FULLERTON LABORATORY
1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92831
PHONE (714) 447-6868

SPL, INC.

REPORT APPROVAL SHEET

WORK ORDER NUMBER: *97 - 02 - 060*

Approved for release by:

Joel Grice, Laboratory Manager — *Date:* 2/13/97

Michael J. Crisostomo, Project Manager — *Date:* 2-13-97

Certificate of Analysis No. 9702060

FULLERTON LABORATORY
1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92831
PHONE (714) 447-6868

Client: Montgomery Watson
Client Address: 250 N. Madison Avenue
Pasadena, CA 91101
Attention: Nancy Matsumoto
Project Name: MDRC C-6 Facility
Site: Bldg. 37 Area, Torrance, CA

Report Date: 2/13/97
Date(s) Received: 2/7/97
Date(s) Sampled: 2/7/97
Date(s) Analyzed: 2/11/97,2/10/97
Project Number: 120603501090010
Matrix: SOIL

Analyte	Units	EPA Method	B37-GS-19	B37-GS-20	B37-GS-21	B37-GS-22
Antimony, Total	mg/K	6010A***	ND<0.500	ND<0.500	ND<0.500	ND<0.500
Arsenic, Total	mg/K	6010A***	ND<0.11	ND<0.11	ND<0.11	ND<0.11
Barium, Total	mg/K	6010A***	114	164	48.9	129
Beryllium, Total	mg/K	6010A***	ND<0.06	ND<0.06	ND<0.06	ND<0.06
Cadmium, Total	mg/K	6010A***	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Chromium, Total	mg/K	6010A***	14.7	18.8	6.96	20.0
Cobalt, Total	mg/K	6010A***	7.87	10.2	ND<2.50	10.9
Copper, Total	mg/K	6010A***	16.8	17.7	4.34	24.2
Digestion-Solids 3050A	N/A	3050A***	02/10/97	02/10/97	02/10/97	02/10/97
Lead, Total	mg/K	6010A***	4.79	4.31	ND<0.500	3.84
Mercury Digestion in Soil	N/A	7471A***	02/11/97	02/11/97	02/11/97	02/11/97
Mercury, Total	mg/K	7471A***	ND<0.200	ND<0.200	ND<0.200	ND<0.200
Molybdenum,Total	mg/K	6010A***	ND<2.50	ND<2.50	ND<2.50	ND<2.50
Nickel, Total	mg/K	6010A ***	11.7	12.8	5.17	16.5
Petroleum Extractables	mg/K	418.1*	280	ND<10	ND<10	ND<10
Selenium, Total	mg/K	6010A***	ND<5.00	ND<5.00	ND<5.00	ND<5.00
Silver, Total	mg/K	6010A***	ND<5.00	ND<5.00	ND<5.00	ND<5.00
Thallium, Total	mg/K	6010A***	ND<0.500	ND<0.500	ND<0.500	ND<0.500
Vanadium, Total	mg/K	6010A***	33.5	42.8	13.4	42.0
Zinc, Total	mg/K	6010A***	42.4	52.9	13.8	56.6

Results reported at PQL unless otherwise specified.

* Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
** Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

Results for Arsenic, Beryllium, Cadmium, and total Chromium are presented using the MDL as a reference.

FULLERTON LABORATORY
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FULLERTON CA 92831
PHONE (714) 447-6868

Certificate of Analysis No. 9702060

Client: Montgomery Watson
Client Address: 250 N. Madison Avenue
Pasadena, CA 91101
Attention: Nancy Matsumoto
Project Name: MDRC C-6 Facility
Site: Bldg. 37 Area, Torrance, CA

Report Date: 2/13/97
Date(s) Received: 2/7/97
Date(s) Sampled: 2/7/97
Date(s) Analyzed: 2/11/97,2/10/97
Project Number: 120603501090010
Matrix: SOIL

Analyte	Units	EPA Method	B37-GS-23	B37-GS-24	B37-GS-25	B37-GS-26
Antimony, Total	mg/K	6010A***	ND<0.500	ND<0.500	ND<0.500	ND<0.500
Arsenic, Total	mg/K	6010A***	ND<0.11	ND<0.11	ND<0.11	ND<0.11
Barium, Total	mg/K	6010A***	146	116	198	123
Beryllium, Total	mg/K	6010A***	ND<0.06	ND<0.06	ND<0.06	ND<0.06
Cadmium, Total	mg/K	6010A***	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Chromium, Total	mg/K	6010A***	20.0	17.2	15.0	16.2
Cobalt, Total	mg/K	6010A***	11.2	9.05	8.90	9.89
Copper, Total	mg/K	6010A***	29.6	16.0	18.6	13.9
Digestion-Solids 3050A	N/A	3050A***	02/10/97	02/10/97	02/10/97	02/10/97
Lead, Total	mg/K	6010A***	3.34	2.39	9.87	2.80
Mercury Digestion in Soil	N/A	7471A***	02/11/97	02/11/97	02/11/97	02/11/97
Mercury, Total	mg/K	7471A***	ND<0.200	ND<0.200	ND<0.200	ND<0.200
Molybdenum,Total	mg/K	6010A***	ND<2.50	ND<2.50	ND<2.50	ND<2.50
Nickel, Total	mg/K	6010A ***	18.7	13.9	10.8	13.5
Petroleum Extractables	mg/K	418.1*	ND<10	ND<10	56	ND<10
Selenium, Total	mg/K	6010A***	ND<5.00	ND<5.00	ND<5.00	ND<5.00
Silver, Total	mg/K	6010A***	ND<5.00	ND<5.00	ND<5.00	ND<5.00
Thallium, Total	mg/K	6010A***	ND<0.500	ND<0.500	ND<0.500	ND<0.500
Vanadium, Total	mg/K	6010A***	47.1	41.0	34.5	41.8
Zinc, Total	mg/K	6010A***	55.2	44.8	51.2	40.9

