siltronic
perfect silicon solutions

Koreen Lail
Environmental Engineer

Siltronic Corporation
7200 NW Front Avenue,
M/S 30
Portland OR 97210-3676,
Tel. 503-219-7994
Fax 503-219-7599
koreen.lail@siltronic.com

Brian Laurent
Bureau of Environmental Services
City of Portland
6543 N. Burlington Avenue
Portland, Oregon 97203-5452

ER: 043.KLL

2007-August-09

July 2007 Industrial Discharge Report

Dear Mr. Laurent,

Enclosed are the July 2007 monthly Industrial Discharge Reports for Siltronic Corporation Municipal Discharge Permit Number 469.001. Siltronic has operated in compliance with the Permit for this reporting period.

If you have any questions, please contact Koreen Lail.

Regards,
Siltronic Corporation

Koreen Lail
Environmental Engineer

Enclosures:
Special Account Meter Report Document
Industrial Wastewater Discharge Self-Monitoring Report

cc: Tom Rothschild
POTW-IDR File

870710

4640175004
SUSC SILTRONICS OWW & MV2
C. Justin Darr
243-2020 x7131

Siltronic Corporation
PO Box 83180
Portland, Oregon 97283-0180

SPECIAL ACCOUNT METER REPORT DOCUMENT

July-07

1. OWW DISCHARGE

ACTUAL READINGS

	FAB 1	FAB 2	
PAST READING	109367	100,113	100s of GALLONS)
CURRENT READING	109367	912,964	100s of GALLONS)
CONSUMPTION	0	187,149	100s of GALLONS)
TOTAL THROUGH OVERFLOW LINE	0		(100s of GALLONS)
TOTAL CONSUMPTION		1,871,490	10s of GALLONS)

READINGS CONVERTED TO CUBIC FEET

CONSUMPTION	1,871,490	* 10 GAL / 7.48 GAL/CF =	2,501,992	CF
TOTAL THROUGH OVERFLOW	0	* 10 GAL / 7.48 GAL/CF =	0	CF
TOTAL CONSUMPTION			2,501,992	CF

2. METER VAULT #2 (Sanitary)

ACTUAL READINGS

PAST READING	2,640,052	(10s of GALLONS)
CURRENT READING	2,704,936	(10s of GALLONS)
CONSUMPTION	64,884	(10s of GALLONS)

READINGS CONVERTED TO CUBIC FEET

CONSUMPTION	64,884	* 10 GAL / 7.48 GAL/CF=	86,743	CF

This meter reading was reported by: C. Justin Darr on 8/7/07
C. Justin Darr date

Sent to: Bureau of Enviromental Services City of Portland
Water Pollution Control Lab, Attn: Brian Laurent
6543 N Burlington Avenue, Portland, Oregon 97203-5452

SCOEPA00024986

CITY OF PORTLAND
INDUSTRIAL WASTEWATER DISCHARGE
SELF-MONITORING REPORT

INDUSTRY NAME: Siltronic Corporation

PERMIT NUMBER: 469.001

REPORT DUE DATE: 15th of the Month following the sampling period.

SAMPLING PERIOD: July 2007

For Industrial Source Control Division Use Only	
Date Postmarked/Received	Date Entered
	Entered By:
Comments:	

pH GRAB SAMPLE - EPA METHOD 150.1

POINT OF COMPLIANCE		pH METER BRAND			pH METER MODEL		pH Discharge Limits
#1B (Fab 2)		Orion			720A		5.0 - 11.5 S.U.
Date of Sample	Time of Sample	Reported pH Value	Violation? (circle one)		pH Meter Calibration Date	pH Meter Calibration Buffer used	COMMENTS
19 July 2007	0720	9.8SU	YES	NO	19 July 2007	7.0 and 10.0	

CONTINUOUSLY MONITORED pH - EPA METHOD 150.2

POINT OF COMPLIANCE	pH METER BRAND	pH METER MODEL	pH Limit
#1B (Fab 2)	Foxboro	873	5.0 - 11.5 S.U.

DATE	STARTING TIME (military time)	MOST EXTREME pH EXCURSION	DURATION (minutes)	VIOLATION? (circle one)		COMMENTS
July 2007		No Excursions		YES	NO	
				YES	NO	
				YES	NO	
				YES	NO	

Instructions: Industrial Source Control Division (ISCD) must be notified of all discharge violations within 24 hours of your knowledge of the violation. Report all pH excursions on this form and circle YES if they are a violation. Include any appropriate comments in the Comment column regarding the nature of the excursion. Attach supporting data or explanations to this report. You are also required to document corrective actions you have taken in response to the excursion.

Violations:
1. pH excursions outside the range of 5.0 - 11.5 SU for a total duration of more than 15 minutes in any 24 hour period.
2. pH excursions less than or equal to 4.5 SU or greater than or equal to 12.5 SU regardless of duration.

Non-Violations: You may contend an excursion does not represent a pH discharge violation if it does not meet the criteria listed above. Circle NO in the VIOLATION? Column and include a copy of the pH log or pH chart recording showing the excursion. The final violation status of the excursion will be determined by the ISCD.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: Dave Said for Siltronic Date: 8/9/07

N:\Environmental\FACLAB\WWTP\BES Monthly Reports\Monthly\July 2007.doc

SCOEPA00024987

PERMITTEE NAME/ADDRESS (Include Facility Name/Location/Different)

NAME Siltronic Corporation Site ID 93450

ADDRESS 7200 NW Front Ave.
Portland, OR 97210-3676

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PERMIT NUMBER (2-16)	DISCHARGE NUMBER (17-19)
101128	Outfall 001

Form Approved.
OMB No. 2040-0004
Approval expires 10-31-94

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	2007	6	1	TO	2007	6	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	MAXIMUM (54-61)	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	AVERAGE (46-53)	MAXIMUM (54-61)	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Process Waste Water Flow	SAMPLE MEASUREMENT	3,397	4,051	m^3/day	--	--	--	--		Continuous	
	PERMIT REQUIREMENT	--	--		--	--	--			totalizing recorder	
BOD	SAMPLE MEASUREMENT	15.2	21.4	kg/day	--	4.3	6.5	mg/L		1/ 7	24HC
	PERMIT REQUIREMENT	154	342		--	15	30				
TSS	SAMPLE MEASUREMENT	53.6	192.8	kg/day	--	13.7	48.5	mg/L		1/ 7	24HC
	PERMIT REQUIREMENT	236	695		--	23	61				
Cr^{+6} (1)	SAMPLE MEASUREMENT			kg/day	--			mg/L			
	PERMIT REQUIREMENT	0.05	0.12		--	0.02	0.05				
Cr^{Total}	SAMPLE MEASUREMENT	<0.004	0.006	kg/day	--	<0.001	0.001	mg/L		1/ 7	24HC
	PERMIT REQUIREMENT	0.2	0.6		--	0.3	1.0				
Fluoride	SAMPLE MEASUREMENT	23.0	29.3	kg/day	--	6.5	8.9	mg/L		1/ 7	24HC
	PERMIT REQUIREMENT	178	365		--	17.4	32				
Total Phosphate	SAMPLE MEASUREMENT	--	--	--	--	0.1	0.2	mg/L		1/ 7	24HC
	PERMIT REQUIREMENT	--	--		--	10	15				

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Tom McCue
Environmental Manager

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and/or imprisonment of between 6 months and 5 years)

Siltronic Corp. by: Koreen Lai for Siltronic

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE AREA CODE	NUMBER	DATE YEAR	MO	DAY
503	243-2020	07	7	11

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) Chrome batches are no longer being treated on site. pH outage: 06/29/07 for 6 minutes at 5.79.

KLL:040

SCOEPA00024988

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)
NAME Siltronic Corporation Site ID 93450
ADDRESS 7200 NW Front Ave.
Portland, OR 97210-3676
FACILITY
LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16)	(17-18)
101128	Outfall 001
PERMIT NUMBER	DISCHARGE NUMBER

Form Approved.
OMB No. 2040-0004
Approval expires 10-31-04

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	2007	6	1	TO	2007	6	30
	(19-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (45-53) AVERAGE	(46-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (48-53) MINIMUM	(54-61) AVERAGE	(62-67) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
TTO	SAMPLE MEASUREMENT	--	--	kg/day	--	--	<0.02	mg/L		1/ 30	Grab
	PERMIT REQUIREMENT	--	--		--	--	1.37				
Turbidity	SAMPLE MEASUREMENT					0.7	4.2	NTC		6/1	Grab
	PERMIT REQUIREMENT									One sample every 4 hours	
pH excursions > 60 minutes	SAMPLE MEASUREMENT								0	monthly	
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Tom McCue
Environmental Manager

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. [illegible]

Siltronic Corp by:

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
503	243-2020	07	7	11
AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

SCOEPA00024989

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)
NAME: Siltronic Corporation Site ID 93450
ADDRESS: 7200 NW Front Ave.
Portland, OR 97210-3676
FACILITY
LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PERMIT NUMBER (2-16)	DISCHARGE NUMBER (17-19)
101128	Outfall 002

Form Approved.
OMB No. 2040-0004
Approval expires 10-31-94

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	2007	6	1	TO	2007	6	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
MV-3 Flow	SAMPLE MEASUREMENT	360	647	m^3/day	--	--	--	--		Continuous	
	PERMIT REQUIREMENT	--	--		--	--	--				
MV-3 Total phosphates	SAMPLE MEASUREMENT	--	--	--	--	0.1	0.1	mg/L		1/ 7	Grab
	PERMIT REQUIREMENT	--	--		--	10	15				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
Tom McCue
Environmental Manager
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 [illegible]

Siltronic Corp. by:
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE AREA CODE	TELEPHONE NUMBER	DATE YEAR	DATE MO	DATE DAY
503	243-2020	07	7	11

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

SCOEPA00024990

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME: Siltronic Corporation Site ID 93450

ADDRESS: 7200 NW Front Ave.
Portland, OR 97210-3676

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(2-16) (17-19)

101128	Outfall 003
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	2007	6	1	TO	2007	6	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

Form Approved.
OMB No. 2040-0004
Approval expires 10-31-94

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(51-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Outfall flow	SAMPLE MEASUREMENT	3,746	4,376	m^3/day	--	--	--	--		Continuous	
	PERMIT REQUIREMENT	--	--		--	--	--				
Outfall temperature	SAMPLE MEASUREMENT	--	--	--	--	--	78.0	°F		1/ 7	Grab
	PERMIT REQUIREMENT	--	--		--	--	85				
Outfall pH	SAMPLE MEASUREMENT	--	--	--	5.79	7.34	8.60			Continuous	
	PERMIT REQUIREMENT	--	--		6.0	--	9.0				
pH excursions > 60 minutes	SAMPLE MEASUREMENT								0	Daily average	
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Tom McCue
Environmental Manager

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 [illegible]

Siltronic Corp. by:

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 503 NUMBER 243-2020

DATE: YEAR 07 MO 7 DAY 11

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

SCOEPA00024991

SUPPLEMENTAL DATA

Siltronic Corporation Site ID 93450
7200 NW Front Avenue
Portland, Oregon 97210-3676

Permit Number: 101128
June-07 Discharge Data

Outfal # 001													Outfall # 002	Outfall # 003	
Date	BOD mg/L	BOD Weekly Loading kg	TSS mg/L	TSS Weekly Loading kg	Fluoride mg/L	Fluoride Weekly Loading kg	Total Cr mg/L	Total Cr Weekly Loading kg	Cr^{+6} mg/L Daily Avg.	Cr^{+6} mg/L Monthly Avg.	Cr^{+6} Loading Monthly Avg. kg	Cr^{+6} Loading Daily Max kg	Phosphate mg/L	Cl_2 Free Available Daily Max mg/L	Cl_2 Free Available Monthly Avg. mg/L
7	4.3	15.57	1.9	6.6	6.4	22.4	0.0005	0.0026	0.000	0.000	0.000	0.000	0.078	0.000	0.000
14	6.5	19.6	1.9	6.3	8.9	29.3	0.0005	0.0025	0.000	0.000	0.000	0.000	0.102	0.000	0.000
21	4.5	12.9	48.5	192.8	4.9	19.5	0.0005	0.0039	0.000	0.000	0.000	0.000	0.057	0.000	0.000
28	2.9	10.6	2.4	8.6	5.8	20.9	0.0005	0.0018	0.000	0.000	0.000	0.000	0.098	0.000	0.000
7	4.6	n/a					0.00102	n/a							
14	5.4	n/a					0.00102	n/a							
21	2.0	n/a					0.00148	n/a							

(001) DAILY FLOW'S	
Day	M
1	4020
2	3880
3	3820
4	3895
5	3695
6	3710
7	3839
8	3521
9	4017
10	3831
11	3880
12	3922
13	3982
14	3532
15	4005
16	3805
17	3850
18	3926
19	3736
20	3630
21	4312
22	3252
23	4194
24	3839
25	3755
26	4376
27	3786
28	4123
29	4323
30	3664
31	n/a
Total:	116120

(001) Turbidity Daily Avg	
Day	NTU's
1	1.1
2	1.2
3	1.1
4	0.9
5	0.6
6	0.6
7	0.5
8	0.7
9	0.5
10	0.5
11	0.5
12	0.8
13	0.6
14	0.6
15	0.5
16	0.5
17	0.4
18	0.5
19	1.0
20	1.2
21	1.9
22	0.7
23	0.7
24	1.0
25	0.7
26	0.7
27	0.5
28	0.7
29	0.7
30	0.6
31	n/a

(001) pH Daily Avg	
Day	pH
1	7.7
2	7.8
3	8.0
4	8.1
5	8.2
6	8.2
7	8.1
8	7.9
9	8.0
10	8.1
11	8.0
12	7.9
13	7.9
14	8.0
15	8.2
16	8.0
17	8.0
18	8.1
19	8.2
20	8.3
21	8.1
22	8.0
23	8.0
24	8.1
25	8.0
26	8.2
27	7.9
28	8.0
29	8.0
30	8.1
31	n/a

(002) DAILY FLOW'S	
Day	M
1	238
2	424
3	303
4	473
5	174
6	314
7	341
8	189
9	337
10	386
11	371
12	413
13	386
14	242
15	295
16	333
17	382
18	466
19	291
20	439
21	337
22	314
23	397
24	409
25	326
26	326
27	314
28	522
29	647
30	420
31	n/a
Total:	10812

For Bod & Total Cr samples: The calculation for the loading includes averaging both samples for the 7th, 14th and the 21th (qualifying alternate lab).

siltronic
perfect silicon solutions

Koreen Lail
Environmental Engineer

Siltronic Corporation
7200 NW Front Avenue,
M/S 30
Portland OR 97210-3676,
Tel. 503-219-7994
Fax 503-219-7599
koreen.lail@siltronic.com

Brian Laurent
Bureau of Environmental Services
City of Portland
6543 N. Burlington Avenue
Portland, Oregon 97203-5452

ER: 039.KLL

2007-July-10

June 2007 Industrial Discharge Report

Dear Mr. Laurent,

Enclosed are the June 2007 monthly Industrial Discharge Reports for Siltronic Corporation Municipal Discharge Permit Number 469.001. Also enclosed are the semi-annual Industrial Discharge Reports for Siltronic Corporation Municipal Discharge Permit Number 469.001. Siltronic has operated in compliance with the Permit for this reporting period.

If you have any questions, please contact Koreen Lail.

Regards,
Siltronic Corporation

Koreen Lail
Environmental Engineer

Enclosures:
Special Account Meter Report Document
Industrial Wastewater Discharge Self-Monitoring Report

cc: Tom Rothschild
POTW-IDR File

CITY OF PORTLAND
INDUSTRIAL WASTEWATER DISCHARGE
SELF-MONITORING REPORT

INDUSTRY NAME: Siltronic Corporation

PERMIT NUMBER: 469.001

REPORT DUE DATE: 15th of the Month following the sampling period.

SAMPLING PERIOD: June 2007

For Industrial Source Control Division Use Only

Date Postmarked/Received | Date Entered

Entered By

Comments:

pH GRAB SAMPLE - EPA METHOD 150.1

POINT OF COMPLIANCE	pH METER BRAND	pH METER MODEL	pH Discharge Limits
#1B (Fab 2)	Orion	720A	5.0 - 11.5 S.U.

Date of Sample	Time of Sample	Reported pH Value	Violation? (circle one)		pH Meter Calibration		COMMENTS
					Date	Buffer used	
14 June 2007	0930	10.3	YES	(NO)	14 June 2007	7.0 and 10.0	

CONTINUOUSLY MONITORED pH - EPA METHOD 150.2

POINT OF COMPLIANCE	pH METER BRAND	pH METER MODEL	pH Limit
#1B (Fab 2)	Foxboro	873	5.0 - 11.5 S.U.

DATE	STARTING TIME (military time)	MOST EXTREME pH EXCURSION	DURATION (minutes)	VIOLATION? (circle one)		COMMENTS
June 2007		No Excursions		YES	NO	
				YES	NO	
				YES	NO	
				YES	NO	

Instructions: Industrial Source Control Division (ISCD) must be notified of all discharge violations within 24 hours of your knowledge of the violation. Report all pH excursions on this form and circle YES if they are a violation. Include any appropriate comments in the Comment column regarding the nature of the excursion. Attach supporting data or explanations to this report. You are also required to document corrective actions you have taken in response to the excursion.

Violations:
1. pH excursions outside the range of 5.0 - 11.5 SU for a total duration of more than 15 minutes in any 24 hour period.
2. pH excursions less than or equal to 4.5 SU or greater than or equal to 12.5 SU regardless of duration.

Non-Violations: You may contend an excursion does not represent a pH discharge violation if it does not meet the criteria listed above. Circle NO in the VIOLATION? Column and include a copy of the pH log or pH chart recording showing the excursion. The final violation status of the excursion will be determined by the ISCD.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: Karen Gail for Siltronic Date: 7/10/07

SCOEPA00024994

CITY OF PORTLAND
INDUSTRIAL WASTEWATER DISCHARGE
SELF-MONITORING REPORT

INDUSTRY NAME: Siltronic Corporation

PERMIT NUMBER: 469.001

REPORT DUE DATE: 15 July 2007

SAMPLING PERIOD: June 2007

For Industrial Source Control Division Use Only

Date Postmarked/Received **Date Entered**

Entered By:

Comments:

SAMPLE DATE	POINT OF COMPLIANCE	SAMPLE TYPE
	#1B (Fab 2)	GRAB

PARAMETER	ANALYSIS METHOD	REPORTED CONCENTRATION	MDL	LIMITS DAILY	LIMITS MONTHLY	COMMENTS
TTOs (Volatiles)	EPA 608	<0.004 mg/L	0.004 mg/L	1.37 mg/L	N/A	SEE CERTIFICATION STATEMENT BELOW
	EPA 624	<0.005 mg/L	0.005 mg/L			
	EPA 625	<0.05 mg/L	0.05 mg/L			

SAMPLE DATE	POINT OF COMPLIANCE	SAMPLE TYPE
	#1B (Fab 2)	COMPOSITE

PARAMETER	ANALYSIS METHOD	REPORTED CONCENTRATION	MDL	LIMITS DAILY	LIMITS MONTHLY	COMMENTS
Arsenic (Total)	EPA 200.8	0.00209 mg/L	0.001 mg/L	0.2 mg/L	0.83 mg/L	
Total Suspended Solids	SM 2540D	147.5 mg/L	0.1 mg/L	N/A	N/A	

Based on my inquiry of the person or persons directly responsible for managing compliance with the pretreatment standard for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to the control authority.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: Karen Gail for Siltronic Date: 7/10/07

SCOEPA00024995

4640175004
SUSC SILTRONICS OWW & MV2
C. Justin Darr
243-2020 x7131

Siltronic Corporation
PO Box 83180
Portland, Oregon 97283-0180

SPECIAL ACCOUNT METER REPORT DOCUMENT

July-07

1. OWW DISCHARGE

ACTUAL READINGS

	FAB 1	FAB 2	
PAST READING	109367	731,550	100s of GALLONS)
CURRENT READING	109367	912,964	100s of GALLONS)
CONSUMPTION	0	181,414	100s of GALLONS)
TOTAL THROUGH OVERFLOW LINE	0		(100s of GALLONS)
TOTAL CONSUMPTION	1,814,140		10s of GALLONS)

READINGS CONVERTED TO CUBIC FEET

CONSUMPTION	1,814,140	* 10 GAL / 7.48 GAL/CF =	2,425,321 CF
TOTAL THROUGH OVERFL(	0	* 10 GAL / 7.48 GAL/CF =	0 CF
TOTAL CONSUMPTION			2,425,321 CF

2. METER VAULT #2 (Sanitary)

ACTUAL READINGS

PAST READING	2,593,470	(10s of GALLONS)
CURRENT READING	2,640,052	(10s of GALLONS)
CONSUMPTION	46,582	(10s of GALLONS)

READINGS CONVERTED TO CUBIC FEET

CONSUMPTION	46,582	* 10 GAL / 7.48 GAL/CF=	62,275 CF

This meter reading was reported by: C. Justin Darr on 7/2/07
C. Justin Darr date

Sent to: Bureau of Enviromental Services City of Portland
Water Pollution Control Lab, Attn: Brian Laurent
6543 N Burlington Avenue, Portland, Oregon 97203-5452

SCOEPA00024996

BENCHSHEET

TOTAL SUSPENDED SOLIDS (TSS)

Sample Date: 6-7.07 Oven Temp: 104 C Analyst: DI

Date In: 6.7.07 Time In/Out: 0900 / 1130

Tin #	Sample	Vol, ml	Gross Wt, g	Tare Wt, g	TSS, mg/L
1	Blank	NA	0.0897	0.0897	
2	CE	500	0.0906	0.0897	1.8
3	CE	500	0.0907	0.0898	2.0
				Average CE TSS	1.9
4	OWW	100	0.1043	0.0898	145
5	OWW	100	0.1056	0.0906	150
				Average OWW TSS	147.5
				Average TSS	
				Average TSS	

Comments: _____

Calculation: TSS, mg/L = $\frac{\text{(Gross Wt, g - Tare Wt, g) X 1,000,000}}{\text{Volume of Sample, ml}}$

Note: NPDES permit: monthly avg. 23 mg/L, daily max. 61 mg/L.
POTW permit: daily max 350 mg/L.

