482	.00234
SDev	.00043	.00061	.00001	.01106	.0032	.00005	.00030
%RSD	96.351	48.398	.85765	5.4721	.07357	1.0648	12.999
#1	-.00075	.00169	-.00151	.19437	4.3787	.00479	.00213
#2	-.00014	.00083	-.00149	.21002	4.3833	.00486	.00256
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00175	.00122	.00117	.00007	.00133	.00033	.00157
SDev	.00007	.00015	.00007	.00007	.00013	.00003	.00075
%RSD	38.300	108.56	84.498	24.926	98.560	10.522	47.506
#1	.00127	.00350	-.00222	-.00031	-.00272	.00292	.00104
#2	.00222	.00046	-.00056	-.00022	-.00049	.00339	.00210
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00574	.00429	.00095	.00140	.00172	-.00726	
SDev	.00478	.00316	.00370	.00360	.00034	.00012	
%RSD	83.194	73.833	390.74	257.28	19.474	1.7134	
#1	-.00236	.00652	.00356	-.00115	.00196	-.00717	
#2	-.00912	.00205	-.00167	.00395	.00148	-.00734	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

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IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11541	--	--	--	--	--	--
SDev	28.77939	--	--	--	--	--	--
%RSD	.2493632	--	--	--	--	--	--
#1	11521	--	--	--	--	--	--
#2	11562	--	--	--	--	--	--

Analysis Report

680 1185

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Method: METTRA Sample Name: DXLK9

Run Time: 03/25/01 18:02:16

Operator: WTR

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00034	.10291	.00183	.14167	.00134	25.147	.00075
SDev	.00051	.00226	.00115	.00018	.00001	.008	.00004
%RSD	149.54	2.1967	62.490	.12851	.93316	.03103	5.9552
#1	.00070	.10451	.00264	.14154	.00135	25.141	.00071
#2	-.00002	.10131	.00102	.14180	.00133	25.152	.00078
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00008	.00076	-.00163	.17154	4.4453	.00358	.00205
SDev	.00029	.00005	.00008	.02100	.0042	.00003	.00031
%RSD	364.83	6.4529	5.0548	12.243	.09478	.95155	15.097
#1	-.00028	.00080	-.00169	.18639	4.4483	.00361	.00183
#2	.00012	.00073	-.00157	15669	4.4424	.00356	.00227
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00008	.00281	.00053	.00129	-.00005	-.00000	-.00000
SDev	.00000	.00000	.00000	.00000	.00000	.00000	.00000
%RSD	2000.1	40.353	222.10	90.437	152.36	123.20	132.68
#1	.00128	.00201	-.00030	.00047	.00005	-.00009	-.00004
#2	-.00111	.00362	.00137	.00212	-.00136	-.00126	-.00129
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00008	.00281	.00053	.00129	-.00005	-.00000	-.00000
SDev	.00000	.00000	.00000	.00000	.00000	.00000	.00000
%RSD	2000.1	40.353	222.10	90.437	152.36	123.20	132.68
#1	.00128	.00201	-.00030	.00047	.00005	-.00009	-.00004
#2	-.00111	.00362	.00137	.00212	-.00136	-.00126	-.00129
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00008	.00281	.00053	.00129	-.00005	-.00000	-.00000
SDev	.00000	.00000	.00000	.00000	.00000	.00000	.00000
%RSD	2000.1	40.353	222.10	90.437	152.36	123.20	132.68
#1	.00128	.00201	-.00030	.00047	.00005	-.00009	-.00004
#2	-.00111	.00362	.00137	.00212	-.00136	-.00126	-.00129
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00008	.00281	.00053	.00129	-.00005	-.00000	-.00000
SDev	.00000	.00000	.00000	.00000	.00000	.00000	.00000
%RSD	2000.1	40.353	222.10	90.437	152.36	123.20	132.68
#1	.00128	.00201	-.00030	.00047	.00005	-.00009	-.00004
#2	-.00111	.00362	.00137	.00212	-.00136	-.00126	-.00129
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00462	.00349	.00079	.00380	.00053	-.01306
SDev	.00309	.00327	.00321	.00474	.00066	.00009
%RSD	66.867	93.762	407.29	124.92	125.49	.70422
#1	-.00243	.00580	.00306	.00715	.00006	-.01300
#2	-.00680	.00117	-.00148	.00044	.00100	-.01313
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00462	.00349	.00079	.00380	.00053	-.01306
SDev	.00309	.00327	.00321	.00474	.00066	.00009
%RSD	66.867	93.762	407.29	124.92	125.49	.70422
#1	-.00243	.00580	.00306	.00715	.00006	-.01300
#2	-.00680	.00117	-.00148	.00044	.00100	-.01313
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00462	.00349	.00079	.00380	.00053	-.01306
SDev	.00309	.00327	.00321	.00474	.00066	.00009
%RSD	66.867	93.762	407.29	124.92	125.49	.70422
#1	-.00243	.00580	.00306	.00715	.00006	-.01300
#2	-.00680	.00117	-.00148	.00044	.00100	-.01313
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11513	--	--	--	--	--	--
SDev	5.480078	--	--	--	--	--	--
%RSD	.0475971	--	--	--	--	--	--
#1	11510	--	--	--	--	--	--
#2	11517	--	--	--	--	--	--

Analysis Report

680 1187

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page 1

Method: METTRA

Sample Name: DXT56B

Operator: WTR

Run Time: 03/25/01 18:06:43

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00082	.06512	.00036	.00017	.00131	-.06589	.00009
SDev	.00063	.00148	.00067	.00006	.00007	.01064	.00010
%RSD	76.593	2.2788	188.82	33.548	4.9914	16.154	109.07
#1	.00037	.06617	.00083	.00013	.00136	-.07342	.00002
#2	.00126	.06407	-.00012	.00021	.00127	-.05837	.00016
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00005	.00123	-.00206	.03949	.00137	.00017	.00192
SDev	.00043	.00003	.00009	.01631	.00053	.00010	.00052
%RSD	884.23	2.0225	4.2176	41.294	38.377	57.646	27.161
#1	-.00035	.00122	-.00200	.02796	.00100	.00010	.00229
#2	.00026	.00125	-.00212	.05102	.00175	.00024	.00155
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00032	.00206	-.00016	.00057	-.00158	.00132	.00000
SDev	.00091	.00147	.00107	.00000	.00000	.00000	.00000
%RSD	255.60	71.348	649.13	38.458	25.395	119.11	336.81
#1	-.00096	.00310	-.00092	.00042	-.00187	.00021	-.00048
#2	.00032	.00101	.00059	.00073	-.00130	.00242	.00118
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00032	.00206	-.00016	.00057	-.00158	.00132	.00000
SDev	.00091	.00147	.00107	.00000	.00000	.00000	.00000
%RSD	255.60	71.348	649.13	38.458	25.395	119.11	336.81
#1	-.00096	.00310	-.00092	.00042	-.00187	.00021	-.00048
#2	.00032	.00101	.00059	.00073	-.00130	.00242	.00118
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00032	.00206	-.00016	.00057	-.00158	.00132	.00000
SDev	.00091	.00147	.00107	.00000	.00000	.00000	.00000
%RSD	255.60	71.348	649.13	38.458	25.395	119.11	336.81
#1	-.00096	.00310	-.00092	.00042	-.00187	.00021	-.00048
#2	.00032	.00101	.00059	.00073	-.00130	.00242	.00118
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00793	-.00047	-.00295	.00055	.00073	-.01420
SDev	.00118	.00392	.00300	.00044	.00034	.00011
%RSD	14.846	832.28	101.66	79.706	47.053	.76592
#1	-.00876	-.00324	L-.00508	.00024	.00049	-.01412
#2	-.00710	.00230	-.00083	.00086	.00097	-.01428
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			.00500	.01000	.05000	.02000
Low			-.00500	-.01000	-.05000	-.02000

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IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11447	--	--	--	--	--	--
SDev	1.802984	--	--	--	--	--	--
%RSD	.0157505	--	--	--	--	--	--
#1	11448	--	--	--	--	--	--
#2	11446	--	--	--	--	--	--

Analysis Report

680 1189

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page 1

Method: METTRA

Sample Name: DXT56C

Operator: WTR

Run Time: 03/25/01 18:11:09

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05000	2.0153	1.9690	1.9038	.04885	48.547	.04712
SDev	.00018	.0033	.0003	.0012	.00004	.016	.00020
%RSD	.36240	.16349	.01324	.06415	.07392	.03372	.43067

#1	.05012	2.0176	1.9692	1.9030	.04882	48.535	.04697
#2	.04987	2.0129	1.9688	1.9047	.04888	48.558	.04726

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.06000	2.4000	2.4000	2.4000	.06000	60.000	.06000
Low	.04000	1.6000	1.6000	1.6000	.04000	40.000	.04000

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.48965	.19642	.23762	.82640	47.975	.48129	.99108
SDev	.00087	.00111	.00032	.02969	.026	.00086	.00288
%RSD	.17851	.56378	.13445	3.5932	.05322	.17910	.29071

#1	.48903	.19563	.23784	.84739	47.993	.48068	.98905
#2	.49027	.19720	.23739	.80540	47.957	.48190	.99312

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.60000	.24000	.30000	1.2000	60.000	.60000	1.2000
Low	.40000	.16000	.20000	.80000	40.000	.40000	.80000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.48543	.48910	.48236	.48460	.48302	.49420	.49048
SDev	.00050	.00155	.00071	.00004	.00084	.00100	.00100
%RSD	.10302	.31616	.14633	.00910	.17392	.40132	.21268

#1	.48578	.48800	.48286	.48457	.48243	.49561	.49122
#2	.48508	.49019	.48186	.48464	.48362	.49280	.48974

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.60000			.60000			.60000
Low	.40000			.40000			.40000

Elem	SE/1	SE/2	SE	TL	V	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9523	1.9546	1.9539	2.0397	.48514	.48359
SDev	.0033	.0046	.0020	.0066	.00534	.00029
%RSD	.16677	.23348	.10030	.32441	1.1013	.05931
#1	1.9500	1.9578	1.9552	2.0350	.48892	.48339
#2	1.9546	1.9514	1.9525	2.0443	.48136	.48380

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			2.4000	2.4000	.60000	.60000
Low			1.6000	1.6000	.40000	.40000

680 1190

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11447	--	--	--	--	--	--
SDev	6.470303	--	--	--	--	--	--
%RSD	.0565251	--	--	--	--	--	--
#1	11442	--	--	--	--	--	--
#2	11451	--	--	--	--	--	--

Method: METTRA Sample Name: DXRH2

Run Time: 03/25/01 18:15:35

Operator: WTR

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00154	4.5804	.02100	.12429	.00093	29.171	-.00002
SDev	.00036	.0054	.00077	.00019	.00001	.058	.00002
%RSD	23.263	.11815	3.6749	.15521	1.2015	.19771	105.93

#1	.00179	4.5842	.02155	.12443	.00094	29.130	-.00003
#2	.00129	4.5765	.02045	.12416	.00093	29.211	-.00000

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00217	.14526	.02638	3.8631	6.1021	.10846	.00872
SDev	.00025	.00049	.00043	.0010	.0058	.00023	.00033
%RSD	11.383	.33381	1.6395	.02696	.09486	.21194	3.7870

#1	.00200	.14492	.02608	3.8624	6.0980	.10830	.00895
#2	.00235	.14560	.02669	3.8638	6.1062	.10862	.00849

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01519	.01149	.00751	.00884	.00477	.00490	.00486
SDev	.00083	.00008	.00113	.00078	.00111	.00129	.00123
%RSD	5.4721	.66477	15.069	8.8334	23.345	26.309	25.340

#1	.01578	.01154	.00832	.00939	.00398	.00399	.00399
#2	.01460	.01144	.00671	.00829	.00555	.00581	.00573

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00094	-.00078	-.00021	.00864	.01261	.64468
SDev	.00334	.00164	.00220	.00015	.00069	.00068
%RSD	355.37	209.49	1056.1	1.7183	5.4893	.10554

#1	.00330	.00038	.00135	.00874	.01212	.64420
#2	-.00142	-.00194	-.00177	.00853	.01310	.64517

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11042	--	--	--	--	--	--
SDev	7.354186	--	--	--	--	--	--
%RSD	.0666004	--	--	--	--	--	--
#1	11037	--	--	--	--	--	--
#2	11047	--	--	--	--	--	--

Analysis Report

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Method: METTRA

Sample Name: DXRH2P5

Operator: WTR

Run Time: 03/25/01 18:20:02

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00048	.94697	.00458	.02555	.00107	5.9053	.00013
SDev	.00018	.00213	.00032	.00001	.00013	.0080	.00032
%RSD	36.463	.22480	6.8731	.03853	11.785	.13570	250.10
#1	.00061	.94848	.00480	.02554	.00116	5.9109	-.00010
#2	.00036	.94547	.00436	.02555	.00099	5.8996	.00035
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00073	.02985	.00367	.78342	1.2795	.02163	.00247
SDev	.00028	.00022	.00016	.00346	.0023	.00003	.00051
%RSD	38.835	.73449	4.2934	.44161	.17604	.14299	20.644
#1	.00053	.03000	.00355	.78587	1.2811	.02166	.00283
#2	.00093	.02969	.00378	.78098	1.2779	.02161	.00211
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00245	.00324	.00323	.00323	.00201	.00260	.00240
SDev	.00033	.00115	.00133	.00050	.00464	.00011	.00147
%RSD	13.515	35.546	41.098	15.487	231.30	4.2111	61.260
#1	.00268	.00406	.00229	.00288	-.00128	.00268	.00136
#2	.00221	.00243	.00417	.00359	.00529	.00253	.00345
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00105	-.00819	L-.00511	.00602	.00143	.11716	
SDev	.00199	.00129	.00152	.00407	.00033	.00036	
%RSD	189.26	15.711	29.780	67.617	23.274	.30412	
#1	-.00036	-.00910	L-.00619	.00889	.00166	.11741	
#2	.00246	-.00728	-.00404	.00314	.00119	.11691	
Errors	NOCHECK	NOCHECK	LC Low	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11617	--	--	--	--	--	--
SDev	17.39455	--	--	--	--	--	--
%RSD	.1497284	--	--	--	--	--	--
#1	11630	--	--	--	--	--	--
#2	11605	--	--	--	--	--	--

Analysis Report

680 1195

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Method: METTRA

Sample Name: DXRH2S

Run Time: 03/25/01 18:24:28

Operator: WTR

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem Units	AG ppm	AL ppm	AS ppm	BA ppm	BE ppm	CA ppm	CD ppm
Avge	.05495	8.0384	2.1060	1.9941	.04854	78.251	.04623
SDev	.00004	.0066	.0091	.0027	.00026	.160	.00017
%RSD	.06985	.08196	.43401	.13438	.54317	.20407	.35944
#1	.05492	8.0337	2.0995	1.9922	.04835	78.138	.04611
#2	.05497	8.0430	2.1124	1.9960	.04873	78.364	.04635
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem Units	CO ppm	CR ppm	CU ppm	FE ppm	MG ppm	MN ppm	MO ppm
Avge	.48314	.34522	.28360	4.8346	53.453	.60029	1.0031
SDev	.00289	.00072	.00047	.0041	.048	.00158	.0057
%RSD	.59793	.20983	.16561	.08486	.09025	.26368	.56483
#1	.48110	.34573	.28327	4.8317	53.418	.59918	.99910
#2	.48518	.34470	.28394	4.8375	53.487	.60141	1.0071
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem Units	NI ppm	PB/1 ppm	PB/2 ppm	PB ppm	SB/1 ppm	SB/2 ppm	SB ppm
Avge	.48949	.50609	.48239	.49028	.50021	.51751	.51111
SDev	.00076	.00131	.00077	.00295	.00567	.00117	.00111
%RSD	.15486	.25933	.78227	.60251	1.1338	.22516	.21714
#1	.49002	.50516	.47972	.48819	.49620	.51837	.51098
#2	.48895	.50701	.48505	.49237	.50422	.51672	.51255
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem Units	SE/1 ppm	SE/2 ppm	SE ppm	TL ppm	V_ ppm	ZN ppm	
Avge	2.0688	2.0128	2.0314	2.0734	.51602	1.1503	
SDev	.0082	.0067	.0017	.0046	.00144	.0011	
%RSD	.39402	.33117	.08524	.22394	.27879	.09230	
#1	2.0746	2.0081	2.0302	2.0701	.51501	1.1495	
#2	2.0631	2.0175	2.0327	2.0767	.51704	1.1510	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

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IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	10974	--	--	--	--	--	--
SDev	59.39697	--	--	--	--	--	--
%RSD	.5412666	--	--	--	--	--	--
#1	10932	--	--	--	--	--	--
#2	11016	--	--	--	--	--	--

Analysis Report

680 1197

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page 1

Method: METTRA

Sample Name: DXRH2D

Run Time: 03/25/01 18:28:54

Operator: WTR

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05266	7.7619	2.0600	1.9277	.04787	76.782	.04584
SDev	.00001	.0148	.0001	.0032	.00018	.091	.00009
%RSD	.02704	.19121	.00365	.16620	.37593	.11881	.20051
#1	.05267	7.7724	2.0601	1.9300	.04799	76.717	.04578
#2	.05265	7.7514	2.0600	1.9255	.04774	76.846	.04591
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.47476	.33783	.27327	4.7276	52.269	.58667	.98211
SDev	.00094	.00111	.00095	.0278	.017	.00069	.00454
%RSD	.19746	.32717	.34623	.58850	.03286	.11834	.46221
#1	.47409	.33705	.27260	4.7473	52.257	.58618	.97890
#2	.47542	.33861	.27394	4.7080	52.281	.58716	.98532
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48063	.49481	.47494	.48156	.48980	.50122	.49941
SDev	.00055	.00482	.00174	.00211	.00412	.00012	.00145
%RSD	.11758	.97542	.36671	.57499	.84139	.02452	.29130
#1	.48023	.49140	.47371	.47960	.48688	.50413	.49839
#2	.48103	.49822	.47617	.48352	.49271	.50430	.50044
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	2.0134	1.9629	1.9797	2.0233	.50361	1.1247	
SDev	.0073	.0114	.0052	.0035	.00062	.0009	
%RSD	.36165	.58050	.26144	.17373	.12326	.07830	
#1	2.0185	1.9549	1.9761	2.0258	.50404	1.1241	
#2	2.0082	1.9710	1.9834	2.0208	.50317	1.1254	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

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IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11098	--	--	--	--	--	--
SDev	5.833631	--	--	--	--	--	--
%RSD	.0525665	--	--	--	--	--	--
#1	11094	--	--	--	--	--	--
#2	11102	--	--	--	--	--	--

Analysis Report

680 1199

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Method: METTRA

Sample Name: DXRKF

Operator: WTR

Run Time: 03/25/01 18:33:21

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00113	4.9026	.07734	.12817	.00098	36.003	.00052
SDev	.00005	.0003	.00159	.00001	.00001	.089	.00008
%RSD	4.6518	.00705	2.0488	.00957	.92154	.24742	15.250
#1	.00109	4.9028	.07622	.12816	.00098	35.940	.00047
#2	.00116	4.9023	.07846	.12818	.00097	36.066	.00058
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00259	.03433	.02260	4.5558	6.0256	.28901	.00795
SDev	.00029	.00005	.00020	.0066	.0108	.00064	.00010
%RSD	11.233	.15355	.89525	.14464	.17896	.22292	1.2700
#1	.00280	.03437	.02274	4.5604	6.0180	.28856	.00803
#2	.00239	.03429	.02246	4.5511	6.0332	.28947	.00788
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01613	.01798	.01532	.01621	.00701	.00693	.00696
SDev	.00116	.00393	.00052	.00096	.00202	.00087	.00125
%RSD	7.2017	21.839	3.3920	5.9321	28.837	12.538	18.008
#1	.01531	.01521	.01569	.01553	.00844	.00755	.00784
#2	.01695	.02076	.01495	.01689	.00558	.00632	.00607
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00082	-.00092	-.00089	.00697	.00946	1.7687
SDev	.00101	.00321	.00181	.00026	.00034	.0025
%RSD	123.67	347.92	203.33	3.7729	3.5949	.14007
#1	-.00153	.00135	.00039	.00716	.00970	1.7669
#2	-.00010	-.00320	-.00217	.00679	.00922	1.7704
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

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IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11253	--	--	--	--	--	--
SDev	7.106976	--	--	--	--	--	--
%RSD	.0631572	--	--	--	--	--	--
#1	11258	--	--	--	--	--	--
#2	11248	--	--	--	--	--	--

Analysis Report

680 1201

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Method: METTRA

Sample Name: CCV3-7

Operator: WTR

Run Time: 03/25/01 18:37:47

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0242	24.179	.52321	1.9546	2.0118	50.880	.50842
SDev	.0001	.040	.00183	.0008	.0015	.138	.00144
%RSD	.00634	.16435	.34992	.04314	.07520	.27196	.28389
#1	1.0241	24.207	.52451	1.9540	2.0128	50.978	.50944
#2	1.0242	24.151	.52192	1.9552	2.0107	50.782	.50740
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	55.000	.55000
Low	.90000	22.500	.45000	1.8000	1.8000	45.000	.45000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0473	2.0218	1.9342	25.008	49.379	2.0015	2.0415
SDev	.0001	.0016	.0010	.073	.101	.0009	.0009
%RSD	.00548	.08068	.05293	.29227	.20417	.04416	.04567
#1	2.0472	2.0229	1.9349	25.059	49.450	2.0021	2.0409
#2	2.0473	2.0206	1.9335	24.956	49.308	2.0008	2.0422
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	27.500	55.000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	22.500	45.000	1.8000	1.8000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0314	.51623	.51253	.51376	.51543	.51185	.51305
SDev	.0085	.00439	.00105	.00076	.00476	.00032	.00180
%RSD	.41699	.85120	.20529	.14821	.92333	.06196	.35013
#1	2.0374	.51933	.51178	.51430	.51880	.51208	.51432
#2	2.0254	.51312	.51327	.51322	.51207	.51163	.51178
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000			.55000			.55000
Low	1.8000			.45000			.45000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.51704	.52782	.52423	1.0555	1.9971	2.0338	
SDev	.00289	.01032	.00785	.0004	.0056	.0043	
%RSD	.55951	1.9558	1.4972	.03400	.28191	.20938	
#1	.51909	.53512	.52978	1.0558	2.0011	2.0368	
#2	.51500	.52052	.51868	1.0553	1.9932	2.0307	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.55000	1.1000	2.2000	2.2000	
Low			.45000	.90000	1.8000	1.8000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11510	--	--	--	--	--	--
SDev	5.267393	--	--	--	--	--	--
%RSD	.0457653	--	--	--	--	--	--
#1	11506	--	--	--	--	--	--
#2	11513	--	--	--	--	--	--

Analysis Report

680 1203

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Method: METTRA Sample Name: CCB7

Run Time: 03/25/01 18:42:13

Operator: WTR

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00047	.05635	.00185	.00019	.00175	-.06614	.00011
SDev	.00003	.00403	.00019	.00010	.00015	.00402	.00005
%RSD	5.3829	7.1589	10.543	49.085	8.8364	6.0851	44.244
#1	.00048	.05920	.00171	.00013	.00186	-.06899	.00014
#2	.00045	.05349	.00198	.00026	.00164	-.06329	.00007
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00037	.00074	-.00193	-.00167	.00656	.00007	.00259
SDev	.00061	.00019	.00016	.01831	.00568	.00003	.00071
%RSD	166.25	26.122	8.2969	1093.5	86.493	48.770	27.251
#1	-.00006	.00060	-.00205	.01127	.00255	.00004	.00309
#2	.00080	.00088	-.00182	-.01462	.01058	.00009	.00209
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00000	-.00212	.00128	.00015	.00455	.00165	.00262
SDev	.00044	.00057	.00291	.00213	.00065	.00195	.00152
%RSD	677590.	26.767	226.16	1407.5	14.412	118.07	58.069
#1	-.00031	-.00172	.00334	.00166	.00408	.00027	.00154
#2	.00031	-.00252	-.00077	-.00135	.00501	.00303	.00369
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	-.00059	-.00104	-.00089	.00110	-.00000	-.01413	
SDev	.00023	.00165	.00102	.00068	.00001	.00000	
%RSD	39.085	159.02	115.20	61.905	1093.5	.00618	
#1	-.00075	.00013	-.00016	.00062	.00000	-.01413	
#2	-.00043	-.00220	-.00161	.00158	-.00000	-.01413	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

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IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11717	--	--	--	--	--	--
SDev	29.73439	--	--	--	--	--	--
%RSD	.2537643	--	--	--	--	--	--
#1	11738	--	--	--	--	--	--
#2	11696	--	--	--	--	--	--

Analysis Report

680 1205

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page 1

Method: METTRA

Sample Name: DXCMEB

Run Time: 03/25/01 18:46:40

Operator: WTR

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00083	.05431	.00120	.00006	.00133	-.06409	-.00004
SDev	.00027	.00382	.00166	.00000	.00016	.00290	.00004
%RSD	31.927	7.0356	137.61	1.1246	11.726	4.5313	94.291
#1	.00102	.05701	.00003	.00006	.00144	-.06615	-.00007
#2	.00065	.05161	.00237	.00006	.00122	-.06204	-.00001
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00025	.00071	-.00148	.02133	.00249	.00019	.00199
SDev	.00024	.00007	.00019	.00475	.00317	.00007	.00020
%RSD	96.963	9.4321	12.958	22.268	127.41	35.251	9.9794
#1	-.00008	.00076	-.00162	.01798	.00473	.00014	.00213
#2	-.00042	.00067	-.00135	.02469	.00025	.00024	.00185
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00024	.00134	.00114	.00121	-.00216	-.00163	-.00181
SDev	.00034	.00164	.00184	.00177	.00048	.00182	.00137
%RSD	140.19	122.26	161.25	146.81	22.123	111.35	75.930
#1	.00000	.00250	.00244	.00246	-.00182	-.00035	-.00084
#2	.00048	.00018	-.00016	-.00005	-.00249	-.00292	-.00278
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	-.00744	.00165	-.00138	.00259	.00048	-.01442	
SDev	.00428	.00392	.00119	.00160	.00068	.00010	
%RSD	57.496	237.68	86.573	61.802	139.74	.72280	
#1	-.00442	-.00112	-.00222	.00372	.00001	-.01434	
#2	-.01047	.00442	-.00053	.00146	.00096	-.01449	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

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IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11466	--	--	--	--	--	--
SDev	54.44722	--	--	--	--	--	--
%RSD	.4748560	--	--	--	--	--	--
#1	11505	--	--	--	--	--	--
#2	11428	--	--	--	--	--	--

Analysis Report

680 1207

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page 1

Method: METTRA Sample Name: DXCMEC

Run Time: 03/25/01 18:51:06

Operator: WTR

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04913	2.0921	2.0689	1.9616	.05138	49.947	.04969
SDev	.00024	.0021	.0051	.0024	.00003	.015	.00022
%RSD	.48363	.09861	.24561	.12090	.05196	.03094	.44068
#1	.04930	2.0936	2.0725	1.9599	.05136	49.936	.04985
#2	.04896	2.0906	2.0653	1.9632	.05140	49.958	.04954
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.06000	2.4000	2.4000	2.4000	.06000	60.000	.06000
Low	.04000	1.6000	1.6000	1.6000	.04000	40.000	.04000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51222	.20468	.24348	.88485	48.539	.50302	.99967
SDev	.00056	.00052	.00018	.02665	.036	.00036	.00367
%RSD	.10883	.25479	.07493	3.0120	.07359	.07216	.36766
#1	.51183	.20505	.24335	.90370	48.564	.50276	.99707
#2	.51262	.20431	.24361	.86601	48.514	.50328	1.0023
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.60000	.24000	.30000	1.2000	60.000	.60000	1.2000
Low	.40000	.16000	.20000	.80000	40.000	.40000	.80000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50235	.51439	.50805	.51016	.48654	.49438	.49177
SDev	.00352	.00195	.00371	.00182	.00156	.00045	.00082
%RSD	.70139	.37885	.72967	.35747	.32007	.09012	.16588
#1	.50484	.51301	.51067	.51145	.48764	.49469	.49234
#2	.49986	.51577	.50543	.50887	.48544	.49406	.49119
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.60000			.60000			.60000
Low	.40000			.40000			.40000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	2.0472	2.0422	2.0438	2.1341	.50201	.50287	
SDev	.0028	.0062	.0050	.0008	.00195	.00094	
%RSD	.13474	.30143	.24582	.03861	.38903	.18773	
#1	2.0452	2.0378	2.0403	2.1335	.50339	.50354	
#2	2.0491	2.0465	2.0474	2.1347	.50063	.50220	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			2.4000	2.4000	.60000	.60000	
Low			1.6000	1.6000	.40000	.40000	

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IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11525	--	--	--	--	--	--
SDev	29.27381	--	--	--	--	--	--
%RSD	.2540060	--	--	--	--	--	--
#1	11504	--	--	--	--	--	--
#2	11546	--	--	--	--	--	--

Analysis Report

680 1209

03/25/01 06:59:55 PM

page 1

Method: METTRA

Sample Name: DXATD

Operator: WTR

Run Time: 03/25/01 18:55:33

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Ave	.00021	.11086	.00428	.11701	.00126	56.672	.00017
SDev	.00015	.00692	.00152	.00029	.00012	.187	.00007
%RSD	72.785	6.2403	35.398	.24620	9.8077	.33005	45.480
#1	.00010	.11575	.00535	.11722	.00135	56.804	.00011
#2	.00032	.10597	.00321	.11681	.00117	56.540	.00022
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Ave	.00042	.00320	.00427	2.4865	22.547	.43671	.00745
SDev	.00091	.00011	.00023	.0149	.091	.00113	.00044
%RSD	214.75	3.4916	5.3743	.60103	.40189	.25779	5.8894
#1	-.00022	.00312	.00444	2.4760	22.611	.43751	.00776
#2	.00107	.00328	.00411	2.4971	22.482	.43591	.00714
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Ave	.00656	.00407	.00240	.00296	.00175	.00288	.00134
SDev	.00043	.00375	.00073	.00076	.00640	.00284	.00403
%RSD	6.6103	92.288	30.291	25.830	365.95	98.631	300.78
#1	.00626	.00141	.00292	.00242	.00278	.00489	.00419
#2	.00687	.00672	.00189	.00350	-.00628	.00087	-.00151
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Ave	-.00618	.00017	-.00195	.00144	.00175	.00129	
SDev	.00300	.00198	.00232	.00367	.00000	.00015	
%RSD	48.536	1161.9	119.21	255.10	.11645	11.854	
#1	-.00830	-.00123	-.00359	.00404	.00175	.00140	
#2	-.00406	.00157	-.00031	-.00116	.00175	.00118	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11447	--	--	--	--	--	--
SDev	32.88047	--	--	--	--	--	--
%RSD	.2872359	--	--	--	--	--	--
#1	11424	--	--	--	--	--	--
#2	11470	--	--	--	--	--	--

Method: METTRA

Sample Name: DXATDP5

Operator: WTR

Run Time: 03/25/01 18:59:59

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00005	.05592	.00112	.02136	.00142	10.324	.00013
SDev	.00030	.00634	.00086	.00026	.00014	.037	.00020
%RSD	652.17	11.340	77.019	1.2308	9.9660	.35973	160.69

#1	.00017	.06040	.00173	.02155	.00153	10.350	.00027
#2	-.00026	.05143	.00051	.02118	.00132	10.298	-.00002

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00007	.00063	-.00104	.45974	4.0745	.08020	.00130
SDev	.00019	.00012	.00016	.00608	.0204	.00019	.00031
%RSD	280.72	18.783	15.695	1.3220	.49969	.24021	23.659

#1	.00020	.00055	-.00115	.46404	4.0889	.08033	.00151
#2	-.00007	.00071	-.00092	.45545	4.0601	.08006	.00108

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00086	.00202	.00260	.00241	-.00132	-.00058	-.00083
SDev	.00144	.00171	.00049	.00089	.00338	.00263	.00063
%RSD	167.25	84.802	18.723	37.193	255.70	451.52	75.924

#1	-.00016	.00081	.00225	.00177	-.00371	.00128	-.00038
#2	.00188	.00323	.00294	.00304	.00107	-.00244	-.00127

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00269	-.00254	-.00259	.00205	.00015	-.01125
SDev	.00120	.00174	.00156	.00128	.00000	.00004
%RSD	44.680	68.243	60.103	62.621	1.3220	.36594

#1	-.00184	-.00132	-.00149	.00295	.00015	-.01128
#2	-.00354	-.00377	-.00369	.00114	.00015	-.01122

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11709	--	--	--	--	--	--
SDev	9.581849	--	--	--	--	--	--
%RSD	.0818327	--	--	--	--	--	--
#1	11702	--	--	--	--	--	--
#2	11716	--	--	--	--	--	--

Method: METTRA Sample Name: DXATDS Operator: WTR
 Run Time: 03/25/01 19:04:26
 Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04937	2.2034	2.0927	2.0967	.05153	104.42	.04972
SDev	.00048	.0057	.0053	.0009	.00006	.12	.00016
%RSD	.98109	.25893	.25300	.04360	.11810	.11406	.32897
#1	.04971	2.2074	2.0890	2.0974	.05157	104.33	.04961
#2	.04902	2.1993	2.0964	2.0961	.05148	104.50	.04984
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51189	.20701	.25366	3.3314	70.925	.92734	.99856
SDev	.00124	.00003	.00052	.0163	.039	.00192	.00460
%RSD	.24297	.01434	.20517	.48826	.05505	.20736	.46015
#1	.51102	.20699	.25329	3.3199	70.953	.92598	.99531
#2	.51277	.20703	.25403	3.3429	70.898	.92870	1.0018
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50877	.51731	.51244	.51406	.48492	.49650	.49264
SDev	.00075	.00378	.00274	.00057	.00126	.00102	.00110
%RSD	.14765	.73066	.53478	.11072	.26074	.20575	.22377
#1	.50930	.51998	.51051	.51366	.48403	.49578	.49186
#2	.50824	.51463	.51438	.51446	.48581	.49722	.49342
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V__	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	2.0624	2.0486	2.0532	2.1475	.50752	.51920	
SDev	.0111	.0033	.0015	.0020	.00018	.00011	
%RSD	.53600	.16136	.07190	.09419	.03575	.02174	
#1	2.0702	2.0463	2.0542	2.1461	.50765	.51912	
#2	2.0546	2.0509	2.0521	2.1489	.50739	.51928	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

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IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11455	--	--	--	--	--	--
SDev	11.84404	--	--	--	--	--	--
%RSD	.1033974	--	--	--	--	--	--
#1	11446	--	--	--	--	--	--
#2	11463	--	--	--	--	--	--

Method: METTRA Sample Name: DXATDD Operator: WTR
 Run Time: 03/25/01 19:08:52
 Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04933	2.2026	2.0816	2.0874	.05116	104.14	.04939
SDev	.00081	.0123	.0021	.0004	.00001	.03	.00000
%RSD	1.6349	.55693	.10186	.01974	.01287	.02419	.00485
#1	.04990	2.2113	2.0801	2.0877	.05116	104.16	.04939
#2	.04876	2.1939	2.0831	2.0871	.05117	104.13	.04938
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50980	.20556	.25222	3.2923	70.641	.92307	.99360
SDev	.00095	.00096	.00024	.0321	.031	.00115	.00224
%RSD	.18587	.46594	.09616	.97373	.04397	.12422	.22555
#1	.50913	.20488	.25239	3.3150	70.663	.92226	.99201
#2	.51047	.20624	.25205	3.2696	70.619	.92388	.99518
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50441	.51669	.50854	.51126	.48685	.49584	.49284
SDev	.00202	.00096	.00266	.00210	.00032	.00129	.00076
%RSD	.40145	.18543	.52348	.40972	.06527	.26042	.15328
#1	.50584	.51737	.51043	.51274	.48663	.49675	.49338
#2	.50298	.51602	.50666	.50978	.48708	.49492	.49231
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	2.0589	2.0591	2.0590	2.1522	.50183	.51827	
SDev	.0051	.0120	.0063	.0029	.00316	.00031	
%RSD	.24638	.58350	.30717	.13484	.62986	.06006	
#1	2.0553	2.0676	2.0635	2.1501	.49959	.51849	
#2	2.0625	2.0506	2.0546	2.1542	.50406	.51805	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11421	--	--	--	--	--	--
SDev	2.934079	--	--	--	--	--	--
%RSD	.0256897	--	--	--	--	--	--
#1	11423	--	--	--	--	--	--
#2	11419	--	--	--	--	--	--

Method: METTRA Sample Name: DXATQ

Operator: WTR

Run Time: 03/25/01 19:13:19

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00050	1.6909	.00904	1.0482	.00101	143.21	-.00142
SDev	.00026	.0076	.00025	.0001	.00010	.15	.00011
%RSD	51.994	.45161	2.7230	.01306	9.7661	.10520	7.9836
#1	.00068	1.6963	.00887	1.0481	.00108	143.11	-.00150
#2	.00032	1.6855	.00922	1.0483	.00094	143.32	-.00134
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00204	.17791	.01359	120.83	65.435	1.2945	.00654
SDev	.00000	.00016	.00020	.24	.018	.0035	.00043
%RSD	.05953	.09218	1.4829	.19928	.02810	.27176	6.5883
#1	.00204	.17802	.01373	120.66	65.422	1.2920	.00623
#2	.00205	.17779	.01344	121.00	65.448	1.2970	.00684
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00612	.01535	.01614	.01588	-.00071	-.00089	-.00083
SDev	.00126	.00178	.00085	.00002	.00224	.00284	.00264
%RSD	20.629	11.565	5.2901	.13691	315.14	319.85	318.50
#1	.00701	.01661	.01554	.01589	-.00229	-.00289	-.00269
#2	.00523	.01410	.01674	.01586	.00087	.00112	.00104
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00039	-.00054	-.00023	.00629	.00752	-.00014	
SDev	.00364	.00046	.00152	.00277	.00005	.00016	
%RSD	932.62	84.999	654.78	44.077	.65921	114.41	
#1	.00296	-.00022	.00084	.00825	.00748	-.00025	
#2	-.00218	-.00087	-.00131	.00433	.00755	-.00003	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

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IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11236	--	--	--	--	--	--
SDev	9.899495	--	--	--	--	--	--
%RSD	.0881048	--	--	--	--	--	--
#1	11243	--	--	--	--	--	--
#2	11229	--	--	--	--	--	--

Method: METTRA Sample Name: DXATX

Operator: WTR

Run Time: 03/25/01 19:17:45

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00028	1.4043	.00470	.44376	.00093	208.98	.00002
SDev	.00031	.0049	.00028	.00039	.00003	.13	.00004
%RSD	112.40	.34816	5.8674	.08758	2.6598	.06443	227.74
#1	.00050	1.4078	.00489	.44348	.00095	208.89	-.00001
#2	.00006	1.4009	.00450	.44403	.00091	209.08	.00005
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00288	.04407	.00142	18.666	85.531	.58348	.00242
SDev	.00078	.00056	.00009	.046	.023	.00102	.00011
%RSD	27.205	1.2796	6.1740	.24479	.02712	.17419	4.3924
#1	.00344	.04447	.00148	18.633	85.547	.58277	.00249
#2	.00233	.04367	.00135	18.698	85.514	.58420	.00234
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00672	.00338	.00427	.00398	-.00060	-.00107	-.00091
SDev	.00069	.00152	.00010	.00057	.00044	.00114	.00061
%RSD	10.349	44.919	2.3143	14.384	73.607	106.73	67.271
#1	.00623	.00446	.00434	.00438	-.00029	-.00187	-.00135
#2	.00721	.00231	.00420	.00357	-.00091	-.00026	-.00048
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00058	.00071	.00028	.00282	.01328	-.00608	
SDev	.00272	.00153	.00192	.00248	.00002	.00001	
%RSD	467.05	214.34	686.29	87.816	.12143	.10618	
#1	.00134	.00179	.00164	.00457	.01327	-.00608	
#2	-.00251	-.00037	-.00108	.00107	.01329	-.00609	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

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IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11194	--	--	--	--	--	--
SDev	2.333314	--	--	--	--	--	--
%RSD	.0208434	--	--	--	--	--	--
#1	11196	--	--	--	--	--	--
#2	11193	--	--	--	--	--	--

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Method: METTRA Sample Name: DXATO

Operator: WTR

Run Time: 03/25/01 19:22:12

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00041	.11022	.00392	.06331	.00114	79.531	.00024
SDev	.00000	.00626	.00170	.00023	.00007	.164	.00012
%RSD	.06593	5.6754	43.389	.37071	5.7929	.20569	49.964
#1	.00041	.11464	.00272	.06347	.00119	79.647	.00016
#2	.00041	.10580	.00512	.06314	.00109	79.416	.00033
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00165	.02614	.00669	1.6664	46.323	.31200	.00639
SDev	.00053	.00014	.00050	.0417	.153	.00015	.00030
%RSD	31.999	.53166	7.4412	2.5015	.33125	.04886	4.6818
#1	.00128	.02623	.00704	1.6369	46.431	.31211	.00618
#2	.00203	.02604	.00634	1.6959	46.214	.31190	.00660
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01726	.00073	-.00002	.00023	.00135	.00141	.00139
SDev	.00050	.00201	.00215	.00210	.00006	.00338	.00224
%RSD	2.8903	274.25	10583.	911.00	4.2068	239.52	160.75
#1	.01762	.00216	.00150	.00172	.00139	-.00098	-.00019
#2	.01691	-.00069	-.00154	-.00126	.00131	.00380	.00297
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00396	-.00030	-.00152	.00335	.00390	-.00125	
SDev	.00558	.00289	.00007	.00299	.00068	.00014	
%RSD	140.78	964.73	4.5013	89.267	17.310	11.154	
#1	-.00002	-.00234	-.00157	.00124	.00438	-.00115	
#2	-.00791	.00174	-.00147	.00547	.00342	-.00135	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11359	--	--	--	--	--	--
SDev	28.10749	--	--	--	--	--	--
%RSD	.2474431	--	--	--	--	--	--
#1	11339	--	--	--	--	--	--
#2	11379	--	--	--	--	--	--

Method: METTRA Sample Name: DXAT1

Operator: WTR

Run Time: 03/25/01 19.26:39

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00077	.21435	.00651	.25063	.00086	114.80	-.00037
SDev	.00038	.00291	.00090	.00012	.00007	.02	.00034
%RSD	49.539	1.3583	13.827	.04797	8.7320	.01522	91.738
#1	.00104	.21641	.00714	.25055	.00091	114.81	-.00013
#2	.00050	.21229	.00587	.25072	.00081	114.79	-.00061
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00633	.02468	.01138	31.543	72.764	1.6729	.01165
SDev	.00017	.00013	.00016	.034	.098	.0013	.00146
%RSD	2.7347	.54099	1.3771	.10774	.13483	.07565	12.499
#1	.00646	.02459	.01127	31.519	72.833	1.6721	.01268
#2	.00621	.02478	.01149	31.567	72.694	1.6738	.01062
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02878	.00208	.00075	.00119	.00084	-.00049	-.00005
SDev	.00128	.00308	.00259	.00070	.00293	.00136	.00189
%RSD	4.4353	148.47	344.34	58.517	348.81	276.22	3819.3
#1	.02968	.00426	-.00108	.00070	.00291	.00047	.00128
#2	.02787	-.00010	.00258	.00169	-.00123	-.00146	-.00138
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00053	-.00458	-.00323	.00413	.00983	.04585	
SDev	.00277	.00230	.00246	.00428	.00034	.00030	
%RSD	522.98	50.152	75.984	103.67	3.4433	.65315	
#1	-.00249	-.00621	-.00497	.00716	.01007	.04606	
#2	.00143	-.00296	-.00150	.00110	.00959	.04564	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11082	--	--	--	--	--	--
SDev	48.50725	--	--	--	--	--	--
%RSD	.4377239	--	--	--	--	--	--
#1	11116	--	--	--	--	--	--
#2	11047	--	--	--	--	--	--

Method: METTRA

Sample Name: CCV3-8

Operator: WTR

Run Time: 03/25/01 19:31:05

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0257	24.197	.52396	1.9606	2.0130	50.816	.50768
SDev	.0007	.015	.00022	.0025	.0007	.008	.00022
%RSD	.06429	.06248	.04122	.12809	.03388	.01616	.04286
#1	1.0252	24.186	.52381	1.9588	2.0125	50.821	.50784
#2	1.0261	24.208	.52412	1.9624	2.0135	50.810	.50753
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	55.000	.55000
Low	.90000	22.500	.45000	1.8000	1.8000	45.000	.45000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0488	2.0224	1.9339	24.951	49.171	1.9989	2.0420
SDev	.0036	.0000	.0014	.020	.035	.0018	.0049
%RSD	.17367	.00127	.07302	.08010	.07173	.09197	.24158
#1	2.0463	2.0225	1.9329	24.937	49.196	1.9976	2.0385
#2	2.0513	2.0224	1.9349	24.965	49.146	2.0002	2.0455
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	27.500	55.000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	22.500	45.000	1.8000	1.8000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0309	.51823	.51084	.51330	.51467	.51224	.51305
SDev	.0098	.00048	.00186	.00108	.00164	.00238	.00104
%RSD	.48438	.09249	.36411	.21060	.31914	.46480	.20292
#1	2.0379	.51789	.51216	.51407	.51583	.51056	.51231
#2	2.0240	.51856	.50953	.51254	.51351	.51392	.51379
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000			.55000			.55000
Low	1.8000			.45000			.45000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.52104	.52337	.52260	1.0515	1.9901	2.0351	
SDev	.00063	.00262	.00154	.0058	.0045	.0030	
%RSD	.11988	.49997	.29417	.55586	.22791	.14698	
#1	.52060	.52522	.52368	1.0474	1.9933	2.0372	
#2	.52148	.52152	.52151	1.0556	1.9868	2.0330	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.55000	1.1000	2.2000	2.2000	
Low			.45000	.90000	1.8000	1.8000	

680 1226

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11383	--	--	--	--	--	--
SDev	10.50026	--	--	--	--	--	--
%RSD	.0922481	--	--	--	--	--	--
#1	11375	--	--	--	--	--	--
#2	11390	--	--	--	--	--	--

Method: METTRA Sample Name: CCB8

Operator: WTR

Run Time: 03/25/01 19:35:32

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00046	.04319	.00148	.00033	.00167	-.06129	.00016
SDev	.00034	.00006	.00069	.00012	.00015	.00536	.00004
%RSD	74.165	.14322	46.669	34.890	9.1705	8.7463	25.577
#1	.00070	.04323	.00197	.00025	.00178	-.06508	.00013
#2	.00022	.04315	.00099	.00041	.00157	-.05750	.00019
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00007	.00024	-.00148	.00968	.00584	.00025	.00304
SDev	.00038	.00029	.00047	.00912	.00467	.00003	.00112
%RSD	545.04	120.30	31.602	94.176	79.915	13.392	36.796
#1	.00020	.00044	-.00181	.01613	.00254	.00023	.00383
#2	-.00034	.00004	-.00115	.00323	.00914	.00027	.00225
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00102	-.00085	.00026	-.00011	-.00086	.00022	-.00014
SDev	.00056	.00049	.00041	.00011	.00281	.00044	.00123
%RSD	54.627	58.288	155.62	102.27	327.36	201.78	881.54
#1	.00063	-.00050	-.00003	-.00018	-.00284	-.00009	-.00101
#2	.00142	-.00119	.00055	-.00003	.00113	.00053	.00073
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00130	.00063	-.00001	.00352	.00024	-.01417	
SDev	.00213	.00031	.00092	.00371	.00033	.00005	
%RSD	163.12	49.110	7146.7	105.17	138.35	.34916	
#1	-.00281	.00041	-.00066	.00614	.00001	-.01421	
#2	.00020	.00085	.00063	.00090	.00047	-.01414	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11663	--	--	--	--	--	--
SDev	29.66327	--	--	--	--	--	--
%RSD	.2543414	--	--	--	--	--	--
#1	11684	--	--	--	--	--	--
#2	11642	--	--	--	--	--	--

Method: METTRA Sample Name: DXAT4

Operator: WTR

Run Time: 03/25/01 19:39:59

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00108	.27094	.00523	.10688	.00091	106.34	-.00015
SDev	.00069	.00489	.00142	.00029	.00000	.16	.00012
%RSD	63.912	1.8061	27.221	.26964	.48180	.14996	81.445

#1	.00157	.27440	.00422	.10709	.00090	106.22	-.00023
#2	.00059	.26748	.00624	.10668	.00091	106.45	-.00006

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00552	.46286	.00488	34.130	35.459	.91931	.01992
SDev	.00040	.00170	.00006	.062	.013	.00197	.00078
%RSD	7.2381	.36718	1.2936	.18072	.03782	.21451	3.8956

#1	.00523	.46166	.00493	34.086	35.450	.91792	.01937
#2	.00580	.46406	.00484	34.173	35.469	.92071	.02046

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01769	.00395	.00153	.00234	-.00067	-.00013	-.00031
SDev	.00067	.00316	.00245	.00058	.00396	.00153	.00030
%RSD	3.7777	80.027	159.88	24.761	594.43	1168.9	96.925

#1	.01816	.00619	-.00020	.00193	-.00347	.00095	-.00052
#2	.01722	.00172	.00326	.00275	.00214	-.00121	-.00010

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00238	-.00294	-.00275	-.00212	.00481	.02488
SDev	.00272	.00419	.00189	.00230	.00033	.00001
%RSD	114.32	142.67	68.686	108.65	6.9483	.02818

#1	-.00046	-.00591	-.00409	-.00375	.00505	.02488
#2	-.00430	.00003	-.00142	-.00049	.00457	.02489

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

680 1230

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11192	--	--	--	--	--	--
SDev	16.33458	--	--	--	--	--	--
%RSD	.1459546	--	--	--	--	--	--
#1	11203	--	--	--	--	--	--
#2	11180	--	--	--	--	--	--

Method: METTRA Sample Name: DXAT7

Operator: WTR

Run Time: 03/25/01 19:44:25

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00064	.07713	.00075	.50994	.00103	201.29	-.00018
SDev	.00043	.00314	.00213	.00157	.00017	1.33	.00019
%RSD	67.038	4.0737	282.17	.30764	16.415	.65982	107.91

#1	.00034	.07935	.00226	.50883	.00114	200.35	-.00004
#2	.00094	.07491	-.00075	.51105	.00091	202.23	-.00032

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00037	.00414	-.00034	17.512	37.555	.78512	.00173
SDev	.00020	.00052	.00045	.070	.160	.00441	.00022
%RSD	54.334	12.653	130.15	.39807	.42724	.56181	12.930

#1	-.00023	.00377	-.00066	17.463	37.441	.78200	.00157
#2	-.00051	.00451	-.00003	17.562	37.668	.78824	.00188

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00326	.00214	-.00189	-.00055	-.00111	-.00068	-.00082
SDev	.00025	.00184	.00189	.00065	.00041	.00180	.00106
%RSD	7.7132	86.070	99.929	117.94	37.077	264.07	129.11

#1	.00308	.00344	-.00323	-.00101	-.00140	.00059	-.00007
#2	.00343	.00084	-.00055	-.00009	-.00082	-.00195	-.00158

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00644	.00186	-.00090	-.00263	.00390	-.00866
SDev	.00248	.00668	.00363	.00157	.00170	.00004
%RSD	38.503	358.37	402.77	59.570	43.661	.46456

#1	-.00469	-.00286	-.00347	-.00152	.00510	-.00868
#2	-.00819	.00659	.00166	-.00374	.00269	-.00863

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11271	--	--	--	--	--	--
SDev	70.85155	--	--	--	--	--	--
%RSD	.6285930	--	--	--	--	--	--
#1	11322	--	--	--	--	--	--
#2	11221	--	--	--	--	--	--

Method: METTRA

Sample Name: DXAT9

Operator: WTR

Run Time: 03/25/01 19:48:52

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00076	.07449	.00246	.53146	.00098	209.48	-.00026
SDev	.00068	.01060	.00282	.00408	.00001	1.52	.00033
%RSD	89.203	14.227	114.53	.76711	.75093	.72613	128.63
#1	.00124	.08198	.00047	.53434	.00098	210.55	-.00049
#2	.00028	.06700	.00445	.52857	.00097	208.40	-.00002
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00023	.00436	.00191	18.456	39.040	.82078	.00166
SDev	.00039	.00005	.00004	.110	.364	.00543	.00033
%RSD	164.88	1.1050	2.1983	.59416	.93297	.66150	19.815
#1	.00004	.00432	.00194	18.534	39.297	.82462	.00189
#2	-.00051	.00439	.00188	18.378	38.782	.81694	.00142
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00384	.00422	.00030	.00161	-.00003	-.00270	-.00181
SDev	.00056	.00007	.00339	.00224	.00418	.00088	.00081
%RSD	14.451	1.5949	1117.8	139.07	14225.	32.527	44.668
#1	.00345	.00427	-.00209	.00003	-.00299	-.00208	-.00238
#2	.00423	.00418	.00270	.00319	.00293	-.00332	-.00124
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00602	-.00013	-.00209	-.00095	.00444	-.00797	
SDev	.00362	.00163	.00229	.00231	.00003	.00001	
%RSD	60.076	1294.1	109.59	242.50	.60913	.18400	
#1	-.00347	.00102	-.00047	.00068	.00446	-.00798	
#2	-.00858	-.00128	-.00371	-.00258	.00442	-.00796	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