Results reported at PQL unless otherwise specified.

* Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
** Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

Results for Arsenic, Beryllium, Cadmium, and total Chromium are presented using the MDL as a reference.

QUALITY CONTROL

DOCUMENTATION

FULLERTON LABORATORY
1511 E. ORANGETHORPE AVE
FULLERTON, CA 92831
PHONE (714) 447-6868

** SPL QUALITY CONTROL REPORT **

Matrix: Soil

Reported on: 02/10/97
Analyzed on: 02/10/97
Analyst: SB

This sample was randomly selected for use in the SPL quality control program. Samples chosen are fortified with a known concentration in duplicate. The results are as follows:

Petroleum Extractables
Method 418.1*

SPL Sample ID Number	Method Blank mg/Kg	Sample Result mg/Kg	Spike Added mg/Kg	Matrix Spike Result mg/Kg	Matrix Spike Recovery %	Matrix Spike Duplicate Result mg/Kg	Matrix Spike Duplicate Recovery %	RPD (%)	QC LIMITS (Advisory) RPD Max	QC LIMITS (Advisory) % REC
9702060-03A	ND	ND	500	470	94.0	476	95.2	1.3	20	80 -120

PETHS021097 -9702019

Samples in batch:

9702060-01A 9702060-02A 9702060-03A 9702060-04A
9702060-05A 9702060-06A 9702060-07A 9702060-08A

COMMENTS:

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** SPL QUALITY CONTROL REPORT **

Matrix: Soil

Reported on: 02/10/97
Analyzed on: 02/10/97
Analyst: SB

This sample was randomly selected for use in the SPL quality control program. Samples chosen are fortified with a known concentration in duplicate. The results are as follows:

Petroleum Extractables
Method 418.1*

SPL Sample ID Number	Blank Value mg/Kg	LCS Concentration mg/Kg	Measured Concentration mg/Kg	% Recovery	QC Limits Recovery
LCS	ND	500	489	97.8	80 - 120

PETHS021097 -9702019

Samples in batch:

9702060-01A 9702060-02A 9702060-03A 9702060-04A
9702060-05A 9702060-06A 9702060-07A 9702060-08A

COMMENTS:

FULLERTON LABORATORY
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QUALITY CONTROL INFORMATION
METALS

MS/MSD Results

Date: 2/11/97
Sample ID: 9702060-3

Matrix: Soil
Includes: 9702060-1-8

Parameter	LMB	LCS Recovery (%)	MS Recovery (%)	MSD Recovery (%)	*Acceptability Range (%)	RPD	RPD Range (%)
Antimony, Sb	ND	99	80	80	80-120	0.0	20
Arsenic, As	ND	102	90	92	80-120	2.4	20
Barium, Ba	ND	101	98	93	80-120	4.9	20
Beryllium, Be	ND	97	91	92	80-120	1.2	20
Cadmium, Cd	ND	97	89	91	80-120	2.0	20
Chromium, Cr	ND	98	93	94	80-120	0.9	20
Cobalt, Co	ND	98	88	90	80-120	1.7	20
Copper, Cu	ND	99	96	97	80-120	1.1	20
Lead, Pb	ND	95	90	92	80-120	2.2	20
Molybdenum, Mo	ND	97	88	90	80-120	1.9	20
Nickel, Ni	ND	98	92	93	80-120	1.0	20
Selenium, Se	ND	93	86	87	80-120	1.5	20
Silver, Ag	ND	103	92	93	80-120	0.4	20
Thallium, Tl	ND	97	89	91	80-120	2.6	20
Vanadium, V	ND	98	93	94	80-120	1.1	20
Zinc, Zn	ND	98	91	93	80-120	1.7	20

* Pertains to LCS, MS, and MSD.
** Matrix Effect.