Reference: 1. Standard Methods for the Examination of Water and Wastewater, 2005, 21st Edition, Section 2540 D, page 2-58.
2. National Pollution Discharge Elimination System Permit #101128.

TJR 21 Mar 1987
DEI 01 Jun 2007 Revised

N:\Environmental\FACLAB\WWTP\BENCH\TSSB.DOC

TestAmerica
ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

June 26, 2007

Thomas Rothschild
Siltronic
7200 N.W. Front Ave
Portland, OR 97210

RE: Monthly

Enclosed are the results of analyses for samples received by the laboratory on 06/07/07 18:10. The following list is a summary of the Work Orders contained in this report, generated on 06/26/07 16:27.

If you have any questions concerning this report, please feel free to contact me.

Work Order	Project	ProjectNumber
PQF0270	Monthly	PO# 4500186654

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Brian Cone, Industrial Services Manager

SCOEPA00024998

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	06/26/07 16:27

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
07-78-CE-C	PQF0270-01	Water	06/07/07 07:15	06/07/07 18:10
07-79-CE-g	PQF0270-02	Water	06/07/07 07:15	06/07/07 18:10
07-80-OWW-C	PQF0270-03	Water	06/07/07 07:16	06/07/07 18:10
07-81-OWW-g	PQF0270-04	Water	06/07/07 07:16	06/07/07 18:10

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full. without the written approval of the laboratory.

Brian Cone, Industrial Services Manager

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ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	06/26/07 16:27

Total Metals per EPA 200 Series Methods

TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQF0270-01 (07-78-CE-C)		**Water**			**Sampled: 06/07/07 07:15**					
Chromium	EPA 200.8	0.00102	----	0.00100	mg/l	1x	7060613	06/14/07 11:15	06/20/07 00:25	
PQF0270-03 (07-80-OWW-C)		**Water**			**Sampled: 06/07/07 07:16**					
Arsenic	EPA 200.8	0.00209	----	0.00100	mg/l	1x	7060613	06/14/07 11:15	06/20/07 00:33	

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Brian Cone, Industrial Services Manager

SCOEPA00025000

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	06/26/07 16:27

Organochlorine Pesticides and PCBs per EPA Method 608

TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQF0270-02 (07-79-CE-g)		**Water**			**Sampled: 06/07/07 07:15**					
Aldrin	EPA 608	ND	----	0.0000952	mg/l	1x	7060322	06/08/07 11:45	06/12/07 13:29	
alpha-BHC	"	ND	----	0.0000952	"	"	"	"	"	
beta-BHC	"	ND	----	0.0000952	"	"	"	"	"	
delta-BHC	"	ND	----	0.0000952	"	"	"	"	"	
gamma-BHC (Lindane)	"	ND	----	0.0000952	"	"	"	"	"	
Chlordane (tech)	"	ND	----	0.00476	"	"	"	"	"	
alpha-Chlordane	"	ND	----	0.0000952	"	"	"	"	"	
gamma-Chlordane	"	ND	----	0.0000952	"	"	"	"	"	
4,4'-DDD	"	ND	----	0.0000952	"	"	"	"	"	
4,4'-DDE	"	ND	----	0.0000952	"	"	"	"	"	
4,4'-DDT	"	ND	----	0.0000952	"	"	"	"	"	
Dieldrin	"	ND	----	0.0000952	"	"	"	"	"	
Endosulfan I	"	ND	----	0.0000952	"	"	"	"	"	
Endosulfan II	"	ND	----	0.0000952	"	"	"	"	"	
Endosulfan sulfate	"	ND	----	0.0000952	"	"	"	"	"	
Endrin	"	ND	----	0.0000952	"	"	"	"	"	
Endrin aldehyde	"	ND	----	0.0000952	"	"	"	"	"	
Heptachlor	"	ND	----	0.0000952	"	"	"	"	"	
Heptachlor epoxide	"	ND	----	0.0000952	"	"	"	"	"	
Methoxychlor	"	ND	----	0.0000952	"	"	"	"	"	
Toxaphene	"	ND	----	0.00476	"	"	"	"	"	
Aroclor 1016	"	ND	----	0.000476	"	"	"	"	06/11/07 23:25	
Aroclor 1221	"	ND	----	0.000952	"	"	"	"	"	
Aroclor 1232	"	ND	----	0.000476	"	"	"	"	"	
Aroclor 1242	"	ND	----	0.000476	"	"	"	"	"	
Aroclor 1248	"	ND	----	0.000476	"	"	"	"	"	
Aroclor 1254	"	ND	----	0.000476	"	"	"	"	"	
Aroclor 1260	"	ND	----	0.000476	"	"	"	"	"	
Surrogate(s): 2,4,5,6-Tetrachloro-m-xylene		*94.1%*			*16 - 137 %*	"			*06/12/07 13:29*	
Decachlorobiphenyl		*79.0%*			*12 - 130 %*	"			*06/11/07 23:25*	

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Brian Cone, Industrial Services Manager

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ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name: **Monthly**	
7200 N.W. Front Ave	Project Number: PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager: Thomas Rothschild	06/26/07 16:27

Organochlorine Pesticides and PCBs per EPA Method 608

TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQF0270-04 (07-81-QWW-g)		**Water**			**Sampled: 06/07/07 07:16**					
Aldrin	EPA 608	ND	----	0.0000962	mg/l	1x	7060322	06/08/07 11:45	06/12/07 13:50	
alpha-BHC	"	ND	----	0.0000962	"	"	"	"	"	
beta-BHC	"	ND	----	0.0000962	"	"	"	"	"	
delta-BHC	"	ND	----	0.0000962	"	"	"	"	"	
gamma-BHC (Lindane)	"	ND	----	0.0000962	"	"	"	"	"	
Chlordane (tech)	"	ND	----	0.00481	"	"	"	"	"	
alpha-Chlordane	"	ND	----	0.0000962	"	"	"	"	"	
gamma-Chlordane	"	ND	----	0.0000962	"	"	"	"	"	
4,4'-DDD	"	ND	----	0.0000962	"	"	"	"	"	
4,4'-DDE	"	ND	----	0.0000962	"	"	"	"	"	
4,4'-DDT	"	ND	----	0.0000962	"	"	"	"	"	
Dieldrin	"	ND	----	0.0000962	"	"	"	"	"	
Endosulfan I	"	ND	----	0.0000962	"	"	"	"	"	
Endosulfan II	"	ND	----	0.0000962	"	"	"	"	"	
Endosulfan sulfate	"	ND	----	0.0000962	"	"	"	"	"	
Endrin	"	ND	----	0.0000962	"	"	"	"	"	
Endrin aldehyde	"	ND	----	0.0000962	"	"	"	"	"	
Heptachlor	"	ND	----	0.0000962	"	"	"	"	"	
Heptachlor epoxide	"	ND	----	0.0000962	"	"	"	"	"	
Methoxychlor	"	ND	----	0.0000962	"	"	"	"	"	
Toxaphene	"	ND	----	0.00481	"	"	"	"	"	
Aroclor 1016	"	ND	----	0.000481	"	"	"	"	06/12/07 01:16	
Aroclor 1221	"	ND	----	0.000962	"	"	"	"	"	
Aroclor 1232	"	ND	----	0.000481	"	"	"	"	"	
Aroclor 1242	"	ND	----	0.000481	"	"	"	"	"	
Aroclor 1248	"	ND	----	0.000481	"	"	"	"	"	
Aroclor 1254	"	ND	----	0.000481	"	"	"	"	"	
Aroclor 1260	"	ND	----	0.000481	"	"	"	"	"	
Surrogate(s): *2,4,5,6-Tetrachloro-m-xylene*			*52.4%*		*16 - 137 %*	"			*06/12/07 13:50*	
Decachlorobiphenyl			*34.5%*		*12 - 130 %*	"			*06/12/07 01:16*	

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Brian Cone, Industrial Services Manager

SCOEPA00025002

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name: **Monthly**	
7200 N.W. Front Ave	Project Number: PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager: Thomas Rothschild	06/26/07 16:27

Purgeables per EPA Method 624 Modified

TestAmerica - Portland, OR

Analyte	Method	Result	MDL[4]	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQF0270-02 (07-79-CE-g)		**Water**			**Sampled: 06/07/07 07:15**					
Benzene	EPA 624	ND	----	0.00100	mg/l	1x	7060391	06/11/07 07:27	06/11/07 18:46	
Bromodichloromethane	"	ND	----	0.00100	"	"	"	"	"	
Bromoform	"	ND	----	0.00100	"	"	"	"	"	
Bromomethane	"	ND	----	0.00500	"	"	"	"	"	
Carbon tetrachloride	"	ND	----	0.00100	"	"	"	"	"	
Chlorobenzene	"	ND	----	0.00100	"	"	"	"	"	L
Chloroethane	"	ND	----	0.00500	"	"	"	"	"	
Chloroform	"	**0.00399**	----	0.00100	"	"	"	"	"	
Chloromethane	"	ND	----	0.00500	"	"	"	"	"	
Dibromochloromethane	"	ND	----	0.00100	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	0.00100	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	0.00100	"	"	"	"	"	L
1,4-Dichlorobenzene	"	ND	----	0.00100	"	"	"	"	"	L
1,1-Dichloroethane	"	ND	----	0.00100	"	"	"	"	"	
1,2-Dichloroethane	"	ND	----	0.00100	"	"	"	"	"	
1,1-Dichloroethene	"	ND	----	0.00100	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	----	0.00100	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	0.00100	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	----	0.00100	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	----	0.00100	"	"	"	"	"	
Ethylbenzene	"	ND	----	0.00100	"	"	"	"	"	
Methylene chloride	"	ND	----	0.00500	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	----	0.00100	"	"	"	"	"	
Tetrachloroethene	"	ND	----	0.00100	"	"	"	"	"	L
Toluene	"	ND	----	0.00100	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	----	0.00100	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	----	0.00100	"	"	"	"	"	
Trichloroethene	"	ND	----	0.00100	"	"	"	"	"	
Trichlorofluoromethane	"	ND	----	0.00100	"	"	"	"	"	
Vinyl chloride	"	ND	----	0.00100	"	"	"	"	"	
Surrogate(s):	*4-BFB*		*116%*		*75 - 120 %*	"			"	
	1,2-DCA-d4		*110%*		*77 - 129 %*	"			"	
	Dibromofluoromethane		*118%*		*80 - 121 %*	"			"	
	Toluene-d8		*114%*		*80 - 120 %*	"			"	

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Brian L Cone

Brian Cone, Industrial Services Manager

SCOEPA00025003

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	06/26/07 16:27

Purgeables per EPA Method 624 Modified

TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQF0270-04 (07-81-OWW-g)		**Water**			**Sampled: 06/07/07 07:16**					
Benzene	EPA 624	ND	-----	0.00100	mg/l	1x	7060391	06/11/07 07:27	06/11/07 19:13	
Bromodichloromethane	"	ND	-----	0.00100	"	"	"	"	"	
Bromoform	"	ND	-----	0.00100	"	"	"	"	"	
Bromomethane	"	ND	-----	0.00500	"	"	"	"	"	
Carbon tetrachloride	"	ND	-----	0.00100	"	"	"	"	"	
Chlorobenzene	"	ND	-----	0.00100	"	"	"	"	"	L
Chloroethane	"	ND	-----	0.00500	"	"	"	"	"	
Chloroform	"	0.00227	-----	0.00100	"	"	"	"	"	
Chloromethane	"	ND	-----	0.00500	"	"	"	"	"	
Dibromochloromethane	"	ND	-----	0.00100	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	-----	0.00100	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	-----	0.00100	"	"	"	"	"	L
1,4-Dichlorobenzene	"	ND	-----	0.00100	"	"	"	"	"	L
1,1-Dichloroethane	"	ND	-----	0.00100	"	"	"	"	"	
1,2-Dichloroethane	"	ND	-----	0.00100	"	"	"	"	"	
1,1-Dichloroethene	"	ND	-----	0.00100	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	-----	0.00100	"	"	"	"	"	
1,2-Dichloropropane	"	ND	-----	0.00100	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	-----	0.00100	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	-----	0.00100	"	"	"	"	"	
Ethylbenzene	"	ND	-----	0.00100	"	"	"	"	"	
Methylene chloride	"	ND	-----	0.00500	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	-----	0.00100	"	"	"	"	"	
Tetrachloroethene	"	ND	-----	0.00100	"	"	"	"	"	L
Toluene	"	ND	-----	0.00100	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	-----	0.00100	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	-----	0.00100	"	"	"	"	"	
Trichloroethene	"	ND	-----	0.00100	"	"	"	"	"	
Trichlorofluoromethane	"	ND	-----	0.00100	"	"	"	"	"	
Vinyl chloride	"	ND	-----	0.00100	"	"	"	"	"	
Surrogate(s): *4-BFB*			*108%*		*75 - 120 %*	"			"	
1,2-DCA-d4			*101%*		*77 - 129 %*	"			"	
Dibromofluoromethane			*110%*		*80 - 121 %*	"			"	
Toluene-d8			*106%*		*80 - 120 %*	"			"	

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Brian Cone, Industrial Services Manager

SCOEPA00025004

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	06/26/07 16:27

Acid and Base/Neutral Extractables per EPA Method 625

TestAmerica - Portland, OR

Analyte	Method	Result	MDL[a]	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQF0270-02 (07-79-CE-g)		**Water**			**Sampled: 06/07/07 07:15**					
Acenaphthene	EPA 625	ND	----	0.00476	mg/l	1x	7060409	06/11/07 14:45	06/15/07 00:03	
Acenaphthylene	"	ND	----	0.00476	"	"	"	"	"	
Anthracene	"	ND	----	0.00476	"	"	"	"	"	
Benzidine	"	ND	----	0.0571	"	"	"	"	"	C
Benzo (a) anthracene	"	ND	----	0.00476	"	"	"	"	"	
Benzo (a) pyrene	"	ND	----	0.00476	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	----	0.00476	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	----	0.00476	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	----	0.00476	"	"	"	"	"	
4-Bromophenyl phenyl ether	"	ND	----	0.00476	"	"	"	"	"	
Butyl benzyl phthalate	"	ND	----	0.00476	"	"	"	"	"	
4-Chloro-3-methylphenol	"	ND	----	0.00476	"	"	"	"	"	
Bis(2-chloroethoxy)methane	"	ND	----	0.00952	"	"	"	"	"	
Bis(2-chloroethyl)ether	"	ND	----	0.00476	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	"	ND	----	0.00952	"	"	"	"	"	
2-Chloronaphthalene	"	ND	----	0.00476	"	"	"	"	"	
2-Chlorophenol	"	ND	----	0.00476	"	"	"	"	"	
4-Chlorophenyl phenyl ether	"	ND	----	0.00476	"	"	"	"	"	
Chrysene	"	ND	----	0.00476	"	"	"	"	"	
Di-n-butyl phthalate	"	ND	----	0.00476	"	"	"	"	"	
Di-n-octyl phthalate	"	ND	----	0.00476	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND	----	0.00476	"	"	"	"	"	
1,2 Diphenylhydrazine (as Azobenzene)	"	ND	----	0.00476	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	0.00476	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	0.00476	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	0.00476	"	"	"	"	"	
3,3'-Dichlorobenzidine	"	ND	----	0.00476	"	"	"	"	"	
2,4-Dichlorophenol	"	ND	----	0.00476	"	"	"	"	"	
Diethyl phthalate	"	ND	----	0.00476	"	"	"	"	"	
2,4-Dimethylphenol	"	ND	----	0.00952	"	"	"	"	"	
Dimethyl phthalate	"	ND	----	0.00476	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	"	ND	----	0.00952	"	"	"	"	"	
2,4-Dinitrophenol	"	ND	----	0.0238	"	"	"	"	"	
2,4-Dinitrotoluene	"	ND	----	0.00476	"	"	"	"	"	
2,6-Dinitrotoluene	"	ND	----	0.00476	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	"	ND	----	0.00952	"	"	"	"	"	
Fluoranthene	"	ND	----	0.00476	"	"	"	"	"	
Fluorene	"	ND	----	0.00476	"	"	"	"	"	
Hexachlorobenzene	"	ND	----	0.00476	"	"	"	"	"	
Hexachlorobutadiene	"	ND	----	0.00952	"	"	"	"	"	
Hexachlorocyclopentadiene	"	ND	----	0.00952	"	"	"	"	"	
Hexachloroethane	"	ND	----	0.00952	"	"	"	"	"	

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	06/26/07 16:27

Acid and Base/Neutral Extractables per EPA Method 625

TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQF0270-02 (07-79-CE-g)		**Water**			**Sampled: 06/07/07 07:15**					
Indeno (1,2,3-cd) pyrene	EPA 625	ND	-----	0.00476	mg/l	1x	7060409	06/11/07 14:45	06/15/07 00:03	
Isophorone	"	ND	-----	0.00476	"	"	"	"	"	
Naphthalene	"	ND	-----	0.00476	"	"	"	"	"	
Nitrobenzene	"	ND	-----	0.00476	"	"	"	"	"	
2-Nitrophenol	"	ND	-----	0.00476	"	"	"	"	"	
4-Nitrophenol	"	ND	-----	0.0238	"	"	"	"	"	
N-Nitrosodimethylamine	"	ND	-----	0.00476	"	"	"	"	"	
N-Nitrosodi-n-propylamine	"	ND	-----	0.00952	"	"	"	"	"	
N-Nitrosodiphenylamine	"	ND	-----	0.00476	"	"	"	"	"	
Pentachlorophenol	"	ND	-----	0.00952	"	"	"	"	"	
Phenanthrene	"	ND	-----	0.00476	"	"	"	"	"	
Phenol	"	ND	-----	0.00476	"	"	"	"	"	
Pyrene	"	ND	-----	0.00476	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	-----	0.00476	"	"	"	"	"	
2,4,6-Trichlorophenol	"	ND	-----	0.00476	"	"	"	"	"	
Surrogate(s): 2-Fluorobiphenyl			*86.1%*		*22 - 120 %*	"			"	
2-Fluorophenol			*66.6%*		*5 - 120 %*	"			"	
Nitrobenzene-d5			*88.7%*		*26 - 127 %*	"			"	
Phenol-d6			*79.7%*		*4 - 121 %*	"			"	
p-Terphenyl-d14			*102%*		*37 - 130 %*	"			"	
2,4,6-Tribromophenol			*86.7%*		*21 - 129 %*	"			"	
PQF0270-04 (07-81-OWW-g)		**Water**			**Sampled: 06/07/07 07:16**					
Acenaphthene	EPA 625	ND	-----	0.00490	mg/l	1x	7060597	06/14/07 17:15	06/20/07 17:15	
Acenaphthylene	"	ND	-----	0.00490	"	"	"	"	"	
Anthracene	"	ND	-----	0.0245	"	5x	"	"	06/21/07 02:03	RL1
Benzidine	"	ND	-----	0.294	"	"	"	"	"	RL1
Benzo (a) anthracene	"	ND	-----	0.0245	"	"	"	"	"	RL1
Benzo (a) pyrene	"	ND	-----	0.0245	"	"	"	"	"	RL1
Benzo (b) fluoranthene	"	ND	-----	0.0245	"	"	"	"	"	RL1
Benzo (ghi) perylene	"	ND	-----	0.0245	"	"	"	"	"	RL1
Benzo (k) fluoranthene	"	ND	-----	0.0245	"	"	"	"	"	RL1
4-Bromophenyl phenyl ether	"	ND	-----	0.0245	"	"	"	"	"	RL1
Butyl benzyl phthalate	"	ND	-----	0.0245	"	"	"	"	"	RL1
4-Chloro-3-methylphenol	"	ND	-----	0.00490	"	1x	"	"	06/20/07 17:15	
Bis(2-chloroethoxy)methane	"	ND	-----	0.00980	"	"	"	"	"	
Bis(2-chloroethyl)ether	"	ND	-----	0.00490	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	"	ND	-----	0.00980	"	"	"	"	"	
2-Chloronaphthalene	"	ND	-----	0.00490	"	"	"	"	"	
2-Chlorophenol	"	ND	-----	0.00490	"	"	"	"	"	
4-Chlorophenyl phenyl ether	"	ND	-----	0.00490	"	"	"	"	"	
Chrysene	"	ND	-----	0.0245	"	5x	"	"	06/21/07 02:03	RL1

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BEAVERTON, OR 97008-7132
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Siltronic	Project Name: **Monthly**	
7200 N.W. Front Ave	Project Number: PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager: Thomas Rothschild	06/26/07 16:27