680 1234

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11233	--	--	--	--	--	--
SDev	61.62394	--	--	--	--	--	--
%RSD	.5486010	--	--	--	--	--	--
#1	11189	--	--	--	--	--	--
#2	11276	--	--	--	--	--	--

Method: METTRA Sample Name: DXA2N

Operator: WTR

Run Time: 03/25/01 19:53:18

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00045	.04757	.00047	.00029	.00119	.13556	.00020
SDev	.00013	.00137	.00302	.00006	.00025	.01993	.00022
%RSD	28.959	2.8824	647.60	21.076	20.833	14.699	112.11
#1	.00054	.04854	.00261	.00024	.00137	.12147	.00004
#2	.00035	.04660	-.00167	.00033	.00102	.14965	.00035
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00023	.00113	-.00107	.03901	.05969	.00089	.00201
SDev	.00000	.00034	.00033	.00337	.00132	.00014	.00001
%RSD	1.8051	29.955	30.548	8.6474	2.2057	15.332	.47499
#1	-.00022	.00136	-.00130	.04139	.05876	.00079	.00200
#2	-.00023	.00089	-.00084	.03662	.06062	.00099	.00202
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00008	.00337	.00008	.00118	.00075	.00131	.00113
SDev	.00034	.00078	.00017	.00014	.00253	.00036	.00108
%RSD	405.81	23.073	211.35	12.252	337.39	27.344	96.176
#1	.00033	.00392	-.00004	.00128	-.00104	.00106	.00036
#2	-.00016	.00282	.00020	.00108	.00254	.00157	.00189
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00827	.00195	-.00145	.00030	.00097	-.01387	
SDev	.00034	.00289	.00181	.00308	.00000	.00005	
%RSD	4.1677	147.79	124.67	1025.8	.34197	.33742	
#1	-.00803	-.00009	-.00273	-.00188	.00097	-.01384	
#2	-.00852	.00399	-.00017	.00248	.00098	-.01390	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

680 1236

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11352	--	--	--	--	--	--
SDev	52.04347	--	--	--	--	--	--
%RSD	.4584682	--	--	--	--	--	--
#1	11388	--	--	--	--	--	--
#2	11315	--	--	--	--	--	--

Method: METTRA

Sample Name: DXE28B

Operator: WTR

Run Time: 03/25/01 19:57:45

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00042	.04389	.00153	.00007	.00110	-.05766	.00016
SDev	.00045	.00848	.00211	.00014	.00012	.00267	.00017
%RSD	108.10	19.320	137.74	209.19	11.147	4.6288	107.51
#1	.00074	.04989	.00302	-.00003	.00119	-.05954	.00004
#2	.00010	.03790	.00004	.00016	.00102	-.05577	.00028
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00050	.00087	-.00137	.00570	.00095	.00020	.00157
SDev	.00010	.00003	.00022	.01063	.00000	.00006	.00085
%RSD	19.181	2.8189	15.999	186.68	.15341	32.953	53.832
#1	-.00044	.00085	-.00153	-.00182	.00095	.00015	.00217
#2	-.00057	.00089	-.00122	.01321	.00096	.00024	.00097
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00041	.00309	-.00028	.00085	.00092	-.00090	-.00030
SDev	.00057	.00070	.00066	.00067	.00394	.00187	.00256
%RSD	139.85	22.520	239.76	79.634	430.33	207.21	860.84
#1	.00082	.00359	.00019	.00132	-.00187	-.00223	-.00211
#2	.00000	.00260	-.00074	.00037	.00371	.00042	.00151
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00510	.00234	-.00014	-.00250	.00073	-.01463	
SDev	.00029	.00402	.00278	.00353	.00103	.00010	
%RSD	5.6563	171.96	2026.7	141.09	141.53	.69819	
#1	-.00490	.00519	.00183	-.00001	-.00000	-.01456	
#2	-.00530	-.00051	-.00210	-.00499	.00145	-.01471	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11308	--	--	--	--	--	--
SDev	4.384200	--	--	--	--	--	--
%RSD	.0387703	--	--	--	--	--	--
#1	11305	--	--	--	--	--	--
#2	11311	--	--	--	--	--	--

Method: METTRA Sample Name: DXE28C

Operator: WTR

Run Time: 03/25/01 20:02:12

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04939	1.9803	1.9692	1.8835	.04874	49.371	.04745
SDev	.00037	.0060	.0050	.0052	.00003	.025	.00021
%RSD	.75167	.30432	.25497	.27489	.05358	.05044	.44972
#1	.04913	1.9845	1.9727	1.8872	.04872	49.353	.04761
#2	.04965	1.9760	1.9656	1.8799	.04876	49.388	.04730
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.06000	2.4000	2.4000	2.4000	.06000	60.000	.06000
Low	.04000	1.6000	1.6000	1.6000	.04000	40.000	.04000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49145	.19588	.23297	.88465	47.802	.48075	.99386
SDev	.00087	.00024	.00050	.01141	.066	.00028	.00197
%RSD	.17776	.12527	.21447	1.2899	.13847	.05713	.19804
#1	.49084	.19571	.23332	.89272	47.849	.48056	.99247
#2	.49207	.19605	.23262	.87658	47.755	.48095	.99526
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.60000	.24000	.30000	1.2000	60.000	.60000	1.2000
Low	.40000	.16000	.20000	.80000	40.000	.40000	.80000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48403	.49080	.48341	.48588	.48197	.48996	.48730
SDev	.00283	.00572	.00278	.00005	.00075	.00022	.00040
%RSD	.58441	1.1656	.57532	.01030	.15619	.04453	.08130
#1	.48603	.49485	.48145	.48591	.48251	.49012	.48758
#2	.48203	.48676	.48533	.48584	.48144	.48981	.48702
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.60000			.60000			.60000
Low	.40000			.40000			.40000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	1.9314	1.9260	1.9278	2.0232	.47970	.48059	
SDev	.0097	.0002	.0034	.0089	.00214	.00097	
%RSD	.50210	.01174	.17533	.43887	.44540	.20220	
#1	1.9246	1.9258	1.9254	2.0169	.48121	.48128	
#2	1.9383	1.9261	1.9302	2.0295	.47819	.47990	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			2.4000	2.4000	.60000	.60000	
Low			1.6000	1.6000	.40000	.40000	

680 1240

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11383	--	--	--	--	--	--
SDev	5.727979	--	--	--	--	--	--
%RSD	.0503189	--	--	--	--	--	--
#1	11387	--	--	--	--	--	--
#2	11379	--	--	--	--	--	--

Method: METTRA Sample Name: DXCV0 Operator: WTR
 Run Time: 03/25/01 20:06:39
 Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00038	.28803	.00491	.04899	.00064	315.33	.00048
SDev	.00012	.01004	.00112	.00002	.00012	.02	.00013
%RSD	31.760	3.4857	22.900	.03412	18.143	.00692	26.735
#1	.00029	.29513	.00412	.04898	.00072	315.31	.00057
#2	.00046	.28094	.00571	.04900	.00056	315.34	.00039
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00881	3.2618	.01759	1.8572	182.58	.52355	.03169
SDev	.00169	.0009	.00026	.0054	.52	.00026	.00081
%RSD	19.153	.02813	1.4879	.29260	.28234	.04989	2.5533
#1	.01001	3.2611	.01777	1.8533	182.95	.52337	.03226
#2	.00762	3.2624	.01740	1.8610	182.22	.52374	.03112
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04302	.00150	.00125	.00134	.00636	.00409	.00485
SDev	.00127	.00047	.00055	.00021	.00377	.00360	.00115
%RSD	2.9472	31.637	44.127	15.770	59.167	88.045	23.663
#1	.04213	.00184	.00086	.00119	.00903	.00154	.00403
#2	.04392	.00117	.00165	.00149	.00370	.00663	.00566
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00177	.00329	.00279	.00071	.00982	.07790	
SDev	.00181	.00094	.00123	.00132	.00033	.00009	
%RSD	102.13	28.505	44.089	184.67	3.3870	.11508	
#1	.00305	.00396	.00366	-.00022	.01005	.07797	
#2	.00049	.00263	.00192	.00164	.00958	.07784	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

680 1242

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	10948	--	--	--	--	--	--
SDev	21.74353	--	--	--	--	--	--
%RSD	.1986069	--	--	--	--	--	--
#1	10963	--	--	--	--	--	--
#2	10933	--	--	--	--	--	--

Method: METTRA Sample Name: DXCV0P5 Operator: WTR
 Run Time: 03/25/01 20:11:05
 Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00013	.08966	.00143	.00993	.00116	65.570	-.00002
SDev	.00014	.00674	.00067	.00015	.00010	.310	.00020
%RSD	104.78	7.5184	46.439	1.4651	8.2883	.47300	993.27

#1	-.00023	.09443	.00190	.00982	.00123	65.789	.00012
#2	-.00003	.08490	.00096	.01003	.00109	65.350	-.00017

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00204	.66647	.00215	.29560	36.688	.10614	.00724
SDev	.00015	.00265	.00009	.00487	.245	.00032	.00043
%RSD	7.1655	.39832	4.1139	1.6473	.66682	.29872	5.9832

#1	.00214	.66835	.00209	.29216	36.861	.10636	.00754
#2	.00194	.66459	.00222	.29904	36.515	.10591	.00693

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00873	-.00143	.00005	-.00044	.00325	.00043	.00137
SDev	.00042	.00083	.00174	.00089	.00158	.00003	.00054
%RSD	4.8679	57.857	3383.6	200.05	48.539	6.6816	39.765

#1	.00843	-.00202	.00128	.00018	.00437	.00045	.00175
#2	.00903	-.00085	-.00118	-.00107	.00213	.00041	.00098

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00449	-.00156	.00046	.00313	.00269	.00530
SDev	.00389	.00171	.00135	.00037	.00100	.00011
%RSD	86.557	302.19	404.73	11.610	37.035	2.0093

#1	.00174	.00177	.00176	.00344	.00199	.00532
#2	.00724	-.00489	-.00085	.00292	.00340	.00523

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11549	--	--	--	--	--	--
SDev	30 90070	--	--	--	--	--	--
%RSD	.2675548	--	--	--	--	--	--
#1	11527	--	--	--	--	--	--
#2	11571	--	--	--	--	--	--

Method: METTRA Sample Name: DXCV0S

Operator: WTR

Run Time: 03/25/01 20:15:32

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05160	2.4635	2.0128	1.9005	.04712	356.76	.04461
SDev	.00000	.0087	.0025	.0053	.00016	.08	.00039
%RSD	.00646	.35404	.12532	.27774	.33205	.02259	.88022
#1	.05160	2.4696	2.0146	1.9042	.04723	356.70	.04434
#2	.05160	2.4573	2.0110	1.8967	.04701	356.81	.04489
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.48330	3.3956	.26472	2.8463	228.85	.99357	.99679
SDev	.00029	.0012	.00075	.0077	.62	.00041	.00319
%RSD	.06038	.03674	.28197	.27061	.26943	.04122	.31981
#1	.48310	3.3947	.26525	2.8518	229.29	.99328	.99454
#2	.48351	3.3964	.26419	2.8409	228.42	.99385	.99905
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50638	.47830	.46586	.47000	.48813	.49801	.49472
SDev	.00327	.00014	.00357	.00233	.00010	.00104	.00067
%RSD	.64573	.02941	.76592	.49640	.01941	.20976	.13446
#1	.50869	.47821	.46838	.47165	.48806	.49875	.49519
#2	.50407	.47840	.46333	.46835	.48820	.49700	.49425
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	2.0179	1.9965	2.0036	2.0129	.49168	.57767	
SDev	.0051	.0021	.0031	.0120	.00603	.00110	
%RSD	.25223	.10682	.15558	.61174	1.2329	.19591	
#1	2.0215	1.9980	2.0058	2.0226	.49597	.57847	
#2	2.0143	1.9949	2.0014	2.0052	.48739	.57687	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	10948	--	--	--	--	--	--
SDev	9.298039	--	--	--	--	--	--
%RSD	.0849316	--	--	--	--	--	--
#1	10941	--	--	--	--	--	--
#2	10954	--	--	--	--	--	--

Method: METTRA Sample Name: DXCV0D

Operator: WTR

Run Time: 03/25/01 20:19:59

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05227	2.4922	2.0457	1.9272	.04794	358.42	.04521
SDev	.00046	.0025	.0019	.0028	.00019	.14	.00039
%RSD	.88494	.10191	.09063	.14570	.38830	.03826	.87070
#1	.05195	2.4940	2.0443	1.9292	.04807	358.32	.04494
#2	.05260	2.4904	2.0470	1.9252	.04781	358.52	.04549
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49039	3.3984	.26735	2.8585	229.69	1.0012	1.0129
SDev	.00018	.0019	.00014	.0156	.62	.0005	.0010
%RSD	.03733	.05581	.05061	.54476	.27075	.05371	.09489
#1	.49026	3.3970	.26726	2.8475	230.13	1.0008	1.0122
#2	.49052	3.3997	.26745	2.8695	229.25	1.0016	1.0135
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51592	.48530	.47178	.47628	.49751	.50607	.50322
SDev	.00065	.00049	.00050	.00049	.00096	.00115	.00109
%RSD	.12586	.09993	.10559	.10367	.19367	.22675	.21586
#1	.51638	.48564	.47213	.47663	.49819	.50688	.50399
#2	.51546	.48495	.47143	.47593	.49683	.50523	.50245
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	2.0524	2.0233	2.0312	2.0101	.49901	.58111	
SDev	.0011	.0021	.0022	.0021	.00233	.00063	
%RSD	.05989	.10438	.08942	.16906	.45664	.11795	
#1	2.0533	2.0254	2.0346	2.0428	.50095	.58162	
#2	2.0516	2.0224	2.0321	2.0380	.49772	.58065	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

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IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	10955	--	--	--	--	--	--
SDev	3.747528	--	--	--	--	--	--
%RSD	.0342090	--	--	--	--	--	--
#1	10952	--	--	--	--	--	--
#2	10957	--	--	--	--	--	--

Method: METTRA Sample Name: CCV3-9 Operator: WTR
 Run Time: 03/25/01 20:24:26
 Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0324	24.316	.52415	1.9719	2.0336	51.259	.51288
SDev	.0021	.019	.00392	.0036	.0041	.026	.00247
%RSD	.20686	.07942	.74712	.18371	.20310	.05044	.48104

#1	1.0339	24.330	.52692	1.9744	2.0365	51.277	.51463
#2	1.0309	24.303	.52138	1.9693	2.0307	51.240	.51114

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	55.000	.55000
Low	.90000	22.500	.45000	1.8000	1.8000	45.000	.45000

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.0713	2.0431	1.9425	25.224	49.432	2.0176	2.0591
SDev	.0024	.0031	.0043	.045	.143	.0021	.0037
%RSD	.11431	.15283	.22142	.17853	.28918	.10413	.17927

#1	2.0730	2.0453	1.9455	25.256	49.533	2.0190	2.0564
#2	2.0696	2.0409	1.9394	25.192	49.331	2.0161	2.0617

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	27.500	55.000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	22.500	45.000	1.8000	1.8000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.0448	.52391	.51598	.51862	.51768	.51928	.51875
SDev	.0133	.00701	.00075	.00283	.00327	.00636	.00533
%RSD	.65252	1.3373	.14593	.54670	.63078	1.2253	1.0277

#1	2.0543	.52887	.51651	.52063	.51999	.52378	.52252
#2	2.0354	.51896	.51545	.51662	.51537	.51478	.51498

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000			.55000			.55000
Low	1.8000			.45000			.45000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.52152	.52045	.52611	1.0500	2.0041	2.0511
SDev	.00307	.0031	.00317		.0031	
%RSD	.74300	.58905	.64020	.20701	.33545	.20100

#1	.52426	.53065	.52852	1.0613	2.0096	2.0545
#2	.51878	.52625	.52376	1.0582	2.0001	2.0462

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			.55000	1.1000	2.2000	2.2000
Low			.45000	.90000	1.8000	1.8000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11367	--	--	--	--	--	--
SDev	8.202163	--	--	--	--	--	--
%RSD	.0721577	--	--	--	--	--	--
#1	11373	--	--	--	--	--	--
#2	11361	--	--	--	--	--	--

Method: METTRA Sample Name: CCB9

Operator: WTR

Run Time: 03/25/01 20:28:53

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00043	.03783	.00136	.00029	.00164	-.04454	.00000
SDev	.00068	.00596	.00065	.00023	.00013	.01581	.00003
%RSD	157.39	15.746	48.067	78.921	7.6358	35.493	1124.6
#1	-.00005	.04204	.00182	.00013	.00173	-.05571	-.00002
#2	.00091	.03362	.00090	.00045	.00155	-.03336	.00003
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00013	.00056	-.00158	.01944	.01796	.00043	.00326
SDev	.00038	.00055	.00019	.00000	.01144	.00010	.00061
%RSD	289.41	98.473	12.350	.01295	63.719	22.509	18.690
#1	-.00014	.00017	-.00171	.01944	.00987	.00036	.00369
#2	.00040	.00095	-.00144	.01944	.02605	.00050	.00283
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00047	-.00203	.00090	-.00007	.00110	-.00074	-.00013
SDev	.00045	.00111	.00093	.00025	.00114	.00264	.00138
%RSD	94.399	54.761	102.72	345.95	103.28	356.41	1089.0
#1	.00016	-.00282	.00156	.00010	.00191	-.00261	-.00111
#2	.00079	-.00124	.00025	-.00025	.00030	.00113	.00085
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00216	-.00216	-.00202	.00012	.00001	-.01388	
SDev	.00061	.00061	.00061	.00039	.00000	.00015	
%RSD	28.043	12.511	2.971	31.650	0.1295	1.0000	
#1	-.00259	-.00314	-.00296	.00740	.00001	-.01399	
#2	-.00173	-.00376	-.00309	.00543	.00001	-.01378	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

680 1252

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11641	--	--	--	--	--	--
SDev	19.19753	--	--	--	--	--	--
%RSD	.1649170	--	--	--	--	--	--
#1	11654	--	--	--	--	--	--
#2	11627	--	--	--	--	--	--

Method: METTRA Sample Name: DXCWA

Operator: WTR

Run Time: 03/25/01 20:33:20

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00079	.45846	.01704	.19834	.00076	273.91	-.00047
SDev	.00003	.00932	.00025	.00056	.00016	.18	.00021
%RSD	3.5319	2.0320	1.4928	.28283	21.593	.06600	45.154

#1	.00081	.46504	.01722	.19874	.00087	274.04	-.00032
#2	.00077	.45187	.01686	.19794	.00064	273.78	-.00062

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00259	.04003	.00327	50.002	372.36	2.1661	.01721
SDev	.00047	.00052	.00003	.055	1.27	.0028	.00104
%RSD	18.006	1.2954	1.0775	.11056	.34131	.13099	6.0414

#1	.00292	.03967	.00330	50.041	373.26	2.1681	.01795
#2	.00226	.04040	.00325	49.963	371.46	2.1641	.01648

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00986	.00299	.00242	.00261	-.00312	-.00055	-.00141
SDev	.00083	.00067	.00348	.00210	.00469	.00161	.00049
%RSD	8.3845	22.449	144.00	80.447	150.25	292.74	34.545

#1	.00928	.00251	.00488	.00409	-.00644	.00059	-.00175
#2	.01045	.00346	-.00004	.00112	.00020	-.00169	-.00106

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00131	-.00358	-.00282	-.00029	.01215	-.00269
SDev	.00210	.00269	.00250	.00782	.00035	.00009
%RSD	161.03	75.333	88.539	2729.6	2.8896	3.2983

#1	-.00279	-.00548	-.00459	-.00582	.01190	-.00262
#2	.00018	-.00167	-.00105	.00524	.01240	-.00275

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	10696	--	--	--	--	--	--
SDev	21.88509	--	--	--	--	--	--
%RSD	.2046153	--	--	--	--	--	--
#1	10680	--	--	--	--	--	--
#2	10711	--	--	--	--	--	--

Method: METTRA Sample Name: DXCWC

Operator: WTR

Run Time: 03/25/01 20:37:46

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00062	.03999	.00042	.00010	.00124	-.03966	.00022
SDev	.00006	.00129	.00107	.00001	.00005	.00005	.00004
%RSD	10.306	3.2327	253.45	10.018	4.0993	.12874	17.905
#1	.00066	.04090	.00118	.00009	.00128	-.03970	.00025
#2	.00057	.03907	-.00033	.00010	.00121	-.03963	.00019
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00052	.00068	-.00126	.01313	.02002	.00017	.00221
SDev	.00062	.00007	.00001	.00228	.00263	.00003	.00031
%RSD	119.36	10.638	.67003	17.324	13.118	19.456	14.066
#1	-.00008	.00073	-.00126	.01474	.02187	.00015	.00243
#2	-.00096	.00063	-.00125	.01152	.01816	.00019	.00199
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00016	.00303	.00086	.00158	-.00032	.00003	-.00009
SDev	.00000	.00023	.00018	.00004	.00093	.00317	.00181
%RSD	.24246	7.7517	20.878	2.6277	286.40	9489.3	2105.4
#1	-.00016	.00320	.00073	.00155	.00033	-.00221	-.00136
#2	-.00016	.00287	.00099	.00161	-.00096	.00228	.00119
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00698	.00264	-.00057	-.00075	.00000	-.01380	
SDev	.00061	.00107	.00051	.00216	.00000	.00005	
%RSD	8.6969	40.614	90.232	286.14	17.324	.36576	
#1	-.00741	.00339	-.00021	-.00228	.00000	-.01376	
#2	-.00655	.00188	-.00093	.00077	.00000	-.01383	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

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IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11461	--	--	--	--	--	--
SDev	7.601398	--	--	--	--	--	--
%RSD	.0663233	--	--	--	--	--	--
#1	11466	--	--	--	--	--	--
#2	11456	--	--	--	--	--	--

Method: METTRA Sample Name: DXCWL

Operator: WTR

Run Time: 03/25/01 20:42:13

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00047	1.1529	.00565	.22329	.00117	275.44	-.00011
SDev	.00006	.0057	.00014	.00013	.00007	.13	.00003
%RSD	13.681	.49154	2.5139	.05796	5.7323	.04636	31.525
#1	.00043	1.1569	.00555	.22338	.00121	275.34	-.00008
#2	.00052	1.1489	.00575	.22320	.00112	275.53	-.00013
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00217	.01754	.02817	11.899	44.160	1.1793	.00284
SDev	.00010	.00001	.00018	.001	.084	.0001	.00032
%RSD	4.6104	.06882	.64655	.01200	.18974	.01201	11.367
#1	.00224	.01755	.02804	11.898	44.220	1.1794	.00307
#2	.00210	.01753	.02830	11.900	44.101	1.1792	.00261
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01062	.03224	.03199	.03207	-.00040	-.00267	-.00191
SDev	.00014	.00211	.00036	.00095	.00057	.00050	.00052
%RSD	1.2892	6.5510	1.1410	2.9520	140.56	18.611	27.168
#1	.01072	.03374	.03225	.03274	-.00000	-.00232	-.00155
#2	.01052	.03075	.03173	.03140	-.00080	-.00302	-.00228
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00143	-.00084	-.00104	.00157	.01105	.10085	
SDev	.00007	.00150	.00098	.00179	.00002	.00024	
%RSD	4.8023	178.65	94.476	113.46	.13141	.23884	
#1	-.00138	-.00191	-.00173	.00031	.01106	.10102	
#2	-.00148	.00022	-.00034	.00284	.01104	.10068	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11306	--	--	--	--	--	--
SDev	23.37043	--	--	--	--	--	--
%RSD	.2067023	--	--	--	--	--	--
#1	11290	--	--	--	--	--	--
#2	11323	--	--	--	--	--	--

Method: METTRA Sample Name: DXCWM

Operator: WTR

Run Time: 03/25/01 20:46:40

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00059	.09298	.00578	.90242	.00081	119.78	-.00019
SDev	.00053	.00877	.00305	.00415	.00004	.37	.00001
%RSD	89.503	9.4337	52.789	.45936	5.1815	.31281	5.6206

#1	.00022	.09918	.00793	.90535	.00084	119.52	-.00020
#2	.00097	.08677	.00362	.89949	.00078	120.05	-.00019

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00214	.00722	.00238	20.684	51.468	.38293	.00192
SDev	.00000	.00007	.00013	.018	.041	.00013	.00044
%RSD	.05042	.98323	5.3211	.08564	.07938	.03265	22.650

#1	.00215	.00717	.00229	20.672	51.497	.38284	.00223
#2	.00214	.00727	.00247	20.697	51.439	.38302	.00162

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01267	.00136	-.00115	-.00032	-.00027	.00000	-.00009
SDev	.00023	.00081	.00076	.00024	.00065	.00142	.00073
%RSD	1.7853	59.744	65.899	74.730	241.34	28390.	847.82

#1	.01251	.00079	-.00062	-.00015	.00019	-.00100	-.00060
#2	.01283	.00194	-.00169	-.00048	-.00073	.00101	.00043

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00481	-.00417	-.00118	-.00221	.00760	-.00431
SDev	.00411	.00079	.00190	.00408	.00070	.00004
%RSD	85.512	19.043	160.87	184.31	9.1687	.95114

#1	.00771	-.00361	.00016	.00067	.00810	-.00434
#2	.00190	-.00473	-.00252	-.00509	.00711	-.00428

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

680 1260

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	10997	--	--	--	--	--	--
SDev	8.026076	--	--	--	--	--	--
%RSD	.0729811	--	--	--	--	--	--
#1	10992	--	--	--	--	--	--
#2	11003	--	--	--	--	--	--

Method: METTRA Sample Name: DXCWP

Operator: WTR

Run Time: 03/25/01 20:51:07

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00042	.03731	.00316	.32148	.00103	269.10	-.00033
SDev	.00045	.00193	.00027	.00015	.00015	.58	.00027
%RSD	106.83	5.1815	8.5679	.04820	15.036	.21393	80.194

#1	.00010	.03867	.00335	.32137	.00114	268.70	-.00052
#2	.00074	.03594	.00297	.32159	.00092	269.51	-.00014

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00022	.00123	-.00013	26.662	47.992	1.2156	.00229
SDev	.00009	.00013	.00007	.088	.007	.0022	.00083
%RSD	42.785	10.255	50.845	.32951	.01374	.18246	36.304

#1	-.00029	.00114	-.00008	26.600	47.996	1.2141	.00288
#2	-.00015	.00132	-.00017	26.724	47.987	1.2172	.00171

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00041	.00278	-.00020	.00080	.00279	.00195	.00223
SDev	.00057	.00171	.00029	.00076	.00088	.00315	.00181
%RSD	140.32	61.564	146.80	95.854	31.718	161.21	80.985

#1	.00000	.00399	.00001	.00133	.00216	.00418	.00351
#2	.00081	.00157	-.00040	.00076	.00341	-.00327	.00095

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00457	.00046	-.00122	.00043	.00421	-.00692
SDev	.00452	.00362	.00091	.00080	.00066	.00026
%RSD	98.839	795.39	74.932	187.00	15.577	3.7920

#1	-.00776	.00302	-.00057	.00099	.00468	-.00711
#2	-.00138	-.00211	-.00186	-.00014	.00375	-.00674

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11407	--	--	--	--	--	--
SDev	19.58700	--	--	--	--	--	--
%RSD	.1717126	--	--	--	--	--	--
#1	11421	--	--	--	--	--	--
#2	11393	--	--	--	--	--	--

Method: METTRA Sample Name: DXCWQ

Operator: WTR

Run Time: 03/25/01 20:55:34

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00057	.35218	.00372	.41973	.00105	194.23	.00004
SDev	.00018	.00508	.00080	.00077	.00025	.30	.00024
%RSD	31.139	1.4412	21.523	.18457	24.034	.15702	601.97

#1	.00045	.35577	.00428	.42028	.00123	194.02	-.00013
#2	.00070	.34859	.00315	.41918	.00087	194.45	.00021

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00005	.00272	.00214	5.0596	49.784	2.3330	.00545
SDev	.00014	.00075	.00034	.0382	.042	.0048	.00074
%RSD	301.72	27.546	15.671	.75529	.08477	.20679	13.535

#1	-.00015	.00325	.00190	5.0326	49.814	2.3296	.00493
#2	.00005	.00219	.00238	5.0866	49.754	2.3364	.00597

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00304	.00354	.00174	.00234	-.00008	-.00075	-.00052
SDev	.00204	.00081	.00125	.00056	.00053	.00120	.00098
%RSD	67.067	22.912	71.672	23.964	647.10	160.88	186.20

#1	.00160	.00412	.00086	.00194	-.00046	-.00159	-.00122
#2	.00448	.00297	.00262	.00274	.00029	.00010	.00017

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00394	.00092	-.00070	.00162	.00995	-.00474
SDev	.00389	.00033	.00107	.00068	.00103	.00010
%RSD	98.815	36.438	153.20	41.982	10.407	2.1101

#1	-.00119	.00068	.00006	.00210	.00922	-.00467
#2	-.00669	.00115	-.00146	.00114	.01068	-.00481

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

680 1264

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11472	--	--	--	--	--	--
SDev	18.31434	--	--	--	--	--	--
%RSD	.1596508	--	--	--	--	--	--
#1	11484	--	--	--	--	--	--
#2	11459	--	--	--	--	--	--

Method: METTRA Sample Name: DXNT3B

Operator: WTR

Run Time: 03/25/01 21:00:01

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00057	.03007	.00078	.00016	.00111	-.03236	.00032
SDev	.00041	.00588	.00070	.00009	.00006	.00247	.00012
%RSD	71.031	19.543	89.655	52.163	5.8308	7.6406	36.263
#1	.00086	.03422	.00127	.00010	.00116	-.03410	.00024
#2	.00029	.02591	.00028	.00023	.00107	-.03061	.00040
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00049	.00114	-.00179	-.00004	.00920	.00065	.00169
SDev	.00019	.00000	.00003	.01630	.00737	.00007	.00042
%RSD	39.848	.31269	1.4318	38930.	80.105	10.317	24.792
#1	-.00062	.00114	-.00177	.01148	.01442	.00069	.00199
#2	-.00035	.00114	-.00181	-.01156	.00399	.00060	.00139
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00136	.00187	-.00022	.00047	-.00119	-.00151	-.00140
SDev	.00079	.00045	.00129	.00071	.00183	.00385	.00317
%RSD	58.333	23.922	584.84	150.04	154.03	255.58	226.92
#1	.00192	.00155	.00069	.00098	.00011	.00121	.00085
#2	.00080	.00218	-.00113	-.00003	-.00248	-.00423	-.00364
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00948	.00381	-.00061	-.00330	-.00000	-.01406	
SDev	.00071	.00217	.00169	.00264	.00001	.00000	
%RSD	7.5389	57.054	274.90	79.849	38930.	.03427	
#1	-.00999	.00227	-.00181	-.00517	.00000	-.01406	
#2	-.00897	.00535	.00058	-.00144	-.00000	-.01406	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11488	--	--	--	--	--	--
SDev	24.14728	--	--	--	--	--	--
%RSD	.2101879	--	--	--	--	--	--
#1	11471	--	--	--	--	--	--
#2	11506	--	--	--	--	--	--

Method: METTRA Sample Name: DXNT3C Operator: WTR
 Run Time: 03/25/01 21:04:28
 Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05120	2.1315	2.0447	1.9508	.05102	55.173	.05030
SDev	.00080	.0028	.0018	.0047	.00024	.028	.00029
%RSD	1.5582	.13193	.08695	.24056	.47290	.05122	.57760
#1	.05063	2.1295	2.0434	1.9542	.05119	55.153	.05050
#2	.05176	2.1334	2.0459	1.9475	.05085	55.193	.05009
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.06000	2.4000	2.4000	2.4000	.06000	60.000	.06000
Low	.04000	1.6000	1.6000	1.6000	.04000	40.000	.04000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51951	.20651	.24182	.85359	53.024	.50420	1.0373
SDev	.00055	.00138	.00065	.00927	.125	.00010	.0049
%RSD	.10527	.66610	.26886	1.0855	.23648	.02066	.46994
#1	.51912	.20553	.24136	.84703	53.113	.50427	1.0338
#2	.51989	.20748	.24228	.86014	52.936	.50412	1.0407
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.60000	.24000	.30000	1.2000	60.000	.60000	1.2000
Low	.40000	.16000	.20000	.80000	40.000	.40000	.80000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51333	.51715	.50965	.51215	.50086	.50651	.50463
SDev	.00326	.00020	.00015	.00016	.00004	.00502	.00333
%RSD	.63520	.03852	.02885	.03210	.00763	.99061	.66068
#1	.51563	.51729	.50975	.51226	.50083	.51006	.50699
#2	.51102	.51701	.50954	.51203	.50089	.50296	.50227
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.60000			.60000			.60000
Low	.40000			.40000			.40000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	2.0312	2.0325	2.0321	2.1249	.50336	.50629	
SDev	.0077	.0079	.0079	.0003	.00559	.00026	
%RSD	.37892	.39061	.38673	.01396	1.1097	.05148	
#1	2.0258	2.0269	2.0265	2.1251	.50731	.50647	
#2	2.0367	2.0381	2.0377	2.1247	.49941	.50610	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			2.4000	2.4000	.60000	.60000	
Low			1.6000	1.6000	.40000	.40000	

680 1268

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11553	--	--	--	--	--	--
SDev	17.46568	--	--	--	--	--	--
%RSD	.1511774	--	--	--	--	--	--
#1	11565	--	--	--	--	--	--
#2	11541	--	--	--	--	--	--

Method: METTRA Sample Name: DXM3W

Operator: WTR

Run Time: 03/25/01 21:08:55

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00048	.45132	.04413	.10269	.00156	1.8390	.00064
SDev	.00001	.01288	.00079	.00183	.00004	.0312	.00035
%RSD	2.3537	2.8545	1.7906	1.7789	2.8257	1.6960	55.359
#1	.00049	.46043	.04469	.10398	.00159	1.8610	.00039
#2	.00047	.44221	.04357	.10140	.00152	1.8169	.00089
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00608	.02823	.11705	20.682	.19817	.28916	.01274
SDev	.00006	.00070	.00225	.334	.00504	.00473	.00152
%RSD	.98799	2.4854	1.9236	1.6145	2.5417	1.6351	11.934
#1	.00604	.02872	.11865	20.918	.20173	.29251	.01382
#2	.00612	.02773	.11546	20.445	.19461	.28582	.01167
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04561	.00983	.01383	.01250	.00399	-.00001	.00132
SDev	.00197	.00235	.00120	.00002	.00088	.00366	.00215
%RSD	4.3273	23.922	8.6967	.15158	22.089	40081.	162.09
#1	.04701	.01149	.01298	.01248	.00337	.00258	.00284
#2	.04422	.00817	.01468	.01251	.00462	-.00260	-.00019
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.01111	.00161	.00477	.01047	.09121	.03335	
SDev	.00557	.00076	.00135	.00204	.00124	.00115	
%RSD	50.134	47.473	28.185	19.447	1.3633	3.4494	
#1	.01505	.00107	.00573	.01191	.09209	.03417	
#2	.00717	.00215	.00382	.00903	.09033	.03254	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	12393	--	--	--	--	--	--
SDev	166.5237	--	--	--	--	--	--
%RSD	1.343642	--	--	--	--	--	--
#1	12276	--	--	--	--	--	--
#2	12511	--	--	--	--	--	--

Method: METTRA Sample Name: DXM3WP5 Operator: WTR
 Run Time: 03/25/01 21:13:22
 Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00017	.11510	.00873	.02112	.00125	.33068	.00009
SDev	.00027	.00190	.00267	.00004	.00026	.00021	.00014
%RSD	158.38	1.6535	30.531	.20030	20.777	.06342	162.81
#1	-.00002	.11644	.00685	.02114	.00143	.33083	-.00001
#2	.00036	.11375	.01062	.02109	.00106	.33053	.00018
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00109	.00602	.02257	4.2649	.03896	.05962	.00306
SDev	.00023	.00044	.00034	.0236	.00043	.00004	.00019
%RSD	21.345	7.2861	1.5066	.55324	1.0970	.07334	6.3352
#1	.00092	.00571	.02281	4.2816	.03926	.05965	.00320
#2	.00125	.00633	.02233	4.2482	.03866	.05959	.00292
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00973	.00041	.00476	.00331	.00274	-.00034	.00068
SDev	.00002	.00172	.00011	.00064	.00121	.00048	.00073
%RSD	.24529	422.89	2.2222	19.414	44.404	142.56	106.22
#1	.00971	.00162	.00484	.00377	.00188	-.00068	.00017
#2	.00975	-.00081	.00469	.00286	.00360	.00000	.00120
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00162	-.00321	-.00160	.00228	.02300	-.00411	
SDev	.00276	.00211	.00049	.00620	.00004	.00027	
%RSD	169.92	65.798	30.594	272.43	.19297	6.5172	
#1	.00357	-.00470	-.00194	.00666	.02297	-.00392	
#2	-.00033	-.00172	-.00125	-.00211	.02303	-.00430	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

680 1272

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11860	--	--	--	--	--	--
SDev	28.46105	--	--	--	--	--	--
%RSD	.2399807	--	--	--	--	--	--
#1	11880	--	--	--	--	--	--
#2	11840	--	--	--	--	--	--

Method: METTRA Sample Name: CCV3-10 Operator: WTR
 Run Time: 03/25/01 21:17:49
 Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0337	24.305	.52673	1.9729	2.0465	51.518	.51634
SDev	.0011	.015	.00118	.0039	.0045	.027	.00183
%RSD	.10725	.06267	.22382	.19634	.22068	.05308	.35500

#1	1.0345	24.316	.52756	1.9756	2.0497	51.537	.51764
#2	1.0329	24.295	.52590	1.9701	2.0433	51.498	.51505

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	55.000	.55000
Low	.90000	22.500	.45000	1.8000	1.8000	45.000	.45000

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0849	2.0553	1.9418	25.309	49.654	2.0264	2.0681
SDev	.0016	.0029	.0051	.021	.189	.0023	.0005
%RSD	.07801	.14344	.26471	.08361	.38061	.11355	.02185

#1	2.0861	2.0574	1.9454	25.324	49.788	2.0280	2.0678
#2	2.0838	2.0532	1.9381	25.294	49.520	2.0248	2.0684

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	27.500	55.000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	22.500	45.000	1.8000	1.8000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0558	.52656	.51916	.52163	.52157	.51995	.52049
SDev	.0104	.00220	.00539	.00433	.00202	.00288	.00259
%RSD	.50656	.41853	1.0378	.82964	.38729	.55381	.49824

#1	2.0632	.52812	.52297	.52469	.52300	.52198	.52232
#2	2.0484	.52500	.51535	.51857	.52014	.51791	.51866

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000			.55000			.55000
Low	1.8000			.45000			.45000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.52515	.52967	.52817	1.0597	2.0102	2.0576
SDev	.00475	.00104	.00228	.0049	.0113	.0040
%RSD	.90514	.19621	.43094	.46319	.56438	.19570

#1	.52851	.53041	.52978	1.0632	2.0182	2.0605
#2	.52179	.52894	.52656	1.0562	2.0022	2.0548

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			.55000	1.1000	2.2000	2.2000
Low			.45000	.90000	1.8000	1.8000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11460	--	--	--	--	--	--
SDev	37.90134	--	--	--	--	--	--
%RSD	.3307315	--	--	--	--	--	--
#1	11433	--	--	--	--	--	--
#2	11487	--	--	--	--	--	--

Method: METTRA Sample Name: CCB10

Operator: WTR

Run Time: 03/25/01 21:22:16

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00083	.03421	.00082	.00040	.00150	-.06234	.00004
SDev	.00084	.00063	.00071	.00025	.00005	.00378	.00025
%RSD	101.17	1.8494	85.886	63.350	3.1070	6.0572	673.41

#1	.00024	.03376	.00132	.00022	.00146	-.06501	-.00014
#2	.00142	.03466	.00032	.00058	.00153	-.05967	.00022

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00020	.00108	-.00111	-.00165	.00728	.00034	.00455
SDev	.00000	.00043	.00010	.00002	.00878	.00016	.00042
%RSD	.56243	39.469	8.9883	1.4392	120.61	46.556	9.2221

#1	.00020	.00078	-.00118	-.00167	.00107	.00023	.00485
#2	.00020	.00138	-.00104	-.00164	.01349	.00045	.00425

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00133	-.00260	.00135	.00003	.00100	-.00123	-.00049
SDev	.00144	.00282	.00052	.00128	.00407	.00215	.00279
%RSD	108.03	108.57	38.200	3801.2	407.94	174.59	570.36

#1	.00031	-.00459	.00098	-.00087	.00388	.00029	.00148
#2	.00235	-.00060	.00171	.00094	-.00188	-.00275	-.00246

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00261	-.00040	.00060	.00656	-.00000	-.01403
SDev	.00018	.00242	.00167	.00106	.00000	.00014
%RSD	7.0253	609.64	277.24	16.115	1.4392	1.0159

#1	.00248	-.00211	-.00058	.00730	-.00000	-.01413
#2	.00274	.00131	.00179	.00581	-.00000	-.01393

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			.00500	.01000	.05000	.02000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11688	--	--	--	--	--	--
SDev	28.03706	--	--	--	--	--	--
%RSD	.2398816	--	--	--	--	--	--
#1	11668	--	--	--	--	--	--
#2	11708	--	--	--	--	--	--

Method: METTRA Sample Name: DXM3WS

Operator: WTR

Run Time: 03/25/01 21 26:43

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05011	2.6010	2.0412	2.0240	.04953	55.007	.04846
SDev	.00046	.0094	.0070	.0115	.00017	.072	.00020
%RSD	.92457	.36249	.34471	.56652	.34635	.13149	.42024
#1	.04978	2.6077	2.0462	2.0321	.04965	55.058	.04860
#2	.05043	2.5944	2.0362	2.0159	.04941	54.956	.04832
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50847	.22790	.37204	25.215	51.273	.82662	1.0043
SDev	.00022	.00049	.00175	.085	.228	.00158	.0004
%RSD	.04330	.21461	.47048	.33729	.44473	.19165	.03612
#1	.50831	.22824	.37328	25.275	51.435	.82774	1.0046
#2	.50862	.22755	.37080	25.155	51.112	.82550	1.0041
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.54536	.51096	.50290	.50559	.48662	.49889	.49481
SDev	.00277	.00055	.00048	.00051	.00264	.00577	.00473
%RSD	.50816	.10778	.09597	.09994	.54227	1.1559	.95493
#1	.54732	.51057	.50256	.50523	.48848	.50297	.49815
#2	.54340	.51135	.50324	.50594	.48475	.49482	.49147
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	2.1000	2.0790	2.0860	2.0618	.58100	.55104	
SDev	.0057	.0118	.0059	.0098	.00496	.00064	
%RSD	.27274	.56521	.28430	.47712	.85393	.11608	
#1	2.1041	2.0707	2.0818	2.0688	.58451	.55149	
#2	2.0960	2.0873	2.0902	2.0549	.57749	.55059	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11822	--	--	--	--	--	--
SDev	39 70432	--	--	--	--	--	--
%RSD	.3358575	--	--	--	--	--	--
#1	11850	--	--	--	--	--	--
#2	11794	--	--	--	--	--	--

Method: METTRA Sample Name: DXM3WD Operator: WTR
 Run Time: 03/25/01 21:31:10
 Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05044	2.6474	2.0427	2.0220	.04928	55.279	.04859
SDev	.00031	.0016	.0053	.0054	.00020	.102	.00037
%RSD	.61561	.05941	.26173	.26555	.40176	.18507	.75539
#1	.05066	2.6485	2.0465	2.0258	.04942	55.352	.04885
#2	.05022	2.6463	2.0389	2.0182	.04914	55.207	.04833
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.50822	.22608	.37110	27.897	51.253	.85590	1.0085
SDev	.00017	.00011	.00110	.029	.216	.00139	.0018
%RSD	.03452	.05053	.29496	.10519	.42129	.16252	.17618
#1	.50835	.22600	.37187	27.917	51.405	.85688	1.0098
#2	.50810	.22616	.37032	27.876	51.100	.85492	1.0073
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.54024	.50421	.50120	.50220	.48779	.49396	.49191
SDev	.00397	.00283	.00507	.00433	.00400	.00372	.00381
%RSD	.73491	.56220	1.0124	.86191	.82099	.75271	.77525
#1	.54305	.50621	.50478	.50526	.49062	.49659	.49460
#2	.53743	.50220	.49761	.49914	.48495	.49134	.48921
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	2.1083	2.1125	2.1111	2.0560	.57824	.54802	
SDev	.0062	.0089	.0080	.0231	.00631	.00217	
%RSD	.29336	.42179	.37908	1.1245	1.0907	.39534	
#1	2.1127	2.1188	2.1168	2.0724	.58270	.54955	
#2	2.1039	2.1062	2.1054	2.0397	.57378	.54649	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

680 1280

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11878	--	--	--	--	--	--
SDev	11.03059	--	--	--	--	--	--
%RSD	.0928665	--	--	--	--	--	--
#1	11886	--	--	--	--	--	--
#2	11870	--	--	--	--	--	--

Method: METTRA Sample Name: DXME5/5 BA Operator: WTR
 Run Time: 03/25/01 21:35 37
 Comment: S-L PITTSBURGH ICP HELIUM ANALYSIS INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA ✓	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00025	.41413	.00473	4.0850	.00118	4.9824	.00423
SDev	.00004	.00404	.00093	.0043	.00024	.0095	.00012
%RSD	15.641	.97446	19.595	.10509	20.078	.18980	2.7097
#1	.00027	.41699	.00539	4.0880	.00134	4.9890	.00415
#2	.00022	.41128	.00407	4.0820	.00101	4.9757	.00432
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00060	.04469	.05600	8.4666	.31272	.11007	.01791
SDev	.00009	.00028	.00002	.0304	.00083	.00016	.00013
%RSD	15.618	.61630	.04126	.35877	.26513	.14483	.73489
#1	.00053	.04449	.05602	8.4451	.31331	.11018	.01800
#2	.00066	.04488	.05598	8.4880	.31214	.10996	.01781
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.06869	.67611	.68305	.68074	.00922	.00936	.00931
SDev	.00094	.00155	.00390	.00209	.00131	.00132	.00044
%RSD	1.3647	.22872	.57114	.30659	14.194	14.057	4.7465
#1	.06803	.67502	.68581	.68222	.00829	.01029	.00962
#2	.06935	.67721	.68029	.67927	.01014	.00843	.00900
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00160	.00105	.00124	.00280	.00271	.47595	
SDev	.00377	.00055	.00089	.00242	.00001	.00044	
%RSD	235.33	52.698	71.788	86.300	.35877	.09318	
#1	-.00106	.00144	.00061	.00451	.00270	.47626	
#2	.00427	.00066	.00186	.00109	.00271	.47564	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

680 1282

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11736	--	--	--	--	--	--
SDev	46.88104	--	--	--	--	--	--
%RSD	.3994550	--	--	--	--	--	--
#1	11769	--	--	--	--	--	--
#2	11703	--	--	--	--	--	--

Method: METTRA Sample Name: DXMESP25 Operator: WTR
 Run Time: 03/25/01 21:40:04
 Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRICEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00064	.10186	.00301	.83905	.00119	.97143	.00091
SDev	.00022	.01318	.00144	.09360	.00011	.12894	.00005
%RSD	34.564	12.942	48.013	11.155	8.9713	13.274	5.3391
#1	.00080	.11118	.00403	.90523	.00126	1.0626	.00094
#2	.00048	.09254	.00199	.77286	.00111	.88026	.00087
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00040	.00921	.01107	1.7253	.06517	.02243	.00504
SDev	.00037	.00139	.00114	.2096	.00811	.00255	.00161
%RSD	92.060	15.047	10.319	12.148	12.451	11.373	31.837
#1	.00066	.01019	.01188	1.8735	.07090	.02424	.00618
#2	.00014	.00823	.01026	1.5771	.05943	.02063	.00391
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01396	.13025	.15038	.14367	.00321	.00162	.00215
SDev	.00163	.00412	.02933	.02094	.00250	.00100	.00017
%RSD	11.681	3.1661	19.507	14.574	77.908	61.482	7.8033
#1	.01511	.13316	.17112	.15848	.00497	.00092	.00227
#2	.01280	.12733	.12963	.12887	.00144	.00232	.00203
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00004	.00078	.00051	.00213	.00078	.08689	
SDev	.00238	.00315	.00290	.00121	.00026	.01168	
%RSD	5999.7	403.15	569.95	57.016	33.041	13.443	
#1	-.00173	-.00145	-.00154	.00298	.00060	.09516	
#2	.00165	.00301	.00256	.00127	.00096	.07863	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11878	--	--	--	--	--	--
SDev	5.091307	--	--	--	--	--	--
%RSD	.0428646	--	--	--	--	--	--
#1	11881	--	--	--	--	--	--
#2	11874	--	--	--	--	--	--

Method: METTRA Sample Name: DXMFP/2 PB Operator: WTR
 Run Time: 03/25/01 21:44:32
 Comment: STL PITTSBURGH: ICP METALS ANALYSIS INSTRUMENT TRACE ICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00047	1.1108	.02730	.16457	.00088	9.6428	.00239
SDev	.00039	.0015	.00192	.00004	.00012	.0030	.00005
%RSD	82.300	.13289	7.0326	.02332	13.310	.03152	1.9292

#1	.00020	1.1098	.02594	.16460	.00097	9.6406	.00236
#2	.00075	1.1119	.02866	.16455	.00080	9.6449	.00242

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01662	.04624	2.6101	35.644	.36430	.19082	.03879
SDev	.00016	.00031	.0021	.060	.00050	.00030	.00056
%RSD	.98713	.66150	.08176	.16772	.13691	.15573	1.4530

#1	.01651	.04603	2.6116	35.602	.36395	.19061	.03919
#2	.01674	.04646	2.6086	35.687	.36465	.19103	.03839

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB ✓	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.31287	4.0238	4.0149	4.0179	.01419	.01365	.01383
SDev	.00258	.0122	.0038	.0066	.00283	.00117	.00172
%RSD	.82516	.30211	.09507	.16412	19.920	8.5471	12.433

#1	.31470	4.0324	4.0176	4.0226	.01619	.01448	.01505
#2	.31105	4.0153	4.0122	4.0132	.01220	.01283	.01262

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00113	.00282	.00150	.00104	-.00155	.50257
SDev	.00236	.00016	.00089	.00046	.00100	.00017
%RSD	208.10	5.6373	59.331	44.121	64.346	.03464

#1	.00053	.00293	.00213	.00136	-.00226	.50244
#2	-.00280	.00271	.00087	.00071	-.00085	.50269

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11598	--	--	--	--	--	--
SDev	16.08668	--	--	--	--	--	--
%RSD	.1387055	--	--	--	--	--	--
#1	11609	--	--	--	--	--	--
#2	11586	--	--	--	--	--	--

Method: METTRA Sample Name: DXMGN/5 BA Operator: WTR
 Run Time: 03/25/01 21:48:59
 Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA✓	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00038	.30866	.00176	9.7168	.00111	2.5659	.00056
SDev	.00017	.00445	.00053	.0100	.00013	.0010	.00000
%RSD	45.880	1.4425	30.277	.10277	12.070	.03878	.60428
#1	.00026	.31181	.00139	9.7239	.00120	2.5652	.00057
#2	.00050	.30551	.00214	9.7098	.00101	2.5666	.00056
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00533	.00424	.01242	1.3961	.18944	.10353	.00287
SDev	.00019	.00014	.00037	.0045	.00138	.00007	.00010
%RSD	3.5903	3.2598	2.9566	.32062	.72955	.06658	3.6238
#1	-.00520	.00434	.01216	1.3992	.19042	.10357	.00279
#2	-.00547	.00415	.01268	1.3929	.18847	.10348	.00294
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00389	.17850	.18018	.17962	.00225	.00187	.00199
SDev	.00044	.00176	.00459	.00248	.00416	.00297	.00337
%RSD	11.413	.98359	2.5467	1.3785	185.23	159.20	168.98
#1	.00357	.17726	.18343	.18137	-.00070	-.00023	-.00039
#2	.00420	.17974	.17694	.17787	.00519	.00396	.00437
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00235	-.00060	-.00119	.00337	.00068	1.1661	
SDev	.00416	.00061	.00098	.00249	.00033	.0019	
%RSD	176.93	100.72	82.656	73.760	48.169	.16165	
#1	-.00530	-.00017	-.00188	.00161	.00045	1.1675	
#2	.00059	-.00103	-.00049	.00513	.00091	1.1648	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11774	--	--	--	--	--	--
SDev	10.04106	--	--	--	--	--	--
%RSD	.0852816	--	--	--	--	--	--
#1	11781	--	--	--	--	--	--
#2	11767	--	--	--	--	--	--

Method: METTRA Sample Name: CCV3-11 Operator: WTR
 Run Time: 03/25/01 21:53:26
 Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0266	24.102	.51852	1.9544	2.0215	50.787	.50809
SDev	.0008	.028	.00081	.0032	.0054	.043	.00106
%RSD	.07897	.11731	.15573	.16476	.26944	.08410	.20970
#1	1.0271	24.082	.51794	1.9567	2.0254	50.757	.50884
#2	1.0260	24.122	.51909	1.9521	2.0177	50.817	.50734
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	55.000	.55000
Low	.90000	22.500	.45000	1.8000	1.8000	45.000	.45000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0582	2.0304	1.9279	24.983	49.047	2.0043	2.0402
SDev	.0007	.0004	.0006	.037	.179	.0001	.0022
%RSD	.03501	.02175	.02927	.14887	.36443	.00330	.11025
#1	2.0577	2.0307	1.9283	24.956	49.173	2.0043	2.0386
#2	2.0587	2.0301	1.9275	25.009	48.920	2.0042	2.0418
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	27.500	55.000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	22.500	45.000	1.8000	1.8000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0252	.52012	.51390	.51597	.51495	.51463	.51473
SDev	.0147	.00165	.00187	.00179	.00237	.00051	.00045
%RSD	.72622	.31714	.36348	.34793	.45962	.09807	.08771
#1	2.0356	.51895	.51258	.51470	.51328	.51498	.51442
#2	2.0148	.52129	.51522	.51724	.51663	.51427	.51505
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000			.55000			.55000
Low	1.8000			.45000			.45000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.52409	.52229	.52289	1.0486	1.9846	2.0330	
SDev	.00270	.00288	.00282	.0012	.0069	.0013	
%RSD	.51507	.55092	.53895	.11609	.34839	.06289	
#1	.52600	.52433	.52489	1.0494	1.9895	2.0339	
#2	.52218	.52026	.52090	1.0477	1.9797	2.0321	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.55000	1.1000	2.2000	2.2000	
Low			.45000	.90000	1.8000	1.8000	

680 1290

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11491	--	--	--	--	--	--
SDev	14.42525	--	--	--	--	--	--
%RSD	.1255331	--	--	--	--	--	--
#1	11501	--	--	--	--	--	--
#2	11481	--	--	--	--	--	--

Method: METTRA Sample Name CCB11

Operator: WTR

Run Time: 03/25/01 21:57:53

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT TRAFFIC?