LMB = Laboratory Method Blank
LCS = Laboratory Control Sample
LCSD = Laboratory Control Sample Duplicate
ND = Not Detected

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference

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** SPL QUALITY CONTROL REPORT **

Matrix: Soil

Reported on: 02/12/97
Analyzed on: 02/11/97
Analyst: GQ

This sample was randomly selected for use in the SPL quality control program. Samples chosen are fortified with a known concentration in duplicate. The results are as follows:

Mercury, Total
METHOD 7471A***

SPL Sample ID Number	Method Blank mg/Kg	Sample Result mg/Kg	Spike Added mg/Kg	Matrix Spike Result mg/Kg	Matrix Spike Recovery %	Matrix Spike Duplicate Result mg/Kg	Matrix Spike Duplicate Recovery %	RPD (%)	QC LIMITS (Advisory) RPD Max	QC LIMITS (Advisory) % REC
9702060-03A	ND	ND	.0010	.00104	104	.00106	106	1.9	20	80 -120

HGS021197 -9702021

Samples in batch:

9702060-01A 9702060-02A 9702060-03A 9702060-04A
9702060-05A 9702060-06A 9702060-07A 9702060-08A

COMMENTS:

FULLERTON LABORATORY
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** SPL QUALITY CONTROL REPORT **

Matrix: Soil

Reported on: 02/12/97
Analyzed on: 02/11/97
Analyst: GQ

This sample was randomly selected for use in the SPL quality control program. Samples chosen are fortified with a known concentration in duplicate. The results are as follows:

Mercury, Total
METHOD 7471A***

SPL Sample ID Number	Blank Value mg/Kg	LCS Concentration mg/Kg	Measured Concentration mg/Kg	% Recovery	QC Limits Recovery
LCS	ND	.0010	.00098	98.0	80 - 120

HGS021197 -9702021

mples in batch:

9702060-01A 9702060-02A 9702060-03A 9702060-04A
9702060-05A 9702060-06A 9702060-07A 9702060-08A

COMMENTS:

CHAIN OF CUSTODY

AND

SAMPLE RECEIPT CHECKLIST

SPL, Inc.

Analysis Request & Chain of Custody Record

SPL Workorder No: 9702060

02404

page 1 of 1

Client Name: Montgomery Watson

Address/Phone: 250 N. Madison Ave., Pasadena, CA

Client Contact: Fred Strauss (818) 568-6582

Project Name: MDRC C-6 Facility, Torrance, CA

Project Number: C-6 Facility, Bldg. 37 Area

Project Location: 1206035.01090010

Invoice To: Fred Strauss

SAMPLE ID	DATE	TIME	comp	grab	matrix (W=water S=soil SL=sludge O=other:)	bottle (P=plastic A=amber glass G=glass V=vial)	size (1=1 liter 4=4oz 40=vial 8=8oz 16=16oz)	pres. (1=HCl 2=HNO3 3=H2SO4 O=other:)	Number of Containers	TRPH 418.1	CAM Metals							
B37-GS-19	2/7/97	1250		X	S	2"x6" SS Sleeve	Approx 12oz	ICE	2	X	X							
B37-GS-20		1430		X	"	"	"	"	2	X	X							
B37-GS-21		1435		X	"	"	"	"	2	X	X							
B37-GS-22		1440		X	"	"	"	"	2	X	X							
B37-GS-23		1445		X	"	"	"	"	2	X	X							
B37-GS-24		1450		X	"	"	"	"	2	X	X							
B37-GS-25		1455		X	"	"	"	"	2	X	X							
B37-GS-26		1500		X	"	"	"	"	2	X	X							

Requested Analysis

Client/Consultant Remarks: 24 hr TAT on TRPH; Standard otherwise

Laboratory remarks:

Intact? ☐ Y ☐ N

Temp:

Requested TAT

TRPH only

24hr ☒ 72hr ☐

All others

48hr ☐ Standard ☒

Other ☐ _____

Special Reporting Requirements: Fax Results ☐ Raw Data ☐ Standard QC ☐ Level 3 QC ☐ Level 4 QC ☐

Special Detection Limits (specify):

PM review (initial):

	date	time		
1. Relinquished by Sampler: Adam W. Vonia	2/7/97	1640	2. Received by: [signature]	2/7/97 16:45
3. Relinquished by:	date	time	4. Received by:	
5. Relinquished by:	date	time	6. Received by Laboratory:	

☐ 8880 Interchange Drive, Houston, TX 77054 (713) 660-0901

☐ 459 Hughes Drive, Traverse City, MI 49684 (616) 947-5777

☐ 500 Ambassador Caffery Parkway, Scott, LA 70583 (318) 237-4775

☐ 1511 E. Orangethorpe Avenue, Fullerton, CA 92631 (714) 447-6868

BOE-C6-0107888

SPL Fullerton Environmental Laboratory
Sample Receiving Checklist

9702060

SPL Workorder Number: _____

Date: 2-9-97 Time: 17:35

	Yes	No	N/A
1. Chain of Custody Record Present?	✓	*	
2. Chain of Custody Record Properly Completed?	✓	*	
3. Custody Seals on Shipping Container?			✓
4. Custody Seals on Sample Container?		✓	
5. All Custody Seals Intact?		*	✓
6. All Samples Received Intact?	✓	*	
7. All Samples Labeled Correctly?	✓	*	
8. Samples are Chilled at 2°C - 6°C	✓	*	

* See Non-Conformance / Sample Condition Notification Form only if box with "*" is checked.