Acid and Base/Neutral Extractables per EPA Method 625

TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQF0270-04 (07-81-OWW-g)		**Water**			**Sampled: 06/07/07 07:16**					
Di-n-butyl phthalate	EPA 625	ND	-----	0.0245	mg/l	5x	7060597	06/14/07 17:15	06/21/07 02:03	RL1
Di-n-octyl phthalate	"	ND	-----	0.0245	"	"	"	"	"	RL1
Dibenzo (a,h) anthracene	"	ND	-----	0.0245	"	"	"	"	"	RL1
1,2 Diphenylhydrazine (as Azobenzene)	"	ND	-----	0.00490	"	1x	"	"	06/20/07 17:15	
1,2-Dichlorobenzene	"	ND	-----	0.00490	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	-----	0.00490	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	-----	0.00490	"	"	"	"	"	
3,3'-Dichlorobenzidine	"	ND	-----	0.0245	"	5x	"	"	06/21/07 02:03	RL1
2,4-Dichlorophenol	"	ND	-----	0.00490	"	1x	"	"	06/20/07 17:15	
Diethyl phthalate	"	ND	-----	0.00490	"	"	"	"	"	
2,4-Dimethylphenol	"	ND	-----	0.00980	"	"	"	"	"	
Dimethyl phthalate	"	ND	-----	0.00490	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	"	ND	-----	0.0490	"	5x	"	"	06/21/07 02:03	RL1
2,4-Dinitrophenol	"	ND	-----	0.0245	"	1x	"	"	06/20/07 17:15	
2,4-Dinitrotoluene	"	ND	-----	0.00490	"	"	"	"	"	
2,6-Dinitrotoluene	"	ND	-----	0.00490	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	"	ND	-----	0.0490	"	5x	"	"	06/21/07 02:03	RL1 A-01
Fluoranthene	"	ND	-----	0.0245	"	"	"	"	"	RL1
Fluorene	"	ND	-----	0.00490	"	1x	"	"	06/20/07 17:15	
Hexachlorobenzene	"	ND	-----	0.0245	"	5x	"	"	06/21/07 02:03	RL1
Hexachlorobutadiene	"	ND	-----	0.00980	"	1x	"	"	06/20/07 17:15	
Hexachlorocyclopentadiene	"	ND	-----	0.00980	"	"	"	"	"	
Hexachloroethane	"	ND	-----	0.00980	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	-----	0.0245	"	5x	"	"	06/21/07 02:03	RL1
Isophorone	"	ND	-----	0.00490	"	1x	"	"	06/20/07 17:15	
Naphthalene	"	ND	-----	0.00490	"	"	"	"	"	
Nitrobenzene	"	ND	-----	0.00490	"	"	"	"	"	
2-Nitrophenol	"	ND	-----	0.00490	"	"	"	"	"	
4-Nitrophenol	"	ND	-----	0.0245	"	"	"	"	"	
N-Nitrosodimethylamine	"	ND	-----	0.00490	"	"	"	"	"	
N-Nitrosodi-n-propylamine	"	ND	-----	0.00980	"	"	"	"	"	
N-Nitrosodiphenylamine	"	ND	-----	0.0245	"	5x	"	"	06/21/07 02:03	RL1
Pentachlorophenol	"	ND	-----	0.0490	"	"	"	"	"	RL1
Phenanthrene	"	ND	-----	0.0245	"	"	"	"	"	RL1
Phenol	"	ND	-----	0.00490	"	1x	"	"	06/20/07 17:15	
Pyrene	"	ND	-----	0.0245	"	5x	"	"	06/21/07 02:03	RL1
1,2,4-Trichlorobenzene	"	ND	-----	0.00490	"	1x	"	"	06/20/07 17:15	
2,4,6-Trichlorophenol	"	ND	-----	0.00490	"	"	"	"	"	
Surrogate(s): 2-Fluorobiphenyl			*102%*		*22 - 120 %*	"			"	
2-Fluorophenol			*103%*		*5 - 120 %*	"			"	
Nitrobenzene-d5			*113%*		*26 - 127 %*	"			"	
Phenol-d6			*133%*		*4 - 121 %*	*5x*			*06/21/07 02:03*	*Z2*

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Brian Cone, Industrial Services Manager

SCOEPA00025007

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
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Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	06/26/07 16:27

Acid and Base/Neutral Extractables per EPA Method 625

TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQF0270-04 (07-81-QWW-g)		**Water**			**Sampled: 06/07/07 07:16**					
p-Terphenyl-d14			*146%*		*37 - 130 %*	*5x*			*06/21/07 02:03*	*Z2*
2,4,6-Tribromophenol			*119%*		*21 - 129 %*	"			"	

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Brian Cone, Industrial Services Manager

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ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	06/26/07 16:27

Conventional Chemistry Parameters per Standard Methods

TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQF0270-01 (07-78-CE-C)		**Water**			**Sampled: 06/07/07 07:15**					
Biochemical Oxygen Demand	SM 5210B	4.60	----	4.00	mg/l	1x	7060314	06/08/07 09:13	06/13/07 10:50	L1

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Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	06/26/07 16:27

General Gas Chromatography Analysis

Columbia Inspection, Inc.

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQF0270-04 (07-81-OWW-g)		**Water**			**Sampled: 06/07/07 07:16**					
ISOPROPANOL	EPA 8015M	1.1	-----	1.0	mg/L	1x	7F14014	06/14/07 13:45	06/14/07 13:53	
Surrogate(s): ETHYL ACETATE			*56.3%*		*50 - 150 %*	"			"	

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ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	06/26/07 16:27

Total Metals per EPA 200 Series Methods - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 7060613 **Water Preparation Method: EPA 200/3005**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7060613-BLK1)								Extracted: 06/14/07 11:15						
Arsenic	EPA 200.8	ND	---	0.00100	mg/l	1x	--	--	--	--	--	--	06/17/07 07:57	
Chromium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
LCS (7060613-BS1)								Extracted: 06/14/07 11:15						
Arsenic	EPA 200.8	0.0898	---	0.00100	mg/l	1x	--	0.100	89.8%	(85-115)	--	--	06/17/07 08:05	
Chromium	"	0.0994	---	0.00100	"	"	--	"	99.4%	"	--	--	"	
Duplicate (7060613-DUP1)					QC Source: PQF0215-03			Extracted: 06/14/07 11:15						
Arsenic	EPA 200.8	0.00129	---	0.00100	mg/l	1x	0.00110	--	--	--	15.9%	(20)	06/17/07 08:20	
Chromium	"	ND	---	0.00100	"	"	ND	--	--	--	1.31%	"	"	
Matrix Spike (7060613-MS1)					QC Source: PQF0221-01			Extracted: 06/14/07 11:15						
Arsenic	EPA 200.8	0.106	---	0.00100	mg/l	1x	0.00694	0.100	99.1%	(70-130)	--	--	06/17/07 08:43	
Chromium	"	0.131	---	0.00100	"	"	0.0297	"	101%	(75-125)	--	--	"	
Matrix Spike (7060613-MS2)					QC Source: PQF0230-01			Extracted: 06/14/07 11:15						
Arsenic	EPA 200.8	0.0991	---	0.00100	mg/l	1x	0.00119	0.100	97.9%	(70-130)	--	--	06/17/07 08:58	
Chromium	"	0.101	---	0.00100	"	"	0.000250	"	101%	(75-125)	--	--	"	

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Brian Cone, Industrial Services Manager

SCOEPA00025011

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BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	06/26/07 16:27

Organochlorine Pesticides and PCBs per EPA Method 608 - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 7060322 **Water Preparation Method: EPA 3510/600 Series**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7060322-BLK1)								Extracted: 06/08/07 11:45						
Aldrin	EPA 608	ND	---	0.000100	mg/l	1x	--	--	--	--	--	--	06/12/07 11:56	
alpha-BHC	"	ND	---	0.000100	"	"	--	--	--	--	--	--	"	
beta-BHC	"	ND	---	0.000100	"	"	--	--	--	--	--	--	"	
delta-BHC	"	ND	---	0.000100	"	"	--	--	--	--	--	--	"	
gamma-BHC (Lindane)	"	ND	---	0.000100	"	"	--	--	--	--	--	--	"	
Chlordane (tech)	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
alpha-Chlordane	"	ND	---	0.000100	"	"	--	--	--	--	--	--	"	
gamma-Chlordane	"	ND	---	0.000100	"	"	--	--	--	--	--	--	"	
4,4'-DDD	"	ND	---	0.000100	"	"	--	--	--	--	--	--	"	
4,4'-DDE	"	ND	---	0.000100	"	"	--	--	--	--	--	--	"	
4,4'-DDT	"	ND	---	0.000100	"	"	--	--	--	--	--	--	"	
Dieldrin	"	ND	---	0.000100	"	"	--	--	--	--	--	--	"	
Endosulfan I	"	ND	---	0.000100	"	"	--	--	--	--	--	--	"	
Endosulfan II	"	ND	---	0.000100	"	"	--	--	--	--	--	--	"	
Endosulfan sulfate	"	ND	---	0.000100	"	"	--	--	--	--	--	--	"	
Endrin	"	ND	---	0.000100	"	"	--	--	--	--	--	--	"	
Endrin aldehyde	"	ND	---	0.000100	"	"	--	--	--	--	--	--	"	
Heptachlor	"	ND	---	0.000100	"	"	--	--	--	--	--	--	"	
Heptachlor epoxide	"	ND	---	0.000100	"	"	--	--	--	--	--	--	"	
Methoxychlor	"	ND	---	0.000100	"	"	--	--	--	--	--	--	"	
Toxaphene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Aroclor 1221	"	ND	---	0.00100	"	"	--	--	--	--	--	--	06/12/07 01:39	
Aroclor 1232	"	ND	---	0.000500	"	"	--	--	--	--	--	--	"	
Aroclor 1242	"	ND	---	0.000500	"	"	--	--	--	--	--	--	"	
Aroclor 1248	"	ND	---	0.000500	"	"	--	--	--	--	--	--	"	
Aroclor 1254	"	ND	---	0.000500	"	"	--	--	--	--	--	--	"	
Aroclor 1260	"	ND	---	0.000500	"	"	--	--	--	--	--	--	"	
Surrogate(s): 2,4,5,6-Tetrachloro-m-xylene		*Recovery: 89.0%*			*Limits: 16-137%*	"							*06/12/07 11:56*	
Decachlorobiphenyl		*86.2%*			*12-130%*	"							*06/12/07 01:39*	

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Brian Cone, Industrial Services Manager

SCOEPA00025012

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BEAVERTON, OR 97008-7132
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Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	06/26/07 16:27

Organochlorine Pesticides and PCBs per EPA Method 608 - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 7060322 **Water Preparation Method: EPA 3510/600 Series**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (7060322-BS1)								Extracted: 06/08/07 11:45						
Aldrin	EPA 608	0.000473	---	0.000100	mg/l	1x	--	0.000500	94.6%	(42-122)	--	--	06/12/07 12:17	
gamma-BHC (Lindane)	"	0.000469	---	0.000100	"	"	--	"	93.8%	(32-127)	--	--	"	
4,4'-DDT	"	0.000476	---	0.000100	"	"	--	"	95.2%	(25-160)	--	--	"	
Dieldrin	"	0.000473	---	0.000100	"	"	--	"	94.6%	(36-146)	--	--	"	
Endrin	"	0.000475	---	0.000100	"	"	--	"	95.0%	(30-147)	--	--	"	
Heptachlor	"	0.000467	---	0.000100	"	"	--	"	93.4%	(34-111)	--	--	"	
Surrogate(s): 2,4,5,6-Tetrachloro-m-xylene		*Recovery: 84.8%*			*Limits: 16-137%*	"							*06/12/07 12:17*	
LCS (7060322-BS2)								Extracted: 06/08/07 11:45						
Aroclor 1016	EPA 608	0.00497	---	0.000500	mg/l	1x	--	0.00500	99.4%	(50-114)	--	--	06/12/07 02:01	
Aroclor 1260	"	0.00466	---	0.000500	"	"	--	"	93.2%	(8-127)	--	--	"	
Surrogate(s): Decachlorobiphenyl		*Recovery: 87.8%*			*Limits: 12-130%*	"							*06/12/07 02:01*	
LCS Dup (7060322-BSD1)								Extracted: 06/08/07 11:45						
Aldrin	EPA 608	0.000454	---	0.000100	mg/l	1x	--	0.000500	90.8%	(42-122)	4.10%	(22)	06/12/07 12:39	
gamma-BHC (Lindane)	"	0.000457	---	0.000100	"	"	--	"	91.4%	(32-127)	2.59%	"	"	
4,4'-DDT	"	0.000456	---	0.000100	"	"	--	"	91.2%	(25-160)	4.29%	"	"	
Dieldrin	"	0.000451	---	0.000100	"	"	--	"	90.2%	(36-146)	4.76%	"	"	
Endrin	"	0.000462	---	0.000100	"	"	--	"	92.4%	(30-147)	2.77%	"	"	
Heptachlor	"	0.000462	---	0.000100	"	"	--	"	92.4%	(34-111)	1.08%	"	"	
Surrogate(s): 2,4,5,6-Tetrachloro-m-xylene		*Recovery: 79.2%*			*Limits: 16-137%*	"							*06/12/07 12:39*	

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Brian Cone, Industrial Services Manager

SCOEPA00025013

TestAmerica
ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
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Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	06/26/07 16:27

Purgeables per EPA Method 624 Modified - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 7060391 **Water Preparation Method: EPA 5030B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7060391-BLK1)													Extracted: 06/11/07 07:27	
Benzene	EPA 624	ND	---	0.00100	mg/l	1x	--	--	--	--	--	--	06/11/07 10:14	
Bromodichloromethane	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	L
Chloroethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	L
1,4-Dichlorobenzene	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	L
1,1-Dichloroethane	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	L
Toluene	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Surrogate(s):	*4-BFB*	*Recovery:*	*103%*		*Limits:*	*75-120%*	"						*06/11/07 10:14*	
	1,2-DCA-d4		*102%*			*77-129%*	"						"	
	Dibromofluoromethane		*110%*			*80-121%*	"						"	
	Toluene-d8		*104%*			*80-120%*	"						"	

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Brian Cone, Industrial Services Manager

SCOEPA00025014

TestAmerica
ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
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Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	06/26/07 16:27

Purgeables per EPA Method 624 Modified - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 7060391 **Water Preparation Method: EPA 5030B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (7060391-BS1)								Extracted: 06/11/07 07:27						
Benzene	EPA 624	0.0223	---	0.00100	mg/l	1x	--	0.0200	112%	(80-120)	--	--	06/11/07 08:26	
Bromodichloromethane	"	0.0230	---	0.00100	"	"	--	"	115%	(84-127)	--	--	"	
Bromoform	"	0.0190	---	0.00100	"	"	--	"	95.0%	(55-134)	--	--	"	
Bromomethane	"	0.0253	---	0.00500	"	"	--	"	126%	(38-150)	--	--	"	
Carbon tetrachloride	"	0.0210	---	0.00100	"	"	--	"	105%	(73-134)	--	--	"	
Chlorobenzene	"	0.0253	---	0.00100	"	"	--	"	126%	(80-124)	--	--	"	L
Chloroethane	"	0.0214	---	0.00500	"	"	--	"	107%	(79-124)	--	--	"	
Chloroform	"	0.0228	---	0.00100	"	"	--	"	114%	(80-120)	--	--	"	
Chloromethane	"	0.0184	---	0.00500	"	"	--	"	92.0%	(47-146)	--	--	"	
Dibromochloromethane	"	0.0205	---	0.00100	"	"	--	"	102%	(69-138)	--	--	"	
1,2-Dichlorobenzene	"	0.0215	---	0.00100	"	"	--	"	108%	(80-113)	--	--	"	
1,3-Dichlorobenzene	"	0.0260	---	0.00100	"	"	--	"	130%	(76-123)	--	--	"	L
1,4-Dichlorobenzene	"	0.0249	---	0.00100	"	"	--	"	124%	(73-120)	--	--	"	L
1,1-Dichloroethane	"	0.0207	---	0.00100	"	"	--	"	104%	(80-120)	--	--	"	
1,2-Dichloroethane	"	0.0224	---	0.00100	"	"	--	"	112%	(75-135)	--	--	"	
1,1-Dichloroethene	"	0.0207	---	0.00100	"	"	--	"	104%	(78-120)	--	--	"	
trans-1,2-Dichloroethene	"	0.0222	---	0.00100	"	"	--	"	111%	(80-120)	--	--	"	
1,2-Dichloropropane	"	0.0212	---	0.00100	"	"	--	"	106%	(80-126)	--	--	"	
cis-1,3-Dichloropropene	"	0.0224	---	0.00100	"	"	--	"	112%	(80-125)	--	--	"	
trans-1,3-Dichloropropene	"	0.0192	---	0.00100	"	"	--	"	96.0%	(80-130)	--	--	"	
Ethylbenzene	"	0.0243	---	0.00100	"	"	--	"	122%	"	--	--	"	
Methylene chloride	"	0.0221	---	0.00500	"	"	--	"	110%	(80-120)	--	--	"	
1,1,2,2-Tetrachloroethane	"	0.0229	---	0.00100	"	"	--	"	114%	(77-128)	--	--	"	
Tetrachloroethene	"	0.0258	---	0.00100	"	"	--	"	129%	(80-124)	--	--	"	L
Toluene	"	0.0238	---	0.00100	"	"	--	"	119%	(80-125)	--	--	"	
1,1,1-Trichloroethane	"	0.0219	---	0.00100	"	"	--	"	110%	(76-132)	--	--	"	
1,1,2-Trichloroethane	"	0.0230	---	0.00100	"	"	--	"	115%	(80-123)	--	--	"	
Trichloroethene	"	0.0221	---	0.00100	"	"	--	"	110%	(80-132)	--	--	"	
Trichlorofluoromethane	"	0.0222	---	0.00100	"	"	--	"	111%	(77-137)	--	--	"	
Vinyl chloride	"	0.0214	---	0.00100	"	"	--	"	107%	(76-133)	--	--	"	
Xylenes (total)	"	0.0761	---	0.00200	"	"	--	0.0600	127%	(80-130)	--	--	"	
Surrogate(s): 4-BFB		*Recovery: 118%*			*Limits: 75-120%*	"							*06/11/07 08:26*	
1,2-DCA-d4		*104%*			*77-129%*	"							"	
Dibromofluoromethane		*113%*			*80-121%*	"							"	
Toluene-d8		*116%*			*80-120%*	"							"	

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Brian Cone, Industrial Services Manager

SCOEPA00025015

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ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	06/26/07 16:27

Purgeables per EPA Method 624 Modified - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 7060391 **Water Preparation Method: EPA 5030B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike (7060391-MS1)				QC Source: PQF0247-01				Extracted: 06/11/07 07:27						
Benzene	EPA 624	0.0192	---	0.00100	mg/l	1x	ND	0.0200	96.0%	(80-125)	--	--	06/11/07 08:53	
Bromodichloromethane	"	0.0204	---	0.00100	"	"	ND	"	102%	(80-135)	--	--	"	
Bromoform	"	0.0169	---	0.00100	"	"	ND	"	84.5%	(69-151)	--	--	"	
Bromomethane	"	0.0212	---	0.00500	"	"	ND	"	106%	(31-155)	--	--	"	
Carbon tetrachloride	"	0.0192	---	0.00100	"	"	ND	"	96.0%	(79-129)	--	--	"	
Chlorobenzene	"	0.0220	---	0.00100	"	"	ND	"	110%	(73-134)	--	--	"	
Chloroethane	"	0.0191	---	0.00500	"	"	ND	"	95.5%	(79-126)	--	--	"	
Chloroform	"	0.0194	---	0.00100	"	"	ND	"	97.0%	(80-124)	--	--	"	
Chloromethane	"	0.0168	---	0.00500	"	"	ND	"	84.0%	(40-150)	--	--	"	
Dibromochloromethane	"	0.0184	---	0.00100	"	"	ND	"	92.0%	(80-129)	--	--	"	
1,2-Dichlorobenzene	"	0.0181	---	0.00100	"	"	ND	"	90.5%	(80-120)	--	--	"	
1,3-Dichlorobenzene	"	0.0223	---	0.00100	"	"	ND	"	112%	(80-122)	--	--	"	
1,4-Dichlorobenzene	"	0.0216	---	0.00100	"	"	ND	"	108%	(80-120)	--	--	"	
1,1-Dichloroethane	"	0.0181	---	0.00100	"	"	ND	"	90.5%	(80-123)	--	--	"	
1,2-Dichloroethane	"	0.0192	---	0.00100	"	"	ND	"	96.0%	(79-130)	--	--	"	
1,1-Dichloroethene	"	0.0196	---	0.00100	"	"	ND	"	98.0%	(79-127)	--	--	"	
trans-1,2-Dichloroethene	"	0.0192	---	0.00100	"	"	ND	"	96.0%	(80-120)	--	--	"	
1,2-Dichloropropane	"	0.0186	---	0.00100	"	"	ND	"	93.0%	"	--	--	"	
cis-1,3-Dichloropropene	"	0.0201	---	0.00100	"	"	ND	"	100%	(80-130)	--	--	"	
trans-1,3-Dichloropropene	"	0.0174	---	0.00100	"	"	ND	"	87.0%	(80-135)	--	--	"	
Ethylbenzene	"	0.0208	---	0.00100	"	"	ND	"	104%	(80-125)	--	--	"	
Methylene chloride	"	0.0193	---	0.00500	"	"	ND	"	96.5%	(80-120)	--	--	"	
1,1,2,2-Tetrachloroethane	"	0.0202	---	0.00100	"	"	ND	"	101%	(79-146)	--	--	"	
Tetrachloroethene	"	0.0222	---	0.00100	"	"	ND	"	111%	(80-125)	--	--	"	
Toluene	"	0.0210	---	0.00100	"	"	0.000410	"	103%	(65-135)	--	--	"	
1,1,1-Trichloroethane	"	0.0195	---	0.00100	"	"	ND	"	97.5%	(80-127)	--	--	"	
1,1,2-Trichloroethane	"	0.0200	---	0.00100	"	"	ND	"	100%	(80-130)	--	--	"	
Trichloroethene	"	0.0193	---	0.00100	"	"	ND	"	96.5%	(68-130)	--	--	"	
Trichlorofluoromethane	"	0.0198	---	0.00100	"	"	ND	"	99.0%	(79-129)	--	--	"	
Vinyl chloride	"	0.0196	---	0.00100	"	"	ND	"	98.0%	(73-132)	--	--	"	
Xylenes (total)	"	0.0658	---	0.00200	"	"	ND	0.0600	110%	(70-130)	--	--	"	
Surrogate(s):	*4-BFB*	*Recovery:*	*109%*	*Limits:*	*75-120%*	"							*06/11/07 08:53*	
	1,2-DCA-d4		*97.5%*		*77-129%*	"							"	
	Dibromofluoromethane		*105%*		*80-121%*	"							"	
	Toluene-d8		*108%*		*80-120%*	"							"	