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00014	.02133	.00188	.00089	.00123	-.05098	.00011
SDev	.00031	.00283	.00021	.00017	.00022	.00022	.00012
%RSD	216.20	13.252	10.991	19.224	18.305	.42634	112.91
#1	-.00008	.02332	.00173	.00077	.00139	-.05113	.00002
#2	.00036	.01933	.00202	.00102	.00107	-.05082	.00020
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00073	.00050	-.00083	.01115	.00872	.00013	.00451
SDev	.00000	.00038	.00030	.01357	.00050	.00000	.00039
%RSD	.02987	76.551	36.414	121.72	5.7252	1.2362	8.6458
#1	.00073	.00023	-.00104	.02075	.00907	.00013	.00478
#2	.00073	.00077	-.00061	.00155	.00836	.00013	.00423
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00031	-.00220	.00099	-.00007	.00079	-.00079	-.00026
SDev	.00022	.00121	.00084	.00096	.00552	.00182	.00305
%RSD	70.493	54.933	84.662	1306.6	694.28	229.09	1155.3
#1	-.00016	-.00306	.00040	-.00075	.00470	.00049	.00189
#2	-.00047	-.00135	.00158	.00061	-.00311	-.00208	-.00242
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00305	-.00198	-.00031	.00611	.00024	-.01315	
SDev	.00183	.00431	.00348	.00042	.00032	.00001	
%RSD	60.022	217.14	1139.2	6.9344	137.44	.05372	
#1	.00435	.00106	.00216	.00640	.00001	-.01315	
#2	.00176	-.00503	-.00277	.00581	.00046	-.01314	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

680 1292

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11796	--	--	--	--	--	--
SDev	39.03243	--	--	--	--	--	--
%RSD	.3308815	--	--	--	--	--	--
#1	11824	--	--	--	--	--	--
#2	11769	--	--	--	--	--	--

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680 1293

Analysis Report 622B Averaged

03/06/02 07:04 07 PM

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246
3200 Phenylalanine 32801
Sample Name SE

1 STD1
2 STD6
3 STD7
4 ICV3-1 0087-168-1 .26054
5 ICB1 .00229
6 ICSA 0087-133-5 .00646
7 ICSAB 0087-081-6 1.0352
8 DXRH2P5 .00206
9 DX1A9B .00386
10 DX1A9C 1.9594
11 DXVXK .00413
12 DXVX5 .00268
13 DXVV0 .00458
14 DXVV0P5 .00589
15 DXVV0S 1.7558
16 CCV3-1 0087-169-1 .52085
17 CCB1 .00244
18 DXVV0D 1.7711
19 DXVWF .00619
20 DXVV0F .00343
21 DXVV0P5F -.00001
22 DXVV0SF 1.7704
23 DXVV0DF 1.7502
24 DXVWFF .00547
25 CCV3-2 .51722
26 CCB2 -.00052
27 DXTHWB .00341
28 DXTHWC L.00280
29 DXN8E .00437
30 DXN8EP5 .00554
31 DXN8ES .00391
32 DXN8ED .00211
33 DXN8J .00681
34 DXN8K .00465
35 DXN8L .00791
36 CCV3-3 .52270
37 CCB3 H.00506
38 DXT6MB .00224
39 DXT6MC 2.1278
40 DXL8W .00668
41 DXL8WP5 .00419
42 DXL8WS 2.1801
43 DXL8WD 2.1299
44 DXL81 .01201
45 CCV3-4 .52422
46 CCB4 .00116
47 DXX6AB H.00554
48 DXX6AC 1.9172
49 DXXC5 .00475
50 DXXC5P5 .00575
51 DXXC5S 2.0073
52 DXXC5D 1.9603
53 DXQVGB .00332

#	Sample Name	SE	680 1294
54	DXQVGC	1.9764	
55	DXN6J	.00338	
56	DXN6JP5	.00112	
57	CCV3-5	.52174	
58	CCB5	.00351	
59	DXN6JS	2.0018	
60	DXN6JD	2.0473	
61	DXX50B	.00362	
62	DXX50C	2.0363	
63	DXR1K	.00464	
64	DXR1KP5	.00486	
65	DXR1KS	2.0295	
66	DXR1KD	1.9945	
67	DXR1Q	.00362	
68	DXR1X	.00248	
69	CCV3-6	.52700	
70	CCB6	.00334	
71	DXX5RB	-.00003	
72	DXX5RC	2.0637	
73	DXRRL	.00752	
74	DXRT6	.01138	
75	DXRT9	.00620	
76	DXRVA	.00880	
77	DXRVH	.00445	
78	DXRVHP5	.00647	
79	DXRVHS	1.9109	
80	DXRVHD	1.9169	
81	CCV3-7	.52504	
82	CCB7	.00299	
83	DXRVL	.00854	
84	DXRVV	.00635	
85	DXRV4	.00841	
86	DXRV9	.00700	
87	DXRWG	.00706	
88	DXRWK	.01410	
89	DXRWX	.00985	
90	DXRW2	.01031	
91	DXRXK	.00666	
92	DXRXQ	.00648	
93	CCV3-8	.52474	
94	CCB8	.00284	
95	DXRXV	.00999	
96	DXRX1	.00704	
97	DXRX8	.00693	
98	DXX5WB	.00408	
99	DXX5WC	1.9878	
100	DXR0C	.01008	
101	DXR0CP5	.00528	
102	DXR0CS	1.9837	
103	DXR0CD	1.9642	
104	DXR0J	.01293	
105	CCV3-9	.52265	
106	CCB9	.00425	
107	DXR0L	.00909	

#	Sample Name	SE
108	DXR0N	.01170
109	DXR0R	.00928
110	DXR0W	.00948
111	DXR02	.00718
112	DXR08	.01113
113	DXR1C	.00782
114	DXR1F	.01225
115	CCV3-10	52214
116	CCB10	.00108

PB 32801

680 1296

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	STD1	T10327C	METTRA	03/27/01	18:26		X	IR
2	STD6	T10327C	METTRA	03/27/01	18:30		X	IR
3	STD7	T10327C	METTRA	03/27/01	18:35		X	IR
4	ICV3-1 0087-168-1	T10327C	METTRA	03/27/01	18:39	RJG	S	CONC
5	ICB1	T10327C	METTRA	03/27/01	18:43	RJG	S	CONC
6	ICSA 0087-133-5	T10327C	METTRA	03/27/01	18:48	RJG	Q	CONC
7	ICSAB 0087-081-6	T10327C	METTRA	03/27/01	18:52	RJG	Q	CONC
8	DXRH2P5	T10327C	METTRA	03/27/01	18:59	RJG	S	CONC
9	DX1A9B	T10327C	METTRA	03/27/01	19:04	RJG	S	CONC
10	DX1A9C	T10327C	METTRA	03/27/01	19:09	RJG	S	CONC
11	DXVXK	T10327C	METTRA	03/27/01	19:13	RJG	S	CONC
12	DXVX5	T10327C	METTRA	03/27/01	19:18	RJG	S	CONC
13	DXVV0	T10327C	METTRA	03/27/01	19:22	RJG	S	CONC
14	DXVV0P5	T10327C	METTRA	03/27/01	19:26	RJG	S	CONC
15	DXVV0S	T10327C	METTRA	03/27/01	19:31	RJG	S	CONC
16	CCV3-1 0087-169-1	T10327C	METTRA	03/27/01	19:35	RJG	S	CONC
17	CCB1	T10327C	METTRA	03/27/01	19:40	RJG	S	CONC
18	DXVV0D	T10327C	METTRA	03/27/01	19:44	RJG	S	CONC
19	DXVWF	T10327C	METTRA	03/27/01	19:49	RJG	S	CONC
20	DXVV0F	T10327C	METTRA	03/27/01	19:53	RJG	S	CONC
21	DXVV0P5F	T10327C	METTRA	03/27/01	19:58	RJG	S	CONC
22	DXVV0SF	T10327C	METTRA	03/27/01	20:02	RJG	S	CONC
23	DXVV0DF	T10327C	METTRA	03/27/01	20:06	RJG	S	CONC
24	DXVWFF	T10327C	METTRA	03/27/01	20:11	RJG	S	CONC
25	CCV3-2	T10327C	METTRA	03/27/01	20:15	RJG	S	CONC
26	CCB2	T10327C	METTRA	03/27/01	20:20	RJG	S	CONC
27	DXTHWB	T10327C	METTRA	03/27/01	20:24	RJG	S	CONC
28	DXTHWC	T10327C	METTRA	03/27/01	20:28	RJG	S	CONC
29	DXN8E	T10327C	METTRA	03/27/01	20:33	RJG	S	CONC
30	DXN8EP5	T10327C	METTRA	03/27/01	20:37	RJG	S	CONC
31	DXN8ES	T10327C	METTRA	03/27/01	20:42	RJG	S	CONC
32	DXN8ED	T10327C	METTRA	03/27/01	20:46	RJG	S	CONC
33	DXN8J	T10327C	METTRA	03/27/01	20:51	RJG	S	CONC
34	DXN8K	T10327C	METTRA	03/27/01	20:55	RJG	S	CONC
35	DXN8L	T10327C	METTRA	03/27/01	20:59	RJG	S	CONC
36	CCV3-3	T10327C	METTRA	03/27/01	21:04	RJG	S	CONC
37	CCB3	T10327C	METTRA	03/27/01	21:08	RJG	S	CONC
38	DXT6MB	T10327C	METTRA	03/27/01	21:13	RJG	S	CONC
39	DXT6MC	T10327C	METTRA	03/27/01	21:17	RJG	S	CONC
40	DXL8W	T10327C	METTRA	03/27/01	21:22	RJG	S	CONC
41	DXL8WP5	T10327C	METTRA	03/27/01	21:26	RJG	S	CONC
42	DXL8WS	T10327C	METTRA	03/27/01	21:31	RJG	S	CONC
43	DXL8WD	T10327C	METTRA	03/27/01	21:35	RJG	S	CONC
44	DXL81	T10327C	METTRA	03/27/01	21:39	RJG	S	CONC
45	CCV3-4	T10327C	METTRA	03/27/01	21:44	RJG	S	CONC
46	CCB4	T10327C	METTRA	03/27/01	21:48	RJG	S	CONC
47	DXX6AB	T10327C	METTRA	03/27/01	21:53	RJG	S	CONC
48	DXX6AC	T10327C	METTRA	03/27/01	21:57	RJG	S	CONC
49	DXXC5	T10327C	METTRA	03/27/01	22:02	RJG	S	CONC
50	DXXC5P5	T10327C	METTRA	03/27/01	22:06	RJG	S	CONC
51	DXXC5S	T10327C	METTRA	03/27/01	22:10	RJG	S	CONC
52	DXXC5D	T10327C	METTRA	03/27/01	22:15	RJG	S	CONC
53	DXQVGB	T10327C	METTRA	03/27/01	22:19	RJG	S	CONC

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
54	DXQVGC	T10327C	METTRA	03/27/01	22:24	RJG	S	CONC
55	DXN6J	T10327C	METTRA	03/27/01	22:28	RJG	S	CONC
56	DXN6JP5	T10327C	METTRA	03/27/01	22:33	RJG	S	CONC
57	CCV3-5	T10327C	METTRA	03/27/01	22:37	RJG	S	CONC
58	CCB5	T10327C	METTRA	03/27/01	22:41	RJG	S	CONC
59	DXN6JS	T10327C	METTRA	03/27/01	22:46	RJG	S	CONC
60	DXN6JD	T10327C	METTRA	03/27/01	22:50	RJG	S	CONC
61	DXX50B	T10327C	METTRA	03/27/01	22:55	RJG	S	CONC
62	DXX50C	T10327C	METTRA	03/27/01	22:59	RJG	S	CONC
63	DXR1K	T10327C	METTRA	03/27/01	23:04	RJG	S	CONC
64	DXR1KP5	T10327C	METTRA	03/27/01	23:08	RJG	S	CONC
65	DXR1KS	T10327C	METTRA	03/27/01	23:12	RJG	S	CONC
66	DXR1KD	T10327C	METTRA	03/27/01	23:17	RJG	S	CONC
67	DXR1Q	T10327C	METTRA	03/27/01	23:21	RJG	S	CONC
68	DXR1X	T10327C	METTRA	03/27/01	23:26	RJG	S	CONC
69	CCV3-6	T10327C	METTRA	03/27/01	23:30	RJG	S	CONC
70	CCB6	T10327C	METTRA	03/27/01	23:35	RJG	S	CONC
71	DXX5RB	T10327C	METTRA	03/27/01	23:39	RJG	S	CONC
72	DXX5RC	T10327C	METTRA	03/27/01	23:43	RJG	S	CONC
73	DXRRL	T10327C	METTRA	03/27/01	23:48	RJG	S	CONC
74	DXRT6	T10327C	METTRA	03/27/01	23:52	RJG	S	CONC
75	DXRT9	T10327C	METTRA	03/27/01	23:57	RJG	S	CONC
76	DXRVA	T10327C	METTRA	03/28/01	00:01	RJG	S	CONC
77	DXRVH	T10327C	METTRA	03/28/01	00:06	RJG	S	CONC
78	DXRVHP5	T10327C	METTRA	03/28/01	00:10	RJG	S	CONC
79	DXRVHS	T10327C	METTRA	03/28/01	00:15	RJG	S	CONC
80	DXRVHD	T10327C	METTRA	03/28/01	00:19	RJG	S	CONC
81	CCV3-7	T10327C	METTRA	03/28/01	00:23	RJG	S	CONC
82	CCB7	T10327C	METTRA	03/28/01	00:28	RJG	S	CONC
83	DXRVL	T10327C	METTRA	03/28/01	00:32	RJG	S	CONC
84	DXRVV	T10327C	METTRA	03/28/01	00:37	RJG	S	CONC
85	DXRV4	T10327C	METTRA	03/28/01	00:41	RJG	S	CONC
86	DXRV9	T10327C	METTRA	03/28/01	00:46	RJG	S	CONC
87	DXRWG	T10327C	METTRA	03/28/01	00:50	RJG	S	CONC
88	DXRWK	T10327C	METTRA	03/28/01	00:55	RJG	S	CONC
89	DXRWX	T10327C	METTRA	03/28/01	00:59	RJG	S	CONC
90	DXRW2	T10327C	METTRA	03/28/01	01:03	RJG	S	CONC
91	DXRXK	T10327C	METTRA	03/28/01	01:08	RJG	S	CONC
92	DXRXQ	T10327C	METTRA	03/28/01	01:12	RJG	S	CONC
93	CCV3-8	T10327C	METTRA	03/28/01	01:17	RJG	S	CONC
94	CCB8	T10327C	METTRA	03/28/01	01:21	RJG	S	CONC
95	DXRXV	T10327C	METTRA	03/28/01	01:26	RJG	S	CONC
96	DXRX1	T10327C	METTRA	03/28/01	01:30	RJG	S	CONC
97	DXRX8	T10327C	METTRA	03/28/01	01:34	RJG	S	CONC
98	DXX5WB	T10327C	METTRA	03/28/01	01:39	RJG	S	CONC
99	DXX5WC	T10327C	METTRA	03/28/01	01:43	RJG	S	CONC
100	DXR0C	T10327C	METTRA	03/28/01	01:48	RJG	S	CONC
101	DXR0CP5	T10327C	METTRA	03/28/01	01:52	RJG	S	CONC
102	DXR0CS	T10327C	METTRA	03/28/01	01:57	RJG	S	CONC
103	DXR0CD	T10327C	METTRA	03/28/01	02:01	RJG	S	CONC
104	DXR0J	T10327C	METTRA	03/28/01	02:06	RJG	S	CONC
105	CCV3-9	T10327C	METTRA	03/28/01	02:10	RJG	S	CONC
106	CCB9	T10327C	METTRA	03/28/01	02:14	RJG	S	CONC
107	DXR0L	T10327C	METTRA	03/28/01	02:19	RJG	S	CONC

680 1298

Analysis Report

Summary

03/28/01 07:01:37 AM

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#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
108	DXR0N	T10327C	METTRA	03/28/01	02:23	RJG	S	CONC
109	DXR0R	T10327C	METTRA	03/28/01	02:28	RJG	S	CONC
110	DXR0W	T10327C	METTRA	03/28/01	02:32	RJG	S	CONC
111	DXR02	T10327C	METTRA	03/28/01	02:37	RJG	S	CONC
112	DXR08	T10327C	METTRA	03/28/01	02:41	RJG	S	CONC
113	DXR1C	T10327C	METTRA	03/28/01	02:46	RJG	S	CONC
114	DXR1F	T10327C	METTRA	03/28/01	02:50	RJG	S	CONC
115	CCV3-10	T10327C	METTRA	03/28/01	02:54	RJG	S	CONC
116	CCB10	T10327C	METTRA	03/28/01	02:59	RJG	S	CONC

Method: METTRA Standard STD1
Run Time: 03/27/01 18:26:27

680 1299

Elem	AG	AL	AS	BA	BE	CA	CD
Avge	-.00171	.06988	.00613	.00066	-.00572	.00030	.00192
SDev	.00036	.00054	.00710	.00021	.00230	.00006	.00018
%RSD	21.126	.77564	115.83	32.018	40.186	20.290	9.5165
#1	-.00196	.07026	.00111	.00051	-.00410	.00026	.00179
#2	-.00145	.06949	.01115	.00081	-.00735	.00034	.00205
Elem	CO	CR	CU	FE	MG	MN	MO
Avge	-.00073	.00453	.00261	-.00056	-.00009	.00120	.00175
SDev	.00030	.00133	.00055	.00030	.00012	.00000	.00042
%RSD	41.676	29.267	20.952	54.468	141.42	.08880	24.059
#1	-.00051	.00546	.00222	-.00034	.00000	.00120	.00205
#2	-.00094	.00359	.00299	-.00077	-.00017	.00120	.00145
Elem	NI	PB/1	PB/2	SB/1	SB/2	SE/1	SE/2
Avge	.00017	.00961	.00355	-.00184	.00795	-.11427	.03985
SDev	.00024	.00248	.00030	.00127	.01777	.02602	.00848
%RSD	141.42	25.856	8.6078	68.999	223.40	22.767	21.286
#1	.00034	.00785	.00333	-.00273	-.00461	-.09587	.04584
#2	.00000	.01137	.00376	-.00094	.02051	-.13266	.03385
Elem	TL	V	ZN				
Avge	-.02447	.00009	-.00009				
SDev	.01115	.00012	.00006				
%RSD	45.580	141.42	70.777				
#1	-.03236	.00000	-.00004				
#2	-.01658	.00017	-.00013				

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11706	--	--	--	--	--	--
SDev	10.39461	--	--	--	--	--	--
%RSD	.0887961	--	--	--	--	--	--
#1	11714	--	--	--	--	--	--
#2	11699	--	--	--	--	--	--

Method: METTRA Standard: STD6
Run Time: 03/27/01 18:30:55

0087.154-1

680 1301

Elem	AG	AS	CD	PB/1	PB/2	SB/1	SB/2
Avge	8.9915	5.9659	14.104	5.0794	7.3123	6.9196	4.0133
SDev	.0085	.0184	.012	.0089	.0404	.0031	.0057
%RSD	.09412	.30804	08389	.17578	.55288	.04503	.14162

#1	8.9855	5.9530	14.112	5.0857	7.3409	6.9174	4.0173
#2	8.9975	5.9789	14.095	5.0731	7.2838	6.9218	4.0093

Elem	SE/1	SE/2	TL
Avge	5.1812	3.1328	3.7204
SDev	.0043	.0044	.0202
%RSD	.08336	.14085	.54213

#1	5.1842	3.1359	3.7061
#2	5.1781	3.1297	3.7346

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11697	--	--	--	--	--	--
SDev	32.95090	--	--	--	--	--	--
%RSD	.2817099	--	--	--	--	--	--

#1	11673	--	--	--	--	--	--
#2	11720	--	--	--	--	--	--

Method: METTRA Standard: STD7

Run Time: 03/27/01 18:35:22

0087.1542

Elem	AL	BA	BE	CA	CO	CR	CU
Avge	5.3953	11.540	10.669	4.4982	2.7226	10.362	2.5635
SDev	.0036	.076	.035	.0016	.0059	.016	.0104
%RSD	.06615	.65590	.32762	.03606	.21778	.15570	.40661

#1	5.3927	11.486	10.645	4.4971	2.7184	10.351	2.5561
#2	5.3978	11.593	10.694	4.4994	2.7268	10.373	2.5709

Elem	FE	MG	MN	MO	NI	V	ZN
Avge	2.6659	12.318	7.7556	2.5488	2.3702	.72944	2.5309
SDev	.0055	.085	.0078	.0185	.0295	.00763	.0155
%RSD	.20542	.68728	.10041	.72719	1.2457	1.0461	.61073

#1	2.6620	12.258	7.7501	2.5357	2.3494	.72404	2.5200
#2	2.6697	12.378	7.7611	2.5620	2.3911	.73483	2.5418

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11595	--	--	--	--	--	--
SDev	.8486662	--	--	--	--	--	--
%RSD	.0073191	--	--	--	--	--	--

#1	11595	--	--	--	--	--	--
#2	11596	--	--	--	--	--	--

Method. METTRA

Slope = Conc(SIR)/IR

680 1303

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
AG	328.068	STD6	STD1	.222390	.000380	03/27/01 06:35:22
AL	308.215	STD7	STD1	9.40164	-.656963	03/27/01 06:35:22
AS	189.042	STD6	STD1	.167790	-.001029	03/27/01 06:35:22
BA	493.409	STD7	STD1	.346650	-.000230	03/27/01 06:35:22
BE	313.042	STD7	STD1	.372412	.002132	03/27/01 06:35:22
CA	317.933	STD7	STD1	22.2325	-.006648	03/27/01 06:35:22
CD	226.502	STD6	STD1	.070913	-.000136	03/27/01 06:35:22
CO	228.616	STD7	STD1	1.46879	.001067	03/27/01 06:35:22
CR	267.716	STD7	STD1	.386051	-.001748	03/27/01 06:35:22
CU	324.753	STD7	STD1	1.56195	-.004070	03/27/01 06:35:22
FE	271.441	STD7	STD1	18.8601	.010475	03/27/01 06:35:22
MG	279.078	STD7	STD1	8.11836	.000694	03/27/01 06:35:22
MN	257.610	STD7	STD1	.515834	-.000617	03/27/01 06:35:22
MO	202.030	STD7	STD1	1.57042	-.002750	03/27/01 06:35:22
NI	231.604	STD7	STD1	1.68668	-.000288	03/27/01 06:35:22
PB/1	220.351	STD6	STD1	.197246	-.001896	03/27/01 06:35:22
PB/2	220.352	STD6	STD1	.136821	-.000485	03/27/01 06:35:22
PB	220.353	NONE	NONE	.000000	.000000	*NOT STANDARDIZED
SB/1	206.831	STD6	STD1	.144478	.000265	03/27/01 06:35:22
SB/2	206.832	STD6	STD1	.249666	-.001985	03/27/01 06:35:22
SB	220.353	NONE	NONE	.000000	.000000	*NOT STANDARDIZED
SE/1	196.021	STD6	STD1	.188841	.021578	03/27/01 06:35:22
SE/2	196.022	STD6	STD1	.323316	-.012883	03/27/01 06:35:22
SE	220.353	NONE	NONE	.000000	.000000	*NOT STANDARDIZED
TL	190.864	STD6	STD1	.534069	.013068	03/27/01 06:35:22
V	292.402	STD7	STD1	5.46242	-.000467	03/27/01 06:35:22
ZN	213.856	STD7	STD1	1.59037	.000136	03/27/01 06:35:22

Method: METTRA . Sample Name: ICV3-1 0087-168-1 Operator: RJG
 Run Time: 03/27/01 18:39:19
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Handwritten: 37801

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.50276	11.851	.25469	.98949	.99150	24.934	.24987
SDev	.00154	.003	.00297	.00954	.00781	.034	.00102
%RSD	.30586	.02182	1.1658	.96404	.78718	.13566	.40999
#1	.50385	11.850	.25679	.99623	.99702	24.910	.25060
#2	.50167	11.853	.25259	.98274	.98598	24.958	.24915
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.55000	13.750	.27500	1.1000	1.1000	27.500	.27500
Low	.45000	11.250	.22500	.90000	.90000	22.500	.22500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0235	1.0047	.97139	12.590	24.484	.99878	1.0082
SDev	.0017	.0024	.00492	.036	.190	.00187	.0040
%RSD	.16521	.23991	.50645	.28586	.77509	.18685	.39758
#1	1.0247	1.0064	.97487	12.565	24.618	1.0001	1.0110
#2	1.0223	1.0030	.96792	12.615	24.350	.99746	1.0054
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	1.1000	1.1000	13.750	27.500	1.1000	1.1000
Low	.90000	.90000	.90000	11.250	22.500	.90000	.90000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0164	.24893	.24986	.24955	.25691	.25198	.25362
SDev	.0179	.00052	.00115	.00094	.00351	.00023	.00132
%RSD	1.7629	.21036	.45932	.37662	1.3662	.09091	.52109
#1	1.0290	.24930	.25067	.25021	.25443	.25181	.25269
#2	1.0037	.24856	.24904	.24888	.25939	.25214	.25455
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	1.1000			.27500			.27500
Low	.90000			.22500			.22500
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.25935	.26114	.26055	.50295	1.0073	1.0331	
SDev	.00026	.00616	.00402	.00261	.0141	.0068	
%RSD	.10191	2.3578	1.5425	.51819	1.4037	.65936	
#1	.25917	.26550	.26339	.50111	1.0173	1.0379	
#2	.25954	.25679	.25771	.50480	.99726	1.0282	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.27500	.55000	1.1000	1.1000	
Low			.22500	.45000	.90000	.90000	

	1	2	3	4	5	6	7
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11723	--	--	--	--	--	--
SDev	3.641186	--	--	--	--	--	--
%RSD	.0310610	--	--	--	--	--	--
#1	11720	--	--	--	--	--	--
#2	11725	--	--	--	--	--	--

680 1305

Method: METTRA Sample Name: ICB1

Operator: RJG

Run Time: 03/27/01 18.43:46

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00050	-.00068	.00132	.00007	-.00051	.00190	.00003
SDev	.00034	.00897	.00037	.00005	.00041	.00403	.00012
%RSD	66.722	1309.6	28.079	70.777	79.204	212.12	369.50

#1	.00027	.00565	.00106	.00004	-.00023	-.00095	.00012
#2	.00074	-.00702	.00158	.00011	-.00080	.00475	-.00005

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00069	-.00033	.00040	.01284	.00486	.00004	.00081
SDev	.00009	.00000	.00066	.00113	.00196	.00013	.00028
%RSD	12.846	.08589	165.05	8.8314	40.418	282.39	35.241

#1	.00063	-.00033	-.00007	.01204	.00347	-.00004	.00101
#2	.00075	-.00033	.00087	.01364	.00624	.00013	.00060

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00014	.00194	.00107	.00136	.00234	-.00227	-.00074
SDev	.00143	.00140	.00174	.00069	.00161	.00160	.00053
%RSD	986.31	72.226	162.50	50.974	68.700	70.205	71.797

#1	.00115	.00095	.00230	.00185	.00348	-.00340	-.00111
#2	-.00086	.00293	-.00016	.00087	.00120	-.00114	-.00036

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00233	.00227	.00229	.00458	-.00046	.00013
SDev	.00057	.00334	.00204	.00148	.00000	.00039
%RSD	24.335	146.82	88.896	32.376	.07832	292.42

#1	.00193	.00463	.00373	.00353	-.00046	-.00014
#2	.00273	-.00009	.00085	.00563	-.00046	.00041

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			.00500	.01000	.05000	.02000
Low			-.00500	-.01000	-.05000	-.02000

680 1307

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11704	--	--	--	--	--	--
SDev	2.191755	--	--	--	--	--	--
%RSD	.0187262	--	--	--	--	--	--
#1	11706	--	--	--	--	--	--
#2	11703	--	--	--	--	--	--

680 1308

Analysis Report

QC Standard

03/27/01 05 52 35 PM

page 1

Method: METTRA Sample Name: ICSA 0087-133-5 Operator: RSG
Run Time: 03/27/01 18:48:12
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00052	532.27	.00346	.00195	-.00066	495.50	-.00631
SDev	.00029	.32	.00201	.00004	.00010	.25	.00009
%RSD	55.924	.06043	58.212	2.2060	14.991	.04963	1.3498

#1	-.00072	532.50	.00203	.00192	-.00059	495.33	-.00625
#2	-.00031	532.04	.00488	.00198	-.00073	495.68	-.00637

Errors	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK
Value		500.00				500.00	
Range		20.000				20.000	

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00076	.00290	-.00303	205.05	530.37	.00624	-.00124
SDev	.00062	.00045	.00015	.21	.42	.00001	.00071
%RSD	81.029	15.488	4.9739	.10274	.07862	.10039	57.347

#1	.00033	.00322	-.00314	204.90	530.08	.00624	-.00174
#2	.00120	.00258	-.00293	205.19	530.67	.00623	-.00074

Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	NOCHECK	NOCHECK
Value				200.00	500.00		
Range				20.000	20.000		

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00172	.01610	-.01416	-.00408	.00719	-.00310	.00033
SDev	.00175	.00212	.00084	.00015	.00115	.00440	.00332
%RSD	101.53	13.183	5.8992	3.6653	15.980	141.95	1020.2

#1	.00049	.01760	-.01475	-.00398	.00637	-.00621	-.00202
#2	.00296	.01460	-.01357	-.00419	.00800	.00001	.00267

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01204	.00368	.00646	.02457	.02003	.00125
SDev	.00018	.00359	.00246	.00164	.00485	.00006
%RSD	1.5244	97.650	38.009	6.6860	24.195	4.4522

#1	.01217	.00622	.00820	.02573	.02346	.00129
#2	.01191	.00114	.00473	.02340	.01660	.00121

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value						
Range						

680 1309

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	10915	--	--	--	--	--	--
SDev	9.970620	--	--	--	--	--	--
%RSD	.0913491	--	--	--	--	--	--
#1	10908	--	--	--	--	--	--
#2	10922	--	--	--	--	--	--

Method: METTRA Sample Name: LCSAB 0087-081-C Operator: RJG
 Run Time: 03/27/01 18:52:39
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0945	530.15	1.0345	.53157	.50456	493.11	.92615
SDev	.0001	.12	.0008	.00100	.00139	.13	.00348
%RSD	.00478	.02176	.08108	.18855	.27520	.02553	.37621
#1	1.0944	530.23	1.0351	.53228	.50554	493.02	.92861
#2	1.0945	530.07	1.0339	.53086	.50358	493.20	.92368
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.0000	500.00	1.0000	.50000	.50000	500.00	1.0000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49978	.50781	.54409	204.32	525.89	.51569	.99591
SDev	.00133	.00035	.00101	.06	1.28	.00018	.00224
%RSD	.26610	.06886	.18520	.02938	.24302	.03532	.22465
#1	.50072	.50756	.54481	204.36	526.79	.51581	.99432
#2	.49884	.50806	.54338	204.27	524.99	.51556	.99749
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.50000	.50000	.50000	200.00	500.00	.50000	1.0000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.96418	.98909	.94713	.96110	1.0410	1.0430	1.0423
SDev	.00471	.00641	.00675	.00236	.0023	.0040	.0019
%RSD	.48880	.64822	.71232	.24606	.21884	.37986	.18074
#1	.96752	.98456	.95190	.96277	1.0426	1.0402	1.0410
#2	.96085	.99363	.94236	.95943	1.0394	1.0458	1.0437
Errors	QC Pass	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	QC Pass
Value	1.0000			1.0000			1.0000
Range	20.000			20.000			20.000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	1.0345	1.0356	1.0352	1.0032	.53461	1.0446	
SDev	.0080	.0105	.0043	.0042	.00245	.0021	
%RSD	.76981	1.0121	.41910	.41711	.45821	.20387	
#1	1.0289	1.0430	1.0383	1.0061	.53634	1.0461	
#2	1.0402	1.0282	1.0322	1.0002	.53288	1.0431	
Errors	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	
Value			1.0000	1.0000	.50000	1.0000	
Range			20.000	20.000	20.000	20.000	

680 1311

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	10913	--	--	--	--	--	--
SDev	1.096568	--	--	--	--	--	--
%RSD	.0100487	--	--	--	--	--	--
#1	10913	--	--	--	--	--	--
#2	10912	--	--	--	--	--	--

Method: METTRA Sample Name: DARRH2P5 Operator: RJG
 Run Time: 03/27/01 18:59:55
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00116	1.0181	.00256	.02597	-.00093	5.9161	.00025
SDev	.00038	.0131	.00087	.00002	.00016	.0828	.00003
%RSD	33.144	1.2868	34.175	.06315	16.743	1.3999	13.928

#1	.00143	1.0089	.00318	.02596	-.00082	5.8575	.00022
#2	.00089	1.0274	.00194	.02598	-.00104	5.9747	.00027

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00091	.02906	.00613	.78493	1.2935	.02149	.00044
SDev	.00048	.00044	.00072	.00117	.0033	.00003	.00001
%RSD	53.028	1.5195	11.657	.14897	.25417	.14575	1.0340

#1	.00125	.02937	.00563	.78410	1.2911	.02147	.00043
#2	.00057	.02875	.00664	.78576	1.2958	.02152	.00044

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00328	.00750	-.00051	.00216	-.00222	.00291	.00120
SDev	.00080	.00436	.00160	.00038	.00285	.00214	.00048
%RSD	24.471	58.092	316.67	17.621	128.13	73.549	39.911

#1	.00384	.01058	-.00164	.00243	-.00423	.00442	.00154
#2	.00271	.00442	.00063	.00189	-.00021	.00140	.00086

Elem	SE/1	SE/2	SE ✓	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01108	-.00244	.00206	.00143	.00371	.12796
SDev	.00373	.00177	.00006	.00283	.00293	.00047
%RSD	33.641	72.685	2.8264	197.85	79.115	.36747

#1	.01372	-.00369	.00210	-.00057	.00578	.12763
#2	.00844	-.00119	.00202	.00343	.00163	.12830

	1	2	3	4	5	6	7
IntStd	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Mode	Y	--	--	--	--	--	--
Elem	371.030	--	--	--	--	--	--
Wavlen	11828	--	--	--	--	--	--
Avge	16.75857	--	--	--	--	--	--
SDev	.1416838	--	--	--	--	--	--
%RSD							
#1	11840	--	--	--	--	--	--
#2	11816	--	--	--	--	--	--

680 1313

Method: METTRA Sample Name: DX1A9B Operator: RJG
 Run Time: 03/27/01 19:04:53
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00052	.01340	-.00019	-.00019	.00006	.01897	.00020
SDev	.00001	.00018	.00001	.00001	.00076	.01205	.00007
%RSD	2.6095	1.3600	7.4902	5.4633	1217.7	63.487	33.699
#1	.00053	.01327	-.00021	-.00019	.00060	.01046	.00015
#2	.00051	.01352	-.00018	-.00020	-.00048	.02749	.00025
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00060	.00013	-.00024	.01367	.01594	-.00018	-.00101
SDev	.00004	.00018	.00089	.00911	.00586	.00006	.00000
%RSD	7.3229	139.80	377.26	66.607	36.765	34.942	.24628
#1	.00063	.00000	-.00087	.02011	.01180	-.00022	-.00100
#2	.00057	.00026	.00039	.00723	.02009	-.00013	-.00101
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00108	.00165	-.00092	-.00007	-.00075	.00228	.00127
SDev	.00112	.00057	.00032	.00003	.00257	.00626	.00504
%RSD	103.56	34.392	34.830	38.463	344.02	274.36	395.35
#1	.00029	.00125	-.00070	-.00005	-.00257	-.00215	-.00229
#2	.00187	.00205	-.00115	-.00008	.00107	.00671	.00483
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00299	.00431	.00387	-.00133	-.00046	.00189
SDev	.00143	.00038	.00073	.00502	.00000	.00009
%RSD	47.767	8.8797	18.894	378.69	.62916	4.7062
#1	.00198	.00404	.00335	-.00487	-.00046	.00183
#2	.00400	.00458	.00439	.00222	-.00046	.00196
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			.00500	.01000	.05000	.02000
Low			-.00500	-.01000	-.05000	-.02000

Analysis Report

03/27/01 07:00 15 P1

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IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11711	--	--	--	--	--	--
SDev	16.65292	--	--	--	--	--	--
%RSD	.1422010	--	--	--	--	--	--
#1	11699	--	--	--	--	--	--
#2	11723	--	--	--	--	--	--

Method: METTRA Sample Name: DM1A9C Operator: RJG
 Run Time: 03/27/01 19:09:19
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04892	1.7825	1.9893	1.8922	.04912	L.01139	.04907
SDev	.00047	.0102	.0020	.0042	.00004	.00406	.00018
%RSD	.96380	.57350	.10185	.22436	.08143	35.618	.36481
#1	.04925	1.7753	1.9879	1.8952	.04915	L.00852	.04895
#2	.04858	1.7898	1.9907	1.8892	.04909	L.01425	.04920
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass
High	.06000	2.4000	2.4000	2.4000	.06000	60.000	.06000
Low	.04000	1.6000	1.6000	1.6000	.04000	40.000	.04000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51912	.20154	.23631	1.0252	L.00763	.49698	L-.00114
SDev	.00066	.00028	.00032	.0028	.00589	.00028	.00151
%RSD	.12800	.14087	.13376	.26928	77.229	.05637	132.56
#1	.51959	.20133	.23654	1.0272	L.00346	.49678	L-.00007
#2	.51865	.20174	.23609	1.0233	L.01180	.49717	L-.00221
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass	LC Low
High	.60000	.24000	.30000	1.2000	60.000	.60000	1.2000
Low	.40000	.16000	.20000	.80000	40.000	.40000	.80000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50667	.49638	.49068	.49258	.00282	-.00036	L.00070
SDev	.00070	.00172	.00055	.00021	.00137	.00173	.00161
%RSD	.13884	.34700	.11140	.04243	48.691	477.33	231.05
#1	.50716	.49516	.49107	.49243	.00379	.00086	L.00184
#2	.50617	.49760	.49029	.49273	.00185	-.00159	L-.00044
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Low
High	.60000			.60000			.60000
Low	.40000			.40000			.40000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	1.9609	1.9586	1.9594	2.0009	.48064	.50870	
SDev	.0075	.0010	.0019	.0043	.00012	.00036	
%RSD	.38426	.04960	.09499	.21363	.02534	.07171	
#1	1.9556	1.9593	1.9581	2.0039	.48056	.50896	
#2	1.9663	1.9580	1.9607	1.9979	.48073	.50844	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			2.4000	2.4000	.60000	.60000	
Low			1.6000	1.6000	.40000	.40000	

680 1317

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11714	--	--	--	--	--	--
SDev	19.05666	--	--	--	--	--	--
%RSD	.1626866	--	--	--	--	--	--
#1	11727	--	--	--	--	--	--
#2	11700	--	--	--	--	--	--

Method: METTRA Sample Name: DXVXK

Operator: RJG

Run Time: 03/27/01 19.13 44

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00124	-.00940	.00024	.01287	-.00058	561.13	.00008
SDev	.00026	.01634	.00183	.00009	.00046	5.22	.00022
%RSD	21.124	173.80	764.31	.72561	79.518	.92980	284.53

#1	.00142	.00215	-.00105	.01293	-.00025	557.44	-.00008
#2	.00105	-.02096	.00153	.01280	-.00091	564.82	.00024

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00065	.00134	.00259	-.07139	15.316	.00287	-.00091
SDev	.00005	.00013	.00022	.00204	.050	.00005	.00029
%RSD	7.0777	9.5325	8.4377	2.8600	.32713	1.8294	32.192

#1	.00062	.00144	.00244	-.06995	15.352	.00283	-.00071
#2	.00069	.00125	.00275	-.07283	15.281	.00290	-.00112

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00052	.00349	-.00401	-.00151	-.00392	.00313	.00078
SDev	.00052	.00001	.00097	.00065	.00262	.00153	.00189
%RSD	100.45	.13279	24.291	42.863	66.732	48.884	241.29

#1	.00088	.00348	-.00332	-.00105	-.00207	.00422	.00212
#2	.00015	.00349	-.00469	-.00197	-.00577	.00205	-.00055

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00632	.00304	.00413	-.00041	.00448	.00173
SDev	.00346	.00260	.00059	.00524	.00236	.00000
%RSD	54.693	85.603	14.139	1265.9	52.611	.12306

#1	.00388	.00488	.00455	-.00412	.00615	.00173
#2	.00877	.00120	.00372	.00329	.00281	.00172

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

680 1319

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11549	--	--	--	--	--	--
SDev	35.53212	--	--	--	--	--	--
%RSD	.3076740	--	--	--	--	--	--
#1	11524	--	--	--	--	--	--
#2	11574	--	--	--	--	--	--

Method: METTRA Sample Name: DNVX5

Operator: RJG

Run Time: 03/27/01 19:18:09

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACE1CP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00002	-.01995	.00042	.01080	-.00093	519.01	.00014
SDev	.00065	.00056	.00177	.00007	.00008	.64	.00009
%RSD	3600.5	2.8001	422.05	.65867	8.9730	.12295	61.669
#1	.00048	-.01956	.00168	.01085	-.00087	519.47	.00020
#2	-.00044	-.02035	-.00083	.01075	-.00099	518.56	.00008
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00013	.00054	.00338	-.03804	18.841	.00262	-.00106
SDev	.00027	.00009	.00060	.00477	.038	.00014	.00048
%RSD	204.79	15.821	17.636	12.536	.20139	5.2297	45.492
#1	-.00033	.00048	.00380	-.04142	18.868	.00272	-.00072
#2	.00006	.00060	.00296	-.03467	18.814	.00252	-.00140
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00044	-.00096	.00165	.00078	.00214	-.00108	-.00001
SDev	.00103	.00242	.00194	.00049	.00098	.00209	.00106
%RSD	234.29	251.83	117.43	62.172	45.987	192.46	10736.
#1	.00116	.00075	.00028	.00044	.00145	.00039	.00074
#2	-.00029	-.00268	.00302	.00112	.00284	-.00256	-.00076
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00365	.00221	.00269	-.00219	.00140	.00191	
SDev	.00350	.00301	.00084	.00294	.00067	.00019	
%RSD	96.132	136.12	31.314	134.63	47.798	9.9936	
#1	.00612	.00008	.00209	-.00427	.00187	.00178	
#2	.00117	.00434	.00329	-.00010	.00093	.00205	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

680 1321

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11637	--	--	--	--	--	--
SDev	41.71930	--	--	--	--	--	--
%RSD	.3585041	--	--	--	--	--	--
#1	11608	--	--	--	--	--	--
#2	11667	--	--	--	--	--	--

Method: METTRA Sample Name: DIIWV0 Operator: RJG
 Run Time: 03/27/01 19:22:34
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00021	1.6705	-.00010	.03367	-.00009	20.258	.00142
SDev	.00048	.0005	.00100	.00010	.00002	.034	.00002
%RSD	228.41	.02904	1047.7	.28441	20.280	.16916	1.4516
#1	-.00013	1.6701	.00061	.03374	-.00008	20.234	.00141
#2	.00055	1.6708	-.00080	.03361	-.00011	20.282	.00144
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02736	.00093	.24832	.54869	5.2736	1.0240	-.00137
SDev	.00032	.00006	.00066	.00807	.0125	.0011	.00076
%RSD	1.1794	6.6846	.26720	1.4715	.23655	.11217	55.612
#1	.02713	.00097	.24879	.55440	5.2824	1.0248	-.00083
#2	.02759	.00088	.24785	.54298	5.2648	1.0232	-.00191
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00861	.00343	.00135	.00204	-.00071	-.00158	-.00129
SDev	.00018	.00015	.00371	.00253	.00008	.00038	.00028
%RSD	2.0901	4.3037	275.66	123.89	10.798	24.281	21.828
#1	.00874	.00353	.00397	.00383	-.00065	-.00131	-.00109
#2	.00849	.00332	-.00128	.00025	-.00076	-.00186	-.00149
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00266	.00555	.00459	.00201	.00117	.83291	
SDev	.00203	.00331	.00154	.00158	.00029	.00008	
%RSD	76.249	59.723	33.494	78.220	25.051	.00965	
#1	.00122	.00789	.00567	.00090	.00096	.83297	
#2	.00409	.00321	.00350	.00313	.00137	.83285	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

680 1323

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13100	--	--	--	--	--	--
SDev	2.757993	--	--	--	--	--	--
%RSD	.0210534	--	--	--	--	--	--
#1	13102	--	--	--	--	--	--
#2	13098	--	--	--	--	--	--

Method: METTRA Sample Name: DXVV0P5 Operator: RJG
 Run Time: 03/27/01 19:26:59
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00037	.32812	-.00048	.00697	-.00072	4.3759	.00030
SDev	.00022	.01168	.00005	.00008	.00006	.0189	.00000
%RSD	59.771	3.5585	11.347	1.1194	8.9407	.43099	.06644
#1	.00053	.31987	-.00044	.00691	-.00067	4.3626	.00030
#2	.00021	.33638	-.00052	.00702	-.00076	4.3893	.00030
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00533	.00003	.05290	.12521	1.1286	.22129	-.00151
SDev	.00000	.00025	.00030	.00005	.0014	.00005	.00064
%RSD	.03633	814.26	.56813	.04021	.12325	.02276	42.626
#1	.00533	-.00014	.05311	.12525	1.1276	.22125	-.00106
#2	.00533	.00021	.05269	.12517	1.1296	.22132	-.00197
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00083	.00394	.00111	.00206	.00159	-.00084	-.00003
SDev	.00000	.00000	.00047	.00032	.00120	.00005	.00043
%RSD	.06108	.05406	42.599	15.422	75.361	6.3863	1561.4
#1	.00083	.00394	.00078	.00183	.00244	-.00080	.00028
#2	.00083	.00394	.00145	.00228	.00074	-.00087	-.00034
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00386	.00691	.00590	-.00096	.00093	.18106	
SDev	.00038	.00037	.00038	.00073	.00000	.00017	
%RSD	9.9653	5.3526	6.3578	75.456	.06798	.09689	
#1	.00359	.00665	.00563	-.00148	.00093	.18118	
#2	.00413	.00717	.00616	-.00045	.00093	.18094	

680 1325

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	12063	--	--	--	--	--	--
SDev	5.480078	--	--	--	--	--	--
%RSD	.0454274	--	--	--	--	--	--
#1	12060	--	--	--	--	--	--
#2	12067	--	--	--	--	--	--

Method: METRA Sample Name: DXVVO5 Operator: RJG
 Run Time: 03/27/01 19:31:24
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04446	3.3215	1.7953	1.7625	.04592	19.966	.04578
SDev	.00028	.0050	.0023	.0009	.00010	.042	.00017
%RSD	.63020	.15015	.13055	.05309	.22272	.21026	.36977
#1	.04466	3.3180	1.7970	1.7631	.04599	19.937	.04590
#2	.04426	3.3251	1.7936	1.7618	.04584	19.996	.04566
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.50187	.18457	.46452	1.4572	5.2162	1.4665	-.00130
SDev	.00025	.00008	.00015	.0076	.0011	.0010	.00017
%RSD	.04930	.04114	.03266	.52498	.02145	.06870	13.342
#1	.50169	.18462	.46441	1.4517	5.2170	1.4658	-.00143
#2	.50204	.18451	.46462	1.4626	5.2155	1.4672	-.00118
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.47040	.45741	.45199	.45379	-.00053	-.00417	-.00296
SDev	.00095	.00034	.00004	.00014	.00017	.00035	.00029
%RSD	.20151	.07541	.00885	.03119	32.009	8.4615	9.8662
#1	.46973	.45716	.45196	.45369	-.00065	-.00442	-.00317
#2	.47107	.45765	.45201	.45389	-.00041	-.00392	-.00275
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	1.7558	1.7558	1.7558	1.8019	.43910	1.2637	
SDev	.0045	.0054	.0051	.0099	.00017	.0009	
%RSD	.25859	.30716	.29098	.54865	.03844	.07375	
#1	1.7525	1.7519	1.7522	1.7949	.43898	1.2643	
#2	1.7590	1.7596	1.7594	1.8089	.43922	1.2630	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

03/27/01 07:35:46 PM

page 2

	1	2	3	4	5	6	7
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13031	--	--	--	--	--	--
SDev	31.32469	--	--	--	--	--	--
%RSD	.2403896	--	--	--	--	--	--
680 1327							
#1	13053	--	--	--	--	--	--
#2	13009	--	--	--	--	--	--

Method: METTRA . Sample Name CCV3-1 0087-159-1 Operator: JCG
 Run Time: 03/27/01 19 35.50
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem Units	AG ppm	AL ppm	AS ppm	BA ppm	BE ppm	CA ppm	CD ppm
Avge	1.0284	24.417	.52092	1.9781	2.0572	51.750	.50198
SDev	.0122	.320	.00385	.0226	.0257	.686	.00701
%RSD	1.1859	1.3121	.73978	1.1407	1.2474	1.3255	1.3963
#1	1.0371	24.644	.52364	1.9941	2.0754	52.235	.50694
#2	1.0198	24.191	.51819	1.9622	2.0391	51.265	.49703
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	55.000	.55000
Low	.90000	22.500	.45000	1.8000	1.8000	45.000	.45000
Elem Units	CO ppm	CR ppm	CU ppm	FE ppm	MG ppm	MN ppm	MO ppm
Avge	2.0779	2.0553	1.9529	25.488	49.861	2.0366	2.0421
SDev	.0278	.0261	.0223	.303	.692	.0258	.0229
%RSD	1.3387	1.2681	1.1438	1.1880	1.3876	1.2647	1.1230
#1	2.0976	2.0737	1.9687	25.702	50.351	2.0548	2.0583
#2	2.0582	2.0368	1.9371	25.274	49.372	2.0184	2.0259
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	27.500	55.000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	22.500	45.000	1.8000	1.8000
Elem Units	NI ppm	PB/1 ppm	PB/2 ppm	PB ppm	SB/1 ppm	SB/2 ppm	SB ppm
Avge	2.0249	.50984	.50650	.50761	.51395	.50811	.51006
SDev	.0303	.00734	.01155	.01015	.01248	.00185	.00539
%RSD	1.4955	1.4387	2.2801	1.9987	2.4275	.36334	1.0559
#1	2.0463	.51503	.51466	.51478	.52277	.50942	.51386
#2	2.0034	.50466	.49833	.50044	.50513	.50681	.50625
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000			.55000			.55000
Low	1.8000			.45000			.45000
Elem Units	SE/1 ppm	SE/2 ppm	SE ppm	TL ppm	V_ ppm	ZN ppm	
Avge	.52100	.52078	.52085	1.0304	1.9944	2.0445	
SDev	.00635	.00696	.00676	.0220	.0258	.0271	
%RSD	1.2181	1.3375	1.2977	2.1332	1.2915	1.3243	
#1	.52549	.52571	.52563	1.0459	2.0126	2.0636	
#2	.51651	.51586	.51607	1.0149	1.9762	2.0253	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.55000	1.1000	2.2000	2.2000	
Low			.45000	.90000	1.8000	1.8000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11715	--	--	--	--	--	--
SDev	122.1527	--	--	--	--	--	--
%RSD	1.042697	--	--	--	--	--	--
#1	11629	--	--	--	--	--	--
#2	11801	--	--	--	--	--	--