Internal Temperature of Shipping Container 3.8 °C

Samples Were Delivered by:

SPL Courier	G. Tolano
Client Representative	
Federal Express	
UPS	
DHL	
Other:	

All samples will be disposed 30 days from the report date for this workorder, unless otherwise specified by the client.

Samples Checked by: _____

I:\data forms\loginchk.wpd

FULLERTON LABORATORY
1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92831
PHONE (714) 447-6868

SPL, INC.

REPORT APPROVAL SHEET

WORK ORDER NUMBER: *97 - 02 - 103*

Approved for release by:

Joel Grice, Laboratory Manager — *Date:* 2/18/97

Michael J. Crisostomo, Project Manager — *Date:* 2-18-97

BOE-C6-0107891

FULLERTON LABORATORY
1511 E ORANGETHORPE AVE
FULLERTON, CA 92831
PHONE (714) 447-6868

Certificate of Analysis No. 9702103

Client: Montgomery Watson
Client Address: 250 N. Madison Avenue
Pasadena, CA 91101
Attention: Nancy Matsumoto
Project Name MDRC C-6 Facility
Site: Bldg. 37 Area, Torrance, CA

Report Date: 2/18/97
Date(s) Received: 1/30/97-2/7/97
Date(s) Sampled: 1/30/97-2/7/97
Date(s) Analyzed: 2/14/97,2/13/97
Project Number: 120603501090010
Matrix: SOIL

Method: 8260 Soil, Volatile Organics

Units: UG/KG

Analyte	B37-GS-10	B37-GS-13	B37-GS-17	B37-GS-19	B37-GS-25
Dichlorodifluoromethane	ND<5	ND<5	ND<5	ND<5	ND<5
Chloromethane	ND<5	ND<5	ND<5	ND<5	ND<5
Vinyl chloride	ND<5	ND<5	ND<5	ND<5	ND<5
Bromomethane	ND<5	ND<5	ND<5	ND<5	ND<5
Chloroethane	ND<5	ND<5	ND<5	ND<5	ND<5
Trichlorofluoromethane	ND<5	ND<5	ND<5	ND<5	ND<5
1,1-Dichloroethene	ND<5	ND<5	ND<5	ND<5	ND<5
Methylene chloride	ND<5	ND<5	ND<5	ND<5	35
trans-1,2-Dichloroethene	ND<5	ND<5	ND<5	ND<5	ND<5
1,1-Dichloroethane	ND<5	ND<5	ND<5	ND<5	ND<5
2,2-Dichloropropane	ND<5	ND<5	ND<5	ND<5	ND<5
cis-1,2-Dichloroethene	ND<5	ND<5	ND<5	ND<5	ND<5
Chloroform	ND<5	ND<5	ND<5	ND<5	ND<5
Bromochloromethane	ND<5	ND<5	ND<5	ND<5	ND<5
1,1,1-Trichloroethane	ND<5	ND<5	ND<5	ND<5	ND<5
1,1-Dichloropropene	ND<5	ND<5	ND<5	ND<5	ND<5
Carbon tetrachloride	ND<5	ND<5	ND<5	ND<5	ND<5
1,2-Dichloroethane	ND<5	ND<5	ND<5	ND<5	ND<5
Benzene	ND<5	ND<5	ND<5	ND<5	ND<5
Trichloroethene	ND<5	ND<5	ND<5	ND<5	ND<5
1,2-Dichloropropane	ND<5	ND<5	ND<5	ND<5	ND<5
Bromodichloromethane	ND<5	ND<5	ND<5	ND<5	ND<5
Dibromomethane	ND<5	ND<5	ND<5	ND<5	ND<5
cis-1,3-Dichloropropene	ND<5	ND<5	ND<5	ND<5	ND<5
Toluene	ND<5	ND<5	ND<5	ND<5	ND<5
trans-1,3-Dichloropropene	ND<5	ND<5	ND<5	ND<5	ND<5
1,1,2-Trichloroethane	ND<5	ND<5	ND<5	ND<5	ND<5
1,2-Dibromoethane	ND<5	ND<5	ND<5	ND<5	ND<5
1,3-Dichloropropane	ND<5	ND<5	ND<5	ND<5	ND<5
Tetrachloroethene	ND<5	ND<5	ND<5	ND<5	ND<5
Dibromochloromethane	ND<5	ND<5	ND<5	ND<5	ND<5
Chlorobenzene	ND<5	ND<5	ND<5	ND<5	ND<5
1,1,1,2-Tetrachloroethane	ND<5	ND<5	ND<5	ND<5	ND<5
Ethylbenzene	ND<5	ND<5	ND<5	ND<5	ND<5
m,p-Xylene	ND<5	ND<5	ND<5	ND<5	ND<5
o-Xylene	ND<5	ND<5	ND<5	ND<5	ND<5
Styrene	ND<5	ND<5	ND<5	ND<5	ND<5
Date Collected:	1/30/97	2/3/97	2/5/97	2/7/97	2/7/97

FULLERTON LABORATORY
1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92831
PHONE (714) 447-6868