TestAmerica - Portland, OR

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Brian Cone, Industrial Services Manager

SCOEPA00025016

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ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	06/26/07 16:27

Purgeables per EPA Method 624 Modified - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 7060391 **Water Preparation Method: EPA 5030B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike Dup (7060391-MSD1)				QC Source: PQF0247-01				Extracted: 06/11/07 07:27						
Benzene	EPA 624	0.0184	---	0.00100	mg/l	1x	ND	0.0200	92.0%	(80-125)	4.26%	(25)	06/11/07 09:20	
Bromodichloromethane	"	0.0201	---	0.00100	"	"	ND	"	100%	(80-135)	1.48%	"	"	
Bromoform	"	0.0175	---	0.00100	"	"	ND	"	87.5%	(69-151)	3.49%	"	"	
Bromomethane	"	0.0191	---	0.00500	"	"	ND	"	95.5%	(31-155)	10.4%	"	"	
Carbon tetrachloride	"	0.0187	---	0.00100	"	"	ND	"	93.5%	(79-129)	2.64%	"	"	
Chlorobenzene	"	0.0206	---	0.00100	"	"	ND	"	103%	(73-134)	6.57%	"	"	
Chloroethane	"	0.0176	---	0.00500	"	"	ND	"	88.0%	(79-126)	8.17%	"	"	
Chloroform	"	0.0191	---	0.00100	"	"	ND	"	95.5%	(80-124)	1.56%	"	"	
Chloromethane	"	0.0154	---	0.00500	"	"	ND	"	77.0%	(40-150)	8.70%	"	"	
Dibromochloromethane	"	0.0183	---	0.00100	"	"	ND	"	91.5%	(80-129)	0.545%	"	"	
1,2-Dichlorobenzene	"	0.0175	---	0.00100	"	"	ND	"	87.5%	(80-120)	3.37%	"	"	
1,3-Dichlorobenzene	"	0.0212	---	0.00100	"	"	ND	"	106%	(80-122)	5.06%	"	"	
1,4-Dichlorobenzene	"	0.0206	---	0.00100	"	"	ND	"	103%	(80-120)	4.74%	"	"	
1,1-Dichloroethane	"	0.0173	---	0.00100	"	"	ND	"	86.5%	(80-123)	4.52%	"	"	
1,2-Dichloroethane	"	0.0192	---	0.00100	"	"	ND	"	96.0%	(79-130)	0.00%	"	"	
1,1-Dichloroethene	"	0.0185	---	0.00100	"	"	ND	"	92.5%	(79-127)	5.77%	"	"	
trans-1,2-Dichloroethene	"	0.0190	---	0.00100	"	"	ND	"	95.0%	(80-120)	1.05%	"	"	
1,2-Dichloropropane	"	0.0178	---	0.00100	"	"	ND	"	89.0%	"	4.40%	"	"	
cis-1,3-Dichloropropene	"	0.0196	---	0.00100	"	"	ND	"	98.0%	(80-130)	2.52%	"	"	
trans-1,3-Dichloropropene	"	0.0172	---	0.00100	"	"	ND	"	86.0%	(80-135)	1.16%	"	"	
Ethylbenzene	"	0.0198	---	0.00100	"	"	ND	"	99.0%	(80-125)	4.93%	"	"	
Methylene chloride	"	0.0181	---	0.00500	"	"	ND	"	90.5%	(80-120)	6.42%	"	"	
1,1,2,2-Tetrachloroethane	"	0.0204	---	0.00100	"	"	ND	"	102%	(79-146)	0.985%	"	"	
Tetrachloroethene	"	0.0206	---	0.00100	"	"	ND	"	103%	(80-125)	7.48%	"	"	
Toluene	"	0.0196	---	0.00100	"	"	0.000410	"	96.0%	(65-135)	6.90%	"	"	
1,1,1-Trichloroethane	"	0.0190	---	0.00100	"	"	ND	"	95.0%	(80-127)	2.60%	"	"	
1,1,2-Trichloroethane	"	0.0196	---	0.00100	"	"	ND	"	98.0%	(80-130)	2.02%	"	"	
Trichloroethene	"	0.0184	---	0.00100	"	"	ND	"	92.0%	(68-130)	4.77%	"	"	
Trichlorofluoromethane	"	0.0182	---	0.00100	"	"	ND	"	91.0%	(79-129)	8.42%	"	"	
Vinyl chloride	"	0.0178	---	0.00100	"	"	ND	"	89.0%	(73-132)	9.63%	"	"	
Xylenes (total)	"	0.0622	---	0.00200	"	"	ND	0.0600	104%	(70-130)	5.63%	"	"	
Surrogate(s):	*4-BFB*	*Recovery:*	*109%*	*Limits:*	*75-120%*	"							*06/11/07 09:20*	
	1,2-DCA-d4		*101%*		*77-129%*	"							"	
	Dibromofluoromethane		*108%*		*80-121%*	"							"	
	Toluene-d8		*108%*		*80-120%*	"							"	

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Brian Cone, Industrial Services Manager

SCOEPA00025017

TestAmerica
ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	06/26/07 16:27

Acid and Base/Neutral Extractables per EPA Method 625 - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 7060409 **Water Preparation Method: 3520B Liq-Liq**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7060409-BLK1)							Extracted: 06/11/07 14:45							
Acenaphthene	EPA 625	ND	---	0.00500	mg/l	1x	--	--	--	--	--	--	06/14/07 21:42	
Acenaphthylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Anthracene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Benzidine	"	ND	---	0.0600	"	"	--	--	--	--	--	--	"	C
Benzo (a) anthracene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Benzo (a) pyrene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Benzo (b) fluoranthene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Benzo (ghi) perylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Benzo (k) fluoranthene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
4-Bromophenyl phenyl ether	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Butyl benzyl phthalate	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
4-Chloro-3-methylphenol	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bis(2-chloroethoxy)methane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Bis(2-chloroethyl)ether	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bis(2-chloroisopropyl)ether	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
2-Chloronaphthalene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
2-Chlorophenol	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
4-Chlorophenyl phenyl ether	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Chrysene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Di-n-butyl phthalate	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Di-n-octyl phthalate	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Dibenzo (a,h) anthracene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2 Diphenylhydrazine (as Azobenzene)	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
3,3'-Dichlorobenzidine	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
2,4-Dichlorophenol	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Diethyl phthalate	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
2,4-Dimethylphenol	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Dimethyl phthalate	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
4,6-Dinitro-2-methylphenol	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
2,4-Dinitrophenol	"	ND	---	0.0250	"	"	--	--	--	--	--	--	"	
2,4-Dinitrotoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
2,6-Dinitrotoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bis(2-ethylhexyl)phthalate	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Fluoranthene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Fluorene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Hexachlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	

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Brian Cone, Industrial Services Manager

SCOEPA00025018

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ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	06/26/07 16:27

Acid and Base/Neutral Extractables per EPA Method 625 - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 7060409 **Water Preparation Method: 3520B Liq-Liq**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7060409-BLK1)							Extracted: 06/11/07 14:45							
Hexachlorobutadiene	EPA 625	ND	---	0.0100	mg/l	1x	--	--	--	--	--	--	06/14/07 21:42	
Hexachlorocyclopentadiene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Hexachloroethane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Indeno (1,2,3-cd) pyrene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Isophorone	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Nitrobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
2-Nitrophenol	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
4-Nitrophenol	"	ND	---	0.0250	"	"	--	--	--	--	--	--	"	
N-Nitrosodimethylamine	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
N-Nitrosodi-n-propylamine	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
N-Nitrosodiphenylamine	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Pentachlorophenol	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Phenanthrene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Phenol	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Pyrene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
2,4,6-Trichlorophenol	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Surrogate(s): 2-Fluorobiphenyl		*Recovery: 80.1%*			*Limits: 22-120%*	"							*06/14/07 21:42*	
2-Fluorophenol		*76.7%*			*5-120%*	"							"	
Nitrobenzene-d5		*94.1%*			*26-127%*	"							"	
Phenol-d6		*90.0%*			*4-121%*	"							"	
p-Terphenyl-d14		*94.3%*			*37-130%*	"							"	
2,4,6-Tribromophenol		*91.3%*			*21-129%*	"							"	
LCS (7060409-BS1)							Extracted: 06/11/07 14:45							
Acenaphthene	EPA 625	0.0486	---	0.00500	mg/l	1x	--	0.0500	97.2%	(45-145)	--	--	06/14/07 19:20	
Acenaphthylene	"	0.0433	---	0.00500	"	"	--	"	86.6%	(30-145)	--	--	"	
Anthracene	"	0.0489	---	0.00500	"	"	--	"	97.8%	(25-135)	--	--	"	
Benzidine	"	0.0476	---	0.0600	"	"	--	0.0400	119%	(0-169)	--	--	"	C8, L6
Benzo (a) anthracene	"	0.0473	---	0.00500	"	"	--	0.0500	94.6%	(30-145)	--	--	"	
Benzo (a) pyrene	"	0.0480	---	0.00500	"	"	--	"	96.0%	(15-150)	--	--	"	
Benzo (b) fluoranthene	"	0.0478	---	0.00500	"	"	--	"	95.6%	(20-150)	--	--	"	
Benzo (ghi) perylene	"	0.0441	---	0.00500	"	"	--	"	88.2%	(10-150)	--	--	"	
Benzo (k) fluoranthene	"	0.0484	---	0.00500	"	"	--	"	96.8%	"	--	--	"	
4-Bromophenyl phenyl ether	"	0.0457	---	0.00500	"	"	--	"	91.4%	(50-130)	--	--	"	
Butyl benzyl phthalate	"	0.0478	---	0.00500	"	"	--	"	95.6%	(10-150)	--	--	"	
4-Chloro-3-methylphenol	"	0.0474	---	0.00500	"	"	--	"	94.8%	(20-150)	--	--	"	
Bis(2-chloroethoxy)methane	"	0.0485	---	0.0100	"	"	--	"	97.0%	(30-150)	--	--	"	
Bis(2-chloroethyl)ether	"	0.0492	---	0.00500	"	"	--	"	98.4%	(10-150)	--	--	"	

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Brian Cone, Industrial Services Manager

SCOEPA00025019

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ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	06/26/07 16:27

Acid and Base/Neutral Extractables per EPA Method 625 - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 7060409 **Water Preparation Method: 3520B Liq-Liq**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (7060409-BS1)									Extracted: 06/11/07 14:45					
Bis(2-chloroisopropyl)ether	EPA 625	0.0491	---	0.0100	mg/l	1x	--	0.0500	98.2%	(35-150)	--	--	06/14/07 19:20	
2-Chloronaphthalene	"	0.0449	---	0.00500	"	"	--	"	89.8%	(60-120)	--	--	"	
2-Chlorophenol	"	0.0523	---	0.00500	"	"	--	"	105%	(20-135)	--	--	"	
4-Chlorophenyl phenyl ether	"	0.0464	---	0.00500	"	"	--	"	92.8%	(25-150)	--	--	"	
Chrysene	"	0.0489	---	0.00500	"	"	--	"	97.8%	(15-150)	--	--	"	
Di-n-butyl phthalate	"	0.0467	---	0.00500	"	"	--	"	93.4%	(10-120)	--	--	"	
Di-n-octyl phthalate	"	0.0502	---	0.00500	"	"	--	"	100%	(10-150)	--	--	"	
Dibenzo (a,h) anthracene	"	0.0444	---	0.00500	"	"	--	"	88.8%	"	--	--	"	
1,2 Diphenylhydrazine (as Azobenzene)	"	0.0511	---	0.00500	"	"	--	"	102%	"	--	--	"	
1,2-Dichlorobenzene	"	0.0484	---	0.00500	"	"	--	"	96.8%	(10-130)	--	--	"	
1,3-Dichlorobenzene	"	0.0476	---	0.00500	"	"	--	"	95.2%	(10-150)	--	--	"	
1,4-Dichlorobenzene	"	0.0489	---	0.00500	"	"	--	"	97.8%	(10-125)	--	--	"	
3,3'-Dichlorobenzidine	"	0.0527	---	0.00500	"	"	--	0.0400	132%	(10-150)	--	--	"	
2,4-Dichlorophenol	"	0.0521	---	0.00500	"	"	--	0.0500	104%	(35-135)	--	--	"	
Diethyl phthalate	"	0.0448	---	0.00500	"	"	--	"	89.6%	(10-115)	--	--	"	
2,4-Dimethylphenol	"	0.0271	---	0.0100	"	"	--	"	54.2%	(30-120)	--	--	"	
Dimethyl phthalate	"	0.0457	---	0.00500	"	"	--	"	91.4%	(10-115)	--	--	"	
4,6-Dinitro-2-methylphenol	"	0.0528	---	0.0100	"	"	--	"	106%	(10-150)	--	--	"	
2,4-Dinitrophenol	"	0.0489	---	0.0250	"	"	--	"	97.8%	"	--	--	"	
2,4-Dinitrotoluene	"	0.0449	---	0.00500	"	"	--	"	89.8%	(35-140)	--	--	"	
2,6-Dinitrotoluene	"	0.0457	---	0.00500	"	"	--	"	91.4%	(50-150)	--	--	"	
Bis(2-ethylhexyl)phthalate	"	0.0476	---	0.0100	"	"	--	"	95.2%	(10-150)	--	--	"	
Fluoranthene	"	0.0471	---	0.00500	"	"	--	"	94.2%	(25-140)	--	--	"	
Fluorene	"	0.0480	---	0.00500	"	"	--	"	96.0%	(55-125)	--	--	"	
Hexachlorobenzene	"	0.0485	---	0.00500	"	"	--	"	97.0%	(10-150)	--	--	"	
Hexachlorobutadiene	"	0.0462	---	0.0100	"	"	--	"	92.4%	(10-120)	--	--	"	
Hexachlorocyclopentadiene	"	0.0240	---	0.0100	"	"	--	"	48.0%	(10-150)	--	--	"	
Hexachloroethane	"	0.0502	---	0.0100	"	"	--	"	100%	(10-115)	--	--	"	
Indeno (1,2,3-cd) pyrene	"	0.0443	---	0.00500	"	"	--	"	88.6%	(10-150)	--	--	"	
Isophorone	"	0.0470	---	0.00500	"	"	--	"	94.0%	(20-150)	--	--	"	
Naphthalene	"	0.0472	---	0.00500	"	"	--	"	94.4%	(20-135)	--	--	"	
Nitrobenzene	"	0.0468	---	0.00500	"	"	--	"	93.6%	(35-150)	--	--	"	
2-Nitrophenol	"	0.0488	---	0.00500	"	"	--	"	97.6%	(25-150)	--	--	"	
4-Nitrophenol	"	0.0439	---	0.0250	"	"	--	"	87.8%	(10-135)	--	--	"	
N-Nitrosodimethylamine	"	0.0377	---	0.00500	"	"	--	"	75.4%	(10-150)	--	--	"	
N-Nitrosodi-n-propylamine	"	0.0476	---	0.0100	"	"	--	"	95.2%	"	--	--	"	
N-Nitrosodiphenylamine	"	0.0518	---	0.00500	"	"	--	"	104%	"	--	--	"	
Pentachlorophenol	"	0.0569	---	0.0100	"	"	--	"	114%	"	--	--	"	
Phenanthrene	"	0.0482	---	0.00500	"	"	--	"	96.4%	(50-120)	--	--	"	

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Brian Cone, Industrial Services Manager

SCOEPA00025020

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ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name: **Monthly**	
7200 N.W. Front Ave	Project Number: PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager: Thomas Rothschild	06/26/07 16:27

Acid and Base/Neutral Extractables per EPA Method 625 - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 7060409 **Water Preparation Method: 3520B Liq-Liq**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (7060409-BS1)								**Extracted: 06/11/07 14:45**						
Phenol	EPA 625	0.0546	---	0.00500	mg/l	1x	--	0.0500	109%	(10-115)	--	--	06/14/07 19:20	
Pyrene	"	0.0493	---	0.00500	"	"	--	"	98.6%	(50-125)	--	--	"	
1,2,4-Trichlorobenzene	"	0.0452	---	0.00500	"	"	--	"	90.4%	(10-145)	--	--	"	
2,4,6-Trichlorophenol	"	0.0489	---	0.00500	"	"	--	"	97.8%	(35-145)	--	--	"	
Surrogate(s): 2-Fluorobiphenyl		*Recovery: 89.6%*			*Limits: 22-120%*	"							*06/14/07 19:20*	
2-Fluorophenol		*82.0%*			*5-120%*	"							"	
Nitrobenzene-d5		*98.3%*			*26-127%*	"							"	
Phenol-d6		*89.3%*			*4-121%*	"							"	
p-Terphenyl-d14		*102%*			*37-130%*	"							"	
2,4,6-Tribromophenol		*100%*			*21-129%*	"							"	
LCS Dup (7060409-BSD1)								**Extracted: 06/11/07 14:45**						
Acenaphthene	EPA 625	0.0481	---	0.00500	mg/l	1x	--	0.0500	96.2%	(45-145)	1.03%	(50)	06/14/07 20:05	
Acenaphthylene	"	0.0438	---	0.00500	"	"	--	"	87.6%	(30-145)	1.15%	"	"	
Anthracene	"	0.0479	---	0.00500	"	"	--	"	95.8%	(25-135)	2.07%	"	"	
Benzidine	"	0.0535	---	0.0600	"	"	--	0.0400	134%	(0-169)	11.7%	"	"	C8, L6
Benzo (a) anthracene	"	0.0474	---	0.00500	"	"	--	0.0500	94.8%	(30-145)	0.211%	"	"	
Benzo (a) pyrene	"	0.0472	---	0.00500	"	"	--	"	94.4%	(15-150)	1.68%	"	"	
Benzo (b) fluoranthene	"	0.0480	---	0.00500	"	"	--	"	96.0%	(20-150)	0.418%	"	"	
Benzo (ghi) perylene	"	0.0463	---	0.00500	"	"	--	"	92.6%	(10-150)	4.87%	"	"	
Benzo (k) fluoranthene	"	0.0482	---	0.00500	"	"	--	"	96.4%	"	0.414%	"	"	
4-Bromophenyl phenyl ether	"	0.0452	---	0.00500	"	"	--	"	90.4%	(50-130)	1.10%	"	"	
Butyl benzyl phthalate	"	0.0464	---	0.00500	"	"	--	"	92.8%	(10-150)	2.97%	"	"	
4-Chloro-3-methylphenol	"	0.0468	---	0.00500	"	"	--	"	93.6%	(20-150)	1.27%	"	"	
Bis(2-chloroethoxy)methane	"	0.0455	---	0.0100	"	"	--	"	91.0%	(30-150)	6.38%	"	"	
Bis(2-chloroethyl)ether	"	0.0476	---	0.00500	"	"	--	"	95.2%	(10-150)	3.31%	"	"	
Bis(2-chloroisopropyl)ether	"	0.0478	---	0.0100	"	"	--	"	95.6%	(35-150)	2.68%	"	"	
2-Chloronaphthalene	"	0.0456	---	0.00500	"	"	--	"	91.2%	(60-120)	1.55%	"	"	
2-Chlorophenol	"	0.0499	---	0.00500	"	"	--	"	99.8%	(20-135)	4.70%	"	"	
4-Chlorophenyl phenyl ether	"	0.0448	---	0.00500	"	"	--	"	89.6%	(25-150)	3.51%	"	"	
Chrysene	"	0.0474	---	0.00500	"	"	--	"	94.8%	(15-150)	3.12%	"	"	
Di-n-butyl phthalate	"	0.0466	---	0.00500	"	"	--	"	93.2%	(10-120)	0.214%	"	"	
Di-n-octyl phthalate	"	0.0487	---	0.00500	"	"	--	"	97.4%	(10-150)	3.03%	"	"	
Dibenzo (a,h) anthracene	"	0.0445	---	0.00500	"	"	--	"	89.0%	"	0.225%	"	"	
1,2 Diphenylhydrazine (as Azobenzene)	"	0.0523	---	0.00500	"	"	--	"	105%	"	2.32%	"	"	
1,2-Dichlorobenzene	"	0.0472	---	0.00500	"	"	--	"	94.4%	(10-130)	2.51%	"	"	
1,3-Dichlorobenzene	"	0.0455	---	0.00500	"	"	--	"	91.0%	(10-150)	4.51%	"	"	
1,4-Dichlorobenzene	"	0.0464	---	0.00500	"	"	--	"	92.8%	(10-125)	5.25%	"	"	
3,3'-Dichlorobenzidine	"	0.0517	---	0.00500	"	"	--	0.0400	129%	(10-150)	1.92%	"	"	
2,4-Dichlorophenol	"	0.0493	---	0.00500	"	"	--	0.0500	98.6%	(35-135)	5.52%	"	"	

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Brian Cone, Industrial Services Manager

SCOEPA00025021

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ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	06/26/07 16:27