Method: METTRA Sample Name: CCB1

Operator: RJG

Run Time: 03/27/01 19:40:15

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00054	-.02090	.00098	.00017	-.00061	.01224	.00012
SDev	.00025	.00045	.00068	.00019	.00006	.00804	.00011
%RSD	46.925	2.1608	69.512	111.84	10.332	65.689	96.301
#1	.00072	-.02122	.00050	.00004	-.00065	.00656	.00004
#2	.00036	-.02058	.00145	.00030	-.00056	.01793	.00019
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00079	-.00003	.00054	.00641	.00621	.00015	.00125
SDev	.00004	.00007	.00062	.00341	.00196	.00028	.00037
%RSD	5.5545	255.63	114.12	53.146	31.539	186.63	29.635
#1	.00076	.00002	.00010	.00882	.00483	-.00005	.00151
#2	.00082	-.00007	.00098	.00400	.00760	.00035	.00099
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00057	-.00159	.00063	-.00011	.00361	.00095	.00184
SDev	.00061	.00349	.00014	.00107	.00095	.00219	.00114
%RSD	106.40	219.29	22.338	986.51	26.383	229.65	62.171
#1	.00014	.00088	.00053	.00065	.00294	.00250	.00265
#2	.00100	-.00406	.00073	-.00086	.00428	-.00059	.00103
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00354	.00189	.00244	-.00011	-.00046	.00003	
SDev	.00159	.00184	.00070	.00033	.00000	.00005	
%RSD	44.985	97.318	28.583	300.48	.23421	144.79	
#1	.00242	.00319	.00294	-.00035	-.00046	-.00000	
#2	.00467	.00059	.00195	.00012	-.00047	.00006	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

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IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11773	--	--	--	--	--	--
SDev	18.80876	--	--	--	--	--	--
%RSD	.1597598	--	--	--	--	--	--
#1	11786	--	--	--	--	--	--
#2	11760	--	--	--	--	--	--

Method: METTRA Sample Name: DXVV0D Operator: RJG
 Run Time: 03/27/01 19:44:41
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04477	3.3667	1.8092	1.7801	.04625	20.018	.04603
SDev	.00013	.0022	.0030	.0016	.00005	.016	.00006
%RSD	.27838	.06456	.16355	.09148	.10798	.08176	.11852
#1	.04486	3.3682	1.8071	1.7813	.04629	20.006	.04607
#2	.04468	3.3651	1.8113	1.7790	.04622	20.029	.04599
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.50476	.18585	.46923	1.4505	5.2352	1.4731	-.00118
SDev	.00015	.00005	.00089	.0147	.0017	.0002	.00034
%RSD	.03016	.02802	.18914	1.0116	.03310	.01277	29.075
#1	.50487	.18589	.46860	1.4401	5.2365	1.4733	-.00094
#2	.50465	.18581	.46986	1.4609	5.2340	1.4730	-.00142
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.47366	.45883	.45202	.45429	-.00118	-.00313	-.00248
SDev	.00156	.00211	.00261	.00104	.00036	.00195	.00142
%RSD	.33029	.45944	.57658	.22813	30.540	62.319	57.275
#1	.47476	.46032	.45018	.45356	-.00144	-.00451	-.00349
#2	.47255	.45734	.45387	.45502	-.00093	-.00175	-.00148
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	1.7722	1.7705	1.7711	1.8141	.44146	1.2716	
SDev	.0030	.0015	.0000	.0127	.00022	.0011	
%RSD	.16941	.08716	.00167	.69969	.04908	.08656	
#1	1.7701	1.7716	1.7711	1.8052	.44161	1.2724	
#2	1.7744	1.7694	1.7710	1.8231	.44131	1.2708	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13011	--	--	--	--	--	--
SDev	15.27323	--	--	--	--	--	--
%RSD	.1173898	--	--	--	--	--	--
#1	13000	--	--	--	--	--	--
#2	13022	--	--	--	--	--	--

Method: METTRA Sample Name: DXVWF

Operator: RJG

Run Time: 03/27/01 19:49:07

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00060	.01642	-.00059	.03608	-.00090	52.828	.00015
SDev	.00017	.00986	.00141	.00012	.00001	.052	.00009
%RSD	29.065	60.058	237.14	.33215	.62697	.09755	57.551
#1	.00072	.02339	-.00159	.03617	-.00089	52.792	.00009
#2	.00047	.00945	.00040	.03600	-.00090	52.865	.00021
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00172	.00083	.00603	.64791	8.5563	1.5781	-.00128
SDev	.00057	.00021	.00032	.03086	.0081	.0002	.00019
%RSD	33.261	25.239	5.3628	4.7633	.09499	.01305	14.611
#1	.00132	.00098	.00580	.66974	8.5620	1.5780	-.00142
#2	.00213	.00068	.00626	.62609	8.5505	1.5783	-.00115
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00071	.00234	-.00002	.00076	.00007	-.00156	-.00102
SDev	.00040	.00209	.00198	.00201	.00247	.00009	.00089
%RSD	56.629	89.413	8588.1	264.14	3606.0	6.0479	87.271
#1	.00043	.00086	-.00142	-.00066	-.00168	-.00162	-.00164
#2	.00100	.00381	.00137	.00219	.00182	-.00149	-.00039
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00490	.00684	.00620	.00240	.00090	.04932	
SDev	.00162	.00365	.00297	.00113	.00099	.00031	
%RSD	32.964	53.296	47.937	47.212	110.52	.63636	
#1	.00376	.00426	.00410	.00160	.00160	.04910	
#2	.00605	.00942	.00830	.00320	.00020	.04955	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11791	--	--	--	--	--	--
SDev	5.161741	--	--	--	--	--	--
%RSD	.0437786	--	--	--	--	--	--
#1	11787	--	--	--	--	--	--
#2	11794	--	--	--	--	--	--

Method: METTRA Sample Name: DXVV0F Operator: RJG
 Run Time: 03/27/01 19:53:33
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00028	1.6598	.00046	.03394	-.00013	20.248	.00140
SDev	.00014	.0329	.00072	.00052	.00007	.223	.00013
%RSD	51.535	1.9792	158.29	1.5219	53.850	1.1002	9.2371
#1	.00018	1.6366	-.00005	.03358	-.00008	20.090	.00149
#2	.00038	1.6830	.00097	.03431	-.00018	20.405	.00131
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02746	.00034	.25020	.50788	5.2715	1.0241	-.00131
SDev	.00084	.00066	.00239	.00213	.0364	.0091	.00016
%RSD	3.0396	193.47	.95482	.41967	.69089	.88835	12.270
#1	.02687	-.00013	.24851	.50939	5.2458	1.0176	-.00120
#2	.02805	.00081	.25189	.50638	5.2973	1.0305	-.00142
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00784	.00121	.00054	.00076	.00100	-.00196	-.00098
SDev	.00086	.00324	.00003	.00109	.00128	.00200	.00091
%RSD	10.980	267.17	4.7359	143.48	129.08	102.03	92.860
#1	.00845	-.00108	.00052	-.00001	.00190	-.00338	-.00162
#2	.00723	.00350	.00056	.00154	.00009	-.00055	-.00034
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00254	.00388	.00343	-.00161	.00032	.84009	
SDev	.00545	.00072	.00133	.00406	.00089	.00593	
%RSD	214.15	18.579	38.871	251.77	274.22	.70542	
#1	-.00131	.00439	.00249	.00126	-.00030	.83590	
#2	.00640	.00337	.00438	-.00448	.00095	.84428	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

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IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13094	--	--	--	--	--	--
SDev	79.58473	--	--	--	--	--	--
%RSD	.6077989	--	--	--	--	--	--
#1	13150	--	--	--	--	--	--
#2	13038	--	--	--	--	--	--

Method: METTRA Sample Name: DXVV0P5F Operator: RJG
 Run Time: 03/27/01 19:58:00
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00004	.33953	-.00049	.00725	-.00079	4.4027	.00035
SDev	.00020	.00205	.00203	.00013	.00001	.0080	.00015
%RSD	517.97	.60327	415.11	1.7402	.87065	.18263	43.390
#1	-.00018	.34098	-.00192	.00716	-.00079	4.4084	.00024
#2	.00010	.33809	.00095	.00734	-.00078	4.3970	.00046

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00646	.00003	.05389	.12913	1.1416	.22321	-.00163
SDev	.00017	.00032	.00001	.03106	.0015	.00021	.00009
%RSD	2.6061	1148.0	.01444	24.051	.13497	.09328	5.6095
#1	.00635	-.00020	.05389	.10717	1.1427	.22336	-.00170
#2	.00658	.00025	.05388	.15109	1.1405	.22306	-.00157

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00098	-.00038	.00046	.00018	.00295	-.00283	-.00091
SDev	.00000	.00216	.00040	.00045	.00094	.00511	.00310
%RSD	.10939	563.88	87.759	253.70	31.831	180.56	342.19
#1	.00098	.00114	.00017	.00050	.00362	-.00645	-.00310
#2	.00098	-.00191	.00074	-.00014	.00229	.00078	.00129

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00245	-.00124	-.00001	-.00027	.00049	.18472
SDev	.00291	.00204	.00233	.00086	.00065	.00069
%RSD	118.78	165.09	21587.	320.31	134.48	.37461
#1	.00450	.00021	.00164	-.00088	.00002	.18521
#2	.00039	-.00268	-.00166	.00034	.00095	.18423

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11973	--	--	--	--	--	--
SDev	11.13693	--	--	--	--	--	--
%RSD	.0930207	--	--	--	--	--	--
#1	11965	--	--	--	--	--	--
#2	11980	--	--	--	--	--	--

Method: METTRA Sample Name: DXVV0SF Operator: RJG
 Run Time: 03/27/01 20:02:26
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04498	3.3408	1.8026	1.7682	.04592	20.157	.04570
SDev	.00013	.0045	.0043	.0029	.00008	.020	.00035
%RSD	.29645	.13430	.23741	.16209	.17376	.09976	.76084

#1	.04489	3.3440	1.8057	1.7702	.04597	20.143	.04546
#2	.04508	3.3376	1.7996	1.7662	.04586	20.171	.04595

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.50062	.18376	.46853	1.4262	5.2688	1.4745	-.00094
SDev	.00010	.00041	.00012	.0045	.0085	.0004	.00017
%RSD	.02020	.22356	.02643	.31844	.16185	.02585	18.168

#1	.50069	.18405	.46861	1.4230	5.2628	1.4742	-.00082
#2	.50055	.18347	.46844	1.4294	5.2748	1.4747	-.00106

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.47143	.45861	.44860	.45193	-.00113	-.00233	-.00193
SDev	.00005	.00319	.00001	.00105	.00211	.00080	.00017
%RSD	.01120	.69517	.00249	.23326	186.94	34.330	8.8141

#1	.47147	.45636	.44860	.45119	-.00262	-.00176	-.00205
#2	.47139	.46087	.44859	.45268	.00036	-.00289	-.00181

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.7777	1.7667	1.7704	1.7965	.43703	1.2758
SDev	.0009	.0071	.0051	.0148	.00166	.0011
%RSD	.04999	.40432	.28584	.82501	.37988	.08541

#1	1.7771	1.7616	1.7668	1.7860	.43820	1.2751
#2	1.7783	1.7717	1.7739	1.8069	.43585	1.2766

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	12999	--	--	--	--	--	--
SDev	3.605968	--	--	--	--	--	--
%RSD	.0277410	--	--	--	--	--	--
#1	13001	--	--	--	--	--	--
#2	12996	--	--	--	--	--	--

Method: METTRA Sample Name: DXVV0DF Operator: RJG
 Run Time: 03/27/01 20:06:52
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04510	3.3318	1.7840	1.7639	.04578	20.102	.04519
SDev	.00011	.0023	.0025	.0027	.00010	.067	.00038
%RSD	.23908	.06767	.13736	.15244	.22252	.33290	.83301
#1	.04518	3.3302	1.7823	1.7620	.04571	20.054	.04492
#2	.04503	3.3334	1.7857	1.7658	.04585	20.149	.04545
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49940	.18334	.46666	1.4139	5.2566	1.4713	-.00106
SDev	.00164	.00027	.00077	.0260	.0006	.0029	.00034
%RSD	.32800	.14811	.16595	1.8379	.01091	.19544	32.147
#1	.49824	.18315	.46611	1.4323	5.2570	1.4693	-.00082
#2	.50055	.18353	.46720	1.3955	5.2562	1.4734	-.00130
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.46781	.45476	.44917	.45103	.00176	-.00148	-.00040
SDev	.00120	.00059	.00195	.00111	.00296	.00379	.00351
%RSD	.25717	.12906	.43419	.24507	168.39	255.59	870.38
#1	.46866	.45518	.44779	.45025	.00385	.00120	.00208
#2	.46696	.45435	.45055	.45181	-.00034	-.00416	-.00289
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	1.7529	1.7489	1.7502	1.7928	.43679	1.2673	
SDev	.0012	.0127	.0081	.0007	.00036	.0011	
%RSD	.06862	.72763	.46208	.04171	.08162	.08777	
#1	1.7537	1.7399	1.7445	1.7922	.43704	1.2665	
#2	1.7520	1.7579	1.7560	1.7933	.43654	1.2681	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13006	--	--	--	--	--	--
SDev	7.318279	--	--	--	--	--	--
%RSD	.0562703	--	--	--	--	--	--
#1	13011	--	--	--	--	--	--
#2	13000	--	--	--	--	--	--

Method: METTRA Sample Name: DXVWFF

Operator: RJG

Run Time: 03/27/01 20:11:17

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00059	-.00251	.00120	.03416	-.00093	52.853	.00020
SDev	.00045	.00046	.00100	.00036	.00005	.098	.00010
%RSD	77.301	18.135	83.613	1.0500	4.9227	.18489	49.460

#1	.00091	-.00219	.00049	.03391	-.00090	52.784	.00027
#2	.00027	-.00283	.00191	.03442	-.00097	52.923	.00013

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00194	.00060	.00326	.27014	8.5771	1.5731	-.00055
SDev	.00000	.00040	.00023	.01335	.0067	.0002	.00047
%RSD	.04683	65.804	6.9547	4.9420	.07806	.01422	85.751

#1	.00194	.00032	.00343	.27958	8.5818	1.5732	-.00022
#2	.00194	.00088	.00310	.26070	8.5724	1.5729	-.00088

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00057	.00318	-.00223	-.00043	.00097	-.00348	-.00200
SDev	.00243	.00067	.00026	.00005	.00319	.00252	.00274
%RSD	423.54	21.068	11.527	12.154	330.68	72.286	137.13

#1	-.00115	.00271	-.00205	-.00046	.00322	-.00170	-.00006
#2	.00230	.00365	-.00241	-.00039	-.00129	-.00526	-.00394

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00115	.00878	.00547	.00115	.00078	.02741
SDev	.00033	.00111	.00085	.00081	.00032	.00008
%RSD	28.584	12.633	15.510	70.994	41.681	.28250

#1	-.00092	.00956	.00607	.00057	.00055	.02746
#2	-.00138	.00799	.00487	.00172	.00101	.02735

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11765	--	--	--	--	--	--
SDev	12.23350	--	--	--	--	--	--
%RSD	.1039804	--	--	--	--	--	--
#1	11774	--	--	--	--	--	--
#2	11757	--	--	--	--	--	--

Method: METTRA Sample Name: CCV3-2

Operator: RJG

Run Time: 03/27/01 20:15:43

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0295	24.397	.51268	1.9787	2.0473	51.353	.49697
SDev	.0006	.030	.00086	.0031	.0002	.056	.00112
%RSD	.06287	.12332	.16709	.15591	.01150	.10994	.22510
#1	1.0300	24.375	.51207	1.9766	2.0471	51.313	.49776
#2	1.0291	24.418	.51328	1.9809	2.0474	51.392	.49618
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	55.000	.55000
Low	.90000	22.500	.45000	1.8000	1.8000	45.000	.45000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0693	2.0452	1.9514	25.381	49.569	2.0245	2.0347
SDev	.0008	.0009	.0006	.013	.098	.0005	.0032
%RSD	.03849	.04574	.03262	.05026	.19795	.02541	.15952
#1	2.0687	2.0445	1.9509	25.372	49.638	2.0249	2.0324
#2	2.0699	2.0458	1.9518	25.390	49.500	2.0242	2.0370
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	27.500	55.000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	22.500	45.000	1.8000	1.8000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0119	.50852	.50219	.50430	.51368	.51100	.51189
SDev	.0062	.00406	.00154	.00238	.00115	.00781	.00559
%RSD	.31012	.79858	.30615	.47150	.22348	1.5289	1.0927
#1	2.0164	.51140	.50328	.50598	.51449	.51653	.51585
#2	2.0075	.50565	.50110	.50262	.51287	.50548	.50794
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000			.55000			.55000
Low	1.8000			.45000			.45000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.51718	.51724	.51722	1.0152	1.9842	2.0321	
SDev	.00506	.00234	.00012	.0062	.0011	.0026	
%RSD	.97888	.45266	.02401	.61510	.05322	.12573	
#1	.52076	.51559	.51731	1.0107	1.9850	2.0339	
#2	.51360	.51890	.51713	1.0196	1.9835	2.0303	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.55000	1.1000	2.2000	2.2000	
Low			.45000	.90000	1.8000	1.8000	

680 1347

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11705	--	--	--	--	--	--
SDev	23.86485	--	--	--	--	--	--
%RSD	.2038838	--	--	--	--	--	--
#1	11688	--	--	--	--	--	--
#2	11722	--	--	--	--	--	--

Method: METTRA Sample Name: CCB2

Operator: RJG

Run Time: 03/27/01 20:20:08

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00083	-.02054	-.00086	.00006	-.00070	.00658	.00032
SDev	.00008	.00824	.00058	.00026	.00007	.00525	.00014
%RSD	9.2178	40.124	66.977	451.60	9.5190	79.795	43.640
#1	.00078	-.01471	-.00045	-.00013	-.00074	.00287	.00022
#2	.00089	-.02636	-.00127	.00024	-.00065	.01030	.00042
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00038	-.00005	.00072	.00322	.00622	.00013	.00053
SDev	.00054	.00001	.00015	.01021	.00004	.00018	.00031
%RSD	142.23	18.932	21.133	317.24	.67625	139.92	58.491
#1	-.00000	-.00006	.00061	.01044	.00625	.00000	.00075
#2	.00076	-.00005	.00082	-.00400	.00619	.00026	.00031
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00000	-.00026	-.00003	-.00011	.00114	-.00154	-.00064
SDev	.00040	.00016	.00093	.00056	.00164	.00152	.00156
%RSD	19809.	61.324	3039.1	522.90	143.57	99.155	242.51
#1	-.00029	-.00015	-.00069	-.00051	.00230	-.00046	.00046
#2	.00028	-.00038	.00062	.00029	-.00002	-.00262	-.00175
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00023	-.00090	-.00053	-.00050	.00419	.00027	
SDev	.00134	.00594	.00352	.00184	.00004	.00009	
%RSD	592.64	659.49	669.06	368.10	.92378	34.722	
#1	.00117	-.00510	-.00301	-.00180	.00421	.00020	
#2	-.00072	.00330	.00196	.00080	.00416	.00034	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

680 1349

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11743	--	--	--	--	--	--
SDev	89.37857	--	--	--	--	--	--
%RSD	.7610930	--	--	--	--	--	--
#1	11680	--	--	--	--	--	--
#2	11807	--	--	--	--	--	--

Method: METTRA Sample Name: DXTHWB Operator: RJG
 Run Time: 03/27/01 20:24:33
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00037	-.03020	-.00009	-.00008	-.00089	.01392	-.00004
SDev	.00033	.00146	.00101	.00003	.00012	.00269	.00014
%RSD	89.286	4.8447	1067.8	40.859	13.124	19.326	404.43
#1	.00060	-.03123	-.00081	-.00010	-.00081	.01201	.00007
#2	.00014	-.02916	.00062	-.00005	-.00098	.01582	-.00014
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00066	-.00017	.00066	.00486	.00103	-.00001	-.00103
SDev	.00048	.00030	.00001	.01015	.00241	.00006	.00093
%RSD	72.369	170.31	1.6095	208.90	233.64	646.10	89.871
#1	.00101	.00004	.00065	-.00232	.00274	-.00005	-.00038
#2	.00032	-.00038	.00066	.01204	-.00067	.00003	-.00169
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00106	-.00188	.00174	.00053	.00265	-.00267	-.00090
SDev	.00050	.00009	.00040	.00030	.00169	.00464	.00253
%RSD	47.549	4.8477	23.134	56.096	63.677	173.50	281.22
#1	.00070	-.00194	.00145	.00032	.00384	-.00595	-.00269
#2	.00142	-.00182	.00202	.00074	.00146	.00061	.00089
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V__	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00684	.00170	.00341	.00336	.00206	.00087	
SDev	.00044	.00040	.00012	.00020	.00356	.00009	
%RSD	6.3616	23.555	3.5869	6.0809	173.27	10.693	
#1	.00715	.00142	.00333	.00351	.00458	.00080	
#2	.00654	.00199	.00350	.00322	-.00046	.00093	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11895	--	--	--	--	--	--
SDev	26.62285	--	--	--	--	--	--
%RSD	.2238234	--	--	--	--	--	--
#1	11913	--	--	--	--	--	--
#2	11876	--	--	--	--	--	--

Method: METTRA Sample Name: DXTHWC

Operator: RJG

Run Time: 03/27/01 20:28:59

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem Units	AG ppm	AL ppm	AS ppm	BA ppm	BE ppm	CA ppm	CD ppm
Avge	L-.00018	L-.02655	L.00040	L-.00003	L-.00092	49.559	L.00020
SDev	.00066	.00203	.00050	.00007	.00006	.440	.00020
%RSD	369.10	7.6360	122.67	221.34	6.5515	.88857	98.391
#1	L-.00064	L-.02798	L.00005	L-.00008	L-.00088	49.247	L.00006
#2	L.00029	L-.02512	L.00076	L.00002	L-.00096	49.870	L.00034
Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Pass	LC Low
High	.06000	2.4000	2.4000	2.4000	.06000	60.000	.06000
Low	.04000	1.6000	1.6000	1.6000	.04000	40.000	.04000
Elem Units	CO ppm	CR ppm	CU ppm	FE ppm	MG ppm	MN ppm	MO ppm
Avge	L.00060	L-.00029	L.00196	L-.17706	48.298	L.00088	L-.00249
SDev	.00013	.00019	.00013	.01783	.330	.00010	.00018
%RSD	22.076	65.781	6.5431	10.070	.68252	11.477	7.4290
#1	L.00070	L-.00043	L.00187	L-.16445	48.065	L.00081	L-.00236
#2	L.00051	L-.00016	L.00205	L-.18967	48.531	L.00095	L-.00262
Errors	LC Low	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Low
High	.60000	.24000	.30000	1.2000	60.000	.60000	1.2000
Low	.40000	.16000	.20000	.80000	40.000	.40000	.80000
Elem Units	NI ppm	PB/1 ppm	PB/2 ppm	PB ppm	SB/1 ppm	SB/2 ppm	SB ppm
Avge	L-.00050	.00049	.00237	L.00174	.00408	-.00429	L-.00150
SDev	.00090	.00133	.00003	.00043	.00152	.00359	.00290
%RSD	180.83	273.02	1.0968	24.421	37.222	83.621	192.98
#1	L-.00113	.00143	.00235	L.00205	.00515	-.00175	L.00055
#2	L.00014	-.00045	.00239	L.00144	.00301	-.00682	L-.00355
Errors	LC Low	NOCHECK	NOCHECK	LC Low	NOCHECK	NOCHECK	LC Low
High	.60000			.60000			.60000
Low	.40000			.40000			.40000
Elem Units	SE/1 ppm	SE/2 ppm	SE ppm	TL ppm	V_ ppm	ZN ppm	
Avge	.00797	.00023	L.00281	L.00191	L.00704	L.00156	
SDev	.00118	.00124	.00044	.00177	.00036	.00001	
%RSD	14.758	540.72	15.527	92.596	5.1542	.38143	
#1	.00881	-.00065	L.00250	L.00066	L.00678	L.00156	
#2	.00714	.00111	L.00312	L.00317	L.00729	L.00156	
Errors	NOCHECK	NOCHECK	LC Low	LC Low	LC Low	LC Low	
High			2.4000	2.4000	.60000	.60000	
Low			1.6000	1.6000	.40000	.40000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11921	--	--	--	--	--	--
SDev	70.07400	--	--	--	--	--	--
%RSD	.5878124	--	--	--	--	--	--
#1	11971	--	--	--	--	--	--
#2	11872	--	--	--	--	--	--

Method: METTRA Sample Name: DXN8E Operator: RJG
 Run Time: 03/27/01 20:33:24
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00051	-.00417	.00243	.02121	-.00103	138.08	-.00006
SDev	.00013	.00312	.00036	.00004	.00010	.32	.00006
%RSD	25.814	74.722	15.007	.20107	9.9319	.23074	90.372

#1	.00042	-.00638	.00269	.02118	-.00096	137.85	-.00010
#2	.00060	-.00197	.00217	.02124	-.00110	138.30	-.00002

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00488	.00100	.00142	3.3529	114.72	.18827	.00034
SDev	.00026	.00025	.00084	.0051	.11	.00029	.00010
%RSD	5.3899	25.242	58.722	.15081	.09966	.15285	27.863

#1	.00469	.00082	.00083	3.3565	114.80	.18807	.00027
#2	.00506	.00118	.00201	3.3493	114.64	.18848	.00041

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00219	.00097	-.00156	-.00072	.00069	-.00348	-.00209
SDev	.00090	.00242	.00115	.00004	.00180	.00006	.00056
%RSD	41.041	249.47	73.692	5.3979	259.85	1.6492	26.895

#1	.00282	-.00074	-.00075	-.00074	.00197	-.00352	-.00169
#2	.00155	.00268	-.00237	-.00069	-.00058	-.00344	-.00249

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01521	-.00103	.00438	.00192	.00586	.00250
SDev	.00353	.00030	.00097	.00353	.00162	.00005
%RSD	23.203	29.398	22.235	183.57	27.593	2.1422

#1	.01271	-.00081	.00369	-.00057	.00472	.00246
#2	.01770	-.00124	.00507	.00442	.00701	.00254

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11945	--	--	--	--	--	--
SDev	6.611172	--	--	--	--	--	--
%RSD	.0553476	--	--	--	--	--	--
#1	11950	--	--	--	--	--	--
#2	11940	--	--	--	--	--	--

Analysis Report

680 1356

03/27/01 08:42:12 PM

page 1

Method: METTRA Sample Name: DXN8EP5 Operator: RJG
 Run Time: 03/27/01 20:37:50
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00021	-.02101	.00068	.00401	-.00106	27.530	.00019
SDev	.00066	.00926	.00058	.00002	.00006	.042	.00020
%RSD	305.83	44.063	84.824	.59272	5 2823	.15405	107.18

#1	.00025	-.01447	.00109	.00403	-.00102	27.500	.00033
#2	-.00068	-.02756	.00027	.00400	-.00110	27.560	.00005

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00104	.00001	.00080	.61360	22.007	.03726	-.00098
SDev	.00039	.00051	.00052	.00931	.027	.00003	.00083
%RSD	37.716	6525.1	65.538	1.5173	.12246	.08539	84.996

#1	.00131	.00037	.00117	.60701	22.026	.03724	-.00156
#2	.00076	-.00035	.00043	.62018	21.988	.03728	-.00039

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00035	.00119	.00024	.00056	-.00110	-.00217	-.00181
SDev	.00010	.00221	.00011	.00081	.00331	.00023	.00126
%RSD	28.060	185.61	44.993	144.86	299.83	10.828	69.393

#1	.00028	.00276	.00032	.00113	-.00345	-.00234	-.00271
#2	.00042	-.00037	.00017	-.00001	.00124	-.00200	-.00092

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00727	.00469	.00555	.00087	.00567	.00050
SDev	.00440	.00609	.00260	.00173	.00002	.00005
%RSD	60.571	129.75	46.756	198.86	.28167	10.085

#1	.01038	.00039	.00371	.00209	.00568	.00053
#2	.00415	.00900	.00738	-.00035	.00566	.00046

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11951	--	--	--	--	--	--
SDev	38.11264	--	--	--	--	--	--
%RSD	.3189062	--	--	--	--	--	--
#1	11924	--	--	--	--	--	--
#2	11978	--	--	--	--	--	--

Method: METTRA Sample Name: DXN8ES Operator: RJG
 Run Time: 03/27/01 20:42:15
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00049	.15525	.00129	.02233	-.00114	193.30	-.00012
SDev	.00043	.00658	.00020	.00003	.00009	.10	.00022
%RSD	86.831	4.2355	15.276	.13671	7.7434	.05005	192.54

#1	.00080	.15990	.00115	.02235	-.00108	193.24	.00004
#2	.00019	.15060	.00143	.02231	-.00120	193.37	-.00027

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00582	.00155	.00215	3.4927	171.41	.19793	.00059
SDev	.00009	.00039	.00043	.0029	.39	.00009	.00057
%RSD	1.4849	25.484	19.817	.08394	.22589	.04289	95.745

#1	.00576	.00127	.00245	3.4947	171.68	.19799	.00100
#2	.00588	.00182	.00185	3.4906	171.14	.19787	.00019

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00216	-.00131	-.00067	-.00088	.00342	-.00237	-.00044
SDev	.00081	.00004	.00000	.00001	.00327	.00016	.00098
%RSD	37.705	2.9798	.18696	1.3805	95.537	6.5844	222.46

#1	.00273	-.00134	-.00067	-.00089	.00574	-.00248	.00025
#2	.00158	-.00128	-.00067	-.00087	.00111	-.00226	-.00114

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01224	-.00024	.00391	.00052	.00949	.00280
SDev	.00211	.00269	.00250	.00245	.00001	.00015
%RSD	17.254	1113.0	63.867	469.86	.04972	5.2337

#1	.01373	.00166	.00568	-.00121	.00949	.00270
#2	.01074	-.00215	.00215	.00225	.00949	.00291

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11741	--	--	--	--	--	--
SDev	5.020873	--	--	--	--	--	--
%RSD	.0427641	--	--	--	--	--	--
#1	11737	--	--	--	--	--	--
#2	11744	--	--	--	--	--	--

Method: METTRA

Sample Name: DXN8ED

Operator: RJG

Run Time: 03/27/01 20:46:41

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00010	-.00699	.00153	.02144	-.00113	187.48	.00010
SDev	.00011	.00501	.00105	.00021	.00010	.08	.00018
%RSD	107.84	71.666	68.581	.99549	9.0391	.04149	178.73
#1	.00002	-.00345	.00227	.02159	-.00106	187.43	.00023
#2	.00017	-.01054	.00079	.02129	-.00121	187.54	-.00003
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00531	.00128	.00176	3.3610	166.28	.18984	.00083
SDev	.00057	.00025	.00023	.0041	.41	.00030	.00038
%RSD	10.661	19.562	12.982	.12167	.24843	.15998	45.696
#1	.00491	.00111	.00160	3.3639	166.57	.19005	.00109
#2	.00571	.00146	.00192	3.3581	165.99	.18963	.00056
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00078	.00023	-.00104	-.00062	.00107	-.00118	-.00043
SDev	.00090	.00022	.00153	.00094	.00000	.00160	.00107
%RSD	115.74	98.498	146.75	152.68	.36752	135.27	246.73
#1	.00014	.00007	.00004	.00005	.00107	-.00005	.00032
#2	.00142	.00039	-.00212	-.00128	.00107	-.00231	-.00119
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.01249	-.00307	.00211	.00143	.00775	.00202	
SDev	.00422	.00093	.00203	.00152	.00097	.00001	
%RSD	33.748	30.381	95.993	106.19	12.524	.28195	
#1	.01547	-.00241	.00354	.00251	.00706	.00203	
#2	.00951	-.00373	.00068	.00036	.00843	.00202	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11859	--	--	--	--	--	--
SDev	9.333947	--	--	--	--	--	--
%RSD	.0787094	--	--	--	--	--	--
#1	11852	--	--	--	--	--	--
#2	11865	--	--	--	--	--	--

Method: METTRA Sample Name: DXN8J

Operator: RJG

Run Time: 03/27/01 20:51:07

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00037	.01240	.00649	.05211	-.00110	211.35	-.00018
SDev	.00017	.00516	.00079	.00049	.00006	1.90	.00021
%RSD	46.412	41.583	12.198	.93546	5.2343	.89695	115.26
#1	.00049	.01604	.00593	.05246	-.00106	212.69	-.00003
#2	.00025	.00875	.00705	.05177	-.00114	210.01	-.00032
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00175	.01562	.00222	.87149	75.148	1.1044	.00752
SDev	.00026	.00006	.00066	.01765	.809	.0106	.00056
%RSD	14.709	.35849	29.656	2.0253	1.0759	.95591	7.3939
#1	.00157	.01566	.00269	.88397	75.720	1.1119	.00791
#2	.00193	.01558	.00176	.85901	74.576	1.0970	.00712
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00633	-.00067	-.00136	-.00113	.00057	-.00229	-.00134
SDev	.00036	.00151	.00168	.00062	.00208	.00092	.00008
%RSD	5.6563	224.41	123.21	54.397	362.06	40.127	5.7873
#1	.00658	.00040	-.00255	-.00157	.00204	-.00294	-.00128
#2	.00608	-.00174	-.00018	-.00070	-.00089	-.00164	-.00139
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.01543	.00252	.00682	-.00093	.01133	.00326	
SDev	.00178	.00418	.00220	.00333	.00055	.00007	
%RSD	11.549	166.06	32.226	358.05	4.8358	2.1912	
#1	.01669	-.00044	.00526	-.00328	.01094	.00331	
#2	.01417	.00548	.00837	.00142	.01171	.00321	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11859	--	--	--	--	--	--
SDev	101.0804	--	--	--	--	--	--
%RSD	.8523820	--	--	--	--	--	--
#1	11787	--	--	--	--	--	--
#2	11930	--	--	--	--	--	--

Method: METTRA Sample Name: DXN8K

Operator: RJG

Run Time: 03/27/01 20:55:33

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00082	.46714	.00175	.02522	-.00104	117.68	.00007
SDev	.00028	.00188	.00050	.00001	.00016	.23	.00007
%RSD	33.866	.40171	28.800	.05509	15.810	.19748	98.211
#1	.00062	.46581	.00211	.02521	-.00092	117.51	.00013
#2	.00101	.46846	.00139	.02523	-.00116	117.84	.00002
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00588	.01900	.00218	6.0587	49.292	3.0925	.00046
SDev	.00005	.00016	.00047	.0182	.001	.0046	.00101
%RSD	.91344	.83113	21.704	.30083	.00231	.14843	220.72
#1	.00584	.01889	.00185	6.0716	49.293	3.0893	.00117
#2	.00591	.01911	.00252	6.0458	49.291	3.0957	-.00026
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00935	-.00146	.00045	-.00018	.00089	-.00070	-.00017
SDev	.00032	.00049	.00180	.00104	.00093	.00070	.00015
%RSD	3.4131	33.626	398.70	563.44	105.13	100.33	91.887
#1	.00913	-.00181	.00173	.00055	.00155	-.00119	-.00028
#2	.00958	-.00111	-.00082	-.00092	.00023	-.00020	-.00006
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.01009	.00195	.00466	.00289	.00694	.00463	
SDev	.00278	.00103	.00161	.00208	.00064	.00001	
%RSD	27.587	52.800	34.613	71.848	9.2040	.25608	
#1	.01206	.00267	.00580	.00436	.00739	.00462	
#2	.00812	.00122	.00352	.00142	.00649	.00464	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11988	--	--	--	--	--	--
SDev	25.80940	--	--	--	--	--	--
%RSD	.2152909	--	--	--	--	--	--
#1	12006	--	--	--	--	--	--
#2	11970	--	--	--	--	--	--

Method: METTRA Sample Name: DXN8L

Operator RJG

Run Time: 03/27/01 20:59:59

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00071	.00931	.00140	.03131	-.00118	290.95	-.00007
SDev	.00014	.00509	.00178	.00000	.00016	1.10	.00026
%RSD	19.179	54.706	127.28	.00361	13.753	.37930	390.03

#1	.00080	.01291	.00014	.03131	-.00107	290.17	.00012
#2	.00061	.00571	.00266	.03131	-.00130	291.73	-.00025

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00852	.00582	.00210	3.5437	204.11	.40113	.00037
SDev	.00013	.00046	.00004	.0127	.15	.00121	.00019
%RSD	1.4944	7.8117	1.9857	.35911	.07254	.30134	52.831

#1	.00861	.00550	.00213	3.5527	204.01	.40028	.00023
#2	.00843	.00614	.00207	3.5347	204.22	.40199	.00051

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00722	.00136	.00011	.00053	.00356	-.00251	-.00049
SDev	.00133	.00129	.00024	.00059	.00117	.00076	.00090
%RSD	18.451	95.159	215.85	112.24	32.803	30.387	182.76

#1	.00816	.00227	.00028	.00095	.00438	-.00197	.00014
#2	.00627	.00044	-.00006	.00011	.00273	-.00305	-.00113

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01743	.00316	.00791	.00569	.00774	.00220
SDev	.00432	.00208	.00283	.00248	.00000	.00006
%RSD	24.777	65.959	35.740	43.615	.03617	2.6827

#1	.01438	.00168	.00591	.00744	.00774	.00215
#2	.02049	.00463	.00991	.00393	.00774	.00224

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11583	--	--	--	--	--	--
SDev	11.24327	--	--	--	--	--	--
%RSD	.0970700	--	--	--	--	--	--
#1	11591	--	--	--	--	--	--
#2	11575	--	--	--	--	--	--

Method: METTRA Sample Name: CCV3-3 Operator: RJG
 Run Time: 03/27/01 21.04.25
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0320	24.484	.51197	1.9832	2.0472	51.339	.49746
SDev	.0005	.008	.00143	.0033	.0005	.023	.00191
%RSD	.05068	.03436	.27857	.16431	.02598	.04492	.38473
#1	1.0316	24.479	.51298	1.9809	2.0476	51.323	.49881
#2	1.0323	24.490	.51096	1.9855	2.0468	51.355	.49611
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	55.000	.55000
Low	.90000	22.500	.45000	1.8000	1.8000	45.000	.45000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0738	2.0450	1.9639	25.360	49.459	2.0282	2.0373
SDev	.0006	.0013	.0009	.040	.101	.0009	.0000
%RSD	.02918	.06448	.04580	.15761	.20359	.04207	.00125
#1	2.0742	2.0459	1.9632	25.388	49.531	2.0288	2.0373
#2	2.0734	2.0440	1.9645	25.332	49.388	2.0276	2.0373
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	27.500	55.000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	22.500	45.000	1.8000	1.8000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0059	.50980	.50605	.50730	.51798	.51120	.51345
SDev	.0060	.00136	.00418	.00324	.00214	.00272	.00110
%RSD	.30134	.26681	.82607	.63892	.41213	.53208	.21488
#1	2.0102	.51076	.50901	.50959	.51949	.50927	.51267
#2	2.0016	.50883	.50310	.50501	.51647	.51312	.51424
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000			.55000			.55000
Low	1.8000			.45000			.45000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.51960	.52426	.52271	1.0179	1.9793	2.0374	
SDev	.00456	.00129	.00238	.0025	.0026	.0045	
%RSD	.87829	.24538	.45488	.24095	.13256	.22244	
#1	.52282	.52517	.52439	1.0196	1.9812	2.0406	
#2	.51637	.52335	.52103	1.0162	1.9775	2.0342	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.55000	1.1000	2.2000	2.2000	
Low			.45000	.90000	1.8000	1.8000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11711	--	--	--	--	--	--
SDev	50.77013	--	--	--	--	--	--
%RSD	.4335399	--	--	--	--	--	--
#1	11675	--	--	--	--	--	--
#2	11746	--	--	--	--	--	--

Method: METTRA Sample Name: CCB3

Operator: RJG

Run Time: 03/27/01 21:08:51

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00044	-.01708	-.00024	.00001	-.00094	.02104	.00027
SDev	.00013	.00187	.00043	.00017	.00000	.00944	.00013
%RSD	30.556	10.940	180.49	1954.7	.08303	44.894	48.957
#1	-.00035	-.01576	-.00054	-.00011	-.00094	.01436	.00018
#2	-.00054	-.01840	.00007	.00013	-.00094	.02771	.00037
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00088	-.00022	.00089	.01203	.01324	.00022	.00150
SDev	.00018	.00019	.00009	.01832	.00788	.00013	.00029
%RSD	20.335	84.365	10.484	152.21	59.542	55.654	19.161
#1	.00075	-.00009	.00083	-.00092	.00767	.00014	.00170
#2	.00100	-.00036	.00096	.02499	.01882	.00031	.00130
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00065	-.00078	.00016	-.00015	.00220	-.00116	-.00004
SDev	.00072	.00238	.00005	.00076	.00004	.00074	.00051
%RSD	109.62	306.63	32.447	495.56	1.9995	63.637	1132.4
#1	.00116	-.00246	.00019	-.00069	.00217	-.00169	-.00040
#2	.00015	.00091	.00012	.00038	.00223	-.00064	.00031
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00398	.00560	H.00506	.00126	-.00046	.00006	
SDev	.00438	.00214	.00289	.00081	.00001	.00039	
%RSD	110.15	38.248	57.079	64.361	1.2642	615.38	
#1	.00088	.00409	.00302	.00183	-.00047	-.00021	
#2	.00708	.00711	H.00710	.00068	-.00046	.00034	
Errors	NOCHECK	NOCHECK	LC High	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11644	--	--	--	--	--	--
SDev	2.828427	--	--	--	--	--	--
%RSD	.0242907	--	--	--	--	--	--
#1	11642	--	--	--	--	--	--
#2	11646	--	--	--	--	--	--

Method: METTRA

Sample Name: DXT6MB

Operator: RJG

Run Time: 03/27/01 21:13:17

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00002	-.01513	.00069	-.00005	-.00104	.03023	.00017
SDev	.00029	.00218	.00087	.00010	.00005	.00933	.00031
%RSD	1680.4	14.434	126.30	198.79	4.6415	30.855	180.98
#1	-.00023	-.01667	.00130	.00002	-.00100	.02364	-.00005
#2	.00019	-.01358	.00007	-.00013	-.00107	.03683	.00040
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00047	-.00083	.00098	.01445	.02209	-.00009	-.00161
SDev	.00057	.00019	.00010	.00800	.02635	.00006	.00104
%RSD	121.57	22.391	10.074	55.346	119.28	68.165	64.293
#1	.00007	-.00096	.00105	.02010	.00346	-.00013	-.00235
#2	.00088	-.00070	.00091	.00879	.04073	-.00005	-.00088
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00036	-.00340	.00134	-.00024	.00171	-.00100	-.00010
SDev	.00132	.00197	.00008	.00060	.00109	.00086	.00094
%RSD	366.46	57.970	6.1197	251.39	63.999	86.431	961.52
#1	-.00129	-.00479	.00140	-.00066	.00248	-.00039	.00057
#2	.00057	-.00201	.00128	.00019	.00093	-.00161	-.00076
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00717	-.00021	.00225	-.00082	.00232	.00139	
SDev	.00210	.00334	.00293	.00100	.00262	.00033	
%RSD	29.318	1590.5	130.32	122.39	112.86	23.658	
#1	.00865	.00215	.00432	-.00153	.00047	.00116	
#2	.00568	-.00257	.00018	-.00011	.00418	.00162	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11754	--	--	--	--	--	--
SDev	10.99537	--	--	--	--	--	--
%RSD	.0935436	--	--	--	--	--	--
#1	11746	--	--	--	--	--	--
#2	11762	--	--	--	--	--	--

Method: METTRA Sample Name: DXT6MC Operator: RJG
 Run Time: 03/27/01 21:17:43
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05048	1.8109	2.0330	1.9317	.05045	L.01131	.04919
SDev	.00021	.0012	.0090	.0008	.00015	.00132	.00044
%RSD	.40952	.06519	.44343	.04257	.28646	11.671	.90218
#1	.05062	1.8118	2.0393	1.9311	.05055	L.01038	.04951
#2	.05033	1.8101	2.0266	1.9323	.05035	L.01225	.04888
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass
High	.06000	2.4000	2.4000	2.4000	.06000	60.000	.06000
Low	.04000	1.6000	1.6000	1.6000	.04000	40.000	.04000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.53070	.20449	.23768	1.0425	L.00242	.50440	L-.00141
SDev	.00070	.00144	.00081	.0033	.00342	.00025	.00000
%RSD	.13256	.70595	.34081	.32037	141.24	.04938	.08716
#1	.53020	.20552	.23710	1.0449	L.00000	.50457	L-.00141
#2	.53120	.20347	.23825	1.0401	L.00483	.50422	L-.00142
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass	LC Low
High	.60000	.24000	.30000	1.2000	60.000	.60000	1.2000
Low	.40000	.16000	.20000	.80000	40.000	.40000	.80000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50952	.49989	.49928	.49948	.00138	-.00042	L.00018
SDev	.00088	.00293	.00053	.00062	.00021	.00245	.00171
%RSD	.17184	.58601	.10551	.12496	15.491	581.32	967.49
#1	.51014	.50196	.49891	.49992	.00153	.00131	L.00138
#2	.50890	.49781	.49965	.49904	.00122	-.00216	L-.00103
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Low
High	.60000			.60000			.60000
Low	.40000			.40000			.40000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	2.1259	2.1288	2.1278	1.9878	.48762	.52237	
SDev	.0079	.0036	.0050	.0090	.00152	.00038	
%RSD	.37028	.17051	.23697	.45389	.31162	.07355	
#1	2.1314	2.1314	2.1314	1.9942	.48654	.52264	
#2	2.1203	2.1262	2.1243	1.9814	.48869	.52209	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			2.4000	2.4000	.60000	.60000	
Low			1.6000	1.6000	.40000	.40000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11759	--	--	--	--	--	--
SDev	10.85450	--	--	--	--	--	--
%RSD	.0923067	--	--	--	--	--	--
#1	11752	--	--	--	--	--	--
#2	11767	--	--	--	--	--	--

Method: METTRA Sample Name: DXL8W

Operator: RJG

Run Time: 03/27/01 21:22:09

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00073	.14415	.00136	.02296	-.00107	34.891	.00002
SDev	.00001	.00173	.00178	.00010	.00005	.061	.00010
%RSD	1.8886	1.2003	131.31	.44906	5.1198	.17409	632.89
#1	.00072	.14538	.00010	.02288	-.00103	34.848	.00009
#2	.00074	.14293	.00262	.02303	-.00111	34.934	-.00005
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00091	.01009	.00167	.16354	11.240	.01778	.00242
SDev	.00013	.00058	.00001	.00318	.015	.00001	.00018
%RSD	14.401	5.7878	.45526	1.9425	.13221	.03636	7.4636
#1	.00082	.01050	.00166	.16578	11.230	.01779	.00255
#2	.00100	.00967	.00167	.16129	11.251	.01778	.00229
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00342	.00162	.00067	.00099	.00105	-.00074	-.00015
SDev	.00121	.00100	.00014	.00042	.00135	.00482	.00277
%RSD	35.520	61.564	20.533	42.913	128.43	648.84	1888.1
#1	.00256	.00232	.00077	.00129	.00010	.00267	.00181
#2	.00427	.00091	.00057	.00069	.00200	-.00415	-.00210
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.01533	.00237	.00669	.00168	.00627	.00302	
SDev	.00068	.00276	.00207	.00145	.00097	.00005	
%RSD	4.4603	116.34	30.929	86.406	15.474	1.6260	
#1	.01582	.00432	.00815	.00065	.00696	.00306	
#2	.01485	.00042	.00523	.00271	.00559	.00299	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11846	--	--	--	--	--	--
SDev	15.66269	--	--	--	--	--	--
%RSD	.1322240	--	--	--	--	--	--
#1	11857	--	--	--	--	--	--
#2	11834	--	--	--	--	--	--

Method: METTRA Sample Name: DXL8WP5

Run Time: 03/27/01 21:26:34

Operator: RJG

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00053	.01530	.00010	.00448	-.00113	6.9186	.00003
SDev	.00011	.00282	.00141	.00007	.00011	.0133	.00003
%RSD	20.279	18.449	1475.8	1.4917	9.7365	.19203	106.35
#1	.00061	.01729	-.00090	.00453	-.00105	6.9092	.00001
#2	.00046	.01330	.00109	.00443	-.00121	6.9280	.00005
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00069	.00208	.00109	.02221	2.2100	.00343	-.00033
SDev	.00036	.00007	.00009	.00682	.0002	.00003	.00000
%RSD	51.759	3.5257	8.3374	30.723	.00847	1.0069	.59914
#1	.00044	.00213	.00102	.01738	2.2099	.00345	-.00032
#2	.00094	.00202	.00115	.02703	2.2101	.00341	-.00033
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00007	.00197	-.00004	.00063	.00184	-.00275	-.00122
SDev	.00092	.00093	.00148	.00067	.00013	.00089	.00064
%RSD	1238.1	47.501	3868.2	106.87	7.0453	32.564	52.508
#1	.00073	.00263	-.00108	.00015	.00175	-.00338	-.00167
#2	-.00058	.00131	.00101	.00111	.00193	-.00211	-.00077
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00516	.00372	.00420	-.00082	.00141	.00105	
SDev	.00378	.00070	.00079	.00037	.00000	.00005	
%RSD	73.209	18.758	18.907	44.685	.04739	4.8696	
#1	.00249	.00421	.00364	-.00108	.00141	.00102	
#2	.00783	.00322	.00476	-.00056	.00141	.00109	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11663	--	--	--	--	--	--
SDev	9.405072	--	--	--	--	--	--
%RSD	.0806389	--	--	--	--	--	--
#1	11657	--	--	--	--	--	--
#2	11670	--	--	--	--	--	--

Method: METTRA Sample Name: DXL8WS Operator: RJG
 Run Time: 03/27/01 21:31:00
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05212	2.2018	2.1043	2.0242	.05230	35.875	.05036
SDev	.00022	.0022	.0020	.0034	.00000	.064	.00058
%RSD	.43253	.09936	.09563	.16725	.00344	.17955	1.1526
#1	.05228	2.2002	2.1029	2.0218	.05230	35.829	.05077
#2	.05196	2.2033	2.1057	2.0266	.05230	35.920	.04995
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.54074	.21890	.25207	1.2265	11.583	.53734	.00327
SDev	.00252	.00110	.00019	.0028	.011	.00015	.00056
%RSD	.46533	.50298	.07590	.22477	.09146	.02748	17.251
#1	.53896	.21812	.25194	1.2245	11.590	.53724	.00367
#2	.54252	.21968	.25221	1.2284	11.575	.53745	.00287
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.52888	.51701	.51363	.51475	.00267	-.00211	-.00052
SDev	.00194	.00032	.00016	.00000	.00448	.00290	.00044
%RSD	.36608	.06134	.03195	.00075	167.50	137.68	86.132
#1	.53025	.51679	.51374	.51476	-.00049	-.00006	-.00020
#2	.52751	.51723	.51351	.51475	.00584	-.00416	-.00083
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	2.1683	2.1860	2.1801	2.0903	.50675	.54038	
SDev	.0040	.0008	.0018	.0089	.00037	.00055	
%RSD	.18249	.03594	.08447	.42610	.07337	.10130	
#1	2.1711	2.1866	2.1814	2.0966	.50701	.54077	
#2	2.1655	2.1854	2.1788	2.0840	.50648	.53999	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11737	--	--	--	--	--	--
SDev	6.611172	--	--	--	--	--	--
%RSD	.0563275	--	--	--	--	--	--
#1	11742	--	--	--	--	--	--
#2	11732	--	--	--	--	--	--