Certificate of Analysis No. 9702103

Client: Montgomery Watson
Client Address: 250 N. Madison Avenue
Pasadena, CA 91101
Attention: Nancy Matsumoto
Project Name MDRC C-6 Facility
Site: Bldg. 37 Area, Torrance, CA

Report Date: 2/18/97
Date(s) Received: 1/30/97-2/7/97
Date(s) Sampled: 1/30/97-2/7/97
Date(s) Analyzed: 2/14/97,2/13/97
Project Number: 120603501090010
Matrix: SOIL

Method: 8260 Soil, Volatile Organics

Units: UG/KG

Analyte	B37-GS-10	B37-GS-13	B37-GS-17	B37-GS-19	B37-GS-25
Bromoform	ND<5	ND<5	ND<5	ND<5	ND<5
Isopropylbenzene	ND<5	ND<5	ND<5	ND<5	ND<5
1,1,2,2-Tetrachloroethane	ND<5	ND<5	ND<5	ND<5	ND<5
1,2,3-Trichloropropane	ND<5	ND<5	ND<5	ND<5	ND<5
n-Propylbenzene	ND<5	ND<5	ND<5	ND<5	ND<5
Bromobenzene	ND<5	ND<5	ND<5	ND<5	ND<5
1,3,5-Trimethylbenzene	ND<5	ND<5	ND<5	ND<5	ND<5
2-Chlorotoluene	ND<5	ND<5	ND<5	ND<5	ND<5
4-Chlorotoluene	ND<5	ND<5	ND<5	ND<5	ND<5
tert-Butylbenzene	ND<5	ND<5	ND<5	ND<5	ND<5
1,2,4-Trimethylbenzene	ND<5	ND<5	ND<5	ND<5	ND<5
sec-Butylbenzene	ND<5	ND<5	ND<5	ND<5	ND<5
p-Isopropyltoluene	ND<5	ND<5	ND<5	ND<5	ND<5
1,3-Dichlorobenzene	ND<5	ND<5	ND<5	ND<5	ND<5
1,4-Dichlorobenzene	ND<5	ND<5	ND<5	ND<5	ND<5
n-Butylbenzene	ND<5	ND<5	ND<5	ND<5	ND<5
1,2-Dichlorobenzene	ND<5	ND<5	ND<5	ND<5	ND<5
1,2-Dibromo-3-chloropropa	ND<5	ND<5	ND<5	ND<5	ND<5
1,2,4-Trichlorobenzene	ND<5	ND<5	ND<5	ND<5	ND<5
Hexachlorobutadiene	ND<5	ND<5	ND<5	ND<5	ND<5
Naphthalene	ND<5	ND<5	ND<5	ND<5	ND<5
1,2,3-Trichlorobenzene	ND<5	ND<5	ND<5	ND<5	ND<5
Date Collected:	1/30/97	2/3/97	2/5/97	2/7/97	2/7/97

Results reported at Practical Quantitation Limits unless otherwise specified.

*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.

SPL California License Number 2178

BOE-C6-0107893

QUALITY CONTROL

DOCUMENTATION

FULLERTON LABORATORY
1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92831
PHONE (714) 447-6868

QUALITY CONTROL INFORMATION

02/13/97

EPA 8240/8260 Compounds by EPA 8260 Method

9702103, 9702101, 9702057, 9702074, 9702080

Parameter	Laboratory Method Blank (ug/Kg)	Reporting Limits (ug/Kg)	LCS Rec. (%)	Acceptability Range (%)
Dichlorodifluoromethane	ND	5.0	98	70 - 130
Chloromethane	ND	5.0	94	70 - 130
Vinyl chloride	ND	5.0	84	70 - 130
Bromomethane	ND	5.0	86	70 - 130
Chloroethane	ND	5.0	86	70 - 130
Trichlorofluoromethane	ND	5.0	92	70 - 130
Acrolein	ND	50	NA	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	50	NA	70 - 130
Acetone	ND	100	92	70 - 130
1,1-Dichloroethene	ND	5.0	98	70 - 130
Acetonitrile	ND	50	NA	70 - 130
Iodomethane	ND	5.0	96	70 - 130
Allyl chloride	ND	50	NA	70 - 130
Methylene chloride	ND	5.0	86	70 - 130
Carbon disulfide	ND	5.0	84	70 - 130
Acrylonitrile	ND	50	NA	70 - 130
2-Methoxy-2-methylpropane	ND	5.0	92	70 - 130
trans-1,2-dichloroethene	ND	5.0	98	70 - 130
Vinyl acetate	ND	10	92	70 - 130
1,1-Dichloroethane	ND	5.0	88	70 - 130
2-Butanone	ND	10	92	70 - 130
Propionitrile	ND	50	NA	70 - 130
2,2-Dichloropropane	ND	5.0	92	70 - 130
cis-1,2-dichloroethene	ND	5.0	88	70 - 130
Methacrylonitrile	ND	50	NA	70 - 130
Isobutyl alcohol	ND	100	NA	70 - 130
Chloroform	ND	5.0	88	70 - 130
Bromochloromethane	ND	5.0	96	70 - 130
1,1,1-Trichloroethane	ND	5.0	90	70 - 130
1,1-Dichloropropene	ND	5.0	106	70 - 130
Carbon tetrachloride	ND	5.0	102	70 - 130
1,2-Dichloroethane	ND	5.0	94	70 - 130
Benzene	ND	5.0	102	70 - 130
Trichloroethene	ND	5.0	102	70 - 130