Acid and Base/Neutral Extractables per EPA Method 625 - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 7060409 **Water Preparation Method: 3520B Liq-Liq**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS Dup (7060409-BSD1)								Extracted: 06/11/07 14:45						
Diethyl phthalate	EPA 625	0.0451	---	0.00500	mg/l	1x	--	0.0500	90.2%	(10-115)	0.667%	(50)	06/14/07 20:05	
2,4-Dimethylphenol	"	0.0320	---	0.0100	"	"	--	"	64.0%	(30-120)	16.6%	"	"	
Dimethyl phthalate	"	0.0448	---	0.00500	"	"	--	"	89.6%	(10-115)	1.99%	"	"	
4,6-Dinitro-2-methylphenol	"	0.0509	---	0.0100	"	"	--	"	102%	(10-150)	3.66%	"	"	
2,4-Dinitrophenol	"	0.0454	---	0.0250	"	"	--	"	90.8%	"	7.42%	"	"	
2,4-Dinitrotoluene	"	0.0450	---	0.00500	"	"	--	"	90.0%	(35-140)	0.222%	"	"	
2,6-Dinitrotoluene	"	0.0469	---	0.00500	"	"	--	"	93.8%	(50-150)	2.59%	"	"	
Bis(2-ethylhexyl)phthalate	"	0.0460	---	0.0100	"	"	--	"	92.0%	(10-150)	3.42%	"	"	
Fluoranthene	"	0.0454	---	0.00500	"	"	--	"	90.8%	(25-140)	3.68%	"	"	
Fluorene	"	0.0480	---	0.00500	"	"	--	"	96.0%	(55-125)	0.00%	"	"	
Hexachlorobenzene	"	0.0474	---	0.00500	"	"	--	"	94.8%	(10-150)	2.29%	"	"	
Hexachlorobutadiene	"	0.0441	---	0.0100	"	"	--	"	88.2%	(10-120)	4.65%	"	"	
Hexachlorocyclopentadiene	"	0.0225	---	0.0100	"	"	--	"	45.0%	(10-150)	6.45%	"	"	
Hexachloroethane	"	0.0477	---	0.0100	"	"	--	"	95.4%	(10-115)	5.11%	"	"	
Indeno (1,2,3-cd) pyrene	"	0.0463	---	0.00500	"	"	--	"	92.6%	(10-150)	4.42%	"	"	
Isophorone	"	0.0450	---	0.00500	"	"	--	"	90.0%	(20-150)	4.35%	"	"	
Naphthalene	"	0.0454	---	0.00500	"	"	--	"	90.8%	(20-135)	3.89%	"	"	
Nitrobenzene	"	0.0440	---	0.00500	"	"	--	"	88.0%	(35-150)	6.17%	"	"	
2-Nitrophenol	"	0.0469	---	0.00500	"	"	--	"	93.8%	(25-150)	3.97%	"	"	
4-Nitrophenol	"	0.0468	---	0.0250	"	"	--	"	93.6%	(10-135)	6.39%	"	"	
N-Nitrosodimethylamine	"	0.0423	---	0.00500	"	"	--	"	84.6%	(10-150)	11.5%	"	"	
N-Nitrosodi-n-propylamine	"	0.0458	---	0.0100	"	"	--	"	91.6%	"	3.85%	"	"	
N-Nitrosodiphenylamine	"	0.0508	---	0.00500	"	"	--	"	102%	"	1.95%	"	"	
Pentachlorophenol	"	0.0558	---	0.0100	"	"	--	"	112%	"	1.95%	"	"	
Phenanthrene	"	0.0479	---	0.00500	"	"	--	"	95.8%	(50-120)	0.624%	"	"	
Phenol	"	0.0527	---	0.00500	"	"	--	"	105%	(10-115)	3.54%	"	"	
Pyrene	"	0.0476	---	0.00500	"	"	--	"	95.2%	(50-125)	3.51%	"	"	
1,2,4-Trichlorobenzene	"	0.0450	---	0.00500	"	"	--	"	90.0%	(10-145)	0.443%	"	"	
2,4,6-Trichlorophenol	"	0.0511	---	0.00500	"	"	--	"	102%	(35-145)	4.40%	"	"	

Surrogate(s):	*2-Fluorobiphenyl*	*Recovery: 87.2%*	*Limits: 22-120%*	"	*06/14/07 20:05*
	2-Fluorophenol	*80.0%*	*5-120%*	"	"
	Nitrobenzene-d5	*94.5%*	*26-127%*	"	"
	Phenol-d6	*87.3%*	*4-121%*	"	"
	p-Terphenyl-d14	*99.1%*	*37-130%*	"	"
	2,4,6-Tribromophenol	*95.3%*	*21-129%*	"	"

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Brian Cone, Industrial Services Manager

SCOEPA00025022

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ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	06/26/07 16:27

Acid and Base/Neutral Extractables per EPA Method 625 - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 7060597 **Water Preparation Method: 3520B Liq-Liq**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7060597-BLK1)							Extracted: 06/14/07 17:15							
Acenaphthene	EPA 625	ND	---	0.00500	mg/l	1x	--	--	--	--	--	--	06/20/07 17:59	
Acenaphthylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Anthracene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Benzidine	"	ND	---	0.0600	"	"	--	--	--	--	--	--	"	
Benzo (a) anthracene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Benzo (a) pyrene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Benzo (b) fluoranthene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Benzo (ghi) perylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Benzo (k) fluoranthene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
4-Bromophenyl phenyl ether	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Butyl benzyl phthalate	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
4-Chloro-3-methylphenol	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bis(2-chloroethoxy)methane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Bis(2-chloroethyl)ether	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bis(2-chloroisopropyl)ether	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
2-Chloronaphthalene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
2-Chlorophenol	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
4-Chlorophenyl phenyl ether	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Chrysene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Di-n-butyl phthalate	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Di-n-octyl phthalate	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Dibenzo (a,h) anthracene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2 Diphenylhydrazine (as Azobenzene)	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
3,3'-Dichlorobenzidine	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
2,4-Dichlorophenol	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Diethyl phthalate	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
2,4-Dimethylphenol	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Dimethyl phthalate	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
4,6-Dinitro-2-methylphenol	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
2,4-Dinitrophenol	"	ND	---	0.0250	"	"	--	--	--	--	--	--	"	
2,4-Dinitrotoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
2,6-Dinitrotoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bis(2-ethylhexyl)phthalate	"	0.0342	---	0.0100	"	"	--	--	--	--	--	--	"	A-02
Fluoranthene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Fluorene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Hexachlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	

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Brian Cone, Industrial Services Manager

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ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
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Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	06/26/07 16:27

Acid and Base/Neutral Extractables per EPA Method 625 - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 7060597 **Water Preparation Method: 3520B Liq-Liq**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7060597-BLK1)									Extracted: 06/14/07 17:15					
Hexachlorobutadiene	EPA 625	ND	---	0.0100	mg/l	1x	--	--	--	--	--	--	06/20/07 17:59	
Hexachlorocyclopentadiene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Hexachloroethane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Indeno (1,2,3-cd) pyrene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Isophorone	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Nitrobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
2-Nitrophenol	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
4-Nitrophenol	"	ND	---	0.0250	"	"	--	--	--	--	--	--	"	
N-Nitrosodimethylamine	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
N-Nitrosodi-n-propylamine	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
N-Nitrosodiphenylamine	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Pentachlorophenol	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Phenanthrene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Phenol	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Pyrene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
2,4,6-Trichlorophenol	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Surrogate(s): 2-Fluorobiphenyl		*Recovery: 90.9%*			*Limits: 22-120%*	"							*06/20/07 17:59*	
2-Fluorophenol		*89.3%*			*5-120%*	"							"	
Nitrobenzene-d5		*112%*			*26-127%*	"							"	
Phenol-d6		*133%*			*4-121%*	"							"	Z2
p-Terphenyl-d14		*111%*			*37-130%*	"							"	
2,4,6-Tribromophenol		*97.3%*			*21-129%*	"							"	
LCS (7060597-BS1)									Extracted: 06/14/07 17:15					
Acenaphthene	EPA 625	0.0510	---	0.00500	mg/l	1x	--	0.0500	102%	(45-145)	--	--	06/20/07 15:45	
Acenaphthylene	"	0.0457	---	0.00500	"	"	--	"	91.4%	(30-145)	--	--	"	
Anthracene	"	0.0509	---	0.00500	"	"	--	"	102%	(25-135)	--	--	"	
Benzidine	"	0.0383	---	0.0600	"	"	--	0.0400	95.8%	(0-169)	--	--	"	L6
Benzo (a) anthracene	"	0.0536	---	0.00500	"	"	--	0.0500	107%	(30-145)	--	--	"	
Benzo (a) pyrene	"	0.0648	---	0.00500	"	"	--	"	130%	(15-150)	--	--	"	
Benzo (b) fluoranthene	"	0.0655	---	0.00500	"	"	--	"	131%	(20-150)	--	--	"	
Benzo (ghi) perylene	"	0.0685	---	0.00500	"	"	--	"	137%	(10-150)	--	--	"	
Benzo (k) fluoranthene	"	0.0660	---	0.00500	"	"	--	"	132%	"	--	--	"	
4-Bromophenyl phenyl ether	"	0.0512	---	0.00500	"	"	--	"	102%	(50-130)	--	--	"	
Butyl benzyl phthalate	"	0.0547	---	0.00500	"	"	--	"	109%	(10-150)	--	--	"	
4-Chloro-3-methylphenol	"	0.0511	---	0.00500	"	"	--	"	102%	(20-150)	--	--	"	
Bis(2-chloroethoxy)methane	"	0.0511	---	0.0100	"	"	--	"	102%	(30-150)	--	--	"	
Bis(2-chloroethyl)ether	"	0.0502	---	0.00500	"	"	--	"	100%	(10-150)	--	--	"	

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Brian Cone, Industrial Services Manager

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
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Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	06/26/07 16:27

Acid and Base/Neutral Extractables per EPA Method 625 - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 7060597 **Water Preparation Method: 3520B Liq-Liq**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (7060597-BS1)									Extracted: 06/14/07 17:15					
Bis(2-chloroisopropyl)ether	EPA 625	0.0537	---	0.0100	mg/l	1x	--	0.0500	107%	(35-150)	--	--	06/20/07 15:45	
2-Chloronaphthalene	"	0.0496	---	0.00500	"	"	--	"	99.2%	(60-120)	--	--	"	
2-Chlorophenol	"	0.0523	---	0.00500	"	"	--	"	105%	(20-135)	--	--	"	
4-Chlorophenyl phenyl ether	"	0.0504	---	0.00500	"	"	--	"	101%	(25-150)	--	--	"	
Chrysene	"	0.0555	---	0.00500	"	"	--	"	111%	(15-150)	--	--	"	
Di-n-butyl phthalate	"	0.0534	---	0.00500	"	"	--	"	107%	(10-120)	--	--	"	
Di-n-octyl phthalate	"	0.0688	---	0.00500	"	"	--	"	138%	(10-150)	--	--	"	
Dibenzo (a,h) anthracene	"	0.0694	---	0.00500	"	"	--	"	139%	"	--	--	"	
1,2 Diphenylhydrazine (as Azobenzene)	"	0.0533	---	0.00500	"	"	--	"	107%	"	--	--	"	
1,2-Dichlorobenzene	"	0.0385	---	0.00500	"	"	--	"	77.0%	(10-130)	--	--	"	
1,3-Dichlorobenzene	"	0.0339	---	0.00500	"	"	--	"	67.8%	(10-150)	--	--	"	
1,4-Dichlorobenzene	"	0.0355	---	0.00500	"	"	--	"	71.0%	(10-125)	--	--	"	
3,3'-Dichlorobenzidine	"	0.0541	---	0.00500	"	"	--	0.0400	135%	(10-150)	--	--	"	
2,4-Dichlorophenol	"	0.0512	---	0.00500	"	"	--	0.0500	102%	(35-135)	--	--	"	
Diethyl phthalate	"	0.0506	---	0.00500	"	"	--	"	101%	(10-115)	--	--	"	
2,4-Dimethylphenol	"	0.0300	---	0.0100	"	"	--	"	60.0%	(30-120)	--	--	"	
Dimethyl phthalate	"	0.0492	---	0.00500	"	"	--	"	98.4%	(10-115)	--	--	"	
4,6-Dinitro-2-methylphenol	"	0.0548	---	0.0100	"	"	--	"	110%	(10-150)	--	--	"	
2,4-Dinitrophenol	"	0.0485	---	0.0250	"	"	--	"	97.0%	"	--	--	"	
2,4-Dinitrotoluene	"	0.0493	---	0.00500	"	"	--	"	98.6%	(35-140)	--	--	"	
2,6-Dinitrotoluene	"	0.0532	---	0.00500	"	"	--	"	106%	(50-150)	--	--	"	
Bis(2-ethylhexyl)phthalate	"	0.0542	---	0.0100	"	"	--	"	108%	(10-150)	--	--	"	
Fluoranthene	"	0.0537	---	0.00500	"	"	--	"	107%	(25-140)	--	--	"	
Fluorene	"	0.0521	---	0.00500	"	"	--	"	104%	(55-125)	--	--	"	
Hexachlorobenzene	"	0.0518	---	0.00500	"	"	--	"	104%	(10-150)	--	--	"	
Hexachlorobutadiene	"	0.0387	---	0.0100	"	"	--	"	77.4%	(10-120)	--	--	"	
Hexachlorocyclopentadiene	"	0.0193	---	0.0100	"	"	--	"	38.6%	(10-150)	--	--	"	
Hexachloroethane	"	0.0300	---	0.0100	"	"	--	"	60.0%	(10-115)	--	--	"	
Indeno (1,2,3-cd) pyrene	"	0.0686	---	0.00500	"	"	--	"	137%	(10-150)	--	--	"	
Isophorone	"	0.0492	---	0.00500	"	"	--	"	98.4%	(20-150)	--	--	"	
Naphthalene	"	0.0478	---	0.00500	"	"	--	"	95.6%	(20-135)	--	--	"	
Nitrobenzene	"	0.0474	---	0.00500	"	"	--	"	94.8%	(35-150)	--	--	"	
2-Nitrophenol	"	0.0507	---	0.00500	"	"	--	"	101%	(25-150)	--	--	"	
4-Nitrophenol	"	0.0485	---	0.0250	"	"	--	"	97.0%	(10-135)	--	--	"	
N-Nitrosodimethylamine	"	0.0528	---	0.00500	"	"	--	"	106%	(10-150)	--	--	"	
N-Nitrosodi-n-propylamine	"	0.0540	---	0.0100	"	"	--	"	108%	"	--	--	"	
N-Nitrosodiphenylamine	"	0.0585	---	0.00500	"	"	--	"	117%	"	--	--	"	
Pentachlorophenol	"	0.0563	---	0.0100	"	"	--	"	113%	"	--	--	"	
Phenanthrene	"	0.0536	---	0.00500	"	"	--	"	107%	(50-120)	--	--	"	

TestAmerica - Portland, OR

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Brian Cone, Industrial Services Manager

SCOEPA00025025

TestAmerica
ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	06/26/07 16:27

Acid and Base/Neutral Extractables per EPA Method 625 - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 7060597 **Water Preparation Method: 3520B Liq-Liq**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (7060597-BS1)								Extracted: 06/14/07 17:15						
Phenol	EPA 625	0.0537	---	0.00500	mg/l	1x	--	0.0500	107%	(10-115)	--	--	06/20/07 15:45	
Pyrene	"	0.0555	---	0.00500	"	"	--	"	111%	(50-125)	--	--	"	
1,2,4-Trichlorobenzene	"	0.0430	---	0.00500	"	"	--	"	86.0%	(10-145)	--	--	"	
2,4,6-Trichlorophenol	"	0.0490	---	0.00500	"	"	--	"	98.0%	(35-145)	--	--	"	
Surrogate(s):	*2-Fluorobiphenyl*	*Recovery:*	*89.2%*		*Limits:*	*22-120%*	"						*06/20/07 15:45*	
	2-Fluorophenol		*82.0%*			*5-120%*	"						"	
	Nitrobenzene-d5		*104%*			*26-127%*	"						"	
	Phenol-d6		*113%*			*4-121%*	"						"	
	p-Terphenyl-d14		*114%*			*37-130%*	"						"	
	2,4,6-Tribromophenol		*98.0%*			*21-129%*	"						"	
LCS Dup (7060597-BSD1)								Extracted: 06/14/07 17:15						
Acenaphthene	EPA 625	0.0531	---	0.00500	mg/l	1x	--	0.0500	106%	(45-145)	4.03%	(50)	06/20/07 16:30	
Acenaphthylene	"	0.0484	---	0.00500	"	"	--	"	96.8%	(30-145)	5.74%	"	"	
Anthracene	"	0.0530	---	0.00500	"	"	--	"	106%	(25-135)	4.04%	"	"	
Benzidine	"	0.0364	---	0.0600	"	"	--	0.0400	91.0%	(0-169)	5.09%	"	"	L6
Benzo (a) anthracene	"	0.0538	---	0.00500	"	"	--	0.0500	108%	(30-145)	0.372%	"	"	
Benzo (a) pyrene	"	0.0734	---	0.00500	"	"	--	"	147%	(15-150)	12.4%	"	"	
Benzo (b) fluoranthene	"	0.0676	---	0.00500	"	"	--	"	135%	(20-150)	3.16%	"	"	
Benzo (ghi) perylene	"	0.0735	---	0.00500	"	"	--	"	147%	(10-150)	7.04%	"	"	
Benzo (k) fluoranthene	"	0.0761	---	0.00500	"	"	--	"	152%	"	14.2%	"	"	L5
4-Bromophenyl phenyl ether	"	0.0528	---	0.00500	"	"	--	"	106%	(50-130)	3.08%	"	"	
Butyl benzyl phthalate	"	0.0535	---	0.00500	"	"	--	"	107%	(10-150)	2.22%	"	"	
4-Chloro-3-methylphenol	"	0.0574	---	0.00500	"	"	--	"	115%	(20-150)	11.6%	"	"	
Bis(2-chloroethoxy)methane	"	0.0543	---	0.0100	"	"	--	"	109%	(30-150)	6.07%	"	"	
Bis(2-chloroethyl)ether	"	0.0486	---	0.00500	"	"	--	"	97.2%	(10-150)	3.24%	"	"	
Bis(2-chloroisopropyl)ether	"	0.0519	---	0.0100	"	"	--	"	104%	(35-150)	3.41%	"	"	
2-Chloronaphthalene	"	0.0518	---	0.00500	"	"	--	"	104%	(60-120)	4.34%	"	"	
2-Chlorophenol	"	0.0562	---	0.00500	"	"	--	"	112%	(20-135)	7.19%	"	"	
4-Chlorophenyl phenyl ether	"	0.0512	---	0.00500	"	"	--	"	102%	(25-150)	1.57%	"	"	
Chrysene	"	0.0555	---	0.00500	"	"	--	"	111%	(15-150)	0.00%	"	"	
Di-n-butyl phthalate	"	0.0542	---	0.00500	"	"	--	"	108%	(10-120)	1.49%	"	"	
Di-n-octyl phthalate	"	0.0730	---	0.00500	"	"	--	"	146%	(10-150)	5.92%	"	"	
Dibenzo (a,h) anthracene	"	0.0724	---	0.00500	"	"	--	"	145%	"	4.23%	"	"	
1,2-Dichlorobenzene	"	0.0375	---	0.00500	"	"	--	"	75.0%	(10-130)	2.63%	"	"	
1,2 Diphenylhydrazine (as Azobenzene)	"	0.0580	---	0.00500	"	"	--	"	116%	(10-150)	8.45%	"	"	
1,3-Dichlorobenzene	"	0.0349	---	0.00500	"	"	--	"	69.8%	"	2.91%	"	"	
1,4-Dichlorobenzene	"	0.0353	---	0.00500	"	"	--	"	70.6%	(10-125)	0.565%	"	"	
3,3'-Dichlorobenzidine	"	0.0587	---	0.00500	"	"	--	0.0400	147%	(10-150)	8.16%	"	"	
2,4-Dichlorophenol	"	0.0578	---	0.00500	"	"	--	0.0500	116%	(35-135)	12.1%	"	"	

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Brian Cone, Industrial Services Manager

SCOEPA00025026

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ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	06/26/07 16:27