Method: METTRA Sample Name: DXL8WD

Operator: RJG

Run Time: 03/27/01 21:35:25

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05076	2.1492	2.0516	1.9682	.05093	35.076	.04898
SDev	.00088	.0103	.0064	.0047	.00016	.041	.00022
%RSD	1.7269	.47804	.31234	.23689	.30753	.11796	.45249
#1	.05138	2.1565	2.0562	1.9715	.05104	35.105	.04914
#2	.05014	2.1420	2.0471	1.9649	.05082	35.047	.04882
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.52756	.21345	.24528	1.2079	11.324	.52341	.00341
SDev	.00067	.00077	.00011	.0093	.038	.00088	.00047
%RSD	.12681	.36224	.04661	.77022	.33953	.16837	13.678
#1	.52803	.21400	.24537	1.2145	11.351	.52404	.00308
#2	.52709	.21290	.24520	1.2013	11.297	.52279	.00374
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51045	.50750	.50092	.50311	.00177	-.00201	-.00075
SDev	.00034	.00052	.00366	.00261	.00113	.00046	.00068
%RSD	.06667	.10263	.73014	.51935	64.122	22.768	90.710
#1	.51069	.50787	.50350	.50496	.00097	-.00234	-.00124
#2	.51021	.50713	.49833	.50126	.00257	-.00169	-.00027
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	2.1212	2.1342	2.1299	2.0311	.49444	.52635	
SDev	.0105	.0059	.0074	.0030	.00177	.00256	
%RSD	.49333	.27613	.34816	.14621	.35747	.48666	
#1	2.1286	2.1384	2.1351	2.0332	.49569	.52816	
#2	2.1138	2.1301	2.1247	2.0290	.49319	.52454	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

680 1383

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11847	--	--	--	--	--	--
SDev	3.217198	--	--	--	--	--	--
%RSD	.0271568	--	--	--	--	--	--
#1	11844	--	--	--	--	--	--
#2	11849	--	--	--	--	--	--

Method: METTRA Sample Name: DXL81

Operator: RJG

Run Time: 03/27/01 21:39:51

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00421	.20687	.00219	.01117	.00161	319.93	L-.00771
SDev	.00093	.00275	.00054	.00015	.00011	.53	.00004
%RSD	22.081	1.3294	24.485	1.3335	6.5416	.16666	.45611
#1	.00356	.20492	.00257	.01107	.00168	319.55	L-.00769
#2	.00487	.20881	.00181	.01128	.00153	320.30	L-.00774
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.47055	.02138	.00258	297.56	146.01	H72.903	-.01243
SDev	.00061	.00018	.00010	.28	.16	.051	.00018
%RSD	.12929	.85097	3.6700	.09282	.11215	.06948	1.4691
#1	.47098	.02126	.00251	297.36	146.12	H72.868	-.01230
#2	.47012	.02151	.00264	297.76	145.89	H72.939	-.01256
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.12885	.00155	.00425	.00335	-.00137	-.00555	-.00416
SDev	.00123	.00090	.00051	.00064	.00106	.00158	.00070
%RSD	.95143	57.936	11.899	18.979	77.450	28.483	16.898
#1	.12972	.00218	.00461	.00380	-.00211	-.00443	-.00366
#2	.12798	.00091	.00389	.00290	-.00062	-.00667	-.00465
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	-.00938	.02269	.01201	.06476	.01490	.01853	
SDev	.00034	.00042	.00016	.00115	.00121	.00008	
%RSD	3.6648	1.8324	1.3558	1.7793	8.0991	.44455	
#1	-.00914	.02240	.01190	.06557	.01575	.01859	
#2	-.00962	.02299	.01213	.06394	.01405	.01847	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	13633	--	--	--	--	--	--
SDev	27.68351	--	--	--	--	--	--
%RSD	.2030584	--	--	--	--	--	--
#1	13653	--	--	--	--	--	--
#2	13614	--	--	--	--	--	--

Method: METTRA Sample Name: CCV3-4

Operator: RJG

Run Time: 03/27/01 21:44:17

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0331	24.505	.51348	1.9792	2.0554	51.420	.49775
SDev	.0013	.014	.00298	.0016	.0016	.049	.00205
%RSD	.12478	.05598	.57966	.08282	.07882	.09618	.41133
#1	1.0340	24.515	.51559	1.9803	2.0565	51.455	.49920
#2	1.0322	24.495	.51138	1.9780	2.0542	51.385	.49630
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	55.000	.55000
Low	.90000	22.500	.45000	1.8000	1.8000	45.000	.45000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0778	2.0474	1.9629	25.382	49.500	2.0157	2.0401
SDev	.0042	.0026	.0034	.011	.164	.0006	.0013
%RSD	.20262	.12722	.17412	.04337	.33149	.02935	.06491
#1	2.0808	2.0492	1.9654	25.390	49.616	2.0161	2.0410
#2	2.0749	2.0455	1.9605	25.374	49.384	2.0153	2.0391
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	27.500	55.000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	22.500	45.000	1.8000	1.8000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0055	.50903	.50567	.50679	.51594	.51269	.51377
SDev	.0105	.00060	.00012	.00028	.00501	.00014	.00176
%RSD	.52326	.11774	.02290	.05461	.97118	.02772	.34321
#1	2.0129	.50945	.50576	.50699	.51240	.51259	.51253
#2	1.9981	.50861	.50559	.50660	.51948	.51279	.51502
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000			.55000			.55000
Low	1.8000			.45000			.45000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.52020	.52624	.52423	1.0219	1.9773	2.0393	
SDev	.00566	.00449	.00488	.0014	.0047	.0055	
%RSD	1.0886	.85279	.93070	.14144	.23988	.27194	
#1	.51619	.52307	.52078	1.0230	1.9806	2.0432	
#2	.52420	.52942	.52768	1.0209	1.9739	2.0354	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.55000	1.1000	2.2000	2.2000	
Low			.45000	.90000	1.8000	1.8000	

680 1387

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11706	--	--	--	--	--	--
SDev	12.48002	--	--	--	--	--	--
%RSD	.1066101	--	--	--	--	--	--
#1	11697	--	--	--	--	--	--
#2	11715	--	--	--	--	--	--

Method: METTRA Sample Name: CCB4

Operator: RJG

Run Time: 03/27/01 21:48:43

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00022	-.02529	.00086	.00011	-.00102	.01318	.00016
SDev	.00044	.00145	.00204	.00004	.00021	.00128	.00001
%RSD	200.10	5.7389	238.17	39.103	20.710	9.6712	7.3039
#1	-.00009	-.02426	.00230	.00008	-.00087	.01408	.00015
#2	.00053	-.02631	-.00059	.00014	-.00117	.01228	.00017
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00076	-.00011	.00091	.03525	.01104	.00234	.00058
SDev	.00071	.00005	.00048	.00112	.00094	.00002	.00018
%RSD	93.239	47.775	53.461	3.1723	8.5491	.93626	30.517
#1	.00026	-.00014	.00056	.03604	.01170	.00236	.00071
#2	.00125	-.00007	.00125	.03446	.01037	.00233	.00046
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00036	.00024	-.00002	.00007	.00112	-.00251	-.00130
SDev	.00091	.00085	.00135	.00118	.00059	.00213	.00162
%RSD	252.81	348.97	8101.1	1696.0	52.602	84.900	124.28
#1	.00028	.00084	.00094	.00090	.00154	-.00100	-.00016
#2	-.00101	-.00036	-.00097	-.00076	.00070	-.00402	-.00245
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	-.00107	.00227	.00116	.00016	-.00046	.00003	
SDev	.00458	.00160	.00260	.00335	.00000	.00004	
%RSD	430.28	70.613	223.72	2031.2	.07845	135.31	
#1	.00218	.00341	.00300	.00253	-.00046	.00006	
#2	-.00431	.00114	-.00068	-.00220	-.00046	.00000	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

680 1389

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11773	--	--	--	--	--	--
SDev	36.09835	--	--	--	--	--	--
%RSD	.3066179	--	--	--	--	--	--
#1	11799	--	--	--	--	--	--
#2	11748	--	--	--	--	--	--

Method: METTRA Sample Name: DX6AB

Operator: RJG

Run Time: 03/27/01 21:53:08

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00047	-.01894	.00021	.00006	-.00119	.02003	.00003
SDev	.00012	.00824	.00192	.00018	.00009	.00536	.00009
%RSD	26.035	43.478	904.29	296.44	7.2200	26.738	264.28
#1	.00038	-.01312	-.00115	-.00007	-.00113	.01625	-.00003
#2	.00055	-.02477	.00157	.00019	-.00125	.02382	.00010
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00006	-.00026	.00132	.01614	-.00000	.00126	-.00080
SDev	.00000	.00014	.00015	.01030	.00295	.00003	.00085
%RSD	2.2006	53.601	11.287	63.785	73599.	2.6693	107.05
#1	.00006	-.00036	.00143	.02342	-.00209	.00129	-.00140
#2	.00006	-.00016	.00121	.00886	.00208	.00124	-.00019
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00029	.00181	.00077	.00112	.00178	-.00381	-.00195
SDev	.00102	.00164	.00009	.00061	.00137	.00447	.00344
%RSD	352.55	90.528	12.109	54.406	77.012	117.35	176.29
#1	-.00043	.00297	.00084	.00155	.00274	-.00065	.00048
#2	.00101	.00065	.00071	.00069	.00081	-.00697	-.00438
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00318	.00673	H.00555	-.00025	-.00046	.00030	
SDev	.00044	.00011	.00008	.00160	.00000	.00004	
%RSD	14.017	1.6100	1.3687	640.46	.71259	14.597	
#1	.00349	.00666	H.00560	.00088	-.00046	.00027	
#2	.00286	.00681	H.00550	-.00138	-.00046	.00033	
Errors	NOCHECK	NOCHECK	LC High	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11663	--	--	--	--	--	--
SDev	15.09714	--	--	--	--	--	--
%RSD	.1294395	--	--	--	--	--	--
#1	11653	--	--	--	--	--	--
#2	11674	--	--	--	--	--	--

Method: METTRA Sample Name: DXX6AC

Operator: RJG

Run Time: 03/27/01 21:57:34

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04925	1.7689	1.9466	1.8972	.04851	L.01328	.04807
SDev	.00004	.0076	.0009	.0012	.00012	.00133	.00007
%RSD	.07731	.43185	.04704	.06279	.24228	10.016	.14243
#1	.04922	1.7635	1.9473	1.8980	.04859	L.01234	.04803
#2	.04927	1.7743	1.9460	1.8963	.04843	L.01422	.04812
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass
High	.06000	2.4000	2.4000	2.4000	.06000	60.000	.06000
Low	.04000	1.6000	1.6000	1.6000	.04000	40.000	.04000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.51879	.20123	.23742	1.0182	L.00416	.49146	L-.00094
SDev	.00026	.00002	.00000	.0063	.00098	.00024	.00104
%RSD	.05080	.00946	.00091	.61849	23.614	.04818	111.14
#1	.51897	.20122	.23742	1.0227	L.00485	.49129	L-.00020
#2	.51860	.20125	.23742	1.0138	L.00347	.49162	L-.00168
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass	LC Low
High	.60000	.24000	.30000	1.2000	60.000	.60000	1.2000
Low	.40000	.16000	.20000	.80000	40.000	.40000	.80000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49789	.49048	.48592	.48743	.00269	-.00138	L-.00003
SDev	.00356	.00261	.00132	.00001	.00238	.00059	.00119
%RSD	.71399	.53193	.27171	.00243	88.649	42.803	4674.0
#1	.50040	.48863	.48685	.48744	.00100	-.00180	L-.00086
#2	.49537	.49232	.48498	.48743	.00437	-.00096	L.00081
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Low
High	.60000			.60000			.60000
Low	.40000			.40000			.40000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	1.9144	1.9185	1.9172	1.9282	.47605	.50162	
SDev	.0030	.0028	.0009	.0024	.00028	.00081	
%RSD	.15561	.14747	.04669	.12502	.05991	.16145	
#1	1.9123	1.9205	1.9178	1.9265	.47625	.50220	
#2	1.9165	1.9165	1.9165	1.9299	.47585	.50105	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			2.4000	2.4000	.60000	.60000	
Low			1.6000	1.6000	.40000	.40000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11712	--	--	--	--	--	--
SDev	6.965416	--	--	--	--	--	--
%RSD	.0594726	--	--	--	--	--	--
#1	11707	--	--	--	--	--	--
#2	11717	--	--	--	--	--	--

Method: METTRA

Sample Name: DXXC5

Operator: RJG

Run Time: 03/27/01 22:02:01

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00138	.07557	.00193	.00933	-.00131	24.747	.00213
SDev	.00050	.00180	.00070	.00014	.00003	.038	.00018
%RSD	36.458	2.3829	36.499	1.5233	2.1575	.15327	8.6278
#1	.00103	.07684	.00143	.00923	-.00129	24.774	.00200
#2	.00174	.07429	.00242	.00943	-.00133	24.720	.00226
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00254	.00022	.00650	.05617	2.7535	.17763	.01463
SDev	.00021	.00018	.00004	.01338	.0122	.00042	.00046
%RSD	8.4406	78.711	.66990	23.826	.44192	.23453	3.1519
#1	.00238	.00010	.00647	.04671	2.7621	.17792	.01495
#2	.00269	.00035	.00653	.06564	2.7448	.17733	.01430
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00589	.00532	-.00201	.00043	.00248	-.00103	.00014
SDev	.00003	.00084	.00055	.00008	.00173	.00066	.00102
%RSD	.49855	15.866	27.181	19.253	69.886	63.521	739.36
#1	.00591	.00472	-.00162	.00049	.00371	-.00057	.00086
#2	.00587	.00591	-.00239	.00037	.00126	-.00150	-.00058
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00485	.00472	.00476	-.00196	.00141	.10598	
SDev	.00258	.00163	.00195	.00549	.00001	.00027	
%RSD	53.219	34.622	40.928	280.54	.32629	.25265	
#1	.00302	.00356	.00338	.00192	.00141	.10617	
#2	.00667	.00587	.00614	-.00584	.00141	.10579	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11750	--	--	--	--	--	--
SDev	56.10865	--	--	--	--	--	--
%RSD	.4775356	--	--	--	--	--	--
#1	11710	--	--	--	--	--	--
#2	11789	--	--	--	--	--	--

Method: METTRA Sample Name: DXXC5P5

Operator: RJG

Run Time: 03/27/01 22:06:27

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00011	-.01560	.00021	.00168	-.00126	4.8738	.00043
SDev	.00017	.00131	.00277	.00015	.00008	.0171	.00001
%RSD	160.92	8.4172	1347.3	8.8986	6.0560	.35017	2.5755

#1	-.00001	-.01653	.00216	.00157	-.00121	4.8617	.00042
#2	.00023	-.01467	-.00175	.00178	-.00132	4.8859	.00043

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00079	.00012	.00148	.02448	.54045	.03523	.00150
SDev	.00048	.00013	.00008	.00569	.00358	.00008	.00076
%RSD	61.553	116.05	5.5064	23.229	.66262	.21710	50.582

#1	.00113	.00021	.00154	.02046	.53792	.03517	.00097
#2	.00044	.00002	.00142	.02850	.54299	.03528	.00204

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00114	-.00128	.00197	.00089	.00186	-.00451	-.00239
SDev	.00020	.00159	.00104	.00016	.00091	.00006	.00026
%RSD	17.471	124.78	52.961	18.488	48.799	1.4082	10.929

#1	.00128	-.00240	.00270	.00100	.00251	-.00455	-.00220
#2	.00100	-.00015	.00123	.00077	.00122	-.00446	-.00257

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00388	.00669	.00575	.00197	.00186	.02103
SDev	.00168	.00425	.00340	.00176	.00328	.00047
%RSD	43.286	63.589	59.031	89.478	176.50	2.2506

#1	.00506	.00969	.00815	.00072	-.00046	.02069
#2	.00269	.00368	.00335	.00321	.00417	.02136

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IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11815	--	--	--	--	--	--
SDev	25.20863	--	--	--	--	--	--
%RSD	.2133698	--	--	--	--	--	--
#1	11832	--	--	--	--	--	--
#2	11797	--	--	--	--	--	--

Method: METTRA

Sample Name: DXXC5S

Operator: RJG

Run Time: 03/27/01 22:10:53

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05167	2.1200	2.0445	1.9920	.05067	25.629	.05121
SDev	.00008	.0039	.0065	.0028	.00018	.029	.00024
%RSD	.15240	.18310	.31841	.13833	.34737	.11315	.47521
#1	.05173	2.1227	2.0491	1.9940	.05079	25.609	.05104
#2	.05162	2.1172	2.0398	1.9901	.05054	25.650	.05138
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.53401	.20698	.25939	1.1000	2.8543	.69229	.01472
SDev	.00087	.00098	.00004	.0010	.0045	.00066	.00009
%RSD	.16252	.47566	.01479	.09305	.15765	.09551	.63911
#1	.53463	.20629	.25942	1.1007	2.8512	.69275	.01479
#2	.53340	.20768	.25937	1.0993	2.8575	.69182	.01466
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.52101	.51351	.50384	.50706	.00196	.00192	.00193
SDev	.00130	.00404	.00111	.00208	.00257	.00094	.00023
%RSD	.25054	.78647	.21936	.41061	131.06	48.968	11.892
#1	.52193	.51066	.50305	.50559	.00378	.00125	.00210
#2	.52009	.51637	.50462	.50853	.00014	.00258	.00177
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	2.0079	2.0070	2.0073	2.0535	.49568	.63614	
SDev	.0032	.0066	.0055	.0007	.00034	.00117	
%RSD	.16168	.32887	.27318	.03440	.06969	.18407	
#1	2.0102	2.0116	2.0112	2.0540	.49544	.63697	
#2	2.0057	2.0023	2.0034	2.0530	.49592	.63531	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

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IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11728	--	--	--	--	--	--
SDev	.3887706	--	--	--	--	--	--
%RSD	.0033149	--	--	--	--	--	--
#1	11728	--	--	--	--	--	--
#2	11728	--	--	--	--	--	--

Method: METTRA Sample Name: DXXC5D

Operator: RJG

Run Time: 03/27/01 22:15:19

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05140	2.0648	2.0022	1.9497	.04973	25.033	.05002
SDev	.00023	.0140	.0113	.0137	.00024	.196	.00047
%RSD	.45732	.67715	.56412	.70366	.48945	.78247	.93612
#1	.05157	2.0549	1.9943	1.9400	.04956	24.895	.04969
#2	.05123	2.0747	2.0102	1.9594	.04990	25.172	.05035
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.52315	.20332	.25466	1.0950	2.7886	.67778	.01501
SDev	.00220	.00148	.00191	.0180	.0159	.00434	.00064
%RSD	.42073	.73021	.75026	1.6429	.56993	.64086	4.2831
#1	.52160	.20227	.25331	1.1077	2.7773	.67471	.01455
#2	.52471	.20437	.25601	1.0823	2.7998	.68085	.01546
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50728	.50157	.49286	.49576	-.00180	-.00078	-.00112
SDev	.00259	.00282	.00615	.00504	.00133	.00001	.00044
%RSD	.51022	.56157	1.2468	1.0159	73.846	1.0302	39.056
#1	.50545	.49958	.48851	.49220	-.00275	-.00078	-.00143
#2	.50911	.50356	.49720	.49932	-.00086	-.00079	-.00081
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	1.9581	1.9614	1.9603	2.0005	.48439	.62257	
SDev	.0055	.0230	.0172	.0091	.00109	.00344	
%RSD	.28274	1.1726	.87658	.45499	.22562	.55288	
#1	1.9542	1.9452	1.9482	1.9941	.48362	.62014	
#2	1.9620	1.9777	1.9725	2.0069	.48516	.62501	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11765	--	--	--	--	--	--
SDev	50.59335	--	--	--	--	--	--
%RSD	.4300446	--	--	--	--	--	--
#1	11800	--	--	--	--	--	--
#2	11729	--	--	--	--	--	--

Analysis Report

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Method: METTRA

Sample Name: DXQVGB

Operator: RJG

Run Time: 03/27/01 22:19:45

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00005	-.01927	.00054	.00013	-.00129	.01614	-.00004
SDev	.00020	.00261	.00001	.00013	.00011	.00267	.00003
%RSD	425.83	13.540	1.6219	99.708	8.5491	16.564	74.643
#1	-.00010	-.01742	.00055	.00004	-.00122	.01425	-.00006
#2	.00019	-.02111	.00054	.00021	-.00137	.01804	-.00002
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00053	-.00030	.00133	.00878	.00000	.00000	-.00168
SDev	.00013	.00061	.00010	.00457	.00098	.00006	.00095
%RSD	24.899	205.54	7.2845	52.066	159850.	111080.	56.632
#1	.00063	.00013	.00140	.00554	.00069	-.00004	-.00100
#2	.00044	-.00072	.00127	.01201	-.00069	.00004	-.00235
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00108	-.00111	.00024	-.00021	.00029	-.00179	-.00110
SDev	.00051	.00026	.00232	.00146	.00170	.00212	.00085
%RSD	47.185	23.570	962.39	697.86	588.28	118.44	77.227
#1	.00144	-.00093	-.00140	-.00124	-.00091	-.00029	-.00050
#2	.00072	-.00130	.00188	.00082	.00149	-.00328	-.00169
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00335	.00332	.00333	.00325	.00420	.00145	
SDev	.00038	.00136	.00103	.00322	.00000	.00005	
%RSD	11.304	40.796	30.928	99.123	.02395	3.3883	
#1	.00361	.00428	.00406	.00553	.00420	.00142	
#2	.00308	.00236	.00260	.00097	.00420	.00149	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11705	--	--	--	--	--	--
SDev	6.187184	--	--	--	--	--	--
%RSD	.0528603	--	--	--	--	--	--
#1	11700	--	--	--	--	--	--
#2	11709	--	--	--	--	--	--

Method: METTRA Sample Name: DXQVGC

Operator: RJG

Run Time: 03/27/01 22:24:11

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04978	1.8022	1.9851	1.9253	.04951	L.00855	.04905
SDev	.00126	.0004	.0000	.0012	.00016	.00002	.00012
%RSD	2.5267	.02322	.00128	.06305	.31469	.17506	.24901
#1	.04890	1.8025	1.9851	1.9262	.04962	L.00854	.04897
#2	.05067	1.8019	1.9851	1.9245	.04940	L.00856	.04914
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass
High	.06000	2.4000	2.4000	2.4000	.06000	60.000	.06000
Low	.04000	1.6000	1.6000	1.6000	.04000	40.000	.04000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.52938	.20413	.24012	1.0413	L-.00277	.50154	L-.00168
SDev	.00074	.00010	.00028	.0101	.00294	.00003	.00152
%RSD	.14018	.04914	.11600	.97134	106.01	.00540	90.659
#1	.52885	.20420	.24032	1.0342	L-.00485	.50152	L-.00275
#2	.52990	.20406	.23993	1.0485	L-.00069	.50156	L-.00060
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass	LC Low
High	.60000	.24000	.30000	1.2000	60.000	.60000	1.2000
Low	.40000	.16000	.20000	.80000	40.000	.40000	.80000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51034	.50060	.49624	.49769	.00041	-.00205	L-.00123
SDev	.00011	.00126	.00183	.00080	.00262	.00150	.00187
%RSD	.02125	.25150	.36781	.16038	633.76	73.038	152.04
#1	.51042	.49971	.49753	.49825	-.00144	-.00311	L-.00255
#2	.51027	.50149	.49495	.49712	.00226	-.00099	L.00009
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Low
High	.60000			.60000			.60000
Low	.40000			.40000			.40000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	1.9807	1.9742	1.9764	1.9682	.48666	.51200	
SDev	.0086	.0080	.0082	.0077	.00048	.00060	
%RSD	.43434	.40403	.41415	.39275	.09917	.11759	
#1	1.9746	1.9686	1.9706	1.9627	.48632	.51158	
#2	1.9868	1.9798	1.9821	1.9737	.48700	.51243	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			2.4000	2.4000	.60000	.60000	
Low			1.6000	1.6000	.40000	.40000	

680 1405

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11704	--	--	--	--	--	--
SDev	11.52570	--	--	--	--	--	--
%RSD	.0984783	--	--	--	--	--	--
#1	11712	--	--	--	--	--	--
#2	11696	--	--	--	--	--	--

Method: METTRA Sample Name: DXN6J

Run Time: 03/27/01 22:28:36

Operator: RJG

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00009	.04790	.00379	.13003	-.00135	104.17	.00012
SDev	.00014	.00053	.00077	.00030	.00011	.06	.00020
%RSD	143.58	1.1165	20.398	.23150	8.2529	.06050	169.95
#1	.00019	.04827	.00324	.13024	-.00127	104.12	-.00002
#2	-.00000	.04752	.00434	.12982	-.00143	104.21	.00026
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00179	.00188	.04165	4.1492	22.426	.67172	-.00080
SDev	.00014	.00035	.00036	.0015	.047	.00000	.00047
%RSD	7.5273	18.416	.85676	.03528	.20894	.00009	59.508
#1	.00189	.00163	.04190	4.1482	22.459	.67172	-.00113
#2	.00170	.00212	.04140	4.1502	22.393	.67172	-.00046
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00558	-.00224	.00182	.00047	.00107	-.00123	-.00047
SDev	.00009	.00080	.00203	.00109	.00232	.00362	.00164
%RSD	1.6677	35.837	111.67	232.50	217.51	293.32	350.63
#1	.00551	-.00167	.00038	-.00030	.00270	-.00380	-.00163
#2	.00564	-.00280	.00325	.00124	-.00057	.00133	.00069
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00066	.00540	.00338	.00029	.00274	.03621	
SDev	.00148	.00109	.00122	.00198	.00067	.00006	
%RSD	224.09	20.213	36.072	675.38	24.334	.16174	
#1	-.00171	.00463	.00252	.00170	.00321	.03625	
#2	.00039	.00618	.00425	-.00111	.00226	.03617	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11650	--	--	--	--	--	--
SDev	18.45521	--	--	--	--	--	--
%RSD	.1584104	--	--	--	--	--	--
#1	11637	--	--	--	--	--	--
#2	11663	--	--	--	--	--	--

Method: METTRA Sample Name: DXN6JP5

Run Time: 03/27/01 22:33:02

Operator: RJG

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00037	-.01334	.00125	.02557	-.00132	20.821	.00025
SDev	.00020	.00465	.00015	.00016	.00009	.001	.00013
%RSD	54.271	34.877	11.606	.62629	6.6673	.00494	50.858
#1	.00023	-.01005	.00114	.02546	-.00126	20.821	.00016
#2	.00051	-.01663	.00135	.02568	-.00138	20.820	.00033
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00060	.00004	.00877	.81807	4.4020	.13431	-.00134
SDev	.00066	.00014	.00017	.01228	.0008	.00035	.00009
%RSD	111.24	335.30	1.9876	1.5016	.01893	.26188	6.9219
#1	.00013	-.00006	.00865	.82676	4.4026	.13406	-.00141
#2	.00107	.00014	.00890	.80939	4.4014	.13456	-.00128
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00129	.00003	.00102	.00069	.00305	-.00341	-.00126
SDev	.00000	.00237	.00117	.00157	.00090	.00419	.00250
%RSD	.10037	8745.7	114.55	227.36	29.430	122.90	198.28
#1	.00129	-.00165	.00019	-.00042	.00242	-.00045	.00051
#2	.00129	.00170	.00185	.00180	.00369	-.00638	-.00303
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00299	.00020	.00113	-.00191	.00096	.00766	
SDev	.00336	.00165	.00002	.00159	.00033	.00014	
%RSD	112.42	835.75	1.5450	83.126	34.884	1.7884	
#1	.00061	.00137	.00112	-.00079	.00119	.00756	
#2	.00537	-.00097	.00114	-.00304	.00072	.00775	

680 1409

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11737	--	--	--	--	--	--
SDev	12.65680	--	--	--	--	--	--
%RSD	.1078386	--	--	--	--	--	--
#1	11728	--	--	--	--	--	--
#2	11746	--	--	--	--	--	--

Method: METTRA Sample Name: CCV3-5

Operator: RJG

Run Time: 03/27/01 22:37:28

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0387	24.639	.51440	1.9909	2.0649	51.732	.49747
SDev	.0017	.028	.00355	.0003	.0034	.037	.00083
%RSD	.16133	.11464	.69096	.01485	.16663	.07163	.16614
#1	1.0398	24.619	.51189	1.9911	2.0674	51.705	.49806
#2	1.0375	24.659	.51691	1.9907	2.0625	51.758	.49689
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	55.000	.55000
Low	.90000	22.500	.45000	1.8000	1.8000	45.000	.45000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0793	2.0524	1.9721	25.423	49.645	2.0301	2.0414
SDev	.0020	.0022	.0027	.008	.069	.0019	.0005
%RSD	.09601	.10840	.13476	.03014	.13802	.09422	.02546
#1	2.0807	2.0540	1.9702	25.418	49.693	2.0315	2.0410
#2	2.0779	2.0508	1.9740	25.429	49.596	2.0288	2.0417
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	27.500	55.000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	22.500	45.000	1.8000	1.8000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0078	.51092	.50309	.50570	.51467	.50899	.51088
SDev	.0057	.00053	.00032	.00004	.00141	.00165	.00063
%RSD	.28375	.10414	.06457	.00782	.27357	.32425	.12371
#1	2.0118	.51130	.50286	.50567	.51368	.51016	.51133
#2	2.0037	.51054	.50332	.50572	.51567	.50783	.51044
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000			.55000			.55000
Low	1.8000			.45000			.45000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.51709	.52407	.52175	1.0182	1.9843	2.0433	
SDev	.00460	.00010	.00160	.0033	.0046	.0009	
%RSD	.88889	.01900	.30609	.32757	.23337	.04538	
#1	.51384	.52400	.52062	1.0159	1.9876	2.0440	
#2	.52034	.52414	.52288	1.0206	1.9810	2.0427	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.55000	1.1000	2.2000	2.2000	
Low			.45000	.90000	1.8000	1.8000	

680 1411

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11662	--	--	--	--	--	--
SDev	11.70248	--	--	--	--	--	--
%RSD	.1003477	--	--	--	--	--	--
#1	11654	--	--	--	--	--	--
#2	11670	--	--	--	--	--	--

Method: METTRA Sample Name: CCB5

Operator: RJG

Run Time: 03/27/01 22:41:54

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00015	-.02257	.00027	.00002	-.00113	.00671	-.00001
SDev	.00005	.00249	.00049	.00007	.00001	.00267	.00007
%RSD	35.468	11.021	181.01	461.84	.60998	39.807	667.86
#1	.00019	-.02081	-.00008	.00007	-.00114	.00482	-.00006
#2	.00011	-.02433	.00062	-.00004	-.00113	.00860	.00004
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00119	.00003	.00129	.00553	.00069	.00003	.00082
SDev	.00053	.00021	.00020	.00690	.00000	.00003	.00068
%RSD	44.848	821.07	15.536	124.93	.00000	119.05	81.954
#1	.00081	-.00012	.00144	.01041	.00069	.00000	.00130
#2	.00157	.00017	.00115	.00064	.00069	.00005	.00035
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00029	.00263	-.00075	.00038	.00312	-.00292	-.00091
SDev	.00143	.00344	.00030	.00095	.00025	.00052	.00043
%RSD	488.78	130.61	39.994	249.76	7.9428	17.881	47.455
#1	.00131	.00020	-.00054	-.00029	.00330	-.00255	-.00060
#2	-.00072	.00507	-.00096	.00105	.00295	-.00329	-.00121
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00245	.00405	.00352	-.00289	-.00047	.00010	
SDev	.00001	.00216	.00144	.00062	.00000	.00004	
%RSD	.20497	53.241	40.953	21.309	.47445	40.549	
#1	.00245	.00558	.00454	-.00245	-.00046	.00013	
#2	.00244	.00253	.00250	-.00332	-.00047	.00007	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

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IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11649	--	--	--	--	--	--
SDev	24.71283	--	--	--	--	--	--
%RSD	.2121532	--	--	--	--	--	--
#1	11631	--	--	--	--	--	--
#2	11666	--	--	--	--	--	--

Analysis Report

680 1414

03/27/01 10:50:42 PM

page 1

Method: METTRA

Sample Name: DXN6JS

Run Time: 03/27/01 22:46:20

Operator: RJG

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05211	2.0166	2.0346	2.1058	.05034	103.87	.04835
SDev	.00004	.0001	.0041	.0024	.00000	.27	.00062
%RSD	.07331	.00703	.19937	.11392	.00342	.25970	1.2854
#1	.05214	2.0165	2.0318	2.1041	.05034	103.68	.04879
#2	.05209	2.0167	2.0375	2.1075	.05034	104.06	.04791
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.52279	.20746	.29139	5.1573	22.327	1.1741	.00037
SDev	.00007	.00051	.00011	.0037	.002	.0008	.00038
%RSD	.01345	.24502	.03768	.07184	.01066	.07194	104.02
#1	.52274	.20782	.29131	5.1547	22.329	1.1735	.00064
#2	.52284	.20710	.29147	5.1599	22.326	1.1747	.00010
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50329	.50461	.49579	.49873	.00197	-.00030	.00046
SDev	.00265	.00141	.00738	.00539	.00139	.00098	.00111
%RSD	.52704	.27935	1.4891	1.0815	70.636	330.19	242.88
#1	.50517	.50361	.49057	.49491	.00099	-.00099	-.00033
#2	.50142	.50560	.50101	.50254	.00295	.00039	.00125
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	2.0004	2.0024	2.0018	2.0207	.49117	.54604	
SDev	.0095	.0036	.0008	.0062	.00064	.00052	
%RSD	.47583	.18043	.03796	.30794	.13067	.09610	
#1	2.0071	1.9999	2.0023	2.0251	.49162	.54567	
#2	1.9937	2.0050	2.0012	2.0163	.49072	.54641	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

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IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11583	--	--	--	--	--	--
SDev	.5655474	--	--	--	--	--	--
%RSD	.0048826	--	--	--	--	--	--
#1	11583	--	--	--	--	--	--
#2	11582	--	--	--	--	--	--

Method: METTRA Sample Name: DXN6JD

Operator: RJG

Run Time: 03/27/01 22:50:46

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05229	2.0415	2.0609	2.1290	.05077	104.15	.04898
SDev	.00021	.0118	.0037	.0007	.00008	.04	.00048
%RSD	.39664	.57597	.17982	.03218	.15544	.04043	.97201
#1	.05244	2.0498	2.0636	2.1295	.05082	104.12	.04932
#2	.05215	2.0332	2.0583	2.1286	.05071	104.18	.04865
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.52800	.20931	.29301	5.1686	22.368	1.1824	-.00065
SDev	.00007	.00024	.00005	.0299	.038	.0013	.00086
%RSD	.01288	.11612	.01794	.57887	.17157	.10940	132.47
#1	.52795	.20913	.29304	5.1897	22.395	1.1833	-.00125
#2	.52804	.20948	.29297	5.1474	22.340	1.1815	-.00004
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51202	.51043	.50247	.50512	.00358	-.00346	-.00111
SDev	.00444	.00071	.00604	.00380	.00136	.00190	.00172
%RSD	.86634	.13811	1.2023	.75124	38.130	54.969	154.76
#1	.51516	.50993	.50674	.50780	.00455	-.00211	.00010
#2	.50889	.51093	.49819	.50243	.00262	-.00480	-.00233
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	2.0376	2.0522	2.0474	2.0353	.49528	.55242	
SDev	.0144	.0027	.0030	.0001	.00146	.00152	
%RSD	.70832	.12913	.14841	.00537	.29512	.27448	
#1	2.0478	2.0503	2.0495	2.0353	.49425	.55349	
#2	2.0274	2.0541	2.0452	2.0352	.49632	.55135	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

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IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11575	--	--	--	--	--	--
SDev	28.07228	--	--	--	--	--	--
%RSD	.2425272	--	--	--	--	--	--
#1	11555	--	--	--	--	--	--
#2	11595	--	--	--	--	--	--

Method: METTRA Sample Name: DXX50B

Run Time: 03/27/01 22:55:12

Operator: RJG

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00041	-.01877	.00007	.00067	-.00144	.05663	-.00002
SDev	.00031	.00289	.00110	.00011	.00013	.00254	.00028
%RSD	76.273	15.408	1493.8	16.877	8.8292	4.4920	1642.8
#1	.00063	-.02082	-.00070	.00059	-.00135	.05483	-.00021
#2	.00019	-.01673	.00085	.00076	-.00153	.05843	.00018
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00005	.00032	.00176	.02919	.00560	.00038	-.00072
SDev	.00045	.00001	.00070	.00106	.00100	.00010	.00039
%RSD	856.42	1.7236	39.811	3.6344	17.926	25.252	54.145
#1	-.00027	.00032	.00126	.02844	.00631	.00045	-.00044
#2	.00037	.00031	.00225	.02994	.00489	.00032	-.00099
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00015	.00224	-.00053	.00039	.00179	-.00362	-.00182
SDev	.00041	.00053	.00065	.00061	.00091	.00541	.00330
%RSD	277.55	23.643	123.61	155.16	51.040	149.52	181.79
#1	-.00014	.00186	-.00099	-.00004	.00114	.00021	.00052
#2	.00044	.00261	-.00007	.00082	.00243	-.00744	-.00415
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	-.00018	.00553	.00363	-.00029	-.00046	.00181	
SDev	.00121	.00017	.00051	.00335	.00000	.00014	
%RSD	663.60	3.0122	14.159	1176.3	.07409	7.6667	
#1	.00067	.00565	.00399	.00209	-.00046	.00171	
#2	-.00104	.00541	.00327	-.00266	-.00046	.00191	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

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IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11594	--	--	--	--	--	--
SDev	30.79436	--	--	--	--	--	--
%RSD	.2656089	--	--	--	--	--	--
#1	11572	--	--	--	--	--	--
#2	11616	--	--	--	--	--	--

Method: METTRA Sample Name: DXX50C

Run Time: 03/27/01 22:59:37

Operator: RJG

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem Units	AG ppm	AL ppm	AS ppm	BA ppm	BE ppm	CA ppm	CD ppm
Avge	.05260	1.8888	2.0735	2.0189	.05179	L.01728	.05139
SDev	.00011	.0018	.0010	.0051	.00008	.00136	.00018
%RSD	.20766	.09497	.04682	.25189	.15340	7.8719	.34965
#1	.05267	1.8900	2.0742	2.0153	.05184	L.01824	.05152
#2	.05252	1.8875	2.0729	2.0225	.05173	L.01631	.05126
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass
High	.06000	2.4000	2.4000	2.4000	.06000	60.000	.06000
Low	.04000	1.6000	1.6000	1.6000	.04000	40.000	.04000
Elem Units	CO ppm	CR ppm	CU ppm	FE ppm	MG ppm	MN ppm	MO ppm
Avge	.55364	.21358	.25403	1.0780	L-.00070	.52605	L-.00187
SDev	.00123	.00055	.00040	.0050	.00395	.00133	.00010
%RSD	.22266	.25784	.15900	.46185	562.11	.25281	5.0959
#1	.55277	.21319	.25374	1.0815	L.00209	.52511	L-.00194
#2	.55452	.21397	.25431	1.0745	L-.00350	.52700	L-.00180
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass	LC Low
High	.60000	.24000	.30000	1.2000	60.000	.60000	1.2000
Low	.40000	.16000	.20000	.80000	40.000	.40000	.80000
Elem Units	NI ppm	PB/1 ppm	PB/2 ppm	PB ppm	SB/1 ppm	SB/2 ppm	SB ppm
Avge	.53184	.52857	.51794	.52148	-.00051	-.00141	L-.00111
SDev	.00119	.00064	.00183	.00101	.00130	.00046	.00074
%RSD	.22341	.12019	.35279	.19314	253.24	32.645	66.575
#1	.53100	.52812	.51923	.52219	.00041	-.00108	L-.00059
#2	.53268	.52902	.51665	.52076	-.00143	-.00173	L-.00163
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Low
High	.60000			.60000			.60000
Low	.40000			.40000			.40000
Elem Units	SE/1 ppm	SE/2 ppm	SE ppm	TL ppm	V_ ppm	ZN ppm	
Avge	2.0327	2.0381	2.0363	2.0629	.50773	.53579	
SDev	.0036	.0042	.0016	.0069	.00347	.00047	
%RSD	.17953	.20771	.07898	.33379	.68290	.08865	
#1	2.0353	2.0351	2.0352	2.0580	.51018	.53545	
#2	2.0302	2.0410	2.0374	2.0678	.50528	.53612	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			2.4000	2.4000	.60000	.60000	
Low			1.6000	1.6000	.40000	.40000	

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IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11616	--	--	--	--	--	--
SDev	3.217198	--	--	--	--	--	--
%RSD	.0276953	--	--	--	--	--	--
#1	11614	--	--	--	--	--	--
#2	11619	--	--	--	--	--	--

Method: METTRA Sample Name: DXR1K

Run Time: 03/27/01 23:04:03

Operator: RJG

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00109	-.02556	.00097	.00018	-.00150	.01453	.00009
SDev	.00025	.00051	.00021	.00011	.00002	.00004	.00001
%RSD	22.558	1.9921	21.291	60.804	1.0521	.28114	14.438
#1	.00127	-.02592	.00111	.00025	-.00149	.01456	.00008
#2	.00092	-.02520	.00082	.00010	-.00151	.01450	.00009
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00027	.00059	.00195	.02923	.00351	.00032	-.00078
SDev	.00004	.00024	.00049	.01729	.00199	.00000	.00087
%RSD	15.984	40.568	25.123	59.158	56.839	.56338	111.87
#1	.00030	.00076	.00230	.01700	.00492	.00032	-.00016
#2	.00024	.00042	.00160	.04145	.00210	.00032	-.00139
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00132	.00359	-.00188	-.00006	.00198	-.00012	.00058
SDev	.00062	.00249	.00088	.00141	.00244	.00319	.00294
%RSD	47.202	69.290	46.637	2356.9	123.26	2766.9	505.86
#1	.00176	.00535	-.00126	.00094	.00370	.00214	.00266
#2	.00088	.00183	-.00250	-.00106	.00025	-.00237	-.00150
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00006	.00694	.00465	-.00039	-.00046	.00205	
SDev	.00468	.00425	.00439	.00009	.00001	.00020	
%RSD	7808.9	61.232	94.471	23.230	1.2076	9.6124	
#1	.00337	.00995	.00775	-.00046	-.00046	.00219	
#2	-.00325	.00394	.00154	-.00033	-.00045	.00191	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11547	--	--	--	--	--	--
SDev	22.27386	--	--	--	--	--	--
%RSD	.1928924	--	--	--	--	--	--
#1	11532	--	--	--	--	--	--
#2	11563	--	--	--	--	--	--

Analysis Report

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Method: METTRA

Sample Name: DXR1KP5

Operator: RJG

Run Time: 03/27/01 23:08:29

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00013	-.03014	.00068	-.00013	-.00147	.00858	.00004
SDev	.00038	.00741	.00024	.00007	.00004	.00001	.00016
%RSD	281.20	24.575	35.193	55.240	2.7471	.14504	418.99
#1	-.00040	-.02490	.00051	-.00008	-.00144	.00858	-.00008
#2	.00013	-.03538	.00085	-.00019	-.00150	.00857	.00015
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00003	-.00033	.00131	.01691	-.00278	-.00002	-.00154
SDev	.00022	.00037	.00024	.01144	.00295	.00009	.00019
%RSD	666.41	114.87	18.361	67.617	106.09	445.47	12.407
#1	.00012	-.00006	.00148	.02500	-.00487	-.00009	-.00140
#2	-.00019	-.00059	.00114	.00883	-.00069	.00004	-.00168
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00087	-.00009	.00093	.00059	.00089	-.00092	-.00032
SDev	.00204	.00351	.00122	.00036	.00073	.00119	.00055
%RSD	235.40	3741.7	130.68	60.623	82.254	129.69	174.19
#1	.00231	-.00258	.00179	.00034	.00037	-.00008	.00007
#2	-.00058	.00239	.00007	.00084	.00141	-.00176	-.00071
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00117	.00672	.00487	.00033	.00234	.00047	
SDev	.00170	.00096	.00007	.00223	.00396	.00018	
%RSD	144.89	14.283	1.5429	668.21	169.13	38.621	
#1	-.00003	.00739	.00492	.00191	-.00046	.00060	
#2	.00237	.00604	.00482	-.00124	.00514	.00034	

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IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11683	--	--	--	--	--	--
SDev	9.545941	--	--	--	--	--	--
%RSD	.0817048	--	--	--	--	--	--
#1	11677	--	--	--	--	--	--
#2	11690	--	--	--	--	--	--

Method: METTRA Sample Name: DXR1KS

Run Time: 03/27/01 23:12:56

Operator: RJG

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05255	1.8823	2.0708	2.0158	.05134	.03743	.05122
SDev	.00006	.0047	.0079	.0023	.00012	.00271	.00007
%RSD	.12444	.24910	.38383	.11200	.23338	7.2355	.14445
#1	.05250	1.8856	2.0764	2.0174	.05142	.03551	.05127
#2	.05259	1.8790	2.0651	2.0142	.05125	.03934	.05116
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.55362	.21389	.25362	1.1331	.00279	.52630	-.00140
SDev	.00006	.00001	.00039	.0022	.00099	.00040	.00057
%RSD	.01160	.00466	.15480	.19818	35.432	.07625	41.127
#1	.55358	.21389	.25389	1.1315	.00349	.52659	-.00180
#2	.55367	.21388	.25334	1.1347	.00209	.52602	-.00099
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.52859	.52392	.51842	.52025	.00099	-.00270	-.00147
SDev	.00712	.00042	.00366	.00258	.00133	.00110	.00029
%RSD	1.3465	.07946	.70587	.49581	134.86	40.863	19.793
#1	.53363	.52422	.52101	.52207	.00193	-.00348	-.00167
#2	.52356	.52363	.51583	.51843	.00005	-.00192	-.00126
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	2.0308	2.0289	2.0295	2.0524	.50557	.53854	
SDev	.0010	.0011	.0004	.0129	.00069	.00062	
%RSD	.05043	.05371	.01901	.62822	.13614	.11524	
#1	2.0315	2.0281	2.0293	2.0433	.50606	.53898	
#2	2.0300	2.0297	2.0298	2.0615	.50508	.53810	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11602	--	--	--	--	--	--
SDev	.5303301	--	--	--	--	--	--
%RSD	.0045712	--	--	--	--	--	--
#1	11601	--	--	--	--	--	--
#2	11602	--	--	--	--	--	--

Method: METTRA Sample Name: DXR1KD

Operator: RJG

Run Time: 03/27/01 23:17:22

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05147	1.8477	2.0358	1.9810	.05053	.01337	.05061
SDev	.00046	.0019	.0017	.0020	.00012	.00130	.00007
%RSD	.88989	.10431	.08318	.10230	.23054	9.7288	.13390
#1	.05179	1.8491	2.0346	1.9825	.05062	.01245	.05066
#2	.05115	1.8464	2.0370	1.9796	.05045	.01429	.05056
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.54438	.21080	.25034	1.0918	.00000	.51749	-.00120
SDev	.00169	.00097	.00060	.0078	.00492	.00082	.00029
%RSD	.30970	.46058	.24037	.71169	142210.	.15822	24.106
#1	.54557	.21149	.25076	1.0863	.00348	.51807	-.00100
#2	.54319	.21012	.24991	1.0972	-.00348	.51691	-.00141
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.52005	.51559	.50947	.51150	-.00075	-.00053	-.00060
SDev	.00317	.00525	.00128	.00260	.00195	.00318	.00147
%RSD	.61044	1.0174	.25143	.50853	259.21	603.00	244.78
#1	.52230	.51930	.51037	.51334	-.00213	.00172	.00044
#2	.51781	.51188	.50856	.50967	.00063	-.00278	-.00164
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	1.9923	1.9957	1.9945	2.0233	.49767	.52633	
SDev	.0155	.0171	.0166	.0056	.00151	.00011	
%RSD	.77896	.85886	.83228	.27905	.30266	.02165	
#1	2.0032	2.0078	2.0063	2.0193	.49874	.52625	
#2	1.9813	1.9836	1.9828	2.0273	.49661	.52641	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11659	--	--	--	--	--	--
SDev	27.57716	--	--	--	--	--	--
%RSD	.2365281	--	--	--	--	--	--
#1	11640	--	--	--	--	--	--
#2	11679	--	--	--	--	--	--

Method: METTRA Sample Name: DXR1Q

Operator: RJG

Run Time: 03/27/01 23:21:48

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00043	-.03109	.00148	.00015	-.00155	.14970	.00037
SDev	.00001	.00151	.00049	.00005	.00012	.00159	.00028
%RSD	3.1877	4.8482	32.797	34.458	7.6819	1.0619	77.194
#1	.00042	-.03215	.00182	.00019	-.00147	.14858	.00017
#2	.00044	-.03002	.00114	.00011	-.00163	.15082	.00057
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00031	-.00013	.00247	.01534	.00210	.00030	-.00106
SDev	.00009	.00026	.00049	.00002	.00595	.00010	.00106
%RSD	29.636	198.55	19.711	.13547	283.23	32.402	100.12
#1	.00037	-.00032	.00212	.01532	-.00211	.00023	-.00180
#2	.00024	.00005	.00281	.01535	.00630	.00036	-.00031
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00095	.00410	-.00010	.00130	.00198	-.00381	-.00189
SDev	.00093	.00033	.00038	.00014	.00679	.00203	.00090
%RSD	97.687	8.1260	371.60	11.116	343.17	53.276	47.927
#1	.00029	.00387	.00017	.00140	.00678	-.00525	-.00125
#2	.00161	.00434	-.00037	.00120	-.00282	-.00238	-.00253
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00	~		5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00094	.00496	.00362	.00113	-.00046	.00946	
SDev	.00060	.00283	.00209	.00200	.00000	.00011	
%RSD	63.346	57.127	57.665	176.58	.00143	1.1252	
#1	.00136	.00696	.00510	-.00028	-.00046	.00939	
#2	.00052	.00296	.00215	.00255	-.00046	.00954	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

680 1431

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11589	--	--	--	--	--	--
SDev	17.28821	--	--	--	--	--	--
%RSD	.1491736	--	--	--	--	--	--
#1	11602	--	--	--	--	--	--
#2	11577	--	--	--	--	--	--

Method: METTRA Sample Name: DXR1X

Operator: RJG

Run Time: 03/27/01 23:26:14

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00042	-.02446	-.00025	.00018	-.00154	.02603	.00016
SDev	.00000	.00288	.00156	.00007	.00013	.00009	.00005
%RSD	.02510	11.758	630.23	41.214	8.2110	.34272	28.706
#1	.00042	-.02243	.00086	.00024	-.00145	.02610	.00019
#2	.00042	-.02650	-.00135	.00013	-.00163	.02597	.00013
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00043	.00009	.00191	.03002	.00350	.00028	-.00078
SDev	.00027	.00081	.00045	.00003	.00199	.00000	.00049
%RSD	61.960	898.77	23.390	.10735	56.874	.88506	62.229
#1	.00062	.00066	.00222	.03004	.00491	.00028	-.00044
#2	.00024	-.00048	.00159	.02999	.00210	.00027	-.00112
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00146	.00224	.00058	.00114	.00285	-.00076	.00044
SDev	.00103	.00071	.00050	.00057	.00013	.00293	.00191
%RSD	71.043	31.818	85.198	50.134	4.4480	385.51	431.79
#1	-.00219	.00174	.00023	.00073	.00277	.00131	.00180
#2	-.00072	.00275	.00094	.00154	.00294	-.00283	-.00091
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00159	.00452	.00249	-.00083	-.00046	.00206	
SDev	.00317	.00480	.00425	.00395	.00000	.00011	
%RSD	199.28	106.01	171.01	476.66	.00225	5.2063	
#1	-.00383	.00113	-.00052	.00196	-.00046	.00214	
#2	.00065	.00791	.00550	-.00362	-.00046	.00199	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11565	--	--	--	--	--	--
SDev	31.57259	--	--	--	--	--	--
%RSD	.2730101	--	--	--	--	--	--
#1	11542	--	--	--	--	--	--
#2	11587	--	--	--	--	--	--