ND = Not Detected

BOE-C6-0107895

FULLERTON LABORATORY
1511 E ORANGETHORPE AVE.
FULLERTON, CA 92831
PHONE (714) 447-6868

QUALITY CONTROL INFORMATION

02/13/97

EPA 8240/8260 Compounds by EPA 8260 Method

9702103, 9702101, 9702057, 9702074, 9702080

Parameter	Laboratory Method Blank (ug/Kg)	Reporting Limits (ug/Kg)	LCS Rec. (%)	Acceptability Range (%)
Methyl methacrylate	ND	50	NA	70 - 130
1,2-Dichloropropane	ND	5.0	96	70 - 130
1,4-Dioxane	ND	100	NA	70 - 130
Bromodichloromethane	ND	5.0	96	70 - 130
Dibromomethane	ND	5.0	100	70 - 130
2-Chloroethyl vinyl ether	ND	10	NA	70 - 130
4-Methyl-2-pentanone	ND	10	116	70 - 130
cis-1,3-Dichloropropene	ND	5.0	104	70 - 130
Toluene	ND	5.0	110	70 - 130
Ethyl methacrylate	ND	50	NA	70 - 130
trans-1,3-Dichloropropene	ND	5.0	104	70 - 130
2-Hexanone	ND	10	102	70 - 130
1,1,2-trichloroethane	ND	5.0	102	70 - 130
1,2-Dibromoethane	ND	5.0	108	70 - 130
1,3-Dichloropropane	ND	5.0	104	70 - 130
Tetrachloroethene	ND	5.0	112	70 - 130
Dibromochloromethane	ND	5.0	104	70 - 130
Chlorobenzene	ND	5.0	110	70 - 130
1,1,1,2-Tetrachloroethane	ND	5.0	102	70 - 130
Ethylbenzene	ND	5.0	114	70 - 130
m,p-Xylene	ND	5.0	115	70 - 130
o-Xylene	ND	5.0	118	70 - 130
Styrene	ND	5.0	122	70 - 130
Bromoform	ND	5.0	114	70 - 130
trans-1,4-Dichloro-2-butene	ND	50	NA	70 - 130
Pentachloroethane	ND	50	NA	70 - 130
Isopropylbenzene	ND	5.0	114	70 - 130
1,1,2,2-Tetrachloroethane	ND	5.0	98	70 - 130
1,2,3-Trichloropropane	ND	5.0	98	70 - 130
n-Propylbenzene	ND	5.0	112	70 - 130

ND = Not Detected

FULLERTON LABORATORY
1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92831
PHONE (714) 447-6868

QUALITY CONTROL INFORMATION

02/13/ 97

EPA 8240/8260 Compounds by EPA 8260 Method

9702103, 9702101, 9702057, 9702074, 9702080

Parameter	Laboratory Method Blank (ug/Kg)	Reporting Limits (ug/Kg)	LCS Rec. (%)	Acceptability Range (%)
Bromobenzene	ND	5.0	108	70 - 130
1,3,5-Trimethylbenzene	ND	5.0	118	70 - 130
2-Chlorotoluene	ND	5.0	102	70 - 130
4-Chlorotoluene	ND	5.0	102	70 - 130
tert-Butylbenzene	ND	5.0	110	70 - 130
1,2,4-Trimethylbenzene	ND	5.0	114	70 - 130
sec-Butylbenzene	ND	5.0	110	70 - 130
p-Isopropyltoluene	ND	5.0	114	70 - 130
1,3-Dichlorobenzene	ND	5.0	108	70 - 130
1,4-Dichlorobenzene	ND	5.0	106	70 - 130
n-Butylbenzene	ND	5.0	114	70 - 130
1,2-Dichlorobenzene	ND	5.0	108	70 - 130
1,2-Dibromo-3-chloropropane	ND	5.0	94	70 - 130
1,2,4-Trichlorobenzene	ND	5.0	118	70 - 130
Hexachlorobutadiene	ND	5.0	104	70 - 130
Naphthalene	ND	5.0	118	70 - 130
1,2,3-Trichlorobenzene	ND	5.0	114	70 - 130
DBFM Surrogate Rec. (%)	93	----	85	60 - 140
Toluene-d8 Surrogate Rec. (%)	99	----	105	60 - 140
BFB Surrogate Rec. (%)	80	----	109	60 - 140