Acid and Base/Neutral Extractables per EPA Method 625 - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 7060597 **Water Preparation Method: 3520B Liq-Liq**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS Dup (7060597-BSD1)								Extracted: 06/14/07 17:15						
Diethyl phthalate	EPA 625	0.0532	---	0.00500	mg/l	1x	--	0.0500	106%	(10-115)	5.01%	(50)	06/20/07 16:30	
2,4-Dimethylphenol	"	0.0373	---	0.0100	"	"	--	"	74.6%	(30-120)	21.7%	"	"	
Dimethyl phthalate	"	0.0514	---	0.00500	"	"	--	"	103%	(10-115)	4.37%	"	"	
4,6-Dinitro-2-methylphenol	"	0.0599	---	0.0100	"	"	--	"	120%	(10-150)	8.89%	"	"	
2,4-Dinitrophenol	"	0.0539	---	0.0250	"	"	--	"	108%	"	10.5%	"	"	
2,4-Dinitrotoluene	"	0.0535	---	0.00500	"	"	--	"	107%	(35-140)	8.17%	"	"	
2,6-Dinitrotoluene	"	0.0503	---	0.00500	"	"	--	"	101%	(50-150)	5.60%	"	"	
Bis(2-ethylhexyl)phthalate	"	0.0550	---	0.0100	"	"	--	"	110%	(10-150)	1.47%	"	"	
Fluoranthene	"	0.0553	---	0.00500	"	"	--	"	111%	(25-140)	2.94%	"	"	
Fluorene	"	0.0534	---	0.00500	"	"	--	"	107%	(55-125)	2.46%	"	"	
Hexachlorobenzene	"	0.0540	---	0.00500	"	"	--	"	108%	(10-150)	4.16%	"	"	
Hexachlorobutadiene	"	0.0373	---	0.0100	"	"	--	"	74.6%	(10-120)	3.68%	"	"	
Hexachlorocyclopentadiene	"	0.0239	---	0.0100	"	"	--	"	47.8%	(10-150)	21.3%	"	"	
Hexachloroethane	"	0.0306	---	0.0100	"	"	--	"	61.2%	(10-115)	1.98%	"	"	
ndeno (1,2,3-cd) pyrene	"	0.0733	---	0.00500	"	"	--	"	147%	(10-150)	6.62%	"	"	
sophorone	"	0.0524	---	0.00500	"	"	--	"	105%	(20-150)	6.30%	"	"	
Naphthalene	"	0.0495	---	0.00500	"	"	--	"	99.0%	(20-135)	3.49%	"	"	
Nitrobenzene	"	0.0503	---	0.00500	"	"	--	"	101%	(35-150)	5.94%	"	"	
2-Nitrophenol	"	0.0578	---	0.00500	"	"	--	"	116%	(25-150)	13.1%	"	"	
4-Nitrophenol	"	0.0506	---	0.0250	"	"	--	"	101%	(10-135)	4.24%	"	"	
N-Nitrosodimethylamine	"	0.0531	---	0.00500	"	"	--	"	106%	(10-150)	0.567%	"	"	
N-Nitrosodi-n-propylamine	"	0.0551	---	0.0100	"	"	--	"	110%	"	2.02%	"	"	
N-Nitrosodiphenylamine	"	0.0574	---	0.00500	"	"	--	"	115%	"	1.90%	"	"	
Pentachlorophenol	"	0.0594	---	0.0100	"	"	--	"	119%	"	5.36%	"	"	
Phenanthrene	"	0.0564	---	0.00500	"	"	--	"	113%	(50-120)	5.09%	"	"	
Phenol	"	0.0586	---	0.00500	"	"	--	"	117%	(10-115)	8.73%	"	"	L5
Pyrene	"	0.0534	---	0.00500	"	"	--	"	107%	(50-125)	3.86%	"	"	
1,2,4-Trichlorobenzene	"	0.0460	---	0.00500	"	"	--	"	92.0%	(10-145)	6.74%	"	"	
2,4,6-Trichlorophenol	"	0.0539	---	0.00500	"	"	--	"	108%	(35-145)	9.52%	"	"	

Surrogate(s):	*2-Fluorobiphenyl*	*Recovery:*	*95.3%*	*Limits:* *22-120%*	"	*06/20/07 16:30*
	2-Fluorophenol		*86.0%*	*5-120%*	"	"
	Nitrobenzene-d5		*107%*	*26-127%*	"	"
	Phenol-d6		*115%*	*4-121%*	"	"
	p-Terphenyl-d14		*115%*	*37-130%*	"	"
	2,4,6-Tribromophenol		*104%*	*21-129%*	"	"

TestAmerica - Portland, OR

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Brian Cone, Industrial Services Manager

SCOEPA00025027

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ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	06/26/07 16:27

Conventional Chemistry Parameters per Standard Methods - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 7060314 **Water Preparation Method: General Preparation**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7060314-BLK1)								Extracted: 06/08/07 09:13						
Biochemical Oxygen Demand	SM 5210B	ND	---	4.00	mg/l	1x	--	--	--	--	--	--	06/13/07 10:50	L1
LCS (7060314-BS1)								Extracted: 06/08/07 09:13						
Biochemical Oxygen Demand	SM 5210B	237	---	4.00	mg/l	1x	--	198	120%	(85-115)	--	--	06/13/07 10:50	L1
Duplicate (7060314-DUP1)					QC Source: PQF0270-01			Extracted: 06/08/07 09:13						
Biochemical Oxygen Demand	SM 5210B	4.52	---	4.00	mg/l	1x	4.60	--	--	--	1.75%	(35)	06/13/07 10:50	L1

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Brian Cone, Industrial Services Manager

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	06/26/07 16:27

Notes and Definitions

Report Specific Notes:

A-01	-	Target analyte detected in Method Blank above reporting limit. Since sample is ND for this analyte, data quality is not affected.
A-02	-	Lab contamination.
C	-	Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
C8	-	Calibration Verification recovery was above the method control limit for this analyte. A high bias may be indicated.
L	-	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
L1	-	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above acceptance limits.
L5	-	Analyte recovery outside of specified criteria. Individual analyte criteria exceedences allowed for multi-component analyses without disqualification of data per NELAC Standard, DOD QSM and/or AFCEE QAPP.
L6	-	Per the EPA methods, benzidine is known to be subject to oxidative losses during solvent concentration.
RL1	-	Reporting limit raised due to sample matrix effects.
Z2	-	Surrogate recovery was above the acceptance limits. Data not impacted.

Laboratory Reporting Conventions:

DET	-	Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
ND	-	Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
NR/NA	-	Not Reported / Not Available
dry	-	Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
wet	-	Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
RPD	-	RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
MRL	-	METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
MDL*	-	METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
Dil	-	Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
Reporting Limits	-	Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
Electronic Signature	-	Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy.* Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Brian L Cone

rian Cone, Industrial Services Manager

SCOEPA00025029

TestAmerica
ANALYTICAL TESTING CORPORATION

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East 11115 Montgomery, Suite B, Spokane, WA 99206-4779 (509) 924-9200 FAX 924-9290
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 (503) 906-9200 FAX 906-9210 X
20354 Empire Avenue, Suite E-9, Bend, OR 97708-1883 (541) 383-9310 FAX 382-7588

CHAIN OF CUSTODY REPORT

Work Order #: PQF0270

CLIENT: SILTRONIC CORPORATION
REPORT TO: TOM ROTHSCHILD
ADDRESS: 7200 NW FRONT AVE
PORTLAND, OREGON 97210
PHONE: 503-219-7374 FAX: 503-219-4144

INVOICE TO: ACCOUNTS PAYABLE
7200 NW FRONT AVE
PORTLAND, OREGON 97210

P.O. NUMBER: 4500186654

TURNAROUND REQUEST in Business Days *
Organic & Inorganic Analyses: ~~10~~ 7 5 4 3 2 1 <1 STD.
Petroleum Hydrocarbon Analyses: 5 4 3 2 1 <1 STD.
OTHER Specify:
* Turnaround Requests less than standard may incur Rush Charges

PROJECT NAME: Monthly
PROJECT NUMBER:
SAMPLED BY: Dianne Irish

REQUESTED ANALYSES

	CLIENT SAMPLE INDENTIFICATION	SAMPLING DATE/TIME	BOD	CHROME TOTAL	608	624	625	IPA	1-2, Diphenylhydrazine	As (T)	MATRIX (W, S, O)	# OF CONT.	COMMENTS	NCA WO ID
1	07-78-CE-C	6/7/07 0715	X	X								2	Combined Eff.	
2	07-79-CE-g	6/7/07 0715			X	X	X		X			5	Combined Eff.	
3	07-80-OWW-C	6/7/07 0716								X		1	OWW	
4	07-81-OWW-g	6/7/07 0716			X	X	X	X	X			5	OWW	
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														

RELINQUISHED BY: Dianne Irish DATE: 6/7/07
PRINT NAME: DIANNE IRISH FIRM: Siltronic TIME: 15:20
RECEIVED BY: Bob Tang DATE: 6/7/07
PRINT NAME: Bob F FIRM: TAP TIME: 15:20
RELINQUISHED BY: DATE:
PRINT NAME: FIRM: TIME:
RECEIVED BY: DATE: 1/06
PRINT NAME: FIRM: TIME: 18:10

ADDITIONAL REMARKS:

TEMP: 13.8

PAGE OF

COC Rev 9, 1/99

SCOEPA00025030

TestAmerica Sample Receipt Checklist

Cooler ID(s): _____

Received by: (section A) Date: 1/16/17 Time: _____ Initials: _____

Unpacked by: (section B) Date: 1/17/17 Initials: HSD

Logged-in by: Date: 1/17 Initials: _____

Work Order No. PQF0270

Client: Siltronic

Project: Multi

Temperature out of range.
___No Ice
___Ice Melted
___Win 4 Hours
X Other: not close to samples

***ESI Clients (see Section C)

Cooler Temperature (IR): 1.4 °C plastic glass NA (oil/air samples, ESI client)

A

Custody Seals: (#____)

Signature: Y N Dated:_____

X None

Container Type:

1 #Cooler(s)

____#Box(s)

____None (___#Other:_____)

Coolant Type:

X Gel Ice

____Loose Ice

____None

Packing Material:

____Bubble Bags

X Styrofoam Cubbies

X None (___Other:_____)

Received from:

X TA Courier

____Senvoy

____UPS

____Fed Ex

____Client

____TDP

____DHL

____SDS

____Mid-Valley

____GS/TA

____GS/Senvoy

____Other:_____

B

Sample Status:

(If N circled, see NOD)

General:

Intact?	(Y)	N	
# Containers Match COC?	(Y)	N	none given
IDs Match COC?	(Y)	N	

For Analyses Requested:

Correct Type & Preservation?	(Y)	N	
Adequate Volume?	(Y)	N	
Within Hold Time?	(Y)	N	

Volatiles:

VOAs Free of Headspace?	(Y)	N	NA
TB on COC? not provided	Y	N	NA

Metals:

HNO3 Preserved?	(Y)	N	NA

C

***ESI Clients Only:

Temperature Blank: _____°C not provided

All preserved bottles checked Y N NA *(voas/soils/all unp.)*

All preserved accordingly? Y N *(see NOD)* NA *(voas/soils/all unp.)*

Army Corp: Geiger (ticks/min): ___ ___ ___ ___

Temperatures (IR): _____°C _____°C _____°C _____°C

(left) (middle) (right) (air)

Project Managers:

Comments:_____

*PM Reviewed:*_____ *(Initial/Date)*

Specialty Analytical

19761 S.W. 95th Avenue
Tualatin, OR 97062
(503) 612-9007
Fax (503) 612-8572
1 (877) 612-9007

July 13, 2007

Thomas Rothschild
Siltronic Corporation
7200 NW Front Ave
M/S 30
Portland, OR 97210

TEL: (503) 219-7374
FAX: (503) 219-4144

RE: Monthly / 06

Dear Thomas Rothschild:

Order No.: 0707053

Specialty Analytical received 1 sample on 7/12/2007 for the analyses presented in the following report.

There were no problems with the analysis and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative, or as qualified with flags. Results apply only to the samples analyzed. Without approval of the laboratory, the reproduction of this report is only permitted in its entirety.

If you have any questions regarding these tests, please feel free to call.

Sincerely,

Ned Engleson
Project Manager

Technical Review

SCOEPA00025032

Specialty Analytical

Date: *13-Jul-07*

CLIENT:	Siltronic Corporation	**Client Sample ID:**	07-94-OWW-g
Lab Order:	0707053	**Collection Date:**	7/12/2007 8:45:00 AM
Project:	Monthly / 06		
Lab ID:	0707053-01	**Matrix:**	WASTE WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PURGEABLES		**E624**				Analyst: **bda**
1,1,1-Trichloroethane	ND	1.00		µg/L	1	7/12/2007 12:55:00 PM
1,1,2,2-Tetrachloroethane	ND	1.00		µg/L	1	7/12/2007 12:55:00 PM
1,1,2-Trichloroethane	ND	1.00		µg/L	1	7/12/2007 12:55:00 PM
1,1-Dichloroethane	ND	1.00		µg/L	1	7/12/2007 12:55:00 PM
1,1-Dichloroethene	ND	1.00		µg/L	1	7/12/2007 12:55:00 PM
1,2-Dichlorobenzene	ND	1.00		µg/L	1	7/12/2007 12:55:00 PM
1,2-Dichloroethane	ND	1.00		µg/L	1	7/12/2007 12:55:00 PM
1,2-Dichloropropane	ND	1.00		µg/L	1	7/12/2007 12:55:00 PM
1,3-Dichlorobenzene	ND	1.00		µg/L	1	7/12/2007 12:55:00 PM
1,4-Dichlorobenzene	ND	1.00		µg/L	1	7/12/2007 12:55:00 PM
2-Butanone	ND	10.0		µg/L	1	7/12/2007 12:55:00 PM
2-Chloroethyl vinyl ether	ND	1.00		µg/L	1	7/12/2007 12:20:00 PM
4-Methyl-2-pentanone	ND	10.0		µg/L	1	7/12/2007 12:55:00 PM
Acrolein	ND	10.0		µg/L	1	7/12/2007 12:55:00 PM
Acrylonitrile	ND	1.00		µg/L	1	7/12/2007 12:55:00 PM
Benzene	ND	1.00		µg/L	1	7/12/2007 12:55:00 PM
Bromodichloromethane	ND	1.00		µg/L	1	7/12/2007 12:55:00 PM
Bromoform	ND	1.00		µg/L	1	7/12/2007 12:55:00 PM
Bromomethane	ND	1.00		µg/L	1	7/12/2007 12:55:00 PM
Carbon tetrachloride	ND	1.00		µg/L	1	7/12/2007 12:55:00 PM
Chlorobenzene	ND	1.00		µg/L	1	7/12/2007 12:55:00 PM
Chloroethane	ND	1.00		µg/L	1	7/12/2007 12:55:00 PM
Chloroform	2.48	1.00		µg/L	1	7/12/2007 12:55:00 PM
Chloromethane	ND	1.00		µg/L	1	7/12/2007 12:55:00 PM
cis-1,3-Dichloropropene	ND	1.00		µg/L	1	7/12/2007 12:55:00 PM
Dibromochloromethane	ND	1.00		µg/L	1	7/12/2007 12:55:00 PM
Ethylbenzene	ND	1.00		µg/L	1	7/12/2007 12:55:00 PM
m,p-Xylene	ND	2.00		µg/L	1	7/12/2007 12:55:00 PM
Methylene chloride	ND	5.00		µg/L	1	7/12/2007 12:55:00 PM
o-Xylene	ND	1.00		µg/L	1	7/12/2007 12:55:00 PM
Tetrachloroethene	ND	1.00		µg/L	1	7/12/2007 12:55:00 PM
Toluene	ND	1.00		µg/L	1	7/12/2007 12:55:00 PM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	7/12/2007 12:55:00 PM
trans-1,3-Dichloropropene	ND	1.00		µg/L	1	7/12/2007 12:55:00 PM
Trichloroethene	ND	1.00		µg/L	1	7/12/2007 12:55:00 PM
Trichlorofluoromethane	ND	1.00		µg/L	1	7/12/2007 12:55:00 PM
Vinyl chloride	ND	1.00		µg/L	1	7/12/2007 12:55:00 PM
Surr: 1,2-Dichloroethane-d4	102	83.4-126		%REC	1	7/12/2007 12:55:00 PM
Surr: 4-Bromofluorobenzene	107	90.9-117		%REC	1	7/12/2007 12:55:00 PM
Surr: Dibromofluoromethane	107	81.1-112		%REC	1	7/12/2007 12:55:00 PM
Surr: Toluene-d8	93.9	90-120		%REC	1	7/12/2007 12:55:00 PM

SCOEPA00025033

Specialty Analytical

Date: *13-Jul-07*

CLIENT: Siltronic Corporation
Work Order: 0707053
Project: Monthly / 06

ANALYTICAL QC SUMMARY REPORT

TestCode: 624_W

Sample ID	MB-18970	SampType:	MBLK	TestCode:	624_W	Units:	µg/L	Prep Date:	7/11/2007	Run ID:	5973L_070711A
Client ID:	ZZZZZ	Batch ID:	18970	Test No:	E624			Analysis Date:	7/11/2007	Seq No:	479069

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	1.00									
1,1,2,2-Tetrachloroethane	ND	1.00									
1,1,2-Trichloroethane	ND	1.00									
1,1-Dichloroethane	ND	1.00									
1,1-Dichloroethene	ND	1.00									
1,2-Dichlorobenzene	ND	1.00									
1,2-Dichloroethane	ND	1.00									
1,2-Dichloropropane	ND	1.00									
1,3-Dichlorobenzene	ND	1.00									
1,4-Dichlorobenzene	ND	1.00									
2-Butanone	ND	10.0									
4-Methyl-2-pentanone	ND	10.0									
Benzene	ND	1.00									
Bromodichloromethane	ND	1.00									
Bromoform	ND	1.00									
Bromomethane	ND	1.00									
Carbon tetrachloride	ND	1.00									
Chlorobenzene	ND	1.00									
Chloroethane	ND	1.00									
Chloroform	ND	1.00									
Chloromethane	ND	1.00									
cis-1,3-Dichloropropene	ND	1.00									
Dibromochloromethane	ND	1.00									
Ethylbenzene	0.16	1.00									J
m,p-Xylene	ND	2.00									
Methylene chloride	ND	5.00									
o-Xylene	ND	1.00									
Tetrachloroethene	ND	1.00									
Toluene	ND	1.00									
trans-1,2-Dichloroethene	ND	1.00									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

SCOEPA00025034

CLIENT: Siltronic Corporation
Work Order: 0707053
Project: Monthly / 06

ANALYTICAL QC SUMMARY REPORT

TestCode: 624_W

SampleID: MB-18970	SampType: MBLK	TestCode: 624_W	Units: µg/L	Prep Date: 7/11/2007	RunID: 5973L_070711A
ClientID: ZZZZZ	Batch ID: 18970	TestNo: E624		Analysis Date: 7/11/2007	SeqNo: 479069

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,3-Dichloropropene	ND	1.00									
Trichloroethene	ND	1.00									
Trichlorofluoromethane	ND	1.00									
Vinyl chloride	ND	1.00									
Surr:1,2-Dichloroethane-d4	102.3	1.00	100	0	102	83.4	126	0	0		
Surr:4-Bromofluorobenzene	105.3	1.00	100	0	105	90.9	117	0	0		
Surr:Dibromofluoromethane	103.5	1.00	100	0	104	81.1	112	0	0		
Surr: Toluene-d8	94.53	1.00	100	0	94.5	90	120	0	0		

SampleID: LCS-18970	SampType: LCS	TestCode: 624_W	Units: µg/L	Prep Date: 7/11/2007	RunID: 5973L_070711A
ClientID: ZZZZZ	Batch ID: 18970	TestNo: E624		Analysis Date: 7/11/2007	SeqNo: 479045

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	39.9	1.00	40	0	99.8	52	162	0	0		
1,1,2,2-Tetrachloroethane	37.14	1.00	40	0	92.8	46	157	0	0		
1,1,2-Trichloroethane	39.82	1.00	40	0	99.6	52	150	0	0		
1,1-Dichloroethane	41.72	1.00	40	0	104	59	155	0	0		
1,1-Dichloroethene	41.94	1.00	40	0	105	0.01	234	0	0		
1,2-Dichlorobenzene	34.53	1.00	40	0	86.3	18	190	0	0		
1,2-Dichloroethane	41.54	1.00	40	0	104	49	155	0	0		
1,2-Dichloropropane	43.25	1.00	40	0	108	0.01	210	0	0		
1,3-Dichlorobenzene	34.07	1.00	40	0	85.2	59	156	0	0		
1,4-Dichlorobenzene	34.41	1.00	40	0	86	18	190	0	0		
2-Butanone	71.45	10.0	80	0	89.3	70	130	0	0		
4-Methyl-2-pentanone	85.92	10.0	80	0	107	70	130	0	0		
Acrolein	43.12	10.0	40	0	108	70	130	0	0		
Acrylonitrile	37.68	1.00	40	0	94.2	60	140	0	0		
Benzene	40.71	1.00	40	0	102	37	151	0	0		
Bromodichloromethane	42.63	1.00	40	0	107	35	155	0	0		
Bromoform	39.57	1.00	40	0	98.9	45	169	0	0		
Bromomethane	62.64	1.00	40	0	157	0.01	242	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

SCOEPA00025035

CLIENT: Siltronic Corporation
Work Order: 0707053
Project: Monthly / 06

ANALYTICAL QC SUMMARY REPORT

TestCode: 624_W

SampleID	LCS-18970	SampType:	LCS	TestCode:	624_W	Units:	µg/L	Prep Date:	7/11/2007	RunID:	5973L_070711A
ClientID:	ZZZZZ	Batch ID:	18970	TestNo:	E624			Analysis Date:	7/11/2007	SeqNo:	479045

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon tetrachloride	41.76	1.00	40	0	104	70	140	0	0		
Chlorobenzene	35.16	1.00	40	0	87.9	37	160	0	0		
Chloroethane	45.56	1.00	40	0	114	14	230	0	0		
Chloroform	40.27	1.00	40	0	101	51	138	0	0		
Chloromethane	51.36	1.00	40	0	128	0.01	273	0	0		
cis-1,3-Dichloropropene	42.1	1.00	40	0	105	0.01	227	0	0		
Dibromochloromethane	38.42	1.00	40	0	96	53	149	0	0		
Ethylbenzene	34.32	1.00	40	0	85.8	37	162	0	0		
m,p-Xylene	68.86	2.00	80	0	86.1	70	130	0	0		
Methylene chloride	40.17	5.00	40	0	100	0.01	221	0	0		
o-Xylene	36.32	1.00	40	0	90.8	70	130	0	0		
Tetrachloroethene	35.22	1.00	40	0	88	64	148	0	0		
Toluene	36.5	1.00	40	0	91.2	47	150	0	0		
trans-1,2-Dichloroethene	40.97	1.00	40	0	102	54	156	0	0		
trans-1,3-Dichloropropene	37.89	1.00	40	0	94.7	17	183	0	0		
Trichloroethene	38.77	1.00	40	0	96.9	71	157	0	0		
Trichlorofluoromethane	42.58	1.00	40	0	106	17	181	0	0		
Vinyl chloride	46.11	1.00	40	0	115	0.01	251	0	0		

SampleID	LCS-18970	SampType:	LCS	TestCode:	624_W	Units:	µg/L	Prep Date:	7/11/2007	RunID:	5973L_070711A
ClientID:	ZZZZZ	Batch ID:	18970	TestNo:	E624			Analysis Date:	7/12/2007	SeqNo:	479338