Method: METTRA Sample Name: CCV3-6

Operator: RJG

Run Time: 03/27/01 23:30:41

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0431	24.771	.51608	1.9939	2.0731	52.117	.49993
SDev	.0011	.017	.00277	.0005	.0028	.024	.00247
%RSD	.10222	.06851	.53758	.02276	.13715	.04661	.49371
#1	1.0439	24.783	.51804	1.9943	2.0752	52.134	.50167
#2	1.0423	24.759	.51412	1.9936	2.0711	52.100	.49818
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	55.000	.55000
Low	.90000	22.500	.45000	1.8000	1.8000	45.000	.45000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0877	2.0586	1.9775	25.525	49.793	2.0379	2.0452
SDev	.0047	.0031	.0027	.054	.169	.0030	.0040
%RSD	.22489	.15197	.13876	.21285	.33853	.14874	.19757
#1	2.0911	2.0609	1.9794	25.564	49.912	2.0401	2.0480
#2	2.0844	2.0564	1.9755	25.487	49.674	2.0358	2.0423
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	27.500	55.000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	22.500	45.000	1.8000	1.8000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0108	.51727	.50851	.51143	.51952	.51628	.51736
SDev	.0123	.00369	.00255	.00047	.00467	.00500	.00490
%RSD	.60992	.71352	.50170	.09241	.89962	.96950	.94613
#1	2.0195	.51466	.51032	.51176	.52282	.51981	.52082
#2	2.0021	.51988	.50671	.51110	.51621	.51274	.51389
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000			.55000			.55000
Low	1.8000			.45000			.45000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.52423	.52839	.52700	1.0203	1.9857	2.0499	
SDev	.00636	.00552	.00580	.0056	.0053	.0081	
%RSD	1.2137	1.0448	1.1008	.54620	.26511	.39278	
#1	.52873	.53229	.53110	1.0242	1.9894	2.0555	
#2	.51973	.52448	.52290	1.0163	1.9820	2.0442	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.55000	1.1000	2.2000	2.2000	
Low			.45000	.90000	1.8000	1.8000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11652	--	--	--	--	--	--
SDev	28.95616	--	--	--	--	--	--
%RSD	.2484990	--	--	--	--	--	--
#1	11632	--	--	--	--	--	--
#2	11673	--	--	--	--	--	--

Method: METTRA Sample Name: CCB6

Operator: RJG

Run Time: 03/27/01 23:35:07

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00012	-.02491	.00102	.00009	-.00124	.00575	.00018
SDev	.00023	.00019	.00025	.00009	.00006	.00403	.00007
%RSD	188.07	.75697	24.635	104.51	4.9147	70.105	36.850
#1	-.00004	-.02478	.00085	.00002	-.00120	.00290	.00023
#2	.00028	-.02505	.00120	.00016	-.00129	.00860	.00013
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00028	.00012	.00146	-.00170	.00278	.00005	.00129
SDev	.00049	.00026	.00051	.00800	.00492	.00019	.00039
%RSD	176.25	205.01	35.254	471.30	177.05	398.50	29.880
#1	-.00007	-.00006	.00109	.00396	-.00070	-.00009	.00157
#2	.00063	.00030	.00182	-.00735	.00626	.00018	.00102
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00007	.00293	-.00006	.00094	.00130	-.00391	-.00218
SDev	.00133	.00039	.00135	.00077	.00199	.00002	.00065
%RSD	1858.7	13.271	2315.7	82.528	153.17	.47730	29.801
#1	-.00101	.00266	.00090	.00149	-.00011	-.00390	-.00264
#2	.00087	.00321	-.00102	.00039	.00270	-.00392	-.00172
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00343	.00331	.00335	.00328	.00188	.00014	
SDev	.00087	.00326	.00188	.00225	.00332	.00038	
%RSD	25.470	98.594	56.284	68.764	176.75	279.36	
#1	.00281	.00561	.00468	.00168	.00423	-.00013	
#2	.00405	.00100	.00201	.00487	-.00047	.00041	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11654	--	--	--	--	--	--
SDev	15.02602	--	--	--	--	--	--
%RSD	.1289358	--	--	--	--	--	--
#1	11643	--	--	--	--	--	--
#2	11664	--	--	--	--	--	--

Method: METTRA Sample Name: DXX5RB

Operator: RJG

Run Time: 03/27/01 23:39:33

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00073	-.02510	-.00004	-.00008	-.00156	.00677	.00022
SDev	.00010	.01108	.00061	.00002	.00004	.00268	.00017
%RSD	13.019	44.136	1693.1	26.787	2.4055	39.640	76.090
#1	.00080	-.01727	.00039	-.00006	-.00154	.00487	.00034
#2	.00067	-.03293	-.00047	-.00010	-.00159	.00866	.00010
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00018	.00047	.00138	.01290	.00140	-.00011	.00003
SDev	.00018	.00050	.00030	.00112	.00495	.00003	.00028
%RSD	100.49	106.97	21.469	8.7135	353.85	28.783	1104.8
#1	.00005	.00082	.00159	.01211	.00490	-.00013	-.00017
#2	.00031	.00011	.00117	.01370	-.00210	-.00008	.00022
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00102	.00245	.00060	.00121	.00121	-.00213	-.00102
SDev	.00000	.00194	.00104	.00005	.00067	.00290	.00216
%RSD	.25995	79.252	173.19	3.8710	55.665	136.38	212.61
#1	.00102	.00382	-.00013	.00118	.00169	-.00008	.00051
#2	.00102	.00108	.00133	.00125	.00073	-.00418	-.00254
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00059	-.00034	-.00003	-.00146	-.00046	-.00004	
SDev	.00145	.00533	.00404	.00280	.00000	.00015	
%RSD	244.98	1551.8	12795.	191.20	.07764	347.49	
#1	.00162	.00342	.00282	-.00344	-.00046	.00006	
#2	-.00043	-.00411	-.00289	.00052	-.00046	-.00014	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11599	--	--	--	--	--	--
SDev	24.50083	--	--	--	--	--	--
%RSD	.2112373	--	--	--	--	--	--
#1	.11581	--	--	--	--	--	--
#2	11616	--	--	--	--	--	--

Method: METTRA Sample Name: DXX5RC

Operator: RJG

Run Time: 03/27/01 23:43:59

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05154	1.8670	2.0565	1.9829	.05066	L.01230	.05092
SDev	.00012	.0006	.0026	.0004	.00002	.00006	.00001
%RSD	.23359	.03405	.12843	.01809	.03030	.44325	.02795
#1	.05146	1.8674	2.0584	1.9827	.05065	L.01226	.05091
#2	.05163	1.8665	2.0546	1.9832	.05067	L.01234	.05093
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass
High	.06000	2.4000	2.4000	2.4000	.06000	60.000	.06000
Low	.04000	1.6000	1.6000	1.6000	.04000	40.000	.04000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.54556	.21055	.24791	1.0771	L.00138	.51696	L-.00047
SDev	.00065	.00034	.00049	.0033	.00098	.00078	.00020
%RSD	.11839	.16302	.19752	.30437	70.527	.15083	41.244
#1	.54601	.21079	.24756	1.0747	L.00207	.51752	L-.00061
#2	.54510	.21031	.24826	1.0794	L.00069	.51641	L-.00034
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass	LC Low
High	.60000	.24000	.30000	1.2000	60.000	.60000	1.2000
Low	.40000	.16000	.20000	.80000	40.000	.40000	.80000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.52190	.51657	.51213	.51361	.00134	-.00315	L-.00165
SDev	.00114	.00189	.00065	.00019	.00460	.00074	.00203
%RSD	.21867	.36517	.12754	.03748	344.21	23.629	122.61
#1	.52271	.51524	.51259	.51347	-.00192	-.00367	L-.00309
#2	.52109	.51791	.51167	.51374	.00459	-.00262	L-.00022
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Low
High	.60000			.60000			.60000
Low	.40000			.40000			.40000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	2.0628	2.0640	2.0637	2.0321	.49651	.53131	
SDev	.0059	.0048	.0051	.0016	.00055	.00061	
%RSD	.28378	.23189	.24916	.07679	.10974	.11575	
#1	2.0587	2.0607	2.0600	2.0310	.49690	.53175	
#2	2.0670	2.0674	2.0673	2.0332	.49613	.53088	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			2.4000	2.4000	.60000	.60000	
Low			1.6000	1.6000	.40000	.40000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11736	--	--	--	--	--	--
SDev	33.76435	--	--	--	--	--	--
%RSD	.2877057	--	--	--	--	--	--
#1	11760	--	--	--	--	--	--
#2	11712	--	--	--	--	--	--

Method: METTRA Sample Name: DXRRL

Operator: RJG

Run Time: 03/27/01 23:48:25

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00045	67.183	.03655	.35593	.00144	301.58	-.00464
SDev	.00025	.013	.00102	.00028	.00016	.19	.00038
%RSD	54.439	.02000	2.7810	.07980	10.889	.06413	8.1379

#1	-.00063	67.193	.03727	.35613	.00155	301.44	-.00437
#2	-.00028	67.174	.03583	.35573	.00133	301.72	-.00491

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01589	.14701	.03678	176.69	110.88	.75960	.00355
SDev	.00067	.00095	.00018	.16	.32	.00011	.00077
%RSD	4.2445	.64676	.48832	.08917	.28450	.01503	21.774

#1	.01541	.14634	.03665	176.80	111.10	.75968	.00300
#2	.01636	.14769	.03691	176.58	110.66	.75952	.00409

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02656	.09044	.08375	.08598	.00529	-.00387	-.00082
SDev	.00010	.00202	.00027	.00085	.00243	.00097	.00146
%RSD	.36099	2.2308	.32547	.99288	45.920	25.136	177.34

#1	.02649	.09187	.08394	.08658	.00357	-.00456	-.00185
#2	.02662	.08901	.08356	.08538	.00700	-.00318	.00021

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00906	.00676	.00752	.01284	.23410	.09825
SDev	.00035	.00753	.00514	.00319	.00057	.00018
%RSD	3.8219	111.52	68.334	24.863	.24201	.17934

#1	.00881	.00143	.00389	.01509	.23370	.09812
#2	.00930	.01208	.01116	.01058	.23450	.09837

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

680 1443

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11471	--	--	--	--	--	--
SDev	3.641876	--	--	--	--	--	--
%RSD	.0317478	--	--	--	--	--	--
#1	11469	--	--	--	--	--	--
#2	11474	--	--	--	--	--	--

Method: METTRA Sample Name: DXRT6

Operator: RJG

Run Time: 03/27/01 23:52:51

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00102	86.652	.03348	.55291	.00222	13.634	-.00432
SDev	.00023	.015	.00040	.00085	.00005	.007	.00035
%RSD	22.490	.01726	1.1900	.15384	2.2095	.05375	7.9862

#1	-.00086	86.663	.03320	.55351	.00226	13.629	-.00457
#2	-.00118	86.641	.03377	.55231	.00219	13.639	-.00408

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02081	.13285	.04836	171.20	5.3995	1.1177	.00315
SDev	.00009	.00046	.00018	.02	.0040	.0005	.00008
%RSD	.44615	.34327	.36551	.01408	.07478	.04182	2.5121

#1	.02074	.13317	.04824	171.22	5.4024	1.1173	.00320
#2	.02087	.13253	.04849	171.18	5.3967	1.1180	.00309

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03140	.10490	.09527	.09847	.00232	-.00369	-.00169
SDev	.00159	.00151	.00010	.00044	.00272	.00220	.00238
%RSD	5.0591	1.4411	.10206	.44533	117.21	59.643	140.55

#1	.03028	.10597	.09520	.09878	.00040	-.00525	-.00337
#2	.03252	.10383	.09534	.09816	.00425	-.00214	-.00001

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00925	.01244	.01138	.01258	.22528	.13145
SDev	.00172	.00099	.00123	.00411	.00023	.00020
%RSD	18.541	7.9765	10.837	32.706	.10434	.15113

#1	.01047	.01314	.01225	.00967	.22544	.13159
#2	.00804	.01174	.01051	.01549	.22511	.13131

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11849	--	--	--	--	--	--
SDev	29.41606	--	--	--	--	--	--
%RSD	.2482504	--	--	--	--	--	--
#1	11870	--	--	--	--	--	--
#2	11829	--	--	--	--	--	--

Method: METTRA Sample Name: DXRT9

Operator: RJG

Run Time: 03/27/01 23:57:18

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00122	98.717	.04087	.49949	.00297	7.8642	L-.00725
SDev	.00032	.062	.00004	.00112	.00021	.0090	.00008
%RSD	26.136	.06261	.10020	.22358	6.9439	.11498	1.0765

#1	-.00144	98.674	.04090	.49870	.00312	7.8706	L-.00719
#2	-.00099	98.761	.04084	.50027	.00282	7.8578	L-.00730

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02056	.18073	.07745	274.22	4.0919	1.0733	.00514
SDev	.00038	.00081	.00074	.18	.0046	.0010	.00046
%RSD	1.8676	.44584	.95942	.06573	.11208	.08969	9.0402

#1	.02083	.18130	.07692	274.34	4.0951	1.0740	.00547
#2	.02029	.18017	.07797	274.09	4.0886	1.0726	.00481

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04087	.12414	.10960	.11444	.00729	-.00566	-.00135
SDev	.00123	.00006	.00059	.00037	.00263	.00422	.00369
%RSD	3.0094	.04942	.53921	.32658	36.104	74.590	273.53

#1	.04000	.12419	.10918	.11418	.00915	-.00268	.00126
#2	.04174	.12410	.11002	.11471	.00543	-.00865	-.00396

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01141	.00360	.00620	.02304	.27830	.16375
SDev	.00126	.00322	.00257	.00540	.00093	.00012
%RSD	11.002	89.317	41.356	23.444	.33528	.07162

#1	.01052	.00133	.00439	.01922	.27896	.16383
#2	.01230	.00588	.00802	.02686	.27764	.16367

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11847	--	--	--	--	--	--
SDev	6.363961	--	--	--	--	--	--
%RSD	.0537197	--	--	--	--	--	--
#1	11851	--	--	--	--	--	--
#2	11842	--	--	--	--	--	--

Method: METTRA Sample Name: DXRVA

Operator: RJG

Run Time: 03/28/01 00:01:44

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00059	107.95	.03031	.46998	.00236	7.0384	L-.00512
SDev	.00019	.02	.00040	.00020	.00023	.0016	.00020
%RSD	32.241	.02171	1.3060	.04287	9.8777	.02297	3.9620

#1	-.00072	107.94	.03059	.47012	.00252	7.0372	-.00498
#2	-.00045	107.97	.03003	.46984	.00219	7.0395	L-.00527

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02204	.15577	.08431	191.89	4.9112	.40411	.00254
SDev	.00012	.00003	.00019	.02	.0072	.00009	.00029
%RSD	.56091	.01659	.23119	.01146	.14733	.02134	11.536

#1	.02213	.15579	.08445	191.91	4.9163	.40417	.00275
#2	.02195	.15575	.08418	191.88	4.9060	.40405	.00233

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03186	.09054	.07505	.08021	.00482	-.00417	-.00117
SDev	.00016	.00205	.00234	.00224	.00037	.00017	.00024
%RSD	.48807	2.2637	3.1128	2.7936	7.7524	4.1079	20.320

#1	.03197	.08909	.07340	.07862	.00456	-.00429	-.00134
#2	.03175	.09199	.07670	.08179	.00508	-.00405	-.00101

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00880	.00881	.00881	.01693	.23107	.13126
SDev	.00259	.00302	.00115	.00156	.00201	.00032
%RSD	29.449	34.347	13.109	9.2232	.87128	.24508

#1	.01064	.00667	.00799	.01803	.22964	.13103
#2	.00697	.01095	.00962	.01582	.23249	.13149

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

680 1449

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11730	--	--	--	--	--	--
SDev	19.62221	--	--	--	--	--	--
%RSD	.1672819	--	--	--	--	--	--
#1	11716	--	--	--	--	--	--
#2	11744	--	--	--	--	--	--

Method: METTRA Sample Name: DXRVH

Operator: RJG

Run Time: 03/28/01 00:06:10

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00130	90.004	.02408	.68200	.00223	6.2189	-.00351
SDev	.00016	.003	.00058	.00080	.00011	.0007	.00022
%RSD	12.308	.00291	2.3946	.11751	5.0030	.01081	6.2229
#1	-.00119	90.002	.02449	.68257	.00231	6.2193	-.00335
#2	-.00141	90.006	.02368	.68143	.00215	6.2184	-.00366
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03309	.11340	.05979	145.06	3.5845	1.8261	.00158
SDev	.00080	.00008	.00047	.06	.0111	.0021	.00010
%RSD	2.4069	.07127	.79498	.03837	.30967	.11247	5.9927
#1	.03365	.11346	.06013	145.02	3.5924	1.8275	.00165
#2	.03252	.11335	.05946	145.10	3.5767	1.8246	.00151
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02999	.12210	.10881	.11324	.00473	-.00269	-.00022
SDev	.00071	.00162	.00003	.00056	.00028	.00170	.00123
%RSD	2.3737	1.3302	.02719	.49507	5.8023	63.381	564.10
#1	.03050	.12325	.10883	.11363	.00454	-.00390	-.00109
#2	.02949	.12095	.10879	.11284	.00493	-.00148	.00065
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00572	.00382	.00446	.00939	.19417	.13237	
SDev	.00305	.00242	.00060	.00549	.00000	.00021	
%RSD	53.255	63.345	13.491	58.437	.00092	.15858	
#1	.00357	.00554	.00488	.01327	.19417	.13252	
#2	.00787	.00211	.00403	.00551	.19417	.13222	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

680 1451

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11788	--	--	--	--	--	--
SDev	1.272654	--	--	--	--	--	--
%RSD	.0107957	--	--	--	--	--	--
#1	11788	--	--	--	--	--	--
#2	11789	--	--	--	--	--	--

Method: METTRA Sample Name: DXRVHP5

Operator: RJG

Run Time: 03/28/01 00:10:36

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00054	17.232	.00513	.13559	-.00091	1.2567	-.00086
SDev	.00039	.065	.00120	.00076	.00011	.0047	.00015
%RSD	72.232	.37717	23.298	.55654	12.109	.37456	17.372

#1	-.00081	17.186	.00429	.13506	-.00083	1.2534	-.00097
#2	-.00026	17.278	.00598	.13612	-.00099	1.2601	-.00076

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00644	.02218	.01217	28.967	.70409	.36502	-.00088
SDev	.00079	.00096	.00042	.043	.00111	.00090	.00019
%RSD	12.306	4.3471	3.4052	.14869	.15729	.24660	21.590

#1	.00588	.02149	.01188	28.937	.70330	.36439	-.00075
#2	.00700	.02286	.01247	28.998	.70487	.36566	-.00101

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00517	.02649	.02060	.02256	.00198	.00128	.00151
SDev	.00183	.00444	.00142	.00053	.00273	.00153	.00193
%RSD	35.376	16.751	6.9161	2.3391	137.59	119.75	127.54

#1	.00646	.02336	.02160	.02219	.00391	.00236	.00288
#2	.00388	.02963	.01959	.02293	.00005	.00020	.00015

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00627	.00659	.00648	.00502	.03853	.02651
SDev	.00017	.00635	.00418	.00341	.00000	.00020
%RSD	2.7711	96.418	64.479	67.928	.00351	.76414

#1	.00614	.01108	.00943	.00261	.03853	.02666
#2	.00639	.00210	.00353	.00743	.03853	.02637

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11755	--	--	--	--	--	--
SDev	5.975191	--	--	--	--	--	--
%RSD	.0508301	--	--	--	--	--	--
#1	11751	--	--	--	--	--	--
#2	11759	--	--	--	--	--	--

Method: METTRA Sample Name: DXRVHS

Operator: RJG

Run Time: 03/28/01 00:15:02

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04812	98.179	1.8934	2.3878	.05240	5.8695	.04137
SDev	.00016	.867	.0228	.0250	.00069	.0516	.00075
%RSD	.32726	.88348	1.2042	1.0472	1.3169	.87853	1.8227
#1	.04801	98.793	1.9095	2.4055	.05289	5.9059	.04190
#2	.04824	97.566	1.8773	2.3701	.05192	5.8330	.04084
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.54023	.40010	.31306	232.41	3.4050	1.8081	.00246
SDev	.00430	.00418	.00324	2.21	.0451	.0169	.00003
%RSD	.79592	1.0444	1.0335	.95296	1.3236	.93329	1.3778
#1	.54327	.40305	.31534	233.97	3.4368	1.8200	.00248
#2	.53719	.39714	.31077	230.84	3.3731	1.7961	.00243
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.52435	.61438	.59344	.60041	.00340	-.00103	.00045
SDev	.00513	.00326	.00468	.00421	.00103	.00493	.00295
%RSD	.97927	.53079	.78878	.70087	30.109	478.67	660.96
#1	.52798	.61669	.59675	.60339	.00413	-.00452	-.00164
#2	.52072	.61208	.59013	.59744	.00268	.00246	.00253
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	1.9022	1.9152	1.9109	1.9366	.74182	.63613	
SDev	.0254	.0047	.0116	.0087	.00932	.00744	
%RSD	1.3337	.24753	.60760	.45123	1.2563	1.1693	
#1	1.9202	1.9185	1.9191	1.9428	.74841	.64139	
#2	1.8843	1.9118	1.9026	1.9305	.73523	.63087	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

680 1455

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11763	--	--	--	--	--	--
SDev	76.47388	--	--	--	--	--	--
%RSD	.6501042	--	--	--	--	--	--
#1	11709	--	--	--	--	--	--
#2	11817	--	--	--	--	--	--

Method: METTRA Sample Name: DXRVHD

Operator: RJG

Run Time: 03/28/01 00:19:29

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04872	103.82	1.8606	2.4660	.05235	6.9661	.04294
SDev	.00021	.02	.0099	.0025	.00030	.0026	.00023
%RSD	.43383	.02020	.53445	.10144	.56667	.03734	.54800
#1	.04886	103.83	1.8677	2.4678	.05256	6.9680	.04311
#2	.04857	103.80	1.8536	2.4642	.05214	6.9643	.04278
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.54492	.31663	.32393	156.20	3.6542	1.8003	.00392
SDev	.00090	.00056	.00081	.20	.0034	.0030	.00075
%RSD	.16524	.17783	.25068	.12801	.09303	.16758	19.020
#1	.54556	.31703	.32450	156.35	3.6566	1.8024	.00340
#2	.54428	.31623	.32336	156.06	3.6518	1.7982	.00445
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.52510	.59894	.57667	.58409	.00258	-.00426	-.00198
SDev	.00232	.00129	.00108	.00115	.00050	.00189	.00143
%RSD	.44204	.21599	.18686	.19681	19.422	44.275	71.927
#1	.52674	.59803	.57591	.58327	.00223	-.00560	-.00299
#2	.52346	.59986	.57743	.58490	.00294	-.00293	-.00097
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	1.9096	1.9206	1.9169	1.9251	.65038	.65527	
SDev	.0089	.0031	.0009	.0041	.00185	.00110	
%RSD	.46616	.16050	.04737	.21297	.28423	.16848	
#1	1.9158	1.9185	1.9176	1.9222	.65169	.65606	
#2	1.9033	1.9228	1.9163	1.9280	.64908	.65449	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

680 1457

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11767	--	--	--	--	--	--
SDev	15.66269	--	--	--	--	--	--
%RSD	.1331066	--	--	--	--	--	--
#1	11756	--	--	--	--	--	--
#2	11778	--	--	--	--	--	--

Method: METTRA Sample Name: CCV3-7

Operator: RJG

Run Time: 03/28/01 00:23:55

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0564	25.076	.52114	2.0240	2.0955	52.809	.50212
SDev	.0009	.002	.00111	.0005	.0012	.045	.00127
%RSD	.08410	.00635	.21213	.02676	.05612	.08435	.25250
#1	1.0570	25.077	.52192	2.0244	2.0963	52.778	.50302
#2	1.0557	25.075	.52036	2.0236	2.0946	52.841	.50122
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	55.000	.55000
Low	.90000	22.500	.45000	1.8000	1.8000	45.000	.45000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.1047	2.0758	2.0080	25.810	50.112	2.0535	2.0603
SDev	.0015	.0008	.0011	.055	.076	.0012	.0029
%RSD	.06978	.03635	.05721	.21503	.15250	.05987	.14077
#1	2.1058	2.0763	2.0088	25.771	50.166	2.0544	2.0583
#2	2.1037	2.0753	2.0071	25.849	50.058	2.0526	2.0624
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	27.500	55.000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	22.500	45.000	1.8000	1.8000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0232	.51701	.50776	.51084	.51724	.51527	.51592
SDev	.0042	.00235	.00127	.00006	.00697	.00096	.00296
%RSD	.20562	.45459	.24942	.01215	1.3471	.18609	.57371
#1	2.0261	.51535	.50865	.51088	.52216	.51595	.51802
#2	2.0202	.51867	.50686	.51080	.51231	.51459	.51383
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000			.55000			.55000
Low	1.8000			.45000			.45000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.52501	.52506	.52504	1.0292	2.0039	2.0664	
SDev	.00151	.00586	.00441	.0052	.0053	.0018	
%RSD	.28841	1.1162	.84055	.50366	.26349	.08774	
#1	.52608	.52920	.52816	1.0329	2.0077	2.0677	
#2	.52394	.52091	.52192	1.0255	2.0002	2.0651	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.55000	1.1000	2.2000	2.2000	
Low			.45000	.90000	1.8000	1.8000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11660	--	--	--	--	--	--
SDev	11.59683	--	--	--	--	--	--
%RSD	.0994569	--	--	--	--	--	--
#1	11652	--	--	--	--	--	--
#2	11668	--	--	--	--	--	--

Method: METTRA Sample Name: CCB7

Operator: RJG

Run Time: 03/28/01 00:28:21

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00053	-.02828	.00043	.00012	-.00158	.00762	.00023
SDev	.00024	.00353	.00059	.00005	.00006	.00130	.00000
%RSD	45.460	12.468	138.39	43.247	3.5926	17.116	.54170
#1	.00036	-.02579	.00001	.00008	-.00154	.00670	.00023
#2	.00070	-.03078	.00085	.00016	-.00162	.00854	.00023
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00066	.00018	.00194	.01529	.00556	.00018	.00122
SDev	.00022	.00030	.00021	.01373	.00100	.00000	.00182
%RSD	33.946	161.48	10.616	89.786	17.929	1.2955	149.32
#1	.00050	-.00003	.00209	.02500	.00626	.00018	.00250
#2	.00082	.00040	.00180	.00558	.00485	.00018	-.00007
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00065	.00381	-.00200	-.00007	-.00061	-.00269	-.00200
SDev	.00071	.00001	.00170	.00114	.00117	.00030	.00019
%RSD	109.59	.37582	85.191	1753.0	191.57	11.067	9.4895
#1	.00015	.00382	-.00079	.00074	.00022	-.00290	-.00186
#2	.00115	.00380	-.00320	-.00087	-.00143	-.00248	-.00213
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00554	.00173	.00300	.00130	-.00046	.00003	
SDev	.00263	.00056	.00051	.00077	.00000	.00005	
%RSD	47.432	32.107	16.845	59.482	.94958	171.32	
#1	.00368	.00212	.00264	.00185	-.00046	.00006	
#2	.00740	.00134	.00336	.00075	-.00047	-.00001	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11687	--	--	--	--	--	--
SDev	33.83547	--	--	--	--	--	--
%RSD	.2895082	--	--	--	--	--	--
#1	11663	--	--	--	--	--	--
#2	11711	--	--	--	--	--	--

Method: METTRA Sample Name: DXRVL

Operator: RJG

Run Time: 03/28/01 00:32:48

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00106	90.221	.02932	.49171	.00186	10.260	-.00447
SDev	.00100	.064	.00089	.00151	.00014	.003	.00035
%RSD	94.435	.07089	3.0331	.30742	7.2884	.03169	7.9384
#1	-.00177	90.267	.02869	.49278	.00195	10.258	-.00472
#2	-.00035	90.176	.02995	.49064	.00176	10.263	-.00422
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.03100	.12149	.07521	170.53	3.3578	1.1876	.00262
SDev	.00070	.00010	.00031	.14	.0096	.0014	.00008
%RSD	2.2466	.08387	.41608	.08453	.28552	.12183	3.0121
#1	.03051	.12142	.07499	170.63	3.3646	1.1886	.00267
#2	.03149	.12156	.07543	170.43	3.3511	1.1866	.00256
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.03481	.10327	.09282	.09630	.00219	-.00161	-.00035
SDev	.00061	.00021	.00284	.00197	.00145	.00241	.00209
%RSD	1.7430	.20445	3.0628	2.0421	66.165	149.24	601.17
#1	.03524	.10342	.09483	.09769	.00321	.00009	.00113
#2	.03439	.10312	.09081	.09491	.00117	-.00332	-.00183
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.01011	.00776	.00854	.01196	.20154	.13941	
SDev	.00532	.00655	.00614	.00405	.00036	.00046	
%RSD	52.653	84.424	71.903	33.893	.17999	.33068	
#1	.01387	.01239	.01289	.01483	.20128	.13909	
#2	.00635	.00313	.00420	.00910	.20180	.13974	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11850	--	--	--	--	--	--
SDev	32.84525	--	--	--	--	--	--
%RSD	.2771640	--	--	--	--	--	--
#1	11874	--	--	--	--	--	--
#2	11827	--	--	--	--	--	--

Method: METTRA Sample Name: DXRVV

Operator: RJG

Run Time: 03/28/01 00:37:14

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00135	103.81	.03992	.52491	.00236	8.7979	L-.00619
SDev	.00044	.33	.00105	.00225	.00016	.0197	.00022
%RSD	32.753	.31511	2.6364	.42779	6.6724	.22354	3.5778
#1	-.00166	104.04	.04067	.52650	.00247	8.8118	L-.00635
#2	-.00103	103.57	.03918	.52333	.00225	8.7840	L-.00604
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.03027	.18515	.08640	239.22	4.1334	1.4702	.00531
SDev	.00052	.00117	.00022	.58	.0115	.0060	.00066
%RSD	1.7053	.63361	.26045	.24215	.27722	.40777	12.483
#1	.02991	.18598	.08656	239.63	4.1415	1.4744	.00578
#2	.03064	.18432	.08624	238.82	4.1253	1.4659	.00484
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.03520	.14477	.12912	.13433	.00291	-.00115	.00020
SDev	.00019	.00097	.00044	.00003	.00185	.00136	.00029
%RSD	.53352	.67363	.34479	.02069	63.349	118.57	143.87
#1	.03507	.14546	.12880	.13435	.00422	-.00211	-.00000
#2	.03534	.14408	.12943	.13431	.00161	-.00019	.00041
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00845	.00531	.00636	.01839	.27703	.13930	
SDev	.00215	.00230	.00082	.00168	.00027	.00067	
%RSD	25.418	43.237	12.836	9.1511	.09707	.48160	
#1	.00997	.00369	.00578	.01720	.27722	.13978	
#2	.00693	.00693	.00693	.01958	.27684	.13883	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

680 1465

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11792	--	--	--	--	--	--
SDev	4.914530	--	--	--	--	--	--
%RSD	.0416759	--	--	--	--	--	--
#1	11789	--	--	--	--	--	--
#2	11796	--	--	--	--	--	--

Method: METTRA Sample Name: DXRV4

Operator: RJG

Run Time: 03/28/01 00:41:40

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00110	78.318	.02727	.37294	.00153	3.8441	L-.00528
SDev	.00038	.001	.00188	.00007	.00016	.0107	.00037
%RSD	34.293	.00186	6.8778	.01840	10.334	.27816	7.0054

#1	-.00137	78.319	.02594	.37299	.00164	3.8365	L-.00554
#2	-.00083	78.317	.02860	.37289	.00142	3.8517	L-.00501

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02511	.16766	.07417	202.54	2.2869	.61114	.00314
SDev	.00003	.00055	.00058	.01	.0093	.00021	.00020
%RSD	.10074	.32646	.77777	.00371	.40479	.03408	6.2247

#1	.02513	.16804	.07376	202.53	2.2935	.61129	.00328
#2	.02509	.16727	.07458	202.54	2.2804	.61099	.00300

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03251	.06770	.05613	.05999	-.00032	-.00728	-.00496
SDev	.00180	.00158	.00024	.00068	.00083	.00275	.00156
%RSD	5.5233	2.3258	.42738	1.1409	263.65	37.835	31.432

#1	.03124	.06659	.05596	.05950	-.00091	-.00533	-.00386
#2	.03378	.06882	.05630	.06047	.00027	-.00923	-.00606

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00865	.00830	.00841	.01221	.20002	.11661
SDev	.00040	.00212	.00128	.00174	.00047	.00035
%RSD	4.5987	25.504	15.206	14.269	.23484	.29907

#1	.00893	.00680	.00751	.01344	.20036	.11686
#2	.00836	.00980	.00932	.01098	.19969	.11637

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

680 1467

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11729	--	--	--	--	--	--
SDev	12.33915	--	--	--	--	--	--
%RSD	.1052027	--	--	--	--	--	--
#1	11720	--	--	--	--	--	--
#2	11738	--	--	--	--	--	--

1

Method: METTRA Sample Name: DXRV9

Operator: RJG

Run Time: 03/28/01 00:46:07

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00116	106.64	.05651	.41150	.00203	4.3906	L-.00755
SDev	.00043	.14	.00113	.00032	.00007	.0072	.00041
%RSD	37.092	.12743	1.9998	.07682	3.4927	.16372	5.3972

#1	-.00086	106.54	.05731	.41127	.00208	4.3855	L-.00784
#2	-.00147	106.73	.05571	.41172	.00198	4.3957	L-.00726

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05615	.29435	.10036	286.33	3.4783	.55468	.00544
SDev	.00008	.00001	.00022	.45	.0129	.00009	.00038
%RSD	.14781	.00482	.22429	.15598	.37054	.01622	6.9950

#1	.05621	.29434	.10052	286.01	3.4875	.55462	.00517
#2	.05609	.29436	.10021	286.65	3.4692	.55474	.00571

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03343	.11710	.10204	.10706	.00008	-.00100	-.00064
SDev	.00051	.00256	.00006	.00089	.00419	.00179	.00259
%RSD	1.5151	2.1877	.06152	.83598	5037.6	178.60	403.95

#1	.03379	.11891	.10209	.10769	.00304	.00026	.00119
#2	.03307	.11529	.10200	.10642	-.00288	-.00227	-.00247

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01075	.00514	.00701	.02111	.30829	.13419
SDev	.00394	.00430	.00156	.00056	.00049	.00061
%RSD	36.650	83.676	22.213	2.6583	.16055	.45364

#1	.00796	.00818	.00811	.02150	.30864	.13462
#2	.01353	.00210	.00590	.02071	.30794	.13376

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

680 1469

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11692	--	--	--	--	--	--
SDev	1.237437	--	--	--	--	--	--
%RSD	.0105836	--	--	--	--	--	--
#1	11693	--	--	--	--	--	--
#2	11691	--	--	--	--	--	--

Method: METTRA Sample Name: DXRWG

Operator: RJG

Run Time: 03/28/01 00:50:33

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00104	83.560	.02801	.46944	.00199	22.115	-.00486
SDev	.00023	.112	.00019	.00052	.00003	.028	.00006
%RSD	22.326	.13359	.67169	.10982	1.6974	.12527	1.1473
#1	-.00121	83.481	.02788	.46981	.00202	22.095	-.00482
#2	-.00088	83.639	.02814	.46908	.00197	22.134	-.00490
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02728	.10626	.09963	188.30	9.2717	.89727	.00278
SDev	.00024	.00019	.00000	.04	.0015	.00105	.00020
%RSD	.87283	.18115	.00003	.02074	.01592	.11698	7.3217
#1	.02745	.10640	.09963	188.27	9.2728	.89801	.00292
#2	.02711	.10612	.09963	188.33	9.2707	.89653	.00263
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03020	.08968	.07705	.08126	.00181	.00099	.00126
SDev	.00120	.00211	.00116	.00007	.00190	.00155	.00040
%RSD	3.9591	2.3518	1.5056	.08799	104.67	157.19	31.984
#1	.03104	.08819	.07787	.08131	.00047	.00208	.00155
#2	.02935	.09117	.07623	.08121	.00315	-.00011	.00098
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00441	.00839	.00707	.00920	.17572	.13302	
SDev	.00016	.00020	.00008	.00451	.00140	.00035	
%RSD	3.6479	2.4366	1.1726	48.997	.79935	.26502	
#1	.00452	.00825	.00701	.01238	.17473	.13327	
#2	.00429	.00854	.00713	.00601	.17671	.13278	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

680 1471

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11654	--	--	--	--	--	--
SDev	26.62285	--	--	--	--	--	--
%RSD	.2284384	--	--	--	--	--	--
#1	11635	--	--	--	--	--	--
#2	11673	--	--	--	--	--	--

Method: METTRA Sample Name: DXRWK

Operator: RJG

Run Time: 03/28/01 00:55:00

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00150	78.114	.09635	.35992	.00272	5.2037	L-.01116
SDev	.00092	.035	.00061	.00031	.00003	.0025	.00000
%RSD	61.276	.04445	.63696	.08645	1.0832	.04896	.02554
#1	-.00085	78.139	.09678	.35970	.00274	5.2019	L-.01116
#2	-.00216	78.090	.09592	.36014	.00270	5.2055	L-.01116
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02490	.51042	.03281	431.41	2.8593	2.4586	.00494
SDev	.00006	.00097	.00028	.54	.0047	.0017	.00011
%RSD	.22990	.19050	.85612	.12600	.16516	.06911	2.1180
#1	.02486	.51111	.03262	431.79	2.8626	2.4598	.00502
#2	.02494	.50973	.03301	431.02	2.8559	2.4574	.00487
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02709	.15023	.13316	.13885	.00400	-.00026	.00116
SDev	.00027	.00013	.00007	.00009	.00005	.00522	.00349
%RSD	.99258	.08668	.05659	.06743	1.1506	2028.9	300.99
#1	.02690	.15014	.13311	.13878	.00397	-.00395	-.00131
#2	.02729	.15032	.13322	.13891	.00403	.00343	.00363
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00987	.01621	.01410	.02950	.52172	.08886	
SDev	.00306	.00365	.00142	.00651	.00196	.00031	
%RSD	31.010	22.529	10.053	22.073	.37468	.35086	
#1	.00770	.01880	.01510	.02489	.52034	.08908	
#2	.01203	.01363	.01310	.03410	.52310	.08864	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11741	--	--	--	--	--	--
SDev	15.37957	--	--	--	--	--	--
%RSD	.1309956	--	--	--	--	--	--
#1	11730	--	--	--	--	--	--
#2	11751	--	--	--	--	--	--

Method: METTRA Sample Name: DXRWX

Operator: RJG

Run Time: 03/28/01 00:59:26

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00283	72.896	.04811	.10996	.00286	6.6468	L-.01240
SDev	.00014	.231	.00040	.00035	.00018	.0188	.00041
%RSD	4.7825	.31647	.82373	.31784	6.3831	.28214	3.3289

#1	-.00274	72.733	.04783	.10972	.00299	6.6336	L-.01270
#2	-.00293	73.059	.04839	.11021	.00273	6.6601	L-.01211

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05463	.23792	.18464	464.30	2.6814	.95442	.00336
SDev	.00145	.00018	.00025	.74	.0003	.00174	.00001
%RSD	2.6509	.07531	.13454	.16036	.00978	.18235	.14952

#1	.05565	.23779	.18446	463.78	2.6812	.95319	.00335
#2	.05361	.23804	.18481	464.83	2.6816	.95565	.00336

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02070	.12040	.11395	.11610	.00092	-.00592	-.00364
SDev	.00022	.00277	.00167	.00204	.00636	.00142	.00306
%RSD	1.0528	2.3030	1.4647	1.7542	694.52	23.918	84.017

#1	.02055	.12236	.11513	.11754	.00541	-.00492	-.00148
#2	.02085	.11844	.11277	.11466	-.00358	-.00692	-.00581

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00825	.01066	.00986	.02877	.30466	.14149
SDev	.00128	.00040	.00070	.00372	.00061	.00003
%RSD	15.552	3.7755	7.0593	12.939	.20106	.01804

#1	.00916	.01094	.01035	.03140	.30509	.14147
#2	.00735	.01037	.00936	.02614	.30423	.14151

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11832	--	--	--	--	--	--
SDev	9.722718	--	--	--	--	--	--
%RSD	.0821719	--	--	--	--	--	--
#1	11839	--	--	--	--	--	--
#2	11825	--	--	--	--	--	--

Method: METTRA Sample Name: DXRW2

Operator: RJG

Run Time: 03/28/01 01:03:52

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00161	103.77	.04559	.52230	.00248	11.754	L-.00645
SDev	.00034	.09	.00039	.00028	.00007	.003	.00018
%RSD	21.150	.08501	.86133	.05262	2.7883	.02170	2.7275
#1	-.00186	103.84	.04587	.52250	.00253	11.752	L-.00632
#2	-.00137	103.71	.04532	.52211	.00243	11.756	L-.00657
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03768	.16480	.09333	252.96	6.3614	1.5952	.00416
SDev	.00017	.00019	.00039	.00	.0207	.0007	.00114
%RSD	.45226	.11399	.41590	.00176	.32462	.04166	27.465
#1	.03756	.16493	.09360	252.96	6.3760	1.5957	.00335
#2	.03780	.16466	.09305	252.97	6.3468	1.5947	.00497
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03957	.11111	.09875	.10287	.00408	-.00301	-.00065
SDev	.00352	.00169	.00226	.00095	.00183	.00054	.00097
%RSD	8.9010	1.5164	2.2890	.92031	44.938	17.883	149.77
#1	.03708	.10992	.10035	.10354	.00278	-.00339	-.00133
#2	.04206	.11230	.09716	.10220	.00538	-.00263	.00004
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00819	.01137	.01031	.01807	.25029	.16116	
SDev	.00337	.00314	.00097	.00567	.00006	.00049	
%RSD	41.210	27.591	9.3996	31.359	.02292	.30553	
#1	.01057	.00915	.00963	.01406	.25025	.16151	
#2	.00580	.01359	.01100	.02208	.25033	.16081	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11815	--	--	--	--	--	--
SDev	26.62285	--	--	--	--	--	--
%RSD	.2253333	--	--	--	--	--	--
#1	11834	--	--	--	--	--	--
#2	11796	--	--	--	--	--	--

Method: METTRA Sample Name: DXRXK

Operator: RJG

Run Time: 03/28/01 01:08:19

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00163	89.281	.04199	.44435	.00162	13.801	L-.00620
SDev	.00055	.056	.00091	.00006	.00016	.010	.00022
%RSD	33.660	.06265	2.1662	.01260	9.9525	.07296	3.5755

#1	-.00125	89.242	.04135	.44431	.00173	13.794	L-.00604
#2	-.00202	89.321	.04264	.44439	.00151	13.808	L-.00636

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04425	.15106	.07518	245.62	6.4776	1.5205	.00386
SDev	.00071	.00107	.00026	.10	.0135	.0005	.00065
%RSD	1.6064	.70617	.33989	.03923	.20914	.03006	16.967

#1	.04475	.15030	.07536	245.55	6.4872	1.5208	.00432
#2	.04374	.15181	.07500	245.69	6.4681	1.5202	.00340

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03652	.13828	.12426	.12893	.00255	-.00192	-.00044
SDev	.00068	.00103	.00029	.00015	.00202	.00256	.00238
%RSD	1.8518	.74666	.23150	.11785	79.378	133.14	547.49

#1	.03700	.13755	.12446	.12882	.00398	-.00011	.00125
#2	.03605	.13901	.12406	.12903	.00112	-.00374	-.00212

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00851	.00575	.00667	.01657	.26823	.16977
SDev	.00277	.00456	.00212	.00028	.00406	.00059
%RSD	32.564	79.378	31.798	1.6882	1.5148	.34745

#1	.01047	.00252	.00517	.01677	.27110	.17018
#2	.00655	.00897	.00817	.01637	.26536	.16935

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11761	--	--	--	--	--	--
SDev	10.85381	--	--	--	--	--	--
%RSD	.0922875	--	--	--	--	--	--
#1	11769	--	--	--	--	--	--
#2	11753	--	--	--	--	--	--

Method: METTRA Sample Name: DXRXQ

Operator: RJG

Run Time: 03/28/01 01:12:45

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00241	121.54	.06256	.43684	.00279	5.6519	L-.00725
SDev	.00010	.30	.00123	.00150	.00014	.0023	.00019
%RSD	4.2813	.24495	1.9608	.34301	4.9380	.03987	2.6207
#1	-.00233	121.33	.06169	.43578	.00289	5.6503	L-.00739
#2	-.00248	121.75	.06343	.43790	.00270	5.6535	L-.00712
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.06911	.18502	.13434	283.18	4.0817	.67087	.00576
SDev	.00022	.00023	.00081	.01	.0080	.00003	.00114
%RSD	.31371	.12652	.60221	.00520	.19622	.00395	19.771
#1	.06927	.18486	.13377	283.19	4.0873	.67085	.00656
#2	.06896	.18519	.13491	283.17	4.0760	.67088	.00495
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.06015	.09743	.08390	.08841	-.00069	-.00570	-.00404
SDev	.00028	.00227	.00147	.00173	.00199	.00032	.00045
%RSD	.46123	2.3249	1.7519	1.9622	288.57	5.5981	11.172
#1	.06035	.09903	.08494	.08963	-.00210	-.00548	-.00435
#2	.05996	.09583	.08286	.08718	.00072	-.00593	-.00372
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00867	.00539	.00648	.01991	.25235	.23669	
SDev	.00841	.00107	.00352	.00314	.00086	.00067	
%RSD	97.061	19.879	54.239	15.773	.34129	.28170	
#1	.01462	.00615	.00897	.02213	.25296	.23716	
#2	.00272	.00464	.00400	.01769	.25174	.23622	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11813	--	--	--	--	--	--
SDev	14.74290	--	--	--	--	--	--
%RSD	.1248063	--	--	--	--	--	--
#1	11802	--	--	--	--	--	--
#2	11823	--	--	--	--	--	--

Method: METTRA Sample Name: CCV3-8

Operator: RJG

Run Time: 03/28/01 01:17:12

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0530	24.952	.51493	2.0182	2.0885	52.641	.49685
SDev	.0007	.020	.00345	.0005	.0003	.056	.00082
%RSD	.06309	.07945	.66952	.02325	.01585	.10716	.16543
#1	1.0535	24.938	.51737	2.0179	2.0887	52.601	.49743
#2	1.0526	24.966	.51249	2.0186	2.0883	52.681	.49627
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	55.000	.55000
Low	.90000	22.500	.45000	1.8000	1.8000	45.000	.45000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0899	2.0621	1.9985	25.593	49.645	2.0375	2.0445
SDev	.0000	.0008	.0006	.016	.050	.0008	.0042
%RSD	.00223	.03986	.03084	.06162	.10115	.04090	.20595
#1	2.0898	2.0626	1.9981	25.582	49.681	2.0381	2.0415
#2	2.0899	2.0615	1.9990	25.604	49.610	2.0369	2.0474
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	27.500	55.000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	22.500	45.000	1.8000	1.8000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0033	.51250	.50461	.50724	.51519	.51587	.51564
SDev	.0005	.00556	.00017	.00173	.00311	.00075	.00153
%RSD	.02705	1.0844	.03473	.34180	.60265	.14517	.29738
#1	2.0029	.51643	.50449	.50846	.51739	.51640	.51673
#2	2.0037	.50857	.50473	.50601	.51300	.51534	.51456
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000			.55000			.55000
Low	1.8000			.45000			.45000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.51978	.52722	.52475	1.0110	1.9872	2.0522	
SDev	.00313	.00073	.00153	.0074	.0037	.0024	
%RSD	.60230	.13824	.29132	.72982	.18682	.11898	
#1	.52200	.52774	.52583	1.0058	1.9898	2.0540	
#2	.51757	.52671	.52367	1.0162	1.9845	2.0505	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.55000	1.1000	2.2000	2.2000	
Low			.45000	.90000	1.8000	1.8000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11576	--	--	--	--	--	--
SDev	2.227663	--	--	--	--	--	--
%RSD	.0192433	--	--	--	--	--	--
#1	11575	--	--	--	--	--	--
#2	11578	--	--	--	--	--	--

Method: METTRA Sample Name: CCB8

Operator: RJG

Run Time: 03/28/01 01:21:38

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00033	-.03305	.00140	.00004	-.00182	.00960	.00014
SDev	.00053	.00059	.00136	.00008	.00020	.00134	.00004
%RSD	158.86	1.7902	96.635	217.61	10.962	13.922	26.650
#1	-.00004	-.03263	.00044	-.00002	-.00168	.00865	.00011
#2	.00070	-.03346	.00236	.00010	-.00197	.01054	.00017
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00078	.00024	.00164	.02501	.00418	.00011	.00117
SDev	.00040	.00047	.00018	.00463	.00296	.00003	.00019
%RSD	51.381	191.89	11.274	18.518	70.721	27.932	16.705
#1	.00050	-.00009	.00151	.02828	.00209	.00014	.00130
#2	.00107	.00057	.00177	.02173	.00627	.00009	.00103
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00036	.00184	-.00022	.00047	.00232	-.00175	-.00039
SDev	.00133	.00131	.00052	.00078	.00194	.00403	.00204
%RSD	365.74	71.057	233.68	167.28	83.731	230.36	518.41
#1	-.00058	.00277	.00014	.00102	.00095	.00110	.00105
#2	.00131	.00092	-.00059	-.00009	.00369	-.00460	-.00184
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00438	.00208	.00284	.00281	-.00046	.00006	
SDev	.00071	.00109	.00049	.00093	.00000	.00009	
%RSD	16.144	52.232	17.175	33.249	.32253	144.54	
#1	.00488	.00131	.00250	.00347	-.00046	-.00000	
#2	.00388	.00284	.00319	.00215	-.00046	.00013	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11633	--	--	--	--	--	--
SDev	11.03059	--	--	--	--	--	--
%RSD	.0948199	--	--	--	--	--	--
#1	11625	--	--	--	--	--	--
#2	11641	--	--	--	--	--	--

Method: METTRA Sample Name: DXRXV

Operator: RJG

Run Time: 03/28/01 01:26:04

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00061	132.31	.04462	.47204	.00268	13.736	L-.00732
SDev	.00010	.15	.00302	.00080	.00005	.011	.00010
%RSD	17.265	.11483	6.7694	.16837	1.7165	.08177	1.3616

#1	-.00053	132.20	.04676	.47147	.00271	13.728	L-.00739
#2	-.00068	132.42	.04249	.47260	.00265	13.744	L-.00725

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02410	.19968	.09072	283.65	5.5223	.59785	.00599
SDev	.00007	.00019	.00024	.03	.0073	.00104	.00010
%RSD	.30136	.09516	.26826	.00898	.13137	.17416	1.6420

#1	.02405	.19982	.09089	283.64	5.5275	.59859	.00606
#2	.02415	.19955	.09055	283.67	5.5172	.59712	.00592

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03634	.12273	.10611	.11165	.00254	-.00329	-.00135
SDev	.00068	.00045	.00063	.00027	.00409	.00029	.00156
%RSD	1.8596	.37008	.59014	.23865	161.09	8.8232	115.48

#1	.03586	.12241	.10656	.11183	-.00035	-.00350	-.00245
#2	.03682	.12305	.10567	.11146	.00544	-.00308	-.00025

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01046	.00976	.00999	.02194	.34904	.13599
SDev	.00350	.00271	.00298	.00254	.00047	.00017
%RSD	33.504	27.763	29.763	11.573	.13607	.12614

#1	.00798	.00785	.00789	.02373	.34937	.13587
#2	.01293	.01168	.01210	.02014	.34870	.13612

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11955	--	--	--	--	--	--
SDev	7.389404	--	--	--	--	--	--
%RSD	.0618108	--	--	--	--	--	--
#1	11950	--	--	--	--	--	--
#2	11960	--	--	--	--	--	--

Method: METTRA Sample Name: DXRX1

Operator: RJG

Run Time: 03/28/01 01:30:31

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00212	120.71	.05260	.37488	.00233	20.481	L-.00890
SDev	.00030	.12	.00142	.00034	.00013	.026	.00046
%RSD	13.908	.10244	2.6941	.09042	5.7414	.12744	5.1580

#1	-.00191	120.62	.05159	.37464	.00242	20.463	L-.00922
#2	-.00233	120.80	.05360	.37512	.00223	20.500	L-.00857

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03950	.20664	.14770	360.07	10.363	1.0120	.00556
SDev	.00062	.00113	.00017	.31	.008	.0006	.00084
%RSD	1.5699	.54905	.11725	.08670	.07671	.05878	15.072

#1	.03994	.20583	.14782	359.85	10.369	1.0115	.00615
#2	.03907	.20744	.14758	360.29	10.358	1.0124	.00496

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03513	.12452	.11175	.11600	.00620	-.00208	.00068
SDev	.00024	.00019	.00119	.00073	.00174	.00367	.00187
%RSD	.67563	.15291	1.0609	.62703	28.125	176.87	276.04

#1	.03497	.12439	.11258	.11651	.00743	-.00468	-.00065
#2	.03530	.12466	.11091	.11549	.00496	.00052	.00200

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00820	.00647	.00705	.02313	.31523	.17065
SDev	.00378	.00451	.00175	.00161	.00030	.00006
%RSD	46.117	69.734	24.809	6.9603	.09620	.03503