LCS = Laboratory Control Sample
ND = Not Detected

BOE-C6-0107897

FULLERTON LABORATORY
1511 E. ORANGETHORPE AVE
FULLERTON, CA 92831
PHONE (714) 447-6868

QUALITY CONTROL INFORMATION

02/13/97

EPA 8240/8260 Compounds by EPA 8260 Method

9702103, 9702101, 9702057, 9702074, 9702080

Sample Spiked: 9702103-01A

Parameter	MS Recovery (%)	MSD Recovery (%)	RPD	Acceptability Range (%)	RPD Range (%)
1,1-Dichloroethene	102	106	3.8	70 - 130	30
Benzene	107	110	2.8	70 - 130	30
Trichloroethene	105	110	4.7	70 - 130	30
Toluene	103	104	1.0	70 - 130	30
Chlorobenzene	100	102	2.0	70 - 130	30
DBFM Surrogate Rec. (%)	109	102	---	60 - 140	---
Toluene-d8 Surrogate Rec. (%)	102	102	---	60 - 140	---
BFB Surrogate Rec. (%)	103	102	---	60 - 140	---

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference

CHAIN OF CUSTODY

AND

SAMPLE RECEIPT CHECKLIST

9702103

FAX

MONTGOMERY WATSON

250 North Madison Avenue
Pasadena, CA 91101
P.O. Box 7009
Pasadena, CA 91109-7009

Tel: 818-568-6521
Fax: 818-568-6515

Date 2/12/97

Fax No: (714) 447-6800

To: Diane - SPL

Reference: MDRC

From: Nancy Matsumoto - Montgomery Watson

No. of Pages: 4 (including cover)

Subject: VOCs (8260) Analyses, Soil Samples

Please run the following soil samples for 8260:

- B37-GS-10
- B37-GS-13
- B37-GS-16*
- B37-GS-17*
- B37-GS-19
- B37-GS-25
- B37-GS-27*

Attached are the COCs I could find. I don't have COCs for *'d samples. Sorry.

Please call Steve Reinert @ (818) 568-6334 & let him know you received this FAX & everything's OK. He'll take over for me while I'm gone. I'll be back Tues. 2/18/97. Thanks!!

SPL, Inc.

Analysis Request & Chain of Custody Record

SPL Workorder No: C-62414

page 1 of 1

Client Name: Montgomery Watson

Address/Phone: 250 N. Madison Ave, Pasadena, CA

Client Contact: Fred Strauss

Project Name: MDRC [illegible] Torrance, CA

Project Number: 1206035.01090010

Project Location: C-6 Facility Building 37 Area

Invoice To: Fred Strauss

SAMPLE ID	DATE	TIME	comp	grab	matrix (W=water S=soil SL=sludge O=other:)	bottle (P=plastic A=amber glass G=glass V=vial)	size (1=1 liter 4=4oz 40=vial 8=8oz 16=16oz)	pres. (1=HCl 2=HNO3 3=H2SO4 O=other:)	Number of Containers	TRPH 418.1	CAM Metals							
637-GS-8	1/30/97	1110		X	Soil	[illegible]	[illegible]	1C	2	X	X							
637-GS-9	1/30/97	1115		X	"	"	"	"	2	X	X							
637-GS-10	1/30/97	1120		X	"	"	"	"	2	X	X							
637-GS-11	1/30/97	1400		X	"	"	"	"	2	X	X							
637-GS-12	1/30/97	1410		X	"	"	"	"	2	X	X							

Client/Consultant Remarks: 24 TAT on TRPH [illegible] Standard TAT [illegible]

Laboratory remarks:

Intact? ☐ Y ☐ N

Temp:

Requested TAT

TRPH 24hr ☒ 72hr ☐

48hr ☐ All Metals Standard ☒

Other ☐ _____

Special Reporting Requirements: Fax Results ☐ Raw Data ☐ Standard QC ☐ Level 3 QC ☐ Level 4 QC ☐

Special Detection Limits (specify):

PM review (initial):

	date	time		
1. Relinquished by Sampler: [illegible]	1/30/97	1515	2. Received by: [illegible]	1/30/97 1515
3. Relinquished by:	date	time	4. Received by:	
5. Relinquished by:	date	time	6. Received by Laboratory:	

☐ 8880 Interchange Drive, Houston, TX 77054 (713) 660-0901

☐ 459 Hughes Drive, Traverse City, MI 49684 (616) 947-5777

☐ 500 Ambassador Caffery Parkway, Scott, LA 70583 (318) 237-4775

☐ 1511 E. Orangethorpe Avenue, Fullerton, CA 92631 (714) 447-6868

SL, Inc.

Analysis Request &Chain of Custody Record

SPL Workorder No: C- 02415

page 1 of 1

Client Name: Montgomery Watson
Address/Phone: 250 N. Madison Ave, Pasadena, CA
Client Contact: Fred Strauss
Project Name: MDRC C-6 Facility, Torrance, CA
Project Number: 1206035.0107.0010
Project Location: C-6 Facility, Building 37 Area
Invoice To: Fred Strauss

SAMPLE ID	DATE	TIME	comp	grab	matrix (SL=sludge O=other)	bottle (P=plastic A=amber glass G=glass V=vial)	size (1=1 liter 4=4oz 40=vial 8=8oz 16=16oz)	pres. (1=HCl 2=HNO3 3=H2SO4 O=other)	Number of Containers	TRPH 418.1	CAM Metals
B37-GS-13	2/9/97	1030		X	S	"	"	Ice	2	X	X
B37-GS-14	2/9/97	1200		X	S	"	"	Ice	2	X	X