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Chloroethyl vinyl ether	39.21	1.00	40	0	98	0.01	305	0	0		

SampleID	0707053-01AMS	SampType:	MS	TestCode:	624_W	Units:	µg/L	Prep Date:	7/11/2007	RunID:	5973L_070711A
ClientID:	07-94-OWW-g	Batch ID:	18970	TestNo:	E624			Analysis Date:	7/12/2007	SeqNo:	479350

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	42.8	1.00	40	0	107	52	162	0	0		
1,1,2,2-Tetrachloroethane	37.33	1.00	40	0	93.3	46	157	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

SCOEPA00025036

CLIENT: Siltronic Corporation
Work Order: 0707053
Project: Monthly / 06

ANALYTICAL QC SUMMARY REPORT

TestCode: 624_W

SampleID	0707053-01AMS	SampType:	MS	TestCode:	624_W	Units:	µg/L	Prep Date:	7/11/2007	RunID:	5973L_070711A
ClientID:	07-94-OWW-g	BatchID:	18970	TestNo:	E624			Analysis Date:	7/12/2007	SeqNo:	479350

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,2-Trichloroethane	40.74	1.00	40	0	102	52	150	0	0		
1,1-Dichloroethane	44.22	1.00	40	0	111	59	155	0	0		
1,1-Dichloroethene	41.73	1.00	40	0	104	0.01	234	0	0		
1,2-Dichlorobenzene	33.49	1.00	40	0	83.7	18	190	0	0		
1,2-Dichloroethane	44.6	1.00	40	0	112	49	155	0	0		
1,2-Dichloropropane	45.32	1.00	40	0	113	0.01	210	0	0		
1,3-Dichlorobenzene	32.45	1.00	40	0	81.1	59	156	0	0		
1,4-Dichlorobenzene	33.02	1.00	40	0	82.6	18	190	0	0		
2-Butanone	60.52	10.0	80	0	75.6	70	130	0	0		
2-Chloroethyl vinyl ether	38.03	1.00	40	0	95.1	0.01	305	0	0		
4-Methyl-2-pentanone	87.42	10.0	80	0	109	70	130	0	0		
Acrolein	35.81	10.0	40	0	89.5	70	130	0	0		
Acrylonitrile	34.65	1.00	40	0	86.6	60	140	0	0		
Benzene	42.45	1.00	40	0	106	37	151	0	0		
Bromodichloromethane	44.12	1.00	40	0	110	35	155	0	0		
Bromoform	34.61	1.00	40	0	86.5	45	169	0	0		
Bromomethane	62.87	1.00	40	0	157	0.01	242	0	0		
Carbon tetrachloride	38.05	1.00	40	0	95.1	70	140	0	0		
Chlorobenzene	35.66	1.00	40	0	89.2	37	160	0	0		
Chloroethane	44.82	1.00	40	0	112	14	230	0	0		
Chloroform	45.64	1.00	40	2.48	108	51	138	0	0		
Chloromethane	47.53	1.00	40	0	119	0.01	273	0	0		
cis-1,3-Dichloropropene	41.88	1.00	40	0	105	0.01	227	0	0		
Dibromochloromethane	36.36	1.00	40	0	90.9	53	149	0	0		
Ethylbenzene	34.05	1.00	40	0.13	84.8	37	162	0	0		
m,p-Xylene	65.57	2.00	80	0	82	70	130	0	0		
Methylene chloride	39.31	5.00	40	0	98.3	0.01	221	0	0		
o-Xylene	33.86	1.00	40	0	84.6	70	130	0	0		
Tetrachloroethene	33.18	1.00	40	0	83	64	148	0	0		
Toluene	36.28	1.00	40	0.32	89.9	47	150	0	0		
trans-1,2-Dichloroethene	42.04	1.00	40	0	105	54	156	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

SCOEPA00025037

CLIENT: Siltronic Corporation
Work Order: 0707053
Project: Monthly / 06

ANALYTICAL QC SUMMARY REPORT

TestCode: 624_W

SampleID: 0707053-01AMS	SampType: MS	TestCode: 624_W	Units: µg/L	Prep Date: 7/11/2007	RunID: 5973L_070711A
ClientID: 07-94-OWW-g	BatchID: 18970	TestNo: E624		Analysis Date: 7/12/2007	SeqNo: 479350

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,3-Dichloropropene	37.08	1.00	40	0	92.7	17	183	0	0		
Trichloroethene	42.52	1.00	40	0	106	71	157	0	0		
Trichlorofluoromethane	44.07	1.00	40	0	110	17	181	0	0		
Vinyl chloride	44.94	1.00	40	0	112	0.01	251	0	0		

SampleID: CCV-18970	SampType: CCV	TestCode: 624_W	Units: µg/L	Prep Date:	RunID: 5973L_070711A
ClientID: ZZZZZ	BatchID: 18970	TestNo: E624		Analysis Date: 7/11/2007	SeqNo: 479044

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	42.69	1.00	40	0	107	75	125	0	0		
1,1,2,2-Tetrachloroethane	38.06	1.00	40	0	95.2	60.5	139.5	0	0		
1,1,2-Trichloroethane	42.04	1.00	40	0	105	71	129	0	0		
1,1-Dichloroethane	42.51	1.00	40	0	106	72.5	127.5	0	0		
1,1-Dichloroethene	41.41	1.00	40	0	104	50.5	149.5	0	0		
1,2-Dichlorobenzene	36.94	1.00	40	0	92.4	63	137	0	0		
1,2-Dichloroethane	43.73	1.00	40	0	109	68	132	0	0		
1,2-Dichloropropane	46.13	1.00	40	0	115	34	166	0	0		
1,3-Dichlorobenzene	35.9	1.00	40	0	89.8	73	127	0	0		
1,4-Dichlorobenzene	36.22	1.00	40	0	90.6	63	137	0	0		
2-Butanone	41.06	10.0	40	0	103	70	130	0	0		
4-Methyl-2-pentanone	42.03	10.0	40	0	105	70	130	0	0		
Acrolein	48.8	10.0	40	0	122	70	130	0	0		
Acrylonitrile	24.15	1.00	40	0	60.4	60	140	0	0		
Benzene	43.85	1.00	40	0	110	64	136	0	0		
Bromodichloromethane	47.29	1.00	40	0	118	65.5	134.5	0	0		
Bromoform	41.33	1.00	40	0	103	71	129	0	0		
Bromomethane	62.57	1.00	40	0	156	14	186	0	0		
Carbon tetrachloride	42.92	1.00	40	0	107	73	127	0	0		
Chlorobenzene	37.06	1.00	40	0	92.6	66	134	0	0		
Chloroethane	39.28	1.00	40	0	98.2	38	162	0	0		
Chloroform	43.47	1.00	40	0	109	67.5	132.5	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

SCOEPA00025038

CLIENT: Siltronic Corporation
Work Order: 0707053
Project: Monthly / 06

ANALYTICAL QC SUMMARY REPORT

TestCode: 624_W

SampleID	CCV-18970	SampType:	CCV	TestCode:	624_W	Units:	µg/L	Prep Date:		RunID:	5973L_070711A
ClientID:	ZZZZZ	BatchID:	18970	TestNo:	E624			Analysis Date:	7/11/2007	SeqNo:	479044

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloromethane	35.32	1.00	40	0	88.3	0.01	204	0	0		
cis-1,3-Dichloropropene	49	1.00	40	0	122	24	176	0	0		
Dibromochloromethane	42.92	1.00	40	0	107	67.5	132.5	0	0		
Ethylbenzene	37.22	1.00	40	0	93	59	141	0	0		
m,p-Xylene	73.8	2.00	80	0	92.2	70	130	0	0		
Methylenechloride	41.33	5.00	40	0	103	60.5	139.5	0	0		
o-Xylene	38.77	1.00	40	0	96.9	70	130	0	0		
Tetrachloroethene	41.98	1.00	40	0	105	73.5	126.5	0	0		
Toluene	38.93	1.00	40	0	97.3	74.5	125.5	0	0		
trans-1,2-Dichloroethene	42.03	1.00	40	0	105	69.5	130.5	0	0		
trans-1,3-Dichloropropene	42.59	1.00	40	0	106	50	150	0	0		
Trichloroethene	41.18	1.00	40	0	103	66.5	133.5	0	0		
Trichlorofluoromethane	36.77	1.00	40	0	91.9	48	152	0	0		
Vinyl chloride	32.35	1.00	40	0	80.9	4	196	0	0		

SampleID	CCV-18970	SampType:	CCV	TestCode:	624_W	Units:	µg/L	Prep Date:		RunID:	5973L_070711A
ClientID:	ZZZZZ	BatchID:	18970	TestNo:	E624			Analysis Date:	7/12/2007	SeqNo:	479337

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	45.43	1.00	40	0	114	75	125	0	0		
1,1,2,2-Tetrachloroethane	40.72	1.00	40	0	102	60.5	139.5	0	0		
1,1,2-Trichloroethane	43.55	1.00	40	0	109	71	129	0	0		
1,1-Dichloroethane	45.5	1.00	40	0	114	72.5	127.5	0	0		
1,1-Dichloroethene	45.9	1.00	40	0	115	50.5	149.5	0	0		
1,2-Dichlorobenzene	39.4	1.00	40	0	98.5	63	137	0	0		
1,2-Dichloroethane	46.54	1.00	40	0	116	68	132	0	0		
1,2-Dichloropropane	48.52	1.00	40	0	121	34	166	0	0		
1,3-Dichlorobenzene	38.04	1.00	40	0	95.1	73	127	0	0		
1,4-Dichlorobenzene	38.4	1.00	40	0	96	63	137	0	0		
2-Butanone	56.01	10.0	80	0	70	70	130	0	0		
2-Chloroethyl vinyl ether	41.42	1.00	40	0	104	0.01	224	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

SCOEPA00025039

CLIENT: Siltronic Corporation
Work Order: 0707053
Project: Monthly / 06

ANALYTICAL QC SUMMARY REPORT

TestCode: 624_W

SampleID: CCV-18970	SampType: CCV	TestCode: 624_W	Units: µg/L	Prep Date:	RunID: 5973L_070711A
ClientID: ZZZZZ	Batch ID: 18970	TestNo: E624		Analysis Date: 7/12/2007	SeqNo: 479337

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Methyl-2-pentanone	45.16	10.0	40	0	113	70	130	0	0		
Acrolein	51.02	10.0	40	0	128	70	130	0	0		
Acrylonitrile	25.71	1.00	40	0	64.3	60	140	0	0		
Benzene	45.99	1.00	40	0	115	64	136	0	0		
Bromodichloromethane	49.55	1.00	40	0	124	65.5	134.5	0	0		
Bromoform	41.77	1.00	40	0	104	71	129	0	0		
Bromomethane	71.38	1.00	40	0	178	14	186	0	0		
Carbon tetrachloride	45.46	1.00	40	0	114	73	127	0	0		
Chlorobenzene	38.88	1.00	40	0	97.2	66	134	0	0		
Chloroethane	45.29	1.00	40	0	113	38	162	0	0		
Chloroform	45.65	1.00	40	0	114	67.5	132.5	0	0		
Chloromethane	42.83	1.00	40	0	107	0.01	204	0	0		
cis-1,3-Dichloropropene	51.24	1.00	40	0	128	24	176	0	0		
Dibromochloromethane	44.02	1.00	40	0	110	67.5	132.5	0	0		
Ethylbenzene	39.25	1.00	40	0	98.1	59	141	0	0		
m,p-Xylene	78.02	2.00	80	0	97.5	70	130	0	0		
Methylene chloride	43.66	5.00	40	0	109	60.5	139.5	0	0		
o-Xylene	40.74	1.00	40	0	102	70	130	0	0		
Tetrachloroethene	44.18	1.00	40	0	110	73.5	126.5	0	0		
Toluene	40.75	1.00	40	0	102	74.5	125.5	0	0		
trans-1,2-Dichloroethene	45.44	1.00	40	0	114	69.5	130.5	0	0		
trans-1,3-Dichloropropene	44.18	1.00	40	0	110	50	150	0	0		
Trichloroethene	43.59	1.00	40	0	109	66.5	133.5	0	0		
Trichlorofluoromethane	42.92	1.00	40	0	107	48	152	0	0		
Vinyl chloride	41.47	1.00	40	0	104	4	196	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blanl
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

SCOEPA00025040

KEY TO FLAGS

A	This sample contains a Gasoline Range Organic not identified as a specific hydrocarbon product. The result was quantified against gasoline calibration standards.
A1	This sample contains a Diesel Range Organic not identified as a specific hydrocarbon product. The result was quantified against diesel calibration standards.
A2	This sample contains a Lube Oil Range Organic not identified as a specific hydrocarbon product. The result was quantified against a lube oil calibration standard.
A3	The result was determined to be Non-Detect based on hydrocarbon pattern recognition. The product was carry-over from another hydrocarbon type.
B	The blank exhibited a positive result greater than the reporting limit for this compound.
CN	See Case Narrative.
D	Result is based from a dilution.
E	Result exceeds the calibration range for this compound. The result should be considered as estimate.
F	The positive result for this hydrocarbon is due to single component contamination. The product does not match any hydrocarbon in the fuels library.
H	Sample was analyzed outside recommended hold time.
HT	At clients request, sample was analyzed outside recommended hold time.
J	The result for this analyte is between the MDL and the PQL and should be considered as estimated concentration.
K	Diesel result is biased high due to amount of Oil contained in the sample.
L	Diesel result is biased high due to amount of Gasoline contained in the sample.
M	Oil result is biased high due to amount of Diesel contained in the sample.
N	Gasoline result is biased high due to amount of Diesel contained in the sample.
MC	Sample concentration is greater than 4x the spiked value, the spiked value is considered insignificant.
MI	Result is outside control limits due to matrix interference.
MSA	Value determined by Method of Standard Addition.
O	Laboratory Control Standard (LCS) exceeded laboratory control limits, but meets CCV criteria. Data meets EPA requirements.
P	Detection levels of Methylene Chloride may be laboratory contamination, due to previous analysis or background levels.
Q	Detection levels elevated due to sample matrix.
R	RPD control limits were exceeded.
RF	Duplicate failed due to result being at or near the method-reporting limit.
RP	Matrix spike values exceed established QC limits, post digestion spike is in control.
S	Recovery is outside control limits.
SC	Closing CCV or LCS exceeded high recovery control limits, but associated samples are non-detect. Data meets EPA requirements.
*	The result for this parameter was greater that the maximum contaminant level of the TCLP regulatory limit.

SCOEPA00025041

CHAIN OF CUSTODY RECORD

Page ___ of ___

Specialty Analytical
19761 S.W. 95th. Avenue
Tualatin, OR 97062
(503) 612-9007 - Phone
(503) 612-8572 - Fax

Contact Person/Project Manager: Tom Rothschild
Company: Siltronic
Address: 7200 NW Front Ave
Portland, OR 97210
Phone: 503-82 219-7374 Fax: 503-219-4144
Project No.: 02 Project Name: Monthly
Invoice To: Accts Payable P.O. No.: 4500521869

Collected By:
Signature: Dianne Irish
Printed: Dianne Irish

Signature: _____
Printed: _____

Turn Around Time
☐ Normal
☒ Rush ASAP
Specify

Rush Analyses Must Be Scheduled With The Lab In Advance

For Laboratory Use
Lab Job No.: 0707053
Shipped Via: Specialty
Air Bill No.: _____
Temperature On Receipt: 6 °C
Specialty Analytical Containers? Y / N
Specialty Analytical Trip Blanks? Y / N

Date	Time	Sample I.D.	Matrix	No. of Containers	Analyses: EPA 624	Comments	Lab I.D.
7.12.07	0845	07-94-OWW-8	WW	6	X		

Relinquished By	Date	Time	Received By	Relinquished By	Date	Time
Dianne Irish	7/12/07	0945	Nikki Sutton			
Company: Siltronic			Company: Specialty	Company:		

Unless Reclaimed, Samples Will Be Disposed of 60 Days After Receipt.

Copies: White-Original Yellow-Project File Pink-Customer Copy

Received For Lab By: Nikki Sutton — Date: 7/12/07 — Time: 1112

SCOEPA00025042

KLL:034

Signature Certification for U.S. EPA Diskette Submission

DISK

SILTRONIC CORP.
7200 NW FRONT AVENUE
PORTLAND, OR 972103676
97210WCKRS7200N

June 12, 2007

TRI Data Processing Center
c/o Computer Sciences Corportation
Suite 150
8400 Corporate Drive
Landover, MD 20785

(301) 429-5005

To Whom It May Concern:

Enclosed please find one (1) microcomputer diskette containing toxic chemical release reporting information for:

SILTRONIC CORP.

This information is submitted as required under section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and the Pollution Prevention Act of 1990.

We are submitting a total of 4 chemical report(s) for our facility.

These 4 chemical report(s) are described below:

TRI Chemical or Chemical Category	Reporting Year	CAS Number	Report
Hydrochloric acid (1995 and after "Acid Aerosols" only)	2006	7647-01-0	Form R
Hydrogen fluoride	2006	7664-39-3	Form R
Nitrate compounds	2006	N511	Form R
Nitric acid	2006	7697-37-2	Form R

Our technical point of contact is:

KOREEN LAIL
(503) 219-7994
KOREEN.LAIL@SILTRONIC.COM

and is available should any questions or problems arise in the processing of this diskette.

If the enclosed diskette contains one or more Form R chemicals, then I hereby certify that I have reviewed the enclosed documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report(s) are accurate based on reasonable estimates using data available to the preparers of this report(s).

SCOEPA00025043

If the enclosed diskette contains one or more Form A chemicals, then:
Pursuant to 40 CFR 372.27(a)(1), "I hereby certify that to the best of my knowledge and belief for the toxic chemical(s) listed in this statement, for this reporting year, the annual reportable amount for each chemical, as defined in 40 CFR 372.27(a)(1), did not exceed 5,000 pounds, which included no more than 2,000 pounds of total disposal or other releases to the environment, and that the chemical was manufactured, or processed, or otherwise used in an amount not exceeding 1 million pounds during this reporting year;" and/or

Pursuant to 40 CFR 372.27(a)(2), "I hereby certify that to the best of my knowledge and belief for the toxic chemical(s) of special concern listed in this statement, there were zero disposals or other releases to the environment (including disposals or other releases that resulted from catastrophic events) for this reporting year, the "Annual Reportable Amount of a Chemical of Special Concern" for each such chemical, as defined in 40 CFR 372.27(a)(2), did not exceed 500 pounds for this reporting year, and that the chemical was manufactured, or processed, or otherwise used in an amount not exceeding 1 million pounds during this reporting year."

Sincerely,

NEIL J. NELSON
PRESIDENT

Enclosure: Diskette

SCOEPA00025044

Form Approved OMB Number:2070-0093
Approval Expires: 1/31/2008

(IMPORTANT: Type or print; read instructions before completing form)

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EPA United States Environmental Protection Agency

FORM R

Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986, also known as Title III of the Superfund Amendments and Reauthorization Act

TRI Facility ID Number
97210WCKRS7200N
Toxic Chemical, Category or Generic Name
Hydrogen fluoride

WHERE TO SEND COMPLETED FORMS: 1. TRI Data Processing Center, P.O.Box 1513, Lanham, MD 20703-1513 2. APPROPRIATE STATE OFFICE (See instructions in Appendix F)

Enter "X" here if this is a revision: [ ]

For EPA use only

Important: See instructions to determine when "Not Applicable (NA)" boxes should be checked.

PART I. FACILITY IDENTIFICATION INFORMATION

SECTION 1. REPORTING YEAR 2006

SECTION 2. TRADE SECRET INFORMATION

2.1 Are you claiming the toxic chemical identified on page 2 trade secret?
[ ] Yes (Answer question 2.2; Attach substantiation forms) [X] NO (Do not answer 2.2; Go to Section 3)

2.2 Is this copy [ ] Sanitized [ ] Unsanitized (Answer only if "YES" in 2.1)

SECTION 3. CERTIFICATION (Important: Read and sign after completing all form sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official:	Signature	Date Signed
NEIL J. NELSON PRESIDENT	Draft - Do Not Submit	06/11/2007

SECTION 4. FACILITY IDENTIFICATION

4.1

Facility or Establishment Name	TRI Facility ID Number	97210WCKRS7200N
SILTRONIC CORP.	Facility or Establishment Name or Mailing Address (if different from street address)	
Street: 7200 NW FRONT AVENUE	Mailing Address: NA	
City/County/State/Zip Code: PORTLAND MULTNOMAH OR 97210-3676	City/State/Zip Code	Country (Non-US)

4.2 This report contains information for: (Important: check a or b; check c or d if applicable) a. [X] An entire facility b. [ ] Part of a facility c. [ ] A Federal facility d. [ ] GOCO

4.3	Technical Contact Name	KOREEN LAIL	Telephone Number (include area code): (503) 219-7994
	Email Address	KOREEN.LAIL@SILTRONIC.COM	
4.4	Public Contact Name	TOM FAHEY	Telephone Number (include area code): (503) 219-7901

4.5 NAICS Code (s) (6 digits)

Primary					
a. 334413	b.	c.	d.	e.	f.

4.7 Dun & Bradstreet Number(s) (9 digits): a. 096253737 b.

SECTION 5. PARENT COMPANY INFORMATION

5.1	Name of Parent Company	NA [X]	
5.2	Parent Company's Dun & Bradstreet Number	NA [X]	

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EPA FORM R

PART II. CHEMICAL - SPECIFIC INFORMATION

TRI Facility ID Number: 07[illegible]5720[illegible]

Toxic Chemical, Category or Generic Name: Hydrogen fluoride

SECTION 1. TOXIC CHEMICAL IDENTITY (Important: DO NOT complete this section if you completed Section 2 below.)