#1	.01088	.00328	.00581	.02199	.31501	.17069
#2	.00553	.00966	.00828	.02427	.31544	.17061

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11817	--	--	--	--	--	--
SDev	11.98560	--	--	--	--	--	--
%RSD	.1014244	--	--	--	--	--	--
#1	11826	--	--	--	--	--	--
#2	11809	--	--	--	--	--	--

Method: METTRA Sample Name: DXRX8

Operator: RJG

Run Time: 03/28/01 01:34:57

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00064	89.512	.02616	.39898	.00062	14.089	-.00359
SDev	.00006	.279	.00172	.00092	.00013	.026	.00045
%RSD	8.6976	.31181	6.5783	.22934	21.213	.18100	12.434

#1	-.00068	89.709	.02737	.39962	.00071	14.107	-.00390
#2	-.00060	89.315	.02494	.39833	.00053	14.071	-.00327

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01905	.11364	.05085	137.95	2.8913	.53965	.00305
SDev	.00017	.00004	.00011	.62	.0195	.00183	.00030
%RSD	.90066	.03872	.22460	.44854	.67379	.33952	9.6898

#1	.01917	.11360	.05077	138.39	2.9051	.54095	.00326
#2	.01893	.11367	.05094	137.51	2.8775	.53836	.00284

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03058	.10256	.09067	.09463	.00329	-.00594	-.00287
SDev	.00098	.00258	.00214	.00057	.00275	.00405	.00362
%RSD	3.2008	2.5158	2.3650	.60346	83.728	68.150	126.09

#1	.03127	.10074	.09219	.09504	.00523	-.00308	-.00031
#2	.02989	.10439	.08916	.09423	.00134	-.00881	-.00543

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01297	.00393	.00694	.01020	.19200	.12516
SDev	.00005	.00109	.00071	.00069	.00052	.00047
%RSD	.37753	27.797	10.266	6.7452	.27208	.37632

#1	.01293	.00470	.00744	.00971	.19237	.12549
#2	.01300	.00316	.00644	.01069	.19163	.12482

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11780	--	--	--	--	--	--
SDev	25.77418	--	--	--	--	--	--
%RSD	.2187873	--	--	--	--	--	--
#1	11762	--	--	--	--	--	--
#2	11799	--	--	--	--	--	--

Method: METTRA Sample Name: DXXSWB

Operator: RJG

Run Time: 03/28/01 01:39:24

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00094	-.01774	-.00190	-.00002	-.00221	.01167	.00026
SDev	.00005	.00208	.00218	.00004	.00011	.00136	.00012
%RSD	5.7868	11.715	114.30	223.10	5.0858	11.628	44.420
#1	.00090	-.01921	-.00037	.00001	-.00214	.01071	.00034
#2	.00098	-.01627	-.00344	-.00005	-.00229	.01263	.00018
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00018	.00080	.00243	.05299	.00562	.00019	-.00098
SDev	.00036	.00019	.00009	.00233	.00099	.00006	.00058
%RSD	205.52	23.856	3.8436	4.3966	17.679	33.748	58.925
#1	.00043	.00093	.00237	.05135	.00492	.00023	-.00139
#2	-.00008	.00066	.00250	.05464	.00632	.00014	-.00057
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00125	.00097	.00109	.00105	.00296	-.00166	-.00012
SDev	.00010	.00223	.00061	.00033	.00316	.00489	.00432
%RSD	8.2265	230.79	56.088	31.748	106.66	295.27	3647.9
#1	.00118	.00254	.00066	.00129	.00520	.00180	.00293
#2	.00132	-.00061	.00153	.00081	.00073	-.00512	-.00317
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00160	.00533	.00409	-.00185	-.00045	.00009	
SDev	.00405	.00507	.00203	.00073	.00000	.00015	
%RSD	253.33	95.108	49.768	39.342	.16548	163.15	
#1	.00446	.00175	.00265	-.00236	-.00045	-.00001	
#2	-.00126	.00892	H.00553	-.00133	-.00045	.00019	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11531	--	--	--	--	--	--
SDev	4.101772	--	--	--	--	--	--
%RSD	.0355711	--	--	--	--	--	--
#1	11528	--	--	--	--	--	--
#2	11534	--	--	--	--	--	--

Method: METTRA Sample Name: DXX5WC

Operator: RJG

Run Time: 03/28/01 01:43:51

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05197	1.8300	2.0075	1.9752	.04951	L.01919	.04949
SDev	.00009	.0003	.0034	.0020	.00009	.00135	.00015
%RSD	.16715	.01613	.16955	.09961	.17712	7.0376	.31275
#1	.05204	1.8302	2.0051	1.9738	.04958	L.01823	.04960
#2	.05191	1.8298	2.0099	1.9766	.04945	L.02014	.04938
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass
High	.06000	2.4000	2.4000	2.4000	.06000	60.000	.06000
Low	.04000	1.6000	1.6000	1.6000	.04000	40.000	.04000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.53380	.20954	.24774	1.0571	L.00489	.50788	L-.00045
SDev	.00026	.00066	.00055	.0182	.00000	.00001	.00000
%RSD	.04769	.31361	.22222	1.7230	.00939	.00139	.05573
#1	.53362	.21000	.24813	1.0443	L.00489	.50787	L-.00045
#2	.53398	.20907	.24735	1.0700	L.00489	.50788	L-.00045
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass	LC Low
High	.60000	.24000	.30000	1.2000	60.000	.60000	1.2000
Low	.40000	.16000	.20000	.80000	40.000	.40000	.80000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51165	.50430	.49798	.50009	-.00185	-.00214	L-.00205
SDev	.00087	.00132	.00182	.00165	.00176	.00026	.00076
%RSD	.16967	.26132	.36566	.33062	94.983	12.269	37.205
#1	.51104	.50523	.49927	.50125	-.00310	-.00233	L-.00259
#2	.51226	.50337	.49669	.49892	-.00061	-.00196	L-.00151
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Low
High	.60000			.60000			.60000
Low	.40000			.40000			.40000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	1.9768	1.9932	1.9878	1.9812	.49221	.51830	
SDev	.0026	.0089	.0068	.0020	.00128	.00008	
%RSD	.13187	.44714	.34274	.10132	.26044	.01578	
#1	1.9787	1.9995	1.9926	1.9826	.49130	.51824	
#2	1.9750	1.9869	1.9830	1.9798	.49312	.51836	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			2.4000	2.4000	.60000	.60000	
Low			1.6000	1.6000	.40000	.40000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11616	--	--	--	--	--	--
SDev	1.272654	--	--	--	--	--	--
%RSD	.0109558	--	--	--	--	--	--
#1	11615	--	--	--	--	--	--
#2	11617	--	--	--	--	--	--

Method: METTRA Sample Name: DXR0C

Operator: RJG

Run Time: 03/28/01 01:48:18

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00187	204.41	.06086	.54671	.00315	10.178	L-.00964
SDev	.00112	.18	.00156	.00071	.00025	.004	.00057
%RSD	59.855	.08642	2.5678	.12896	7.8595	.03739	5.9019

#1	-.00266	204.54	.06197	.54720	.00332	10.181	L-.01004
#2	-.00108	204.29	.05976	.54621	.00297	10.176	L-.00923

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02822	.27089	.15448	367.88	4.1537	.53465	.00678
SDev	.00045	.00017	.00019	.15	.0175	.00032	.00045
%RSD	1.6096	.06212	.12613	.03985	.42199	.06036	6.6528

#1	.02790	.27077	.15434	367.98	4.1661	.53488	.00710
#2	.02854	.27101	.15462	367.77	4.1413	.53442	.00646

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04848	.11956	.10021	.10665	.00818	-.00638	-.00153
SDev	.00142	.00081	.00031	.00006	.00105	.00280	.00222
%RSD	2.9191	.67553	.30734	.05955	12.781	43.902	144.75

#1	.04948	.12013	.09999	.10670	.00744	-.00836	-.00310
#2	.04748	.11899	.10043	.10661	.00892	-.00440	.00004

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01642	.00692	.01009	.02861	.45005	.18615
SDev	.00234	.00089	.00137	.00453	.00328	.00021
%RSD	14.220	12.780	13.561	15.822	.72816	.11157

#1	.01808	.00755	.01105	.03181	.45237	.18630
#2	.01477	.00630	.00912	.02541	.44774	.18601

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11780	--	--	--	--	--	--
SDev	24.92551	--	--	--	--	--	--
%RSD	.2115967	--	--	--	--	--	--
#1	11797	--	--	--	--	--	--
#2	11762	--	--	--	--	--	--

Method: METTRA Sample Name: DXR0CP5

Operator: RJG

Run Time: 03/28/01 01:52:44

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00016	38.662	.01126	.10819	-.00123	2.0205	-.00200
SDev	.00010	.008	.00053	.00014	.00011	.0031	.00025
%RSD	58.679	.02081	4.6881	.13242	8.6817	.15155	12.686

#1	-.00023	38.656	.01089	.10829	-.00115	2.0184	-.00218
#2	-.00009	38.668	.01164	.10809	-.00130	2.0227	-.00182

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00625	.05451	.03138	73.106	.81625	.10626	.00141
SDev	.00083	.00048	.00060	.067	.00049	.00022	.00056
%RSD	13.356	.88603	1.9022	.09163	.06005	.21086	39.815

#1	.00566	.05416	.03096	73.153	.81660	.10642	.00101
#2	.00684	.05485	.03181	73.058	.81590	.10611	.00181

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01032	.02479	.02080	.02213	.00224	-.00370	-.00172
SDev	.00012	.00058	.00000	.00019	.00047	.00007	.00021
%RSD	1.1690	2.3564	.01410	.87042	21.168	1.9697	12.013

#1	.01040	.02438	.02080	.02199	.00258	-.00365	-.00157
#2	.01023	.02521	.02079	.02226	.00191	-.00375	-.00187

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00580	.00503	.00529	.00371	.08875	.03637
SDev	.00414	.00091	.00077	.00114	.00014	.00012
%RSD	71.399	18.067	14.641	30.822	.15803	.33133

#1	.00873	.00438	.00583	.00290	.08885	.03646
#2	.00287	.00567	.00474	.00452	.08865	.03629

680 1499

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11696	--	--	--	--	--	--
SDev	21.10755	--	--	--	--	--	--
%RSD	.1804616	--	--	--	--	--	--
#1	11682	--	--	--	--	--	--
#2	11711	--	--	--	--	--	--

Method: METTRA Sample Name: DXR0CS

Operator: RJG

Run Time: 03/28/01 01:57:11

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05107	213.37	1.9939	2.5010	.05610	9.6342	.03856
SDev	.00019	.98	.0126	.0134	.00055	.0313	.00043
%RSD	.37788	.46056	.63027	.53770	.98743	.32487	1.1051
#1	.05120	214.06	2.0028	2.5106	.05649	9.6563	.03886
#2	.05093	212.67	1.9850	2.4915	.05571	9.6121	.03826
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.55777	.49258	.42599	386.20	3.8770	1.2307	.00778
SDev	.00303	.00239	.00203	1.75	.0291	.0056	.00080
%RSD	.54320	.48610	.47589	.45255	.75154	.45204	10.239
#1	.55991	.49428	.42742	387.43	3.8976	1.2347	.00722
#2	.55562	.49089	.42456	384.96	3.8564	1.2268	.00834
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.55233	.62999	.59370	.60578	.00074	-.00410	-.00249
SDev	.00792	.00342	.00014	.00123	.00077	.00188	.00100
%RSD	1.4342	.54320	.02371	.20361	105.41	45.918	40.072
#1	.55794	.63241	.59380	.60665	.00019	-.00277	-.00178
#2	.54673	.62757	.59360	.60491	.00128	-.00543	-.00320
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	1.9732	1.9889	1.9837	2.0227	.96477	.71861	
SDev	.0099	.0167	.0145	.0083	.00602	.00483	
%RSD	.50269	.84064	.72870	.40977	.62433	.67192	
#1	1.9803	2.0008	1.9939	2.0285	.96903	.72202	
#2	1.9662	1.9771	1.9735	2.0168	.96051	.71519	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11557	--	--	--	--	--	--
SDev	75.02375	--	--	--	--	--	--
%RSD	.6491629	--	--	--	--	--	--
#1	11504	--	--	--	--	--	--
#2	11610	--	--	--	--	--	--

Method: METTRA Sample Name: DXR0CD

Operator: RJG

Run Time: 03/28/01 02:01:38

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05006	206.22	1.9524	2.4716	.05443	24.849	.03810
SDev	.00017	1.20	.0069	.0137	.00011	.140	.00035
%RSD	.34399	.58122	.35112	.55232	.20827	.56369	.90694
#1	.05018	205.37	1.9476	2.4620	.05451	24.750	.03786
#2	.04994	207.06	1.9573	2.4813	.05435	24.949	.03835
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.54686	.50670	.41864	362.11	4.5233	1.0914	.00774
SDev	.00287	.00268	.00245	1.89	.0182	.0051	.00081
%RSD	.52526	.52997	.58630	.52282	.40210	.47177	10.474
#1	.54483	.50480	.41691	360.77	4.5105	1.0878	.00831
#2	.54889	.50860	.42038	363.45	4.5362	1.0951	.00717
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.54420	.61049	.57696	.58813	.00335	-.00212	-.00030
SDev	.00148	.00344	.00257	.00057	.00489	.00514	.00180
%RSD	.27184	.56291	.44457	.09633	145.88	242.32	603.88
#1	.54525	.60806	.57878	.58853	-.00011	.00151	.00097
#2	.54315	.61292	.57515	.58773	.00681	-.00575	-.00157
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	1.9509	1.9708	1.9642	1.9797	.92145	.70041	
SDev	.0000	.0030	.0020	.0067	.00006	.00104	
%RSD	.00157	.14987	.10082	.33727	.00628	.14899	
#1	1.9509	1.9687	1.9628	1.9749	.92141	.69967	
#2	1.9510	1.9728	1.9656	1.9844	.92150	.70115	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11752	--	--	--	--	--	--
SDev	44.72450	--	--	--	--	--	--
%RSD	.3805604	--	--	--	--	--	--
#1	11784	--	--	--	--	--	--
#2	11721	--	--	--	--	--	--

Method: METTRA Sample Name: DXR0J

Operator: RJG

Run Time: 03/28/01 02:06:04

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00121	97.621	.05920	.45332	.00149	10.057	L-.00775
SDev	.00049	.290	.00082	.00051	.00038	.038	.00019
%RSD	40.598	.29685	1.3792	.11152	25.579	.37417	2.4680

#1	-.00156	97.416	.05862	.45296	.00176	10.030	L-.00788
#2	-.00086	97.826	.05977	.45367	.00122	10.084	L-.00761

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02118	.27609	.05249	320.33	3.4604	1.1019	.00486
SDev	.00031	.00062	.00035	.76	.0040	.0017	.00089
%RSD	1.4822	.22432	.66982	.23656	.11459	.15093	18.347

#1	.02096	.27565	.05225	319.79	3.4632	1.1007	.00423
#2	.02140	.27653	.05274	320.86	3.4576	1.1031	.00549

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03443	.14418	.13055	.13509	.01031	-.00128	.00258
SDev	.00179	.00509	.00039	.00143	.00337	.00048	.00144
%RSD	5.2096	3.5303	.30027	1.0612	32.687	37.295	55.898

#1	.03316	.14059	.13082	.13408	.01269	-.00094	.00360
#2	.03569	.14778	.13027	.13610	.00792	-.00162	.00156

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01185	.01347	.01293	.02725	.39641	.13878
SDev	.00155	.00319	.00161	.00396	.00107	.00003
%RSD	13.131	23.658	12.435	14.542	.26956	.02022

#1	.01075	.01573	.01407	.02445	.39716	.13876
#2	.01295	.01122	.01179	.03005	.39565	.13880

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

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IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11667	--	--	--	--	--	--
SDev	52.99779	--	--	--	--	--	--
%RSD	.4542586	--	--	--	--	--	--
#1	11704	--	--	--	--	--	--
#2	11629	--	--	--	--	--	--

Method: METTRA Sample Name: CCV3-9

Operator: RJG

Run Time: 03/28/01 02:10:31

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0603	25.109	.51570	2.0336	2.0975	52.959	.49682
SDev	.0140	.389	.00313	.0254	.0261	.748	.00489
%RSD	1.3249	1.5506	.60693	1.2495	1.2433	1.4116	.98429
#1	1.0503	24.833	.51349	2.0157	2.0791	52.431	.49336
#2	1.0702	25.384	.51792	2.0516	2.1159	53.488	.50028
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	55.000	.55000
Low	.90000	22.500	.45000	1.8000	1.8000	45.000	.45000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0893	2.0636	2.0086	25.574	49.691	2.0408	2.0442
SDev	.0273	.0273	.0259	.369	.566	.0270	.0284
%RSD	1.3062	1.3216	1.2886	1.4432	1.1389	1.3245	1.3874
#1	2.0700	2.0443	1.9903	25.313	49.291	2.0217	2.0241
#2	2.1086	2.0829	2.0269	25.835	50.091	2.0600	2.0642
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	27.500	55.000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	22.500	45.000	1.8000	1.8000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0054	.51434	.50462	.50786	.51776	.51603	.51661
SDev	.0110	.00585	.00577	.00580	.00436	.00418	.00424
%RSD	.54783	1.1381	1.1429	1.1413	.84177	.80932	.82014
#1	1.9976	.51021	.50054	.50376	.51468	.51307	.51361
#2	2.0131	.51848	.50870	.51196	.52085	.51898	.51960
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000			.55000			.55000
Low	1.8000			.45000			.45000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.52228	.52284	.52265	1.0100	1.9957	2.0558	
SDev	.00305	.00103	.00170	.0122	.0206	.0257	
%RSD	.58435	.19603	.32526	1.2123	1.0324	1.2525	
#1	.52012	.52211	.52145	1.0013	1.9812	2.0376	
#2	.52444	.52356	.52385	1.0187	2.0103	2.0740	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.55000	1.1000	2.2000	2.2000	
Low			.45000	.90000	1.8000	1.8000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11560	--	--	--	--	--	--
SDev	134.6679	--	--	--	--	--	--
%RSD	1.164940	--	--	--	--	--	--
#1	11655	--	--	--	--	--	--
#2	11465	--	--	--	--	--	--

Method: METTRA Sample Name: CCB9

Operator: RJG

Run Time: 03/28/01 02:14:58

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00046	-.03136	-.00034	.00021	-.00212	.00968	.00027
SDev	.00030	.00193	.00156	.00014	.00009	.00137	.00025
%RSD	65.447	6.1643	456.67	64.955	4.4125	14.128	91.862
#1	.00025	-.02999	.00076	.00011	-.00205	.00872	.00045
#2	.00067	-.03272	-.00145	.00031	-.00219	.01065	.00010
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00065	.00037	.00227	.02835	.00350	.00010	.00085
SDev	.00031	.00026	.00010	.00002	.00199	.00000	.00067
%RSD	47.975	70.230	4.3599	.05198	56.729	.43212	79.124
#1	.00043	.00019	.00220	.02836	.00210	.00010	.00132
#2	.00088	.00056	.00234	.02834	.00491	.00010	.00037
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00153	-.00155	.00048	-.00020	.00362	-.00276	-.00063
SDev	.00010	.00064	.00271	.00159	.00082	.00033	.00006
%RSD	6.6354	41.333	568.04	807.17	22.726	11.820	8.9992
#1	.00161	-.00200	.00239	.00093	.00421	-.00299	-.00059
#2	.00146	-.00110	-.00144	-.00132	.00304	-.00253	-.00067
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00122	.00578	.00426	.00490	-.00046	.00006	
SDev	.00277	.00436	.00383	.00425	.00000	.00010	
%RSD	227.54	75.411	89.895	86.776	.00103	172.84	
#1	.00318	.00885	H.00696	.00790	-.00046	-.00001	
#2	-.00074	.00270	.00155	.00189	-.00046	.00013	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

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IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11572	--	--	--	--	--	--
SDev	6.752732	--	--	--	--	--	--
%RSD	.0583554	--	--	--	--	--	--
#1	11576	--	--	--	--	--	--
#2	11567	--	--	--	--	--	--

Method: METTRA Sample Name: DXR0L

Operator: RJG

Run Time: 03/28/01 02:19:25

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00133	137.32	.04549	.59781	.00263	17.667	L-.00795
SDev	.00057	.36	.00164	.00233	.00034	.036	.00045
%RSD	43.371	.26312	3.6032	.39047	12.716	.20521	5.7109

#1	-.00173	137.57	.04664	.59946	.00287	17.693	L-.00827
#2	-.00092	137.06	.04433	.59616	.00239	17.642	L-.00763

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02771	.24002	.07574	303.26	4.0635	.93370	.00288
SDev	.00029	.00024	.00041	.60	.0093	.00231	.00001
%RSD	1.0472	.09911	.54552	.19937	.22785	.24771	.22241

#1	.02750	.23986	.07545	303.69	4.0700	.93534	.00288
#2	.02791	.24019	.07603	302.84	4.0569	.93207	.00289

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04551	.12547	.11289	.11708	.00588	-.00418	-.00083
SDev	.00124	.00310	.00192	.00025	.00425	.00213	.00000
%RSD	2.7261	2.4666	1.7028	.21492	72.322	50.957	.58081

#1	.04639	.12328	.11425	.11725	.00888	-.00568	-.00083
#2	.04463	.12765	.11153	.11690	.00287	-.00267	-.00083

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01578	.00576	.00909	.02382	.36338	.17054
SDev	.00031	.00531	.00344	.00035	.00053	.00035
%RSD	1.9397	92.261	37.840	1.4797	.14686	.20290

#1	.01599	.00200	.00666	.02407	.36375	.17079
#2	.01556	.00951	.01153	.02357	.36300	.17030

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11992	--	--	--	--	--	--
SDev	13.64702	--	--	--	--	--	--
%RSD	.1137977	--	--	--	--	--	--
#1	12002	--	--	--	--	--	--
#2	11983	--	--	--	--	--	--

Method: METTRA Sample Name: DXRON

Operator: RJG

Run Time: 03/28/01 02:23:51

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00076	97.242	.04255	.59979	.00154	13.721	-.00444
SDev	.00017	.306	.00047	.00153	.00004	.027	.00009
%RSD	22.681	.31425	1.0917	.25586	2.8656	.19426	2.0595
#1	-.00064	97.026	.04223	.59871	.00157	13.702	-.00451
#2	-.00089	97.458	.04288	.60088	.00151	13.740	-.00438
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02250	.15450	.05933	186.44	3.2901	1.4122	.00420
SDev	.00036	.00071	.00101	.32	.0028	.0025	.00019
%RSD	1.6089	.46022	1.7001	.16906	.08426	.17565	4.5663
#1	.02276	.15400	.05862	186.21	3.2921	1.4105	.00433
#2	.02225	.15501	.06004	186.66	3.2881	1.4140	.00406
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.03389	.14092	.12854	.13266	.00298	-.00522	-.00249
SDev	.00001	.00118	.00090	.00021	.00456	.00291	.00042
%RSD	.04070	.83763	.69925	.15562	153.08	55.774	17.054
#1	.03390	.14008	.12917	.13281	.00620	-.00728	-.00279
#2	.03388	.14175	.12790	.13251	-.00025	-.00316	-.00219
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00806	.01352	.01170	.01173	.24761	.13103	
SDev	.00013	.00517	.00341	.00026	.00364	.00072	
%RSD	1.5777	38.261	29.125	2.1914	1.4706	.54666	
#1	.00797	.01718	.01411	.01191	.24503	.13052	
#2	.00815	.00986	.00929	.01155	.25018	.13153	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11752	--	--	--	--	--	--
SDev	4.667319	--	--	--	--	--	--
%RSD	.0397166	--	--	--	--	--	--
#1	11748	--	--	--	--	--	--
#2	11755	--	--	--	--	--	--

Method: METTRA Sample Name: DXR0R

Operator: RJG

Run Time: 03/28/01 02:28:18

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00141	102.68	.04188	.43409	.00213	3.0282	L-.00876
SDev	.00023	.39	.00186	.00043	.00023	.0126	.00017
%RSD	16.496	.37600	4.4422	.09886	10.943	.41475	1.9279
#1	-.00157	102.41	.04319	.43378	.00230	3.0193	L-.00888
#2	-.00124	102.95	.04056	.43439	.00197	3.0371	L-.00864
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02101	.21089	.06931	330.78	2.7959	.54825	.00356
SDev	.00070	.00060	.00040	.96	.0009	.00141	.00012
%RSD	3.3200	.28282	.57291	.28970	.03171	.25676	3.3722
#1	.02051	.21047	.06903	330.10	2.7953	.54726	.00347
#2	.02150	.21131	.06959	331.46	2.7965	.54925	.00364
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.03303	.12785	.11344	.11824	.00527	-.00263	-.00000
SDev	.00044	.00043	.00038	.00040	.00289	.00248	.00069
%RSD	1.3346	.33687	.33710	.33702	54.852	93.977	21244.
#1	.03272	.12815	.11371	.11852	.00731	-.00438	-.00049
#2	.03335	.12754	.11317	.11796	.00322	-.00088	.00048
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.01348	.00719	.00928	.01968	.34017	.11597	
SDev	.00231	.00525	.00427	.00422	.00036	.00009	
%RSD	17.107	72.989	45.965	21.463	.10433	.07989	
#1	.01185	.00348	.00627	.01670	.34042	.11604	
#2	.01511	.01090	.01230	.02267	.33992	.11591	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11824	--	--	--	--	--	--
SDev	48.93193	--	--	--	--	--	--
%RSD	.4138426	--	--	--	--	--	--
#1	11858	--	--	--	--	--	--
#2	11789	--	--	--	--	--	--

680 1516

Method: METTRA Sample Name: DXR0W

Operator: RJG

Run Time: 03/28/01 02:32:44

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00113	99.079	.04727	.49636	.00145	10.740	L-.00571
SDev	.00038	.150	.00074	.00079	.00016	.011	.00011
%RSD	33.213	.15177	1.5659	.15993	11.318	.10442	1.8574
#1	-.00087	98.972	.04675	.49692	.00156	10.732	L-.00578
#2	-.00140	99.185	.04779	.49580	.00133	10.748	L-.00563
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02268	.18982	.06659	246.85	3.4555	1.0632	.00458
SDev	.00002	.00013	.00015	.13	.0101	.0002	.00018
%RSD	.08318	.06671	.22818	.05072	.29234	.01489	3.9268
#1	.02269	.18991	.06670	246.76	3.4627	1.0631	.00471
#2	.02266	.18973	.06648	246.94	3.4484	1.0633	.00446
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03403	.13091	.11834	.12253	.00473	-.00208	.00019
SDev	.00034	.00216	.00006	.00068	.00088	.00329	.00190
%RSD	1.0105	1.6490	.05259	.55281	18.575	158.42	996.66
#1	.03379	.13244	.11830	.12301	.00535	-.00440	-.00115
#2	.03427	.12938	.11839	.12205	.00411	.00025	.00153
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.01153	.00846	.00949	.01542	.30919	.15621	
SDev	.00668	.00368	.00468	.00203	.00067	.00037	
%RSD	57.897	43.473	49.313	13.149	.21814	.23894	
#1	.00681	.00586	.00618	.01398	.30967	.15647	
#2	.01626	.01106	.01279	.01685	.30872	.15594	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11776	--	--	--	--	--	--
SDev	13.75267	--	--	--	--	--	--
%RSD	.1167824	--	--	--	--	--	--
#1	11786	--	--	--	--	--	--
#2	11767	--	--	--	--	--	--

Method: METTRA Sample Name: DXR02

Operator: RJG

Run Time: 03/28/01 02:37:11

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00032	67.663	.01698	.26969	-.00045	1.0194	-.00293
SDev	.00009	.026	.00011	.00010	.00015	.0008	.00006
%RSD	28.837	.03844	.62834	.03824	33.521	.07600	2.1684
#1	-.00039	67.682	.01691	.26962	-.00035	1.0188	-.00298
#2	-.00026	67.645	.01706	.26976	-.00056	1.0199	-.00289
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01859	.09362	.05406	124.66	1.8867	1.3149	.00063
SDev	.00036	.00093	.00040	.07	.0010	.0000	.00084
%RSD	1.9347	.98867	.74655	.05813	.05362	.00245	134.88
#1	.01884	.09427	.05434	124.71	1.8874	1.3149	.00122
#2	.01833	.09296	.05377	124.61	1.8860	1.3150	.00003
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02432	.09374	.08671	.08905	.00359	-.00331	-.00101
SDev	.00021	.00055	.00070	.00028	.00143	.00335	.00176
%RSD	.88192	.58761	.80382	.31611	39.796	101.20	173.74
#1	.02447	.09413	.08622	.08885	.00460	-.00567	-.00225
#2	.02417	.09335	.08721	.08925	.00258	-.00094	.00023
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.01429	.00364	.00718	.01245	.15978	.12762	
SDev	.00224	.00323	.00141	.00351	.00024	.00002	
%RSD	15.700	88.827	19.579	28.157	.14885	.01518	
#1	.01271	.00592	.00818	.00997	.15961	.12763	
#2	.01588	.00135	.00619	.01493	.15995	.12760	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

680 1519

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11863	--	--	--	--	--	--
SDev	6.363961	--	--	--	--	--	--
%RSD	.0536434	--	--	--	--	--	--
#1	11859	--	--	--	--	--	--
#2	11868	--	--	--	--	--	--

Method: METTRA Sample Name: DXR08

Operator: RJG

Run Time: 03/28/01 02:41:38

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00373	118.29	.03731	.40247	.00381	1.9700	L-.00909
SDev	.00066	.85	.00182	.00303	.00041	.0114	.00023
%RSD	17.668	.71879	4.8701	.75217	10.843	.57633	2.5450
#1	-.00419	118.89	.03602	.40461	.00411	1.9780	L-.00893
#2	-.00326	117.69	.03859	.40033	.00352	1.9619	L-.00926
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.06981	.15441	.18485	342.14	7.9271	1.4693	-.00033
SDev	.00095	.00167	.00129	2.06	.0641	.0109	.00052
%RSD	1.3592	1.0837	.69842	.60227	.80907	.74080	159.42
#1	.07048	.15560	.18576	343.59	7.9724	1.4770	.00004
#2	.06914	.15323	.18394	340.68	7.8817	1.4616	-.00070
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07795	.12719	.11378	.11824	.00257	-.00450	-.00215
SDev	.00132	.00277	.00048	.00060	.00100	.00289	.00226
%RSD	1.6896	2.1789	.42071	.51047	38.786	64.314	105.40
#1	.07888	.12523	.11412	.11782	.00327	-.00245	-.00055
#2	.07702	.12915	.11344	.11867	.00186	-.00654	-.00374
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.01424	.00958	.01113	.02537	.32424	.27548	
SDev	.00048	.00082	.00039	.00112	.00477	.00181	
%RSD	3.3517	8.5694	3.4905	4.4232	1.4724	.65690	
#1	.01391	.01016	.01141	.02458	.32761	.27676	
#2	.01458	.00900	.01086	.02616	.32086	.27420	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

680 1521

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	12975	--	--	--	--	--	--
SDev	50.66448	--	--	--	--	--	--
%RSD	.3904920	--	--	--	--	--	--
#1	12939	--	--	--	--	--	--
#2	13010	--	--	--	--	--	--

Method: METTRA Sample Name: DXR1C

Operator: RJG

Run Time: 03/28/01 02:46:05

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00066	92.122	.04095	.43881	.00106	2.8656	-.00360
SDev	.00043	.745	.00031	.00368	.00015	.0229	.00003
%RSD	65.996	.80899	.75620	.83834	14.056	.80014	.95123

#1	-.00096	92.649	.04073	.44141	.00117	2.8818	-.00363
#2	-.00035	91.595	.04117	.43621	.00095	2.8493	-.00358

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01870	.13207	.05790	154.97	3.5545	.68781	.00501
SDev	.00023	.00160	.00039	1.45	.0285	.00572	.00117
%RSD	1.2128	1.2084	.67470	.93344	.80118	.83191	23.253

#1	.01854	.13320	.05817	155.99	3.5746	.69186	.00419
#2	.01886	.13094	.05762	153.94	3.5344	.68377	.00584

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04137	.09456	.08715	.08962	.00831	-.00600	-.00123
SDev	.00110	.00146	.00432	.00240	.00426	.00117	.00220
%RSD	2.6602	1.5395	4.9590	2.6756	51.289	19.473	178.21

#1	.04215	.09353	.09020	.09131	.01132	-.00517	.00032
#2	.04059	.09559	.08409	.08792	.00529	-.00682	-.00279

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00904	.00722	.00783	.01035	.22872	.14331
SDev	.00343	.00110	.00187	.00562	.00173	.00154
%RSD	37.910	15.166	23.917	54.365	.75648	1.0718

#1	.00662	.00644	.00650	.01432	.22994	.14440
#2	.01147	.00799	.00915	.00637	.22749	.14222

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

680 1523

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11828	--	--	--	--	--	--
SDev	83.47382	--	--	--	--	--	--
%RSD	.7057351	--	--	--	--	--	--
#1	11769	--	--	--	--	--	--
#2	11887	--	--	--	--	--	--

Method: METTRA Sample Name: DXR1F

Operator: RJG

Run Time: 03/28/01 02:50:32

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00011	70.508	.05601	.27655	.00051	1.5337	L-.00544
SDev	.00048	.093	.00045	.00010	.00021	.0004	.00006
%RSD	434.44	.13229	.80741	.03768	41.392	.02631	1.0938
#1	-.00045	70.443	.05633	.27647	.00066	1.5334	L-.00540
#2	.00023	70.574	.05569	.27662	.00036	1.5340	L-.00548
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02076	.18618	.13112	215.97	1.6009	1.4700	.00331
SDev	.00015	.00074	.00003	.07	.0021	.0008	.00009
%RSD	.74207	.39780	.02665	.03053	.13066	.05138	2.6375
#1	.02087	.18670	.13114	215.92	1.6024	1.4706	.00337
#2	.02065	.18566	.13109	216.02	1.5995	1.4695	.00325
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04123	.12093	.11278	.11549	.00269	-.00367	-.00155
SDev	.00065	.00159	.00065	.00096	.00179	.00007	.00055
%RSD	1.5861	1.3154	.57419	.83263	66.479	1.7752	35.514
#1	.04077	.11980	.11232	.11481	.00142	-.00362	-.00194
#2	.04169	.12205	.11324	.11617	.00395	-.00372	-.00116
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.01205	.01236	.01225	.01446	.20761	.14403	
SDev	.00058	.00540	.00341	.00170	.00113	.00049	
%RSD	4.7800	43.708	27.834	11.751	.54576	.33879	
#1	.01246	.00854	.00984	.01326	.20841	.14438	
#2	.01164	.01618	.01467	.01566	.20681	.14369	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11785	--	--	--	--	--	--
SDev	13.29347	--	--	--	--	--	--
%RSD	.1127994	--	--	--	--	--	--
#1	11794	--	--	--	--	--	--
#2	11776	--	--	--	--	--	--

Method: METTRA Sample Name: CCV3-10

Operator: RJG

Run Time: 03/28/01 02:54:59

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0638	25.302	.51548	2.0475	2.1085	53.434	.49790
SDev	.0065	.190	.00054	.0120	.0112	.362	.00180
%RSD	.60914	.75083	.10404	.58374	.53212	.67713	.36174
#1	1.0592	25.167	.51510	2.0391	2.1006	53.178	.49662
#2	1.0684	25.436	.51585	2.0560	2.1164	53.690	.49917
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	55.000	.55000
Low	.90000	22.500	.45000	1.8000	1.8000	45.000	.45000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0958	2.0687	2.0217	25.663	49.843	2.0459	2.0450
SDev	.0113	.0101	.0123	.118	.178	.0124	.0165
%RSD	.54039	.48587	.60798	.46171	.35795	.60584	.80675
#1	2.0878	2.0616	2.0130	25.579	49.717	2.0371	2.0333
#2	2.1038	2.0758	2.0304	25.747	49.969	2.0546	2.0566
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	27.500	55.000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	22.500	45.000	1.8000	1.8000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0079	.51520	.50522	.50854	.51942	.51853	.51883
SDev	.0078	.00252	.00402	.00352	.00102	.00601	.00435
%RSD	.38982	.48936	.79585	.69244	.19566	1.1598	.83839
#1	2.0023	.51342	.50238	.50605	.51870	.51428	.51575
#2	2.0134	.51698	.50806	.51103	.52014	.52278	.52190
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000			.55000			.55000
Low	1.8000			.45000			.45000
Elem	SE/1	SE/2	SE	TL	V__	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.51911	.52366	.52214	1.0154	1.9994	2.0601	
SDev	.00372	.00585	.00514	.0121	.0050	.0075	
%RSD	.71666	1.1174	.98476	1.1942	.24857	.36623	
#1	.51648	.51952	.51851	1.0068	1.9959	2.0547	
#2	.52174	.52779	.52578	1.0240	2.0029	2.0654	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.55000	1.1000	2.2000	2.2000	
Low			.45000	.90000	1.8000	1.8000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11605	--	--	--	--	--	--
SDev	26.79962	--	--	--	--	--	--
%RSD	.2309237	--	--	--	--	--	--
#1	11624	--	--	--	--	--	--
#2	11586	--	--	--	--	--	--

Method: METTRA Sample Name: CCB10

Operator: RJG

Run Time: 03/28/01 02:59:26

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00106	-.04105	.00008	.00014	-.00251	.01055	.00020
SDev	.00010	.01074	.00011	.00014	.00050	.00002	.00009
%RSD	9.0109	26.157	148.34	100.81	20.022	.18330	46.061
#1	.00099	-.03346	-.00000	.00023	-.00216	.01054	.00014
#2	.00113	-.04865	.00016	.00004	-.00287	.01057	.00027
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00088	.00031	.00261	.03311	.00488	.00005	.00103
SDev	.00000	.00042	.00014	.00003	.00198	.00013	.00114
%RSD	.02428	136.67	5.1681	.08286	40.527	258.53	110.83
#1	.00088	.00001	.00271	.03309	.00348	.00014	.00184
#2	.00088	.00061	.00252	.03313	.00628	-.00004	.00022
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00029	-.00116	.00055	-.00002	.00269	-.00101	.00022
SDev	.00061	.00097	.00187	.00093	.00002	.00150	.00101
%RSD	210.30	83.538	340.91	4924.3	.84069	148.30	456.16
#1	.00073	-.00047	-.00077	-.00067	.00271	.00005	.00094
#2	-.00014	-.00184	.00187	.00064	.00268	-.00207	-.00049
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00039	.00143	.00108	.00196	-.00046	.00112	
SDev	.00197	.00362	.00176	.00401	.00000	.00150	
%RSD	506.07	253.63	162.42	205.20	.00192	133.83	
#1	-.00101	.00399	.00232	-.00088	-.00046	.00006	
#2	.00179	-.00113	-.00016	.00479	-.00046	.00219	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	11632	--	--	--	--	--	--
SDev	13.08147	--	--	--	--	--	--
%RSD	.1124645	--	--	--	--	--	--
#1	11641	--	--	--	--	--	--
#2	11622	--	--	--	--	--	--

680 1530

STL-Pittsburgh Atomic Absorption Data for Mercury

Instrument: PS200HG

Analyst Name: William A. Hays

Date of Analysis: 3-26-01

File ID: 0326HGA

Matrix: WATER

Lot Number/SDG

Method

CIC210117 (TCLP)

7470A

CIC140252

CIC220167

CIC150239

CIC220138

CIC230250

CIC220173

↓

680 1531

William A. Hogle 3.26.01

09:30:19 26 Mar 2001

Folder: 0326HGA
Protocol: HGMET

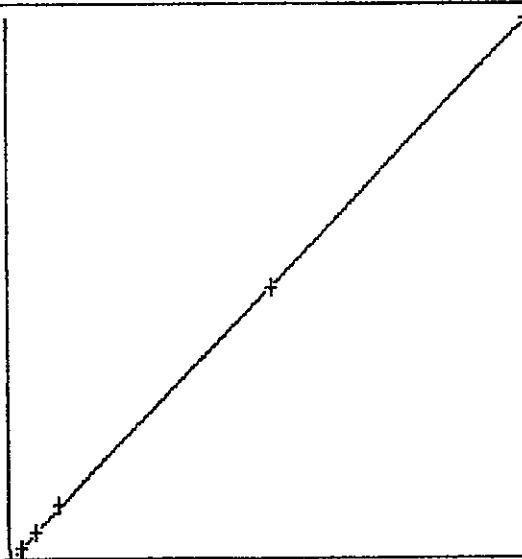
Page 1449

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Standard: 1 Rep: 1				Seq: 0	09:30:19 26 Mar 2001 HG			
Hg	.000	ppb	3265					
*** Standard: 2 Rep: 1				Seq: 1	09:31:58 26 Mar 2001 HG			
Hg	.200	ppb	23889		0087-169-4			
*** Standard: 3 Rep: 1				Seq: 2	09:33:27 26 Mar 2001 HG			
Hg	.500	ppb	49449		0087-169-5			
*** Standard: 4 Rep: 1				Seq: 3	09:34:52 26 Mar 2001 HG			
Hg	1.00	ppb	93896		0087-169-6			
*** Standard: 5 Rep: 1				Seq: 4	09:36:21 26 Mar 2001 HG			
Hg	5.00	ppb	483686		0087-169-7			
*** Standard: 6 Rep: 1				Seq: 5	09:37:56 26 Mar 2001 HG			
Hg	10.0	ppb	949660		0087-169-8			

RunProt: HGMET STL-PITTSBURGH METALS ANALYSIS
 RunFold: 0326HGA Seq: 6 Batch:
 Prnt: R/T On Pump: On
 Rev: 4.2 09:38:18 26 Mar 2001 Xmit: Off Gas: 0.30 LPM
 State: Idle User: WAH A/S: On

CALIBRATION: Line proto: HGMET

	Hg	Accepted
Conc.	Calc.	Dev. ->linear
S1	.000	.001 Quadratic
S2	.200	.219 .019 Wtdlinear
S3	.500	.488 -.012 C
S4	1.00	.956 -.044 Accept o
S5	5.00	5.06 .063 n
S6	10.0	9.97 -.028 c
A	.0000000	r .999955
B	1.05357e-5	C -3.29262e-2



	Mean	SD
S1	3265	3265
S2	23889	23889
S3	49449	49449
S4	93896	93896
S5	483686	483686
S6	949660	949660

New cal coefficients stored

William a. Heyle 3-26-01

680 1533

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09:41:03 26 Mar 2001

Folder: 0326HGA

Protocol: HGMET

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: ICV5-1				Seq: 6		09:41:03 26 Mar 2001 HG		
Hg	2.51	ppb	241005		0087-170-1			
*** Sample ID: ICB1				Seq: 7		09:42:38 26 Mar 2001 HG		
Hg	-.033	ppb	8					
*** Sample ID: CCV5-1				Seq: 8		09:44:07 26 Mar 2001 HG		
Hg	5.01	ppb	478907		0087-170-2			
*** Sample ID: CCB1				Seq: 9		09:45:33 26 Mar 2001 HG		
Hg	.035	ppb	6447					
*** Sample ID: DXX3MBT				Seq: 10		09:46:59 26 Mar 2001 HG		
Hg	-.047	ppb	-1372					
*** Sample ID: DXX3MCT				Seq: 11		09:48:23 26 Mar 2001 HG		
Hg	2.68	ppb	257192		0087-170-3			
*** Sample ID: DXTB0BT				Seq: 12		09:49:48 26 Mar 2001 HG		
Hg	.035	ppb	6461					
*** Sample ID: DXN19T				Seq: 13		09:51:13 26 Mar 2001 HG		
Hg	.894	ppb	88016					
*** Sample ID: DXN19ST				Seq: 14		09:52:44 26 Mar 2001 HG		
Hg	5.87	ppb	559917					SP. REC. 100%
*** Sample ID: DXN19DT				Seq: 15		09:54:11 26 Mar 2001 HG		
Hg	5.81	ppb	554667					SP. REC. 98%
*** Sample ID: DXX3PB				Seq: 16		09:55:36 26 Mar 2001 HG		
Hg	-.005	ppb	2686					
*** Sample ID: DXX3PC				Seq: 17		09:57:16 26 Mar 2001 HG		
Hg	2.48	ppb	238047		0087-170-4			

680 1534

09:58:46 26 Mar 2001

Folder: 0326HGA

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Protocol: HGMET

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: DXDX4				Seq: 18		09:58:46 26 Mar 2001	HG	
Hg	-.030	ppb	307					
*** Sample ID: DXD0A				Seq: 19		10:00:13 26 Mar 2001	HG	
Hg	.050	ppb	7860					
*** Sample ID: CCV5-2				Seq: 20		10:01:38 26 Mar 2001	HG	
Hg	4.94	ppb	472428					
*** Sample ID: CCB2				Seq: 21		10:03:02 26 Mar 2001	HG	
Hg	-.061	ppb	-2621					
*** Sample ID: DXD0F				Seq: 22		10:04:30 26 Mar 2001	HG	
Hg	-.009	ppb	2245					
*** Sample ID: DXD0H				Seq: 23		10:06:07 26 Mar 2001	HG	
Hg	-.001	ppb	3019					
*** Sample ID: DXD0M				Seq: 24		10:07:34 26 Mar 2001	HG	
Hg	-.002	ppb	2941					
*** Sample ID: DXD0O				Seq: 25		10:09:45 26 Mar 2001	HG	
Hg	.057	ppb	8533					
*** Sample ID: DXD35				Seq: 26		10:11:47 26 Mar 2001	HG	
Hg	.029	ppb	5897					
*** Sample ID: DXD4A				Seq: 27		10:13:33 26 Mar 2001	HG	
Hg	-.024	ppb	807					
*** Sample ID: DXD4C				Seq: 28		10:15:00 26 Mar 2001	HG	
Hg	.009	ppb	3951					
*** Sample ID: DXD4H				Seq: 29		10:16:45 26 Mar 2001	HG	
Hg	.034	ppb	6389					

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10:18:22 26 Mar 2001

Folder: 0326HGA

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Protocol: HGMET

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: DXD4L				Seq: 30	10:18:22 26 Mar 2001	HG		
Hg	.026	ppb	5627					
*** Sample ID: DXD4M				Seq: 31	10:20:08 26 Mar 2001	HG		
Hg	-.008	ppb	2371					
*** Sample ID: CCV5-3				Seq: 32	10:21:54 26 Mar 2001	HG		
Hg	4.89	ppb	467358					
*** Sample ID: CCB3				Seq: 33	10:23:31 26 Mar 2001	HG		
Hg	.002	ppb	3350					
*** Sample ID: DXD4N				Seq: 34	10:24:59 26 Mar 2001	HG		
Hg	-.011	ppb	2093					
*** Sample ID: DXD4Q				Seq: 35	10:26:28 26 Mar 2001	HG		
Hg	.030	ppb	5997					
*** Sample ID: DXD4W				Seq: 36	10:28:10 26 Mar 2001	HG		
Hg	.027	ppb	5660					
*** Sample ID: DXRF3				Seq: 37	10:29:49 26 Mar 2001	HG		
Hg	15.5	H ppb	1474598					
*** Sample ID: DXRF3S				Seq: 38	10:31:19 26 Mar 2001	HG		
Hg	15.7	H ppb	1491618					
*** Sample ID: DXRF3D				Seq: 39	10:33:28 26 Mar 2001	HG		
Hg	15.7	H ppb	1496607					
*** Sample ID: DXRFB				Seq: 40	10:34:55 26 Mar 2001	HG		
Hg	6.16	ppb	588255					
*** Sample ID: DXX3RB				Seq: 41	10:36:32 26 Mar 2001	HG		
Hg	-.022	ppb	1055					

VOID
OVER RANGE
WILL RERUN
FURTHER IN Rn
WAH
3-36-01

680 1536

10:37:58 26 Mar 2001

Folder: 0326HGA

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Protocol: HGMET

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: DXX3RC				Seq: 42	10:37:58 26 Mar 2001	HG		
Hg	2.50	ppb	240292		0087-170 5			
*** Sample ID: DXF6G				Seq: 43	10:39:26 26 Mar 2001	HG		
Hg	.017	ppb	4731					
*** Sample ID: CCV5-4				Seq: 44	10:40:53 26 Mar 2001	HG		
Hg	4.92	ppb	470017					
*** Sample ID: CCB4				Seq: 45	10:42:22 26 Mar 2001	HG		
Hg	.012	ppb	4294					
*** Sample ID: DXF6GS				Seq: 46	10:44:12 26 Mar 2001	HG		
Hg	.280	ppb	29700					SP. REC. 28%/
*** Sample ID: DXF6GD				Seq: 47	10:45:38 26 Mar 2001	HG		
Hg	.255	ppb	27288					SP. REC. 26%/
*** Sample ID: DXF74				Seq: 48	10:47:28 26 Mar 2001	HG		
Hg	.094	ppb	12043					
*** Sample ID: DXF8E				Seq: 49	10:49:08 26 Mar 2001	HG		
Hg	.275	ppb	29202					
*** Sample ID: DXF8Q				Seq: 50	10:50:36 26 Mar 2001	HG		
Hg	.003	ppb	3379					
*** Sample ID: DXF8V				Seq: 51	10:52:22 26 Mar 2001	HG		
Hg	.035	ppb	6424					
*** Sample ID: DXF8W				Seq: 52	10:53:48 26 Mar 2001	HG		
Hg	-.018	ppb	1463					
*** Sample ID: DXF8O				Seq: 53	10:55:24 26 Mar 2001	HG		
Hg	2.00	ppb	192804					

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10:56:55 26 Mar 2001

Folder: 0326HGA
Protocol: HGMET

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Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: DXFB1				Seq: 54	10:56:55 26 Mar 2001 HG			
Hg	-.021	ppb	1178					
*** Sample ID: DXF9A				Seq: 55	10:58:41 26 Mar 2001 HG			
Hg	-.005	ppb	2607					
*** Sample ID: CCV5-5				Seq: 56	11:00:28 26 Mar 2001 HG			
Hg	4.90	ppb	468458					
*** Sample ID: CCB5				Seq: 57	11:01:57 26 Mar 2001 HG			
Hg	.006	ppb	3693					
*** Sample ID: DXQ4N				Seq: 58	11:03:24 26 Mar 2001 HG			
Hg	.005	ppb	3604					
*** Sample ID: DXWKM				Seq: 59	11:05:00 26 Mar 2001 HG			
Hg	.016	ppb	4634					
*** Sample ID: DXX3VB				Seq: 60	11:06:28 26 Mar 2001 HG			
Hg	-.007	ppb	2432					
*** Sample ID: DXX3VC				Seq: 61	11:07:56 26 Mar 2001 HG			
Hg	2.51	ppb	241289	0087-170-6				
*** Sample ID: DXRH2				Seq: 62	11:10:02 26 Mar 2001 HG			
Hg	.164	ppb	18648					
*** Sample ID: DXRH2S				Seq: 63	11:11:47 26 Mar 2001 HG			
Hg	1.18	ppb	114770					SP REC. 102%
*** Sample ID: DXRH2D				Seq: 64	11:13:39 26 Mar 2001 HG			
Hg	1.30	ppb	126845					SP REC. 114%
*** Sample ID: DXRKF				Seq: 65	11:15:20 26 Mar 2001 HG			
Hg	.103	ppb	12914					

11:16:46 26 Mar 2001

Protocol: HGMET

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: CCV5-6				Seq: 66	11:16:46 26 Mar 2001 HG			
Hg	4.86	ppb	464061					
*** Sample ID: CCB6				Seq: 67	11:18:36 26 Mar 2001 HG			
Hg	-.006	ppb	2577					
*** Sample ID: DXRF3/2				Seq: 68	11:21:01 26 Mar 2001 HG			
Hg	8.14	ppb	775997					
*** Sample ID: DXRF3S/2				Seq: 69	11:22:30 26 Mar 2001 HG NC: SAMPLE CONC. WAS 74X SPIKE ADDED			
Hg	8.51	ppb	810648					
*** Sample ID: DXRF3D/2				Seq: 70	11:23:59 26 Mar 2001 HG NC: SAMPLE CONC. WAS 74X SPIKE ADDED			
Hg	8.36	ppb	796816					
*** Sample ID: CCV5-7				Seq: 71	11:26:05 26 Mar 2001 HG			
Hg	4.85	ppb	463937					
*** Sample ID: CCB7				Seq: 72	11:28:06 26 Mar 2001 HG			
Hg	.005	ppb	3610	END OF ANALYSIS WAH 3-26-01				

680 1539

RunProt: HGMET STL-PITTSBURGH METALS ANALYSIS
RunFold: 0326HGA Seq: 0 Batch:
Prnt: R/T On Pump: Off
Rev: 4.2 08:29:05 26 Mar 2001 Xmit: Off Gas: LPM
State: Idle User: WAH A/S: On