Client/Consultant Remarks: 24 TAT on TRPH; Standard TAT - Metals

Laboratory remarks:

Intact? ☐ Y ☐ N

Temp:

Requested TAT: TRPH 24hr ☒ 72hr ☐ 48hr ☐ Standard ☒ Other ☐ _____

Special Reporting Requirements: Fax Rts ☐ Raw Data ☐ Standard QC ☐ Level C ☐ Level 4 QC ☐

Special Detection Limits (specify):

PM review (initial):

	date	time	
1. Relinquished by Sampler:			2. Received by:
3. Relinquished by:	2/13/97	1500	4. Received by:
5. Relinquished by:			6. Received by Laboratory:

☐ 8880 Interchange Drive, Houston, TX 77054 (713) 660-0
☐ 459 Hughes Drive, Traverse City, MI 49684 (616) 947-57
☐ 500 Ambassador Caffery Parkway, Scott, LA 70583 (318) 237-4775
☐ 1511 E. Orangethorpe Avenue, Fullerton, CA 92631 (714) 447-6868

SPL, Inc.

Analysis Request & Chain of Custody Record

C-DP401

page 2 of 2

Client Name: Montgomery Watson

Address/Phone: 250 N. Madison Ave, Pasadena, CA

Client Contact: Fred Strauss (818) 568-6592

Project Name: MDRC C-6 Facility, Torrance, CA

Project Number: C-6 Facility, Bldg. 37 Area

Project Location: 1206035.01090010

Invoice To: Fred Strauss

SAMPLE ID	DATE	TIME	comp	grab	matrix: W=water S=soil SL=sludge O=other:	bottle: P=plastic A=amber glass G=glass V=vial	size: 1=1 liter 4=4oz 40=vial 8=8oz 16=16oz	pres.: 1=HCl 2=HNO3 3=H2SO4 O=other:	Number of Containers	TRPH 418.1	CAM Metals							
B37-GS-19	2/7/97	1250		X	S	8"x6" ss Sleeve	Approx 12 kg	ICE	2	X	X							
B37-GS-20		1430		X	"	"	"	"	2	X	X							
B37-GS-21		1435		X	"	"	"	"	2	X	X							
B37-GS-22		1440		X	"	"	"	"	2	X	X							
B37-GS-23		1445		X	"	"	"	"	2	X	X							
B37-GS-24		1450		X	"	"	"	"	2	X	X							
B37-GS-25		1455		X	"	"	"	"	2	X	X							
B37-GS-26		1500		X	"	"	"	"	2	X	X							

Client/Consultant Remarks: 24 hr TAT on TRPH; Standard otherwise

Laboratory remarks:

Intact? ☐ Y ☐ N

Temp:

Requested TAT

TRPH only

24hr ☒ 72hr ☐

48hr ☐ All other is Standard ☒

Other ☐ _____

Special Reporting Requirements: Fax Results ☐ Raw Data ☐ Standard QC ☐ Level 3 QC ☐ Level 4 QC ☐

Special Detection Limits (specify):

Phd review (initial):

	date	time		
1. Relinquished by Sampler: Adam W. [illegible]	2/7/97	1640	2. Received by: [illegible]	2/7/97 1640
3. Relinquished by:			4. Received by:	
5. Relinquished by:			6. Received by Laboratory:	

☐ 8880 Interchange Drive, Houston, TX 77054 (713) 660-0901

☐ 459 Hughes Drive, Traverse City, MI 49684 (616) 947-3777

☐ 500 Ambassador Caffery Parkway, Scott, LA 70583 (318) 237-4775

☐ 1511 E. Orangethorpe Avenue, Fullerton, CA 92631 (714) 447-6868

PAGE 4/4 ID:818 568 6515 FEB-12-97 15:59 FROM:MONTGOMERY WATSON IHW

BOE-C6-0107902

SPL Fullerton Environmental Laboratory
Sample Receiving Checklist

SPL Workorder Number: 9702103= Resubmit of previous workorders 9701192 9702014 9702033 9702060

Date:_____ Time:_____

	Yes	No	N/A
1. Chain of Custody Record Present?		*	
2. Chain of Custody Record Properly Completed?		*	
3. Custody Seals on Shipping Container?			
4. Custody Seals on Sample Container?			
5. All Custody Seals Intact?		*	
6. All Samples Received Intact?		*	
7. All Samples Labeled Correctly?		*	
8. Samples are Chilled at 2°C - 6°C		*	

* See Non-Conformance / Sample Condition Notification Form only if box with "*" is checked.

Internal Temperature of Shipping Container _____°C

Samples Were Delivered by:

SPL Courier	
Client Representative	
Federal Express	
UPS	
DHL	
Other:	

All samples will be disposed 30 days from the report date for this workorder, unless otherwise specified by the client.

Samples Checked by:_____

I:\data\forms\loginchk.wpd