AUTOSAMPLER: Rack Edit rack: RACK1
cup ID Extended id Weight Volume Macro checkK macros
1 ICV5-1 1.0000 1.0000
2 ICB1 1.0000 1.0000
3 CCV5-1 1.0000 1.0000
4 CCB1 1.0000 1.0000
5 DXX3MBT 1.0000 1.0000
6 DXX3MCT 1.0000 1.0000
7 DXT80BT 1.0000 1.0000
8 DXN19T 1.0000 1.0000
9 DXN19ST 1.0000 1.0000
10 DXN19DT 1.0000 1.0000
11 DXX3PB 1.0000 1.0000
12 DXX3PC 1.0000 1.0000
13 DXDX4 1.0000 1.0000
14 DXDOA 1.0000 1.0000
15 CCV5-2 1.0000 1.0000

PgDn

Cup 1 ID: ICV5-1

Cell down mode Ins to switch

680 1540

RunProt: HGMET STL-PITTSBURGH METALS ANALYSIS
RunFold: 0326HGA Seq: 0 Batch:
Prnt: R/T On Pump: Off
Rev: 4.2 08:29:06 26 Mar 2001 Xmit: Off Gas: LPM
State: Idle User: WAH A/S: On

AUTOSAMPLER: Rack Edit rack: RACK1 PgUp
cup ID Extended id Weight Volume Macro checkK macros
16 CCB2 1.0000 1.0000
17 DXD0F 1.0000 1.0000
18 DXD0H 1.0000 1.0000
19 DXD0M 1.0000 1.0000
20 DXD00 1.0000 1.0000
21 DXD35 1.0000 1.0000
22 DXD4A 1.0000 1.0000
23 DXD4C 1.0000 1.0000
24 DXD4H 1.0000 1.0000
25 DXD4L 1.0000 1.0000
26 DXD4M 1.0000 1.0000
27 CCV5-3 1.0000 1.0000
28 CCB3 1.0000 1.0000
29 DXD4N 1.0000 1.0000
30 DXD4Q 1.0000 1.0000 PgDn

Cup 16 ID: CCB2

Cell down mode Ins to switch

680 1541

RunProt: HGMET STL-PITTSBURGH METALS ANALYSIS

RunFold: 0326HGA Seq: 0 Batch:

Prnt: R/T On

Pump: Off

Rev: 4.2 08:29:07 26 Mar 2001

Xmit: Off Gas:

LPM

State: Idle

User: WAH

A/S: On

AUTOSAMPLER: Rack Edit rack: RACK1

PgUp

cup ID	Extended id	Weight	Volume	Macro	check macros
31 DXD4W		1.0000	1.0000		
32 DXRF3		1.0000	1.0000		
33 DXRF3S		1.0000	1.0000		
34 DXRF3D		1.0000	1.0000		
35 DXRF8		1.0000	1.0000		
36 DXX3PB		1.0000	1.0000		
37 DXX3RC		1.0000	1.0000		
38 DXF6G		1.0000	1.0000		
39 CCV5-4		1.0000	1.0000		
40 CCB4		1.0000	1.0000		
41 DXF6GS		1.0000	1.0000		
42 DXF6GD		1.0000	1.0000		
43 DXF74		1.0000	1.0000		
44 DXF8E		1.0000	1.0000		

PgDn

Cup 31 ID: DXD4W

Cell down mode Ins to switch

680 1542

RunProt: HGMET STL-PITTSBURGH METALS ANALYSIS
RunFold: 0326HGA Seq: 0 Batch:
Prnt: R/T On Pump: Off
Rev: 4.2 08:34:52 26 Mar 2001 Xmit: Off Gas: LPM
User: WAH A/S: On
State: Idle

AUTOSAMPLER: Rack Edit rack: RACK2 Range 1-44 Clear seQ Undo exit
cup ID Extended id Weight Volume Macro checkK macros
1 DXF8Q 1.0000 1.0000
2 DXF8V 1.0000 1.0000
3 DXF8W 1.0000 1.0000
4 DXF80 1.0000 1.0000
5 DXF81 1.0000 1.0000
6 DXF9A 1.0000 1.0000
7 CCV5-5 1.0000 1.0000
8 CCB5 1.0000 1.0000
9 DXQ4N 1.0000 1.0000
10 DXWKM 1.0000 1.0000
11 DXX3VB 1.0000 1.0000
12 DXX3VC 1.0000 1.0000
13 DXRH2 1.0000 1.0000
14 DXRH2S 1.0000 1.0000
15 DXRH2D 1.0000 1.0000

PgDn

Cup 1 ID: DXF8Q

Cell down mode Ins to switch

680 1543

RunProt: HGMET	STL-PITTSBURGH METALS ANALYSIS		
RunFold: 0326HGA	Seq: 73	Batch:	
	Print: R/T On	Pump: On	
	Rev: 4.2	11:28:47 26 Mar 2001	Xmit: Off Gas: 0.30 LPM
State: Idle		User: WAH	A/S: On

AUTOSAMPLER:		Rack Edit	rack: RACK2	Range 1-44	Clear seQ	Undo eXit	PgUp
cup ID	Extended id	Weight	Volume	Macro	check macros		
16 DXRKF		1.0000	1.0000				
17 CCV5-6		1.0000	1.0000				
18 CCB6		1.0000	1.0000				
19 DXRF3/2		1.0000	1.0000				
20 DXRF3S/2		1.0000	1.0000				
21 DXPF3D/2		1.0000	1.0000				
22 CCV5-7		1.0000	1.0000				
23 CCB7		1.0000	1.0000				
24		1.0000	1.0000				
25		1.0000	1.0000				
26		1.0000	1.0000				
27		1.0000	1.0000				
28		1.0000	1.0000				
29		1.0000	1.0000				
30		1.0000	1.0000				

PgDn

Cup 16 ID: DXRKF

Cell down mode Ins to switch

Metals Preparation Log
Logbook ID: MT47

Logbook ID: MT47

		Correction Factor
Hot Plate/Block Temp	# 1 / 95 °C	+0.5 °C
	Color:	
R=Red	Y=Yellow	W=White
BL=Blue	O=Orange	G=Gray
BR=Brown	V=Violet	GN=Green
BLK=Black	P=Pink	C=Colorless

Hg Digestion Log

Quanterra Incorporated
450 William Pitt Way
Pittsburgh, Pennsylvania 15238
412/826-5477 FAX: 412/826-5571



680 1545

QIA-4169

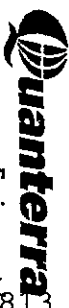
PET #32609

Serial Number 031 Log Book Number 96-MT-584 Start Time 05/02/08 25

Sample ID	Date Rec'd	Prep Date	Prepared By	W/Vol	Sample Type	Run Date	Comments
1. STD0	N/A	3-26-01	WAH	100ml	WATER	3-26-01	N/A
2. STD1							0087-169-4
3. STD2							0087-169-5
4. STD3							0087-169-6
5. STD4							0087-169-7
6. STD5							0087-169-8
7. TCV							0087-170-1
8. TCB							N/A
9. CCV							0087-170-2
10. CCB							N/A
11. DXX3mBT							0087-170-3
12. DXX3mCT							N/A
13. DXT80BT							
14. DXN19T	3-21-01						45ml 0087-169-2
15. DXN19ST							5ml 0087-169-2
16. DXN19BT							N/A
17. DXX3PB	N/A						0087-170-4
18. DXX3PC							N/A
19. DXX3Y	3-14-01						
20. DXX3OA							
21. DXX3OF							
22. DXX3OH							
23. DXX3em							
24. DXX3oe							
25. DXD35							
Reagents							
HNO3	3.5ml						MAILINCKRODT 663 TDSHOS
H2SO4	5.0ml						5357 T6A16
KMNO4	15.0ml						0087-160-6
K2S2O4	8.0ml						0087-153-16
Extract(s) Received							
Extract(s)	Date	Time	Analyst	Location	Date	Time	Analyst
(Record line number from above)							
			WAH 3-26-01				
Extract(s) Relinquished							
Extract(s)	Date	Time	Analyst	Location	Date	Time	Analyst
(Record line number from above)							

Hg Digestion Log

Quanterra Incorporated
450 William Pitt Way
Pittsburgh, Pennsylvania 15238
412/826-5477 FAX 412/826-5571



QUA-4169

Project # H31609

Serial Number 032 Log Book Number 96-MT-584 Start Time 08:10 7-08-75

Sample ID	Date Recd	Prep Date	Prepared By	Wt/Vol	Sample Type	Run Date	Comments
1. DxD4A	3-14-01	3-26-01	WAH	100ml	WATER	3-26-01	N/A
2. DxD4C							
3. DxD4H							
4. DxD4L							
5. DxD4M							
6. DxD4W							
7. DxD4Q							
8. DxD4W							
9. DXRf3	3-22-01						
10. DXRf35							1ml 0087-165-2
11. DXRf3D							1ml 0087-165-2
12. DXRf8							N/A
13. DXX3RB	N/A						0087-170-5
14. DXX3RC							N/A
15. DXF66	3-15-01						1ml 0087-165-2
16. DXF66S							1ml 0087-165-2
17. DXF66U							N/A
18. DXF74							
19. DXF86							
20. DXF89							
21. DXF8V							
22. DXF8W							
23. DXF8O							
24. DXF8I							
25. DXF9A							
Reagents		Vol (ml)	Ref. Number		Method		
HNO3		2.5ml	MALLACKRODT 6623		7470A AUTOCLEAVE 150ST 120T		
H2SO4		5.0ml	5557 TIGAR6		SACLS = 0087-162-9		
KMNO4		15.0ml	0087-160-6		MCL-AHACH = 0087-159-8		
K2S2O4		8.0ml	0087-153-16		WAH 3-26-01		
Extract(s)		Extract(s) Received		Extract(s) Relinquished			
(Record line number from above)	Date	Time	Analyst	Location	Date	Time	Location
			WAH 3-26-01				



Quanterra
Environmental

Environmental

05-10-708:25

STL (Pittsburgh)

680 1548

PSR024 3/23/01 4:26:51 MT

SAMPLE CUSTODIAN REMOVAL REQUEST

PAGE 007

REQUESTED BY: RIZZOC

METHOD: QM Inductively Coupled Plasma (6010B Trace)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SPX	MATRIX DESCRIPTION	QTY	
										RCVD	REQD
14C	DXRF3	___	322390	367970	I-05-QM	C1C220167	001		WATER	0	4 1
14C	DXRF8	___	322391	367970	I-05-QM	C1C220167	002		WATER	0	4 1
14C, CLP1	DXRH2	___	322387	399411	I-05-QM	C1C220173	001		WATER	0	13 1
14C, CLP1	DXRKP	___	322388	399411	I-05-QM	C1C220173	002		WATER	0	13 1

RELINQUISHED BY

RECEIVED BY

DATE/TIME

[Signature]
CyberAlisa A

CyberAlisa A
[Signature]

3-23-01 0715

3-23-01 0900

***** END OF REPORT *****

REQUESTED BY HOYLEW

METHOD. 08 Mercury (7470A, Cold Vapor) - Liquid

<u>STORAGE LOCATION</u>	<u>WORK ORDER #</u>	<u>PICKED</u> <u>CNTR#</u>	<u>CONTROL #</u>	<u>CLIENT #</u>	<u>ANALYSIS</u>	<u>LOTID</u>	<u>SMP#</u>	<u>SFX</u>	<u>MATRIX</u> <u>DESCRIPTION</u>	<u>QTY</u> <u>RCVD</u>	<u>QTY</u> <u>REQD</u>
14C, CLP1	DXRH2	_____	322864	399411	I-19-08	C1C220173	001		WATER	0 13	1
14C, CLP1	DXRKF	_____	322865	399411	I-19-08	C1C220173	002		WATER	0 13	1

RELINQUISHED BYRECEIVED BYDATE/TIME

<u>William A Hoyle</u>	<u>William A Hoyle</u>	<u>3-26-01 05:55</u>
<u>William A Hoyle</u>	<u>William A Hoyle</u>	<u>3-26-01 07:00</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

***** END OF REPORT *****

680 1550

GENERAL CHEMISTRY DATA

680 1551

UXB INTERNATIONAL

Client Sample ID: DF/24-B/1080/IDW/004

General Chemistry

Lot-Sample #...: C1C220173-001 Work Order #...: DXRH2 Matrix.....: WATER
Date Sampled...: 03/21/01 Date Received...: 03/22/01

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH	8.6		No Units	SW846 9040	03/22/01	1081495
		Dilution Factor: 1		MS Run # .	1081231	
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	03/26/01	1085156
		Dilution Factor 1		MS Run # .	1085051	
Flashpoint	>201		deg F	SW846 1010	03/26/01	1085437
		Dilution Factor: 1		MS Run #... .	1085232	
Total Sulfide	ND	1.0	mg/L	MCAWW 376.1	03/27/01	1086345
		Dilution Factor. 1		MS Run # . .	1086171	

680 1552

UXB INTERNATIONAL

Client Sample ID: DF/24-B/1080/IDW/005

General Chemistry

Lot-Sample #...: C1C220173-002 Work Order #...: DXRKF Matrix.....: WATER
Date Sampled...: 03/21/01 Date Received...: 03/22/01

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH	8.5		No Units	SW846 9040	03/22/01	1081495
			Dilution Factor: 1	MS Run # .	1081231	
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	03/26/01	1085156
			Dilution Factor: 1	MS Run #	1085051	
Flashpoint	>201		deg F	SW846 1010	03/26/01	1085437
			Dilution Factor 1	MS Run # ..	1085232	
Total Sulfide	ND	1.0	mg/L	MCAWW 376.1	03/27/01	1086345
			Dilution Factor: 1	MS Run #. .	1086171	

680 1553

METHOD BLANK REPORT

General Chemistry

Client Lot #...: C1C220173

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Cyanide, Total	ND	Work Order #: DXVE91AA 10.0	ug/L	MB Lot-Sample #: SW846 9012A	C1C230000-161 03/26/01	1085156
		Dilution Factor 1				
Total Sulfide	ND	Work Order #: DX16R1AA 1.0	mg/L	MB Lot-Sample #: MCAWW 376.1	C1C270000-345 03/27/01	1086345
		Dilution Factor: 1				

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results

680 1554

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: C1C220173

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
pH	101	Work Order #: DXTLV1AA (85 - 115) Dilution Factor: 1	LCS Lot-Sample#: C1C220000-495 SW846 9040	03/22/01	1081495
Cyanide, Total	101	Work Order #: DXVE91AC (85 - 115) Dilution Factor: 1	LCS Lot-Sample#: C1C230000-161 SW846 9012A	03/26/01	1085156
Flashpoint	101	Work Order #: DX00M1AA (85 - 115) Dilution Factor: 1	LCS Lot-Sample#: C1C260000-437 SW846 1010	03/26/01	1085437
Total Sulfide	95	Work Order #: DX16R1AC (75 - 125) Dilution Factor: 1	LCS Lot-Sample#: C1C270000-345 MCAWW 376.1	03/27/01	1086345

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results

680 1555

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: C1C220173

Matrix.....: WATER

Date Sampled...: 03/21/01

Date Received...: 03/22/01

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Cyanide, Total				WO#: DXRKF1CD-MS/DXRKF1CE-MSD	MS Lot-Sample #: C1C220173-002	
	0.0	(75 - 125)		SW846 9012A	03/26/01	1085156
	0.0	(75 - 125)	0.0 (0-20)	SW846 9012A	03/26/01	1085156
				Dilution Factor 1		
				MS Run # . . . 1085051		
Total Sulfide				WO#: DXRAF1AX-MS/DXRAF1A0-MSD	MS Lot-Sample #: C1C220157-001	
	94	(75 - 125)		MCAWW 376.1	03/27/01	1086345
	94	(75 - 125)	0.0 (0-20)	MCAWW 376.1	03/27/01	1086345
				Dilution Factor: 1		
				MS Run # 1086171		

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results

680 1556

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: C1C220173

Work Order #...: DXRAF-SMP
DXRAF-DUP

Matrix.....: WATER

Date Sampled...: 03/21/01

Date Received...: 03/22/01

% Moisture.....: 100

Dilution Factor:

Initial Wgt/Vol:

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH	8.3	8.2	No Units	0.48	(0-20)	SD Lot-Sample #: C1C220157-001 SW846 9040	03/22/01	1081495
			Dilution Factor. 1			MS Run Number 1081231		

680 1557

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: C1C220173

Work Order #...: DXRH2-SMP
DXRH2-DUP

Matrix.....: WATER

Date Sampled...: 03/21/01

Date Received...: 03/22/01

% Moisture.....:

Dilution Factor:

Initial Wgt/Vol:

<u>PARAM</u>	<u>RESULT</u>	<u>DUPLICATE</u>	<u>UNITS</u>	<u>RPD</u>	<u>LIMIT</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>PREP</u>
		<u>RESULT</u>					<u>ANALYSIS DATE</u>	<u>BATCH #</u>
Flashpoint						SD Lot-Sample #:	C1C220173-001	
	>201	>201	deg F	0.0	(0-20)	SW846 1010	03/26/01	1085437
			Dilution Factor: 1			MS Run Number .	1085232	

STL Pittsburgh
pH LOG SHEET

Lot No.	Batch No.	SDG No.
C1C220157		
C1C220173	1081495	
C1C220197	1081494	
C1C220197	1081482	

Analyst: Kevin Grover / J. Johnson
Date: 3-22-01
Start Time: 13:15 / 1450

pH Meter Calibration

Reading	Buffer	Manf. Lot No.	Rec'd	Expire
4.00	4.0	LAB CHSM 0271-08	12-19-00	12-19-01
7.00	7.0	0002-04	5-19-00	3-1-02
10.00	10.0	0146-04	10-26-01	5-25-01

LCS ID No.: 0299-26 Bxp. 12-19-01

Range = $\pm .05$ pH units

Relative Percent Difference =

CIC 220157	- 001	= 0.5%
CIC 220197	- 005	= 0.7%
	+ 019	= 0.3%

$$\frac{|X_1 - X_2|}{\left(\frac{X_1 + X_2}{2}\right)} \times 100$$

X₁ = Original Result
X₂ = Duplicate

pH Liquid

Sample ID	pH Reading
LCS	7.05
CIC 220157-001	8.27
↓ -001 D20	8.23
CIC 220173-001	8.61
↓ -002	8.47
LCS	7.05

pH Solid

Sample ID	pH Reading
LLS	6.96
UCC20197.001	6.04
0002	6.79
0003	6.79
0004	6.79
0005	6.79
0006	6.79
0007	6.79
0008	6.79
0009	6.79
0010	6.79
0011	6.79
0012	6.79
0013	6.79
0014	6.79
0015	6.79
0016	6.79
0017	6.79
0018	6.79
0019	6.79
0020	6.79
0021	6.79
0022	6.79
0023	6.79
0024	6.79
0025	6.79
0026	6.79
0027	6.79
0028	6.79
0029	6.79
0030	6.79
0031	6.79
0032	6.79
0033	6.79
0034	6.79
0035	6.79
0036	6.79
0037	6.79
0038	6.79
0039	6.79
0040	6.79
0041	6.79
0042	6.79
0043	6.79
0044	6.79
0045	6.79
0046	6.79
0047	6.79
0048	6.79
0049	6.79
0050	6.79
0051	6.79
0052	6.79
0053	6.79
0054	6.79
0055	6.79
0056	6.79
0057	6.79
0058	6.79
0059	6.79
0060	6.79
0061	6.79
0062	6.79
0063	6.79
0064	6.79
0065	6.79
0066	6.79
0067	6.79
0068	6.79
0069	6.79
0070	6.79
0071	6.79
0072	6.79
0073	6.79
0074	6.79
0075	6.79
0076	6.79
0077	6.79
0078	6.79
0079	6.79
0080	6.79
0081	6.79
0082	6.79
0083	6.79
0084	6.79
0085	6.79
0086	6.79
0087	6.79
0088	6.79
0089	6.79
0090	6.79
0091	6.79
0092	6.79
0093	6.79
0094	6.79
0095	6.79
0096	6.79
0097	6.79
0098	6.79
0099	6.79
0100	6.79

680 1559

Analyst: P. Johnson
Date: 3-22-01
Start Time: 1430

Reading	Buffer	Manf. Lot No.	Rec'd	Expire
4.00	4.0	LCSHAPP 0271-08	12-19-06	12-19-07
7.00	7.0	605254	5-19-06	5-1-07
16.00	10.0	↓ 614604	12-26-06	5-25-07

$$\frac{|X_1 - X_2|}{\left(\frac{X_1 + X_2}{2}\right)} \times 100$$

X_1 = Original Result
 X_2 = Duplicate

[illegible]

COC/Sample Request

STL Pittsburgh
450 William Pitt Way
Pittsburgh, Pennsylvania 15238
412/820/8380 FAX.412/820-2080

Site

Lot Number/Sample Number	Analysis	Matrix
CIC220157-001 UXB DE / 24-D / 1250 / SDW / 004 <div style="text-align: center;">↓ ↓ 005</div>	pH ↓	Water ↓
<div style="text-align: center;">PV 3-22-21</div>		

Raw Sample	Raw Relinquished by				Raw Received by			
	Date	Time	Analyst	Location	Date	Time	Analyst	Location
AN MOUN 6	3-22-01	12:45	[Signature]	SIR.	3-22-01	12:45	[Signature]	SIR.
	3-22-01	14:00	[Signature]	WTC	3-22-01	14:00	[Signature]	SIR
STL Pittsburgh								

REQUESTED BY JOHNSONP

OD OZ pH (9045C) - Non-Aqueous

STORAGE LOCATION	WORK ORDER #	PICKED	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX	QTY	QTY
		CNTR#							DESCRIPTION		
14C	DXRRL-1-AD	___	322346	416743	A-88-OZ	C1C220197	001		SOLID	1	1
14C	DXRT6-1-AD	___	322347	416743	A-88-OZ	C1C220197	002		SOLID	1	1
14C	DXRT9-1-AD	___	322348	416743	A-88-OZ	C1C220197	003		SOLID	1	1
14C	DXRVA-1-AD	___	322349	416743	A-88-OZ	C1C220197	004		SOLID	1	1
14C	DXRVH-1-AD	___	322350	416743	A-88-OZ	C1C220197	005		SOLID	2	1
14C	DXRVL-1-AD	___	322351	416743	A-88-OZ	C1C220197	006		SOLID	1	1
14C	DXRVV-1-AD	___	322352	416743	A-88-OZ	C1C220197	007		SOLID	1	1
14C	DXRV4-1-AD	___	322353	416743	A-88-OZ	C1C220197	008		SOLID	1	1
14C	DXRV9-1-AD	___	322354	416743	A-88-OZ	C1C220197	009		SOLID	1	1
14C	DXRWG-1-AD	___	322355	416743	A-88-OZ	C1C220197	010		SOLID	1	1
14C	DXRWK-1-AD	___	322356	416743	A-88-OZ	C1C220197	011		SOLID	1	1
14C	DXRWX-1-AD	___	322357	416743	A-88-OZ	C1C220197	012		SOLID	1	1
14C	DXRW2-1-AD	___	322358	416743	A-88-OZ	C1C220197	013		SOLID	1	1
14C	DXRXK-1-AD	___	322359	416743	A-88-OZ	C1C220197	014		SOLID	1	1
14C	DXRXQ-1-AD	___	322360	416743	A-88-OZ	C1C220197	015		SOLID	1	1
14C	DXRXV-1-AD	___	322361	416743	A-88-OZ	C1C220197	016		SOLID	1	1
14C	DXRX1-1-AD	___	322362	416743	A-88-OZ	C1C220197	017		SOLID	1	1
14C	DXRX8-1-AD	___	322363	416743	A-88-OZ	C1C220197	018		SOLID	1	1
14C	DXR0C-1-AF	___	322364	416743	A-88-OZ	C1C220197	019		SOLID	2	1
14C	DXR0J-1-AD	___	322365	416743	A-88-OZ	C1C220197	020		SOLID	1	1
14C	DXR0L-1-AD	___	322366	416743	A-88-OZ	C1C220197	021		SOLID	1	1
14C	DXR0N-1-AD	___	322367	416743	A-88-OZ	C1C220197	022		SOLID	1	1
14C	DXR0R-1-AD	___	322368	416743	A-88-OZ	C1C220197	023		SOLID	1	1
	DXR0W-1-AD	___	322369	416743	A-88-OZ	C1C220197	024		SOLID	1	1
14C	DXR02-1-AD	___	322370	416743	A-88-OZ	C1C220197	025		SOLID	1	1
14C	DXR08-1-AD	___	322371	416743	A-88-OZ	C1C220197	026		SOLID	1	1

REQUESTED BY. JOHNSONP

680 1562

OD: OZ pH (9045C) - Non-Aqueous

<u>STORAGE LOCATION</u>	<u>WORK ORDER #</u>	<u>PICKED</u> <u>CNTR#</u>	<u>CONTROL #</u>	<u>CLIENT #</u>	<u>ANALYSIS</u>	<u>LOTID</u>	<u>SMP#</u>	<u>SFX</u>	<u>MATRIX</u> <u>DESCRIPTION</u>	<u>QTY</u>	
										<u>RCVD</u>	<u>REQD</u>
14C	DXR1C-1-AD	___	322372	416743	A-88-OZ	C1C220197	027		SOLID	1	1
14C	DXR1P-1-AD	___	322373	416743	A-88-OZ	C1C220197	028		SOLID	1	1

RELINQUISHED BYRECEIVED BYDATE/TIME

P. Johnson
P. Johnson

P. Johnson
P. Johnson

3-22-01/1450
3-22-01/1600

***** END OF REPORT *****

STL Pittsburgh-Cyanide Analysis

680 1563

Analyst P. Johnson Date 03-26-01
 Data File 032601A

Lot Number(s) Batch Number(s) Method

010210184 1085156 Total Water
010220173 ↓ ↓

010230227 1085157 Total Solid

Run Results Report

Results: C:\FLOW_4\032601A.RST

Results completed: 12:10 March 26, 2001.

Operator: P. JOHNSON

680 1564

P. Johnson 3-26-01

CYANIDE

Time	Cup	Name	Height	Calc.	Flags
----- User request: Start Data Collect -----					
10:58	0	CARRYOVER	855	0.002125	
10:59	0	CARRYOVER	202	0.000615	
		Mean & RSD:	528	0.001370	NoRSD
11:01	0	READ BASELIN	0	0.000148	BL
11:02	301	0.500 PPM ST	219679	0.508011	HI
11:03	301	0.500 PPM ST	216550	0.500777	HI
11:04	301	0.500 PPM ST	215435	0.498200	
		Mean & RSD:	217221	0.502329	1.01%
11:05	302	0.400 PPM ST	171480	0.396583	
11:06	302	0.400 PPM ST	172088	0.397989	
11:08	302	0.400 PPM ST	172084	0.397980	
		Mean & RSD:	171884	0.397517	.204%
11:09	303	0.300 ppm ST	129322	0.299120	
11:10	303	0.300 ppm ST	130191	0.301129	
11:11	303	0.300 ppm ST	130076	0.300863	
		Mean & RSD:	129863	0.300371	.364%
11:12	304	0.200 PPM ST	86493	0.200106	
11:13	304	0.200 PPM ST	86675	0.200527	
11:15	304	0.200 PPM ST	86303	0.199667	
		Mean & RSD:	86490	0.200100	.215%
11:16	305	0.100 PPM ST	43763	0.101320	
11:17	305	0.100 PPM ST	43764	0.101323	
11:18	305	0.100 PPM ST	43402	0.100488	
		Mean & RSD:	43643	0.101044	.477%
11:19	306	0.050 PPM ST	21906	0.050791	
11:20	306	0.050 PPM ST	21928	0.050843	
11:22	306	0.050 PPM ST	22139	0.051330	
		Mean & RSD:	21991	0.050988	.585%
11:23	307	0.010 PPM ST	4707	0.011031	
11:24	307	0.010 PPM ST	4662	0.010927	
11:25	307	0.010 PPM ST	4553	0.010674	OL
		Mean & RSD:	4685	0.010979	1.69%
11:26	0	0.000 PPM ST	-75	-0.000024	LO
11:27	0	0.000 PPM ST	-71	-0.000016	LO
11:29	0	0.000 PPM ST	-61	0.000008	OL
		Mean & RSD:	-73	-0.000020	9.91%
11:30	0	BLANK	-34	0.000070	
11:31	2	CCV 7216208	45893	0.106245	106.2%
11:32	0	CCB	-30	0.000079	
11:33	0	BASELINE	0	0.000148	BL
11:34	101	.05 7216205	23278	0.053963	108.0%
11:36	102	.40 7216206	184709	0.427166	106.8%
11:37	0	BLANK	-34	0.000070	

Page #1

Run Results Report

Run Results Report

Results: C:\FLOW_4\032601A.RST

Results completed: 12:10 March 26, 2001.

Operator: P.JOHNSON

680 1565

P. Johnson 32601

CYANIDE

Time	Cup	Name	Height	Calc.	Flags
11:38	2	CCV 7216208	46245	0.107060	102.17.
11:39	0	CCB	-16	0.000113	
11:40	0	BASELINE	0	0.000148	BL
11:41	103	DXVE91AAB	858	0.002133	
11:43	104	DXVE91ACC	69562	0.160964	100.67.
11:44	105	DXPK31A7	1877	0.004488	
11:45	106	DXRH21A7	1503	0.003624	
11:46	107	DXRKF1AJ	1366	0.003307	
11:47	108	DXRKF1CDS	1515	0.003652	0.07: 0.07-APJ
11:48	109	DXRKF1CED	1509	0.003637	
11:50	0	BLANK	-10	0.000124	
11:51	2	CCV 7216208	44324	0.102619	102.67.
11:52	0	CCB	-15	0.000113	
11:53	0	BASELINE	0	0.000148	BL
11:54	110	DXX6R1AAB	1467	0.176970	mg/kg 114.37.
11:55	111	DXX6R1ACC	101814	117.763161	
11:57	112	DXV8N1AR	33514	3.881356	
11:58	113	DXV8N1ARS	58539	6.774081	52.97.
11:59	114	DXV8N1ARD	57480	6.651613	mg/kg 55.47. 1.87-APJ
12:00	0	BLANK	50	0.000264	
12:01	2	CCV 7216208	45742	0.105898	105.97.
12:02	0	CCB	41	0.000244	
12:04	0	BASELINE	0	0.000148	BL

680 1566

File name: C:\FLOW_4\032601A.RST

Date: March 26, 2001

Operator: P.JOHNSON

P. Johnson 3.26.01

* Name	Conc	Height
* 0.500 PPM STD	0.500000	219678.875000
* 0.500 PPM STD	0.500000	216549.750000
* 0.500 PPM STD	0.500000	215435.375000
* 0.400 PPM STD	0.400000	171480.062500
* 0.400 PPM STD	0.400000	172088.203125
* 0.400 PPM STD	0.400000	172084.359375
* 0.300 ppm STD	0.300000	129321.875000
* 0.300 ppm STD	0.300000	130191.093750
* 0.300 ppm STD	0.300000	130076.062500
* 0.200 PPM STD	0.200000	86492.921875
* 0.200 PPM STD	0.200000	86674.867188
* 0.200 PPM STD	0.200000	86302.734375
* 0.100 PPM STD	0.100000	43762.562500
* 0.100 PPM STD	0.100000	43763.542969
* 0.100 PPM STD	0.100000	43402.375000
* 0.050 PPM STD	0.050000	21905.890625
* 0.050 PPM STD	0.050000	21928.390625
* 0.050 PPM STD	0.050000	22138.982422
* 0.010 PPM STD	0.010000	4707.087891
* 0.010 PPM STD	0.010000	4662.359863
* 0.010 PPM STD	0.010000	4552.918457
* 0.000 PPM STD	0.000000	-74.673691
* 0.000 PPM STD	0.000000	-71.334450
* 0.000 PPM STD	0.000000	-60.806103

Calib Coef:

y=bx+a

a: (intercept) -6.4224e+01

b: 4.3256e+05

Corr Coef: 0.999935

Carryover: 0.189%

No Drift Peaks

CYANIDE Calibration, Peak 5-58

STL Pittsburgh

Height (E+05)

7018

2 600
2 400
2 200
2 000
1 800
1 600
1 400
1 200
1 000
0 800
0 600
0 400
0 200
0 000
-0 200
-0 400

-0.1

0.0

0.1

0.2

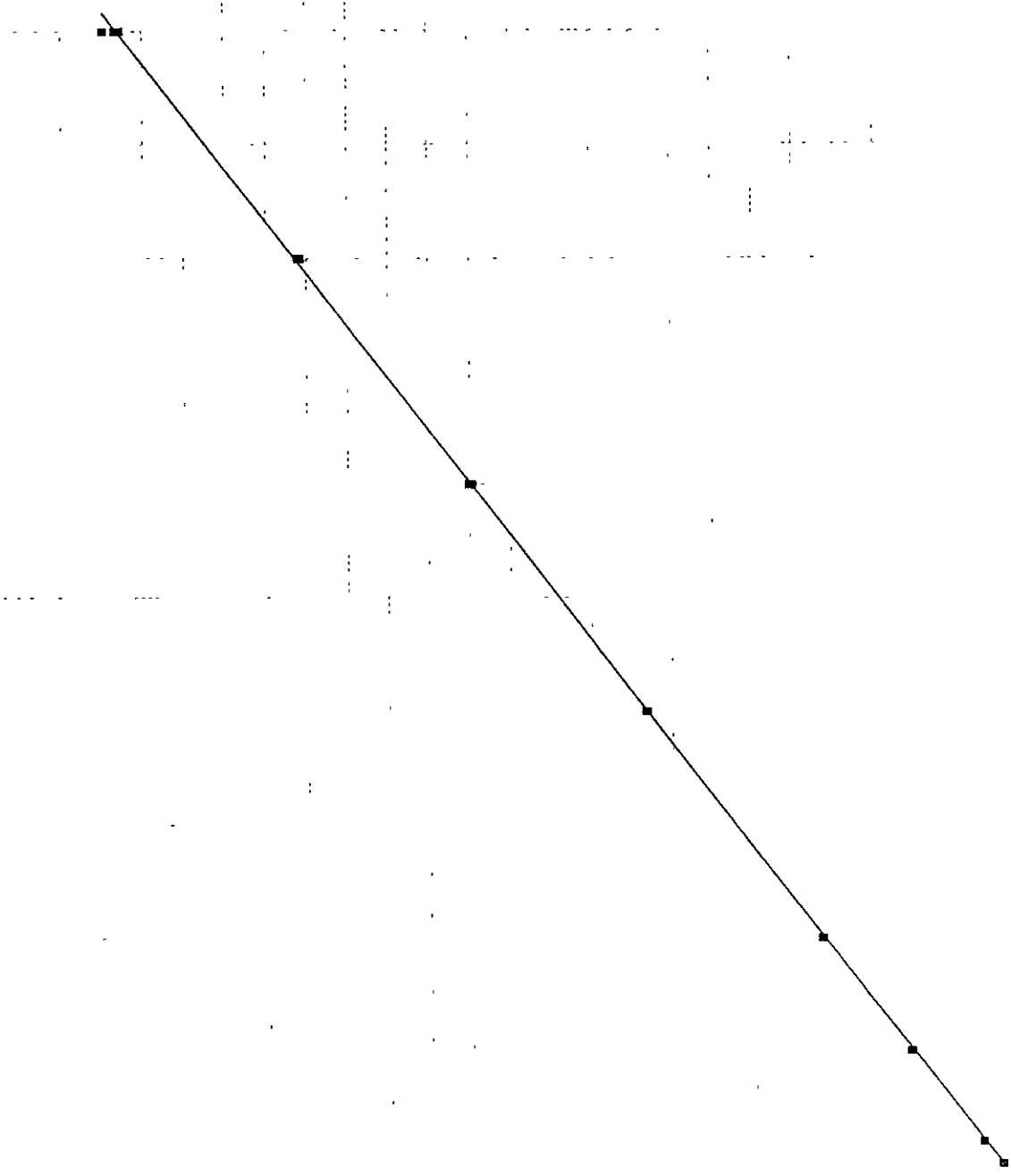
0.3

0.4

0.5

0.6

680 1567



— 6 —

STL - Pittsburgh

CYANIDE DISTILLATION WORKSHEET

Logbook ID: WC37

Distilled by		Date		Reagent/Std Book ID		Sample Description (CLP Samples Only)		Color	
Sample ID		Distillation		Before Distillation		After Distillation		Expiration Date	
Initial		Final		Before Distillation		After Distillation		Expiration Date	
1	JEQUAR	Same	Same						
2	JEQUAR								
3	JEQUAR								
4	JEQUAR								
5	JEQUAR								
6	JEQUAR								
7	JEQUAR								
8	JEQUAR								
9	JEQUAR								
10	JEQUAR								
11	JEQUAR								
12	JEQUAR								
13	JEQUAR								
14	JEQUAR								
15	JEQUAR								
16	JEQUAR								
17	JEQUAR								
18	JEQUAR								
19	JEQUAR								
20	JEQUAR								
21	JEQUAR								
22	JEQUAR								
23	JEQUAR								
24	JEQUAR								
25	JEQUAR								
26	JEQUAR								

Distillate(s) Received		Distillate(s) Relinquished	
Date	Analyst	Date	Analyst
3/26/01	1025 Johnson WC	3/26/01	1300 Johnson Jposed

[illegible]

STL - Pittsburgh

CYANIDE DISTILLATION WORKSHEET

Logbook ID: WC37

Total 1035157

210230227

Distilled by		Reagent/Std Book ID		Date		Sample Description (CTP Samples Only)		Expiration Date		Color	
Sample ID	Initial	Distillation	Final	Before Distillation	After Distillation	Sample Description	Expiration Date	Color	Texture	Clarity	Location
1. X1AAR	6.00g		3.2601					R=Red			
2. X1AAR	6.10g		3.2601					BL=Blue			
3. X1AAR	1.00g		3.2601					BR=Brown			
4. X1AAR	1.00g		3.2601					BLK=Black			
5. X1AAR	1.00g		3.2601					Y=Yellow			
6. X1AAR	1.00g		3.2601					O=Orange			
7.								V=Violet			
8.								P=Pink			
9.								W=White			
10.								GY=Gray			
11.								GN=Green			
12.								C=Colorless			
13.											
14.											
15.											
16.											
17.											
18.											
19.											
20.											
21.											
22.											
23.											
24.											
25.											
26.											

Johnson 3.2601

Distillate(s) Received		Distillate(s) Relinquished	
Date	Analyst	Date	Analyst
3.2601 1023	Johnson WC	3.2601 1300	Johnson J. P. S. S. S.

Comments

1030g 721620/na sm) Sample a sm of 7216116 To 1.00g of sample
 Reviewed by: [Signature] Date 3.26.01

REQUESTED BY JOHNSONP

METHOD QP Cyanide, Total

<u>STORAGE LOCATION</u>	<u>WORK ORDER #</u>	<u>PICKED</u> <u>CNTR#</u>	<u>CONTROL #</u>	<u>CLIENT #</u>	<u>ANALYSIS</u>	<u>LOTID</u>	<u>SMP#</u>	<u>SPX</u>	<u>MATRIX</u> <u>DESCRIPTION</u>	<u>QTY</u> <u>RCVD</u>	<u>QTY</u> <u>REQD</u>
14A, CLP1	DXPK3-1-A7	___	323099	399411	I-06-QP	C1C210184	001		WATER	13	1.
14C, CLP1	DXRH2-1-A7	___	323100	399411	I-06-QP	C1C220173	001		WATER	13	1
14C, CLP1	DXRKF-1-AJ	___	323101	399411	I-06-QP	C1C220173	002		WATER	13	1
15A	DXV8N-1-AR	___	323102	061313	A-06-QP	C1C230227	001		SOLID	7	1

RELINQUISHED BYRECEIVED BYDATE/TIME

P. Johnson
P. Johnson

P. Johnson
P. Johnson

3-26-01/0810
3-26-01/1010

***** END OF REPORT *****

680 1571

B.P. 746-2

Ignitability

Method: Flashpoint (1410 Closed Cup)STL Pittsburgh
450 William Pitt Way
Pittsburgh, PA 15238

ANALYST: <u>AK</u>	DATE: <u>3-26-01</u>
BATCH: <u>1085437</u>	TIME: <u>15:20</u>

SAMPLE ID	RESULT	Correction Results
<u>P-xylol</u>	<u>81°F</u>	<u>81.8</u>
<u>C1C220173-001</u>	<u>> 200°F</u>	<u>> 200.8°F</u>
<u>-001 DJP</u>	<u>> 200°F</u>	<u>> 200.8°F</u>
<u>-002</u>	<u>> 200°F</u>	<u>> 200.8°F</u>
<u>P-xylol</u>	<u>80°F</u>	<u>80.8°F</u>

Reviewed by AK Date 03/26/01

WC-00-0060

Page 50 of 100

680 1572

PSR024 3/26/01 9 51:45 MT

SAMPLE CUSTODIAN REMOVAL REQUEST

PAGE 001

REQUESTED BY GROVEP

METHOD AE Flash Point (1010, Closed Cup)

STORAGE LOCATION	WORK ORDER #	PICKED	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX	QTY	QTY
		CNTR#							DESCRIPTION	RCVD	REQD
14C, CLP1	DXRH2-1-A8	___	323169	399411	I-88-AE	C1C220173	001		WATER	13	1
14C, CLP1	DXRKF-1-AK	___	323170	399411	I-88-AE	C1C220173	002		WATER	13	1

RELINQUISHED BY

RECEIVED BY

DATE/TIME

3-26-01

12:00

3-26-01

4:30 PM

STL Pittsburgh
SULFIDE LOG SHEET

680 1573

Seil C10230227 1086347

Page ____ of ____

Lot No Batch No SDG No

C10210184
C10220157
C10220173
C10230216
C10220157
C10230216

1086345 → Totals

1086346 → Dissolved

Analyst. Eric L. Wesoloski

Date: 3-27-01

Start Time: 10:45

Stock Std. ID No: 647 - 026 - 09 True Value ~1000 ppm Days Actual Value 927.36 ppm
Prep 3-27-01 Exp 4-3-01

ICV/LCS 2.5 mL of 927.36 ppm (ID No.: 647 - 026 - 09) = 4637 ppm Range 7-15%
CCV 2.5 mL of 927.36 ppm Range 7-10%

Calculations:

$$\text{Sulfide mg/L} = \frac{[(20 \text{ mL of Iodine} \times N \text{ Iodine}) - (X \text{ mL Na}_2\text{S}_2\text{O}_3 \times N \text{ Na}_2\text{S}_2\text{O}_3)]}{\text{mL Sample}} \times 16,000$$

Iodine Standardization ID No: 647 - 026 - 11

Relative Percent Difference =

$$.0234 \text{ N Iodine} = \frac{(19.0 \text{ mL Na}_2\text{S}_2\text{O}_3)(.0246 \text{ N of Na}_2\text{S}_2\text{O}_3)}{20.0 \text{ mL of Iodine Solution}}$$

$$\frac{|X_1 - X_2|}{\left(\frac{X_1 + X_2}{2}\right)} \times 100$$

X₁ = Original Result
X₂ = Duplicate

Sodium Thiosulfate Standardization = ID No. 647 - 026 - 10

Titration mLs Normality
1 10.1 .0248
2 10.2 .0245 Avg. = .0246 N

$$\frac{(10 \text{ mL of KH(IO}_3)_2)(0.025 \text{ N KH(IO}_3)_2)}{\text{mL of Na}_2\text{S}_2\text{O}_3}$$

Concentration of Sample in Spike:

$$\text{Sample ID: } \frac{\text{Orig. Smp. Conc.}}{\left(\frac{\text{Vol of Smp. in Spike}}{\text{Orig. Smp. Vol.}}\right)} =$$

MS Percent Recovery:

$$100 \times \left(\frac{\text{Observed Conc. of MS} - \text{Conc. of Smp. in Spike}}{\text{True Spike Conc.}} \right) =$$

MSD Percent Recovery:

$$100 \times \left(\frac{\text{Observed Conc. of MS} - \text{Conc. of Smp. in Spike}}{\text{True Spike Conc.}} \right) =$$

Sample ID

Sample ID

3-27-01
E. L. Wesoloski 3/27/01

680 1574

STL Pittsburgh
SULFIDE LOG SHEET

Page ____ of ____

True Value LCS/ICV = $\frac{46.37}{231.85}$ ppmTrue Value MS/MSD = $\frac{18.55}{92.75}$ ppm

Sample ID	Sample mL	N = .0234 mL of Iodine	mL of N = .0246 Na ₂ S ₂ O ₃	Conc.	LDL
ICV	50ml	20 ml	12.6	50.57	109%
ICB			19.0	ND	1.0
PB-1			13.4	44.28	95.5%
CIC210184-001			22.1	ND	1.0
CIC230157-001			20.2	ND	1.0
↓ -001 S			16.6	17.51	94.4%
↓ -001 D			16.8	17.51	94.4%
CIC230173-001			22.5	ND	1.0
↓ -002			21.9	ND	↓
CIC230216-001			20.0	ND	↓
↓ -002			20.2	ND	↓
CCV			13.6	42.70	92%
CCB			19.1	ND	1.0
CIC230216-003			20.0	ND	↓
↓ -004			20.0	ND	↓
PB-2			19.1	ND	1.0
LCS-2			13.5	43.49	93.8%
CIC220157-001			19.9	ND	1.0
↓ -001 S			16.2	22.23	120%
↓ -001 D			16.3	21.45	116%
CIC230216-001			19.4	ND	1.0
↓ -002			19.3	ND	↓
↓ -003			20.0	ND	↓
CCV			13.6	42.70	92%
CCB			19.2	ND	1.0
CIC230216-CCB-004			19.8	ND	1.0
CCV			13.6	42.70	92%
CCB			19.1	ND	1.0
ICV			12.8	49.00	106%
ICB			19.2	ND	1.0
PB-3			19.2	ND	5.0
LCS-3			13.4	221.38	955%
CIC230227-001			22.5	ND	5.0
↓ -001 S			18.1	36.38	39.2%
↓ -001 D			18.1	36.38	39.2%
CCV			13.6	42.70	92%
CCB			19.2	ND	1.0

Soils

} RPD
0%} RPD
3.6%} RPD
0%

SULFIDE DISTILLATION WORKSHEET

Logbook ID: WC1

STL - Pittsburgh

START 08:00

Distilled by

ERIC L. WESOLOSKI

Date _____

3-27-01

Reagent/Std Book ID

342-173-6 / 342-170-0 / 647-016-4

Actual Stock Value (ppm)

927.36

True Value

1000 ppm

Sample ID	Distillation		Expiration Date
	Initial	Final	
1. ICB	50ml	50ml	
2. ICB			
3. PB-1			
4. LCS-1			
5. C1C210184-001			3-27-01
6. C1C220157-001			3-28-01
7. -001 MS			
8. -001 MSD			
9. C1C220173-001			3-28-01
10. -002			
11. C1C230216-001			3-29-01
12. -002			
13. -003			
14. -004			
15. PB-2			
16. LCS-2			
17. C1C220157-001			3-28-01
18. -001 MS			
19. -001 MSD			
20. C1C230216-001			3-29-01
21. -002			
22. -003			
23. -004			
24. GM			
25. 3-27-01			
26.			

Distillate(s) (record line # from above)	Distillate(s) Received			Distillate(s) Relinquished		
	Date	Time	Analyst Location	Date	Time	Analyst Location
1-73	3-27-01	08:00	E. Z. Nishitani WET CEM	3-27-01	13:30	C. J. Nishitani Disposal

Comments

Specimen ID	Comments
647-026-09	ICU/LCSG 2.5ml of 647-026-09 to 50ml of H ₂ O. ms/msp = 1.0ml of 647-026-09 to 50ml sample

Reviewed by

Date 3-27-21

SULFIDE DISTILLATION WORKSHEET

Logbook ID: WC1

Actual Stock Value (ppm)	True Value
927.36	1000 ppm

Date	3-27-01
Reagent/Std Book ID	342-173-6/342-170-0/647-016-4

Distilled by
Epic L. Nesoloka

Sample ID	Distillation		Expiration Date
	Initial	Final	
1	ICV	50ml	
2	ICB		
3	PB-3		
4	LC5-3		
5	01C230227-001		3-30-01
6	-001 ms		
7	-001 ms D		
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			

Date	Time	Analyst	Location	Distillate(s) Relinquished
3-27-01	18:30	P. T. Munk	DISPOSAL	

Date	Time	Analyst	Location
3-27-01	06:00	W. F. Munnich	West Canyon

Distillate(s)
(record line # from above)

1-7

Comments	stock: 647-026-09 TEV/KCS 2.5 ml of 647-026-09 to DI H ₂ O. ms/ms = 1.0 ml of 647-026-09 to 10.00g SAMPLE	Date: 3-27-01
Reviewed by		

REQUESTED BY WBSOLOSR

METHOD CT Sulfide (376 1)

<u>STORAGE LOCATION</u>	<u>WORK ORDER #</u>	<u>PICKED</u> <u>CNTR#</u>	<u>CONTROL #</u>	<u>CLIENT #</u>	<u>ANALYSIS</u>	<u>LOTID</u>	<u>SMP#</u>	<u>SFX</u>	<u>MATRIX</u> <u>DESCRIPTION</u>	<u>QTY</u> <u>RCVD</u>	<u>QTY</u> <u>REQD</u>
14A, CLP1	DXPK3-1-A9	___	323275	399411	I-88-CT	C1C210184	001		WATER	13	1
14B	DXRAF-1-AK	___	323276	059184	I-88-CT	C1C220157	001		WATER	12	1
14C, CLP1	DXRH2-1-A9	___	323278	399411	I-88-CT	C1C220173	001		WATER	13	1
14C, CLP1	DXRKF-1-AL	___	323279	399411	I-88-CT	C1C220173	002		WATER	13	1
15A	DXV6D-1-AB	___	323280	059184	I-88-CT	C1C230216	001		WATER	2	1
15A	DXV6L-1-AB	___	323282	059184	I-88-CT	C1C230216	002		WATER	2	1
15A	DXV6Q-1-AB	___	323284	059184	I-88-CT	C1C230216	003		WATER	2	1
15A	DXV6O-1-AB	___	323286	059184	I-88-CT	C1C230216	004		WATER	2	1

RELINQUISHED BY

RECEIVED BY

DATE/TIME

C. T. Wenzel
C. T. Wenzel

C. T. Wenzel
C. T. Wenzel

3/27/01 (07:30)
3/27/01 (10:00)

***** END OF REPORT *****

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PSR024 3/27/01 9 26' 09 MT

SAMPLE CUSTODIAN REMOVAL REQUEST

PAGE 001

REQUESTED BY WESOLOSKE

METHOD: TV Sulfides, Total (9030B-dist/9034-titrat)

<u>STORAGE LOCATION</u>	<u>WORK ORDER #</u>	<u>PICKED</u> <u>CNTR#</u>	<u>CONTROL #</u>	<u>CLIENT #</u>	<u>ANALYSIS</u>	<u>LOTID</u>	<u>SMP#</u>	<u>SFX</u>	<u>MATRIX</u> <u>DESCRIPTION</u>	<u>QTY</u>	
										<u>RCVD</u>	<u>REQD</u>
15A	DXVAN-1-AT	_____	323269	061313	A-06-TV	C1C230227	001		SOLID	7	1

RELINQUISHED BYRECEIVED BYDATE/TIME

E. L. Munch
E. L. Munch

E. L. Munch
E. L. Munch

3/27/01 (07:30)
3/27/01 (10:00)

***** END OF REPORT *****

REQUESTED BY **WESOLOSE**

METHOD CT Dissolved Sulfide

<u>STORAGE LOCATION</u>	<u>WORK ORDER #</u>	<u>PICKED</u> <u>CNTR#</u>	<u>CONTROL #</u>	<u>CLIENT #</u>	<u>ANALYSIS</u>	<u>LOTID</u>	<u>SMP#</u>	<u>SFX</u>	<u>MATRIX</u> <u>DESCRIPTION</u>	<u>QTY</u> <u>RCVD</u>	<u>QTY</u> <u>REQD</u>
14B	DXRAF-1-AL	___	323277	059184	I-87-CT	C1C220157	001		WATER	12	1
15A	DXV6D-1-AF	___	323281	059184	I-87-CT	C1C230216	001		WATER	2	1
15A	DXV6L-1-AF	___	323283	059184	I-87-CT	C1C230216	002		WATER	2	1
15A	DXV6Q-1-AF	___	323285	059184	I-87-CT	C1C230216	003		WATER	2	1
15A	DXV60-1-AF	___	323287	059184	I-87-CT	C1C230216	004		WATER	2	1

RELINQUISHED BY

RECEIVED BY

DATE/TIME

<i>E. L. Whittle</i>	<i>E. L. Whittle</i>	3/27/01 (07:30)
<i>E. L. Whittle</i>	<i>E. L. Whittle</i>	3/27/01 (10:00)

FINAL PAGE

ADMINISTRATIVE RECORD

FINAL PAGE