1.1	CAS Number (Important: Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category.) 7664-39-3
1.2	Toxic Chemical or Chemical Category Name (Important: Enter only one name exactly as it appears on the Section 313 list.) Hydrogen fluoride
1.3	Generic Chemical Name (Important: Complete only if Part 1, Section 2.1 is checked "Yes". Generic Name must be structurally descriptive.) NA

1.4 Distribution of Each Member of the Dioxin and Dioxin-like Compounds Category.
(If there are any numbers in boxes 1-17, then every field must be filled in with either 0 or some number between 0.01 and 100. Distribution should be reported in percentages and the total should equal 100%. If you do not have speciation data available, indicate NA.)

NA	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
[ ]																	

SECTION 2. MIXTURE COMPONENT IDENTITY (Important: DO NOT complete this section if you completed Section 1 above.)

2.1	Generic Chemical Name Provided by Supplier (Important: Maximum of 70 characters, including numbers, letters, spaces, and punctuation.) NA

SECTION 3. ACTIVITIES AND USES OF THE TOXIC CHEMICAL AT THE FACILITY
(Important: Check all that apply.)

3.1 Manufacture the toxic chemical

a. [ ] Produce b. [ ] Import

If produce or import:

c. [ ] For on-site use/processing
d. [ ] For sale/distribution
e. [ ] As a byproduct
f. [ ] As an impurity

3.2 Process the toxic chemical:

a. [ ] As a reactant
b. [ ] As a formulation component
c. [ ] As an article component
d. [ ] Repackaging
e. [ ] As an impurity

3.3 Otherwise use the toxic chemical:

a. [ ] As a chemical processing aid
b. [ ] As a manufacturing aid
c. [X] Ancillary or other use

SECTION 4. MAXIMUM AMOUNT OF THE TOXIC CHEMICAL ONSITE AT ANY TIME DURING THE CALENDAR YEAR

4.1	05	(Enter two-digit code from instruction package.)

SECTION 5. QUANTITY OF THE TOXIC CHEMICAL ENTERING EACH ENVIRONMENTAL MEDIUM ONSITE

			A. Total Release (pounds/year*) (Enter range code or estimate**)	B. Basis of Estimate (enter code)	C. % From Stormwater
5.1	Fugitive or non-point air emissions	NA [ ]	169	O	
5.2	Stack or point air emissions	NA [ ]	360	M	
5.3	Discharges to receiving streams or water bodies (enter one name per box)				
	Stream or Water Body Name				
5.3.1	NA				
5.3.2					
5.3.3					

If additional pages of Part II, Section 5.3 are attached, indicate the total number of pages in this box [ ]
and indicate the Part II, Section 5.3 page number in this box. [ ] (example: 1,2,3, etc.)

* For Dioxin or Dioxin-like compounds, report in grams/year

** Range Codes: A= 1- 10 pounds; B= 11- 499 pounds; C= 500 - 999 pounds.

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EPA FORM R

PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)

TRI Facility ID Number
97210VCKR7200N
Toxic Chemical, Category, or Generic Name
Hydrogen fluoride

SECTION 5. QUANTITY OF THE TOXIC CHEMICAL ENTERING EACH ENVIRONMENTAL MEDIUM ONSITE (Continued)

		NA	A. Total Release (pounds/year*) (enter range code** or estimate)	B. Basis of Estimate (enter code)
5.4.1	Underground Injection onsite to Class I Wells	X		
5.4.2	Underground Injection onsite to Class II-V Wells	X		
5.5	Disposal to land onsite			
5.5.1.A	RCRA Subtitle C landfills	X		
5.5.1.B	Other landfills	X		
5.5.2	Land treatment/application farming	X		
5.5.3A	RCRA Subtitle C Surface Impoundments	X		
5.5.3B	Other surface impoundments	X		
5.5.4	Other disposal	X		

SECTION 6. TRANSFERS OF THE TOXIC CHEMICAL IN WASTES TO OFF-SITE LOCATIONS

6.1 DISCHARGES TO PUBLICLY OWNED TREATMENT WORKS (POTWs)

6.1.A Total Quantity Transferred to POTWs and Basis of Estimate

6.1.A.1. Total Transfers (pounds/year*) (enter range code** or estimate)	6.1.A.2 Basis of Estimate (enter code)
0	M

6.1.B 1 POTW Name	CITY OF PORTLAND						
POTW Address	1211 SW 5TH AVENUE						
City	PORTLAND	State	OR	County	MULTNOMAH	Zip	97204
6.1.B POTW Name							
POTW Address							
City		State		County		Zip	

If additional pages of Part II, Section 6.1 are attached, indicate the total number of pages in this box [ ] and indicate the Part II, Section 6.1 page number in this box [ ] (example: 1,2,3, etc.)

SECTION 6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS

6.2. 1 Off-Site EPA Identification Number (RCRA ID No.)	CAD009142290								
Off-Site Location Name	GENERAL CHEMICAL								
Off-site Address	501 NICHOLS ROAD								
City	PITTSBURG	State	CA	County	CONTRA COSTA	Zip	94565	Country (Non-US)	

Is location under control of reporting facility or parent company? [ ] Yes [X] No

* For Dioxin or Dioxin-like compounds, report in grams/year

** Range Codes: A= 1- 10 pounds; B= 11- 499 pounds; C= 500 - 999 pounds.

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EPA FORM R

PART II. CHEMICAL SPECIFIC INFORMATION (CONTINUED)

TRI Facility ID Number: 97106WCKR3720CN

Toxic Chemical, Category, or Generic Name: Hydrogen fluoride

SECTION 6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS (Continued)

A. Total Transfers (pounds/year*) (enter range code** or estimate)	B. Basis of Estimate (enter code)	C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code)
1. 916	1. O	1. M69
2. NA	2.	2.
3.	3.	3.
4.	4.	4.

6.2. Off-Site EPA Identification Number (RCRA ID No.)

Off-Site location Name

Off-site Address

City | State | County | Zip | Country (Non-US)

Is location under control of reporting facility or parent company? ☐ Yes ☐ No

A. Total Transfers (pounds/year*) (enter range code** or estimate)	B. Basis of Estimate (enter code)	C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code)
1.	1.	1.
2.	2.	2.
3.	3.	3.
4.	4.	4.

SECTION 7A. ONSITE WASTE TREATMENT METHODS AND EFFICIENCY

☐ Not Applicable (NA) - Check here if no on-site waste treatment is applied to any waste stream containing the toxic chemical or chemical category.

a. General Waste Stream (enter code)	b. Waste Treatment Method(s) Sequence [enter 3-character code(s)]								d. Waste Treatment Efficiency Estimate [enter 2 character code]
7A.1a	7A.1b	1	A03	2	H077				7A.1d
A	3	H123	4	H101	5	H121			E4
	6	NA	7		8				
7A.2a	7A.2b	1	H077	2	H123				7A.2d
W	3	H101	4	H121	5	NA			E1
	6		7		8				
7A.3a	7A.3b	1		2					7A.3d
	3		4		5				
	6		7		8				
7A.4a	7A.4b	1		2					7A.4d
	3		4		5				
	6		7		8				
7A.5a	7A.5b	1		2					7A.5d
	3		4		5				
	6		7		8				

If additional pages of Part II, Section 6.2/7A are attached, indicate the total number of pages in this box ☐

and indicate the Part II, Section 6.2/7A page number in this box: ☐ **(example: 1,2,3, etc.)**

* For Dioxin or Dioxin-like compounds, report in grams/year

** Range Codes: A= 1- 10 pounds; B= 11- 499 pounds; C= 500 - 999 pounds.

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EPA FORM R

PART II. CHEMICAL SPECIFIC INFORMATION (CONTINUED)

TRI Facility ID Number
07[illegible]WCFR5720N
Toxic Chemical, Category, or Generic Name
Hydrogen fluoride

SECTION 7B. ON-SITE ENERGY RECOVERY PROCESSES

[X] Not Applicable (NA) - Check here if no on-site energy recovery is applied to any waste stream containing the toxic chemical or chemical category.

Energy Recovery Methods [enter 3-character code(s)]

1 [ ] 2 [ ] 3 [ ]

SECTION 7C. ON-SITE RECYCLING PROCESSES

[X] Not Applicable (NA) - Check here if no on-site recyling is applied to any waste stream containing the toxic chemical or chemical category.

Recycling Methods [enter 3-character code(s)]

1 [ ] 2 [ ] 3 [ ]

SECTION 8. SOURCE REDUCTION AND RECYCLING ACTIVITIES

		Column A Prior Year (pounds/year*)	Column B Current Reporting Year (pounds/year*)	Column C Following Year (pounds/year*)	Column D Second Following Year (pounds/year*)
8.1					
8.1a	Total on-site disposal to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills	NA	NA	NA	NA
8.1b	Total other on-site disposal or other releases	500	529	500	525
8.1c	Total off-site disposal to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills	NA	NA	NA	NA
8.1d	Total other off-site disposal or other releases	NA	NA	NA	NA
8.2	Quantity used for energy recovery onsite	NA	NA	NA	NA
8.3	Quantity used for energy recovery offsite	NA	NA	NA	NA
8.4	Quantity recycled onsite	NA	NA	NA	NA
8.5	Quantity recycled offsite	NA	NA	NA	NA
8.6	Quantity treated onsite	120634	143009	140000	145000
8.7	Quantity treated offsite	699	916	900	1000
8.8	Quantity released to the environment as a result of remedial actions, catastrophic events, or one-time events not associated with production processes (pounds/year)			NA	
8.9	Production ratio or activity index			1.13	

8.10 Did your facility engage in any source reduction activities for this chemical during the reporting year? If not, enter "NA" in Section 8.10.1 and answer Section 8.11.

	Source Reduction Activities [enter code(s)]	Methods to Identify Activity (enter codes)		
8.10.1	W58	a. T11	b.	c.
8.10.2	NA	a.	b.	c.
8.10.3		a.	b.	c.
8.10.4		a.	b.	c.

8.11	If you wish to submit additional optional information on source reduction, recycling, or pollution control activities with this report, check "Yes."	Yes [ ]

EPA Form 9350-1 (Rev. 8/2006) - Previous editions are obsolete.

*For Dioxin or Dioxin-like compounds, report in grams/year

TRI Facility ID Number
97210WCKRS7200N
Toxic Chemical, Category, or Generic Name
Hydrogen fluoride

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SECTION 8.11. Submit additional optional information on source reduction, recycling, or pollution control activities.

TRI-ME Chemical Validation Results

Facility: **SILTRONIC CORP.**

Chemical: **Hydrogen fluoride**

Please Note! After validating and submitting your data, please remember to access and review your Facility Data Profile (FDP) at www.triefdp.org. When your FDP is posted for review, the Technical Contact that is listed in the Form R or Form A Certification Statement will be notified by an email message. Therefore, please make sure the Technical Contact email address is correct.

The FDP serves two purposes:

- First, EPA wants to give the reporting facility the opportunity to confirm that the TRI Data Processing Center has entered its data correctly into EPA's TRIS database.
- Second, if the TRI Data Processing Center identifies potential errors in the forms a facility has submitted, the FDP indicates what these errors are and requests that the facility provide EPA with corrections.

TRI-ME checks for and displays two types of errors:

- **Critical errors** must be corrected before you prepare a submission. Critical errors usually result from missing or inconsistent data.
- **Possible errors** identify potential problems that EPA recommends you review (and remedy if appropriate) before you prepare a submission. Possible errors do not prevent TRI-ME from preparing a submission. If you determine that a possible error is not the result of incorrect or inconsistent data, disregard it.

Each error displayed includes the Form Section, Error Number, and Error Description. The Form Section provides the Part and Section of the Form R/A where the problem lies. If the problem is due to inconsistency between two or more sections of the Form R, then the word *Multiple* is used. The Error Number can be used if the user needs to contact *TRI-ME* software support regarding the error. The Error Description explains the cause of the particular error and how to fix it.

Critical Errors Found: 0

Possible Errors Found: 0

No Critical or Possible Errors were found.

Created using TRI-ME RY2006 7.0.5

6/12/2007 10:10:25 AM

SCOEPA00025051

(IMPORTANT: Type or print; read instructions before completing form)

EPA
United States Environmental Protection Agency

FORM R

Draft

Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986, also known as Title III of the Superfund Amendments and Reauthorization Act

TRI Facility ID Number
97210WCKRS7200N
Toxic Chemical, Category or Generic Name
Nitrate compounds

WHERE TO SEND COMPLETED FORMS: 1. TRI Data Processing Center, P.O.Box 1513, Lanham, MD 20703-1513 2. APPROPRIATE STATE OFFICE (See instructions in Appendix F)

Enter "X" here if this is a revision: [ ]

For EPA use only

Important: See instructions to determine when "Not Applicable (NA)" boxes should be checked.

PART I. FACILITY IDENTIFICATION INFORMATION

SECTION 1. REPORTING YEAR 2006

SECTION 2. TRADE SECRET INFORMATION

2.1 Are you claiming the toxic chemical identified on page 2 trade secret?
[ ] Yes (Answer question 2.2; Attach substantiation forms) [X] NO (Do not answer 2.2; Go to Section 3)

2.2 Is this copy [ ] Sanitized [ ] Unsanitized
(Answer only if "YES" in 2.1)

SECTION 3. CERTIFICATION (Important: Read and sign after completing all form sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official:	Signature	Date Signed
NEIL J. NELSON PRESIDENT	Draft - Do Not Submit	06/11/2007

SECTION 4. FACILITY IDENTIFICATION

4.1

Facility or Establishment Name	TRI Facility ID Number	97210WCKRS7200N
TRONIC CORP.	Facility or Establishment Name or Mailing Address (if different from street address)	
Street: 7200 NW FRONT AVENUE	Mailing Address: NA	
City/County/State/Zip Code: PORTLAND MULTNOMAH OR 97210-3676	City/State/Zip Code	Country (Non-US)

4.2 This report contains information for: (Important: check a or b; check c or d if applicable) a. [X] An entire facility b. [ ] Part of a facility c. [ ] A Federal facility d. [ ] GOCO

4.3	Technical Contact Name	KOREEN LAIL	Telephone Number (include area code): (503) 219-7994
	Email Address	KOREEN.LAIL@SILTRONIC.COM	
4.4	Public Contact Name	TOM FAHEY	Telephone Number (include area code): (503) 219-7901

4.5 NAICS Code (s) (6 digits)

Primary					
a. 334413	b.	c.	d.	e.	f.

4.7 Dun & Bradstreet Number(s) (9 digits): a. 096253737 b.

SECTION 5. PARENT COMPANY INFORMATION

5.1	Name of Parent Company	NA [X]	
5.2	Parent Company's Dun & Bradstreet Number	NA [X]	

SCOEPA00025052

EPA FORM R Draft
PART II. CHEMICAL - SPECIFIC INFORMATION

TRI Facility ID Number
97210WCKRS7200N
Toxic Chemical, Category or Generic Name
Nitrate compounds

SECTION 1. TOXIC CHEMICAL IDENTITY (Important: DO NOT complete this section if you completed Section 2 below.)

1.1	CAS Number (Important: Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category.) N511
1.2	Toxic Chemical or Chemical Category Name (Important: Enter only one name exactly as it appears on the Section 313 list.) Nitrate compounds
1.3	Generic Chemical Name (Important: Complete only if Part 1, Section 2.1 is checked "Yes". Generic Name must be structurally descriptive.) NA

1.4 Distribution of Each Member of the Dioxin and Dioxin-like Compounds Category.
(If there are any numbers in boxes 1-17, then every field must be filled in with either 0 or some number between 0.01 and 100. Distribution should be reported in percentages and the total should equal 100%. If you do not have speciation data available, indicate NA.)

NA	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
[ ]																	

SECTION 2. MIXTURE COMPONENT IDENTITY (Important: DO NOT complete this section if you completed Section 1 above.)

2.1	Generic Chemical Name Provided by Supplier (Important: Maximum of 70 characters, including numbers, letters, spaces, and punctuation.) NA

SECTION 3. ACTIVITIES AND USES OF THE TOXIC CHEMICAL AT THE FACILITY
(Important: Check all that apply.)

3.1 Manufacture the toxic chemical	3.2 Process the toxic chemical:	3.3 Otherwise use the toxic chemical:
a. [X] Produce b. [ ] Import		
If produce or import:	a. [ ] As a reactant	a. [ ] As a chemical processing aid
c. [ ] For on-site use/processing	b. [ ] As a formulation component	b. [ ] As a manufacturing aid
d. [ ] For sale/distribution	c. [ ] As an article component	c. [ ] Ancillary or other use
e. [X] As a byproduct	d. [ ] Repackaging	
f. [ ] As an impurity	e. [ ] As an impurity	

SECTION 4. MAXIMUM AMOUNT OF THE TOXIC CHEMICAL ONSITE AT ANY TIME DURING THE CALENDAR YEAR

4.1	03	(Enter two-digit code from instruction package.)

SECTION 5. QUANTITY OF THE TOXIC CHEMICAL ENTERING EACH ENVIRONMENTAL MEDIUM ONSITE

			A. Total Release (pounds/year*) (Enter range code or estimate**)	B. Basis of Estimate (enter code)	C. % From Stormwater
5.1	Fugitive or non-point air emissions	NA [X]			
5.2	Stack or point air emissions	NA [X]			
5.3	Discharges to receiving streams or water bodies (enter one name per box)				
	Stream or Water Body Name				
5.3.1	WILLAMETTE RIVER		690968	C	0.05
5.3.2					
5.3.3					

If additional pages of Part II, Section 5.3 are attached, indicate the total number of pages in this box [ ]
and indicate the Part II, Section 5.3 page number in this box. [ ] (example: 1,2,3, etc.)

* For Dioxin or Dioxin-like compounds, report in grams/year

** Range Codes: A= 1- 10 pounds; B= 11- 499 pounds; C= 500 - 999 pounds.

SCOEPA00025053

EPA FORM R Draft

PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)

TRI Facility ID Number
97210WCKRS7200N
Toxic Chemical, Category, or Generic Name
Nitrate compounds

SECTION 5. QUANTITY OF THE TOXIC CHEMICAL ENTERING EACH ENVIRONMENTAL MEDIUM ONSITE (Continued)

		NA	A. Total Release (pounds/year*) (enter range code** or estimate)	B. Basis of Estimate (enter code)
5.4.1	Underground Injection onsite to Class I Wells	X		
5.4.2	Underground Injection onsite to Class II-V Wells	X		
5.5	Disposal to land onsite			
5.5.1.A	RCRA Subtitle C landfills	X		
5.5.1.B	Other landfills	X		
5.5.2	Land treatment/application farming	X		
5.5.3A	RCRA Subtitle C Surface Impoundments	X		
5.5.3B	Other surface impoundments	X		
5.5.4	Other disposal	X		

SECTION 6. TRANSFERS OF THE TOXIC CHEMICAL IN WASTES TO OFF-SITE LOCATIONS

6.1 DISCHARGES TO PUBLICLY OWNED TREATMENT WORKS (POTWs)

6.1.A Total Quantity Transferred to POTWs and Basis of Estimate

6.1.A.1. Total Transfers (pounds/year*) (enter range code** or estimate)	6.1.A.2 Basis of Estimate (enter code)
5803	M

6.1.B 1	POTW Name	CITY OF PORTLAND					
POTW Address	1211 SW 5TH AVENUE						
City	PORTLAND	State	OR	County	MULTNOMAH	Zip	97204
6.1.B	POTW Name						
POTW Address							
City		State		County		Zip	

If additional pages of Part II, Section 6.1 are attached, indicate the total number of pages in this box [ ] and indicate the Part II, Section 6.1 page number in this box [ ] (example: 1,2,3, etc.)

SECTION 6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS

6.2. 1 Off-Site EPA Identification Number (RCRA ID No.)	NA
Off-Site Location Name	HILLBORO LANDFILL
Off-site Address	3205 SE MINTER BRDGE ROAD

City	HILLSBORO	State	OR	County	WASHINGTON	Zip	97123	Country (Non-US)	

s location under control of reporting facility or parent company? [ ] Yes [X] No

* For Dioxin or Dioxin-like compounds, report in grams/year

** Range Codes: A= 1- 10 pounds; B= 11- 499 pounds; C= 500 - 999 pounds.

SCOEPA00025054

EPA FORM R

Draft

PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)

TRI Facility ID Number
97210WCKRS7200N
Toxic Chemical, Category, or Generic Name
Nitrate compounds

SECTION 6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS (Continued)

A. Total Transfers (pounds/year*) (enter range code** or estimate)	B. Basis of Estimate (enter code)	C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code)
1. 4	1. O	1. M64
2. NA	2.	2.
3.	3.	3.
4.	4.	4.

6.2. Off-Site EPA Identification Number (RCRA ID No.)

Off-Site location Name

Off-site Address

City	State	County	Zip	Country (Non-US)

Is location under control of reporting facility or parent company? ☐ Yes ☐ No

A. Total Transfers (pounds/year*) (enter range code** or estimate)	B. Basis of Estimate (enter code)	C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code)
1.	1.	1.
2.	2.	2.
3.	3.	3.
4.	4.	4.

SECTION 7A. ONSITE WASTE TREATMENT METHODS AND EFFICIENCY

☐ Not Applicable (NA) - Check here if no on-site waste treatment is applied to any waste stream containing the toxic chemical or chemical category.

a. General Waste Stream (enter code)	b. Waste Treatment Method(s) Sequence [enter 3-character code(s)]								d. Waste Treatment Efficiency Estimate [enter 2 character code]
7A.1a	7A.1b	1	H077	2	H123	3	H129	4	7A.1d
W	5	NA	6		7		8		E6
7A.2a	7A.2b	1		2		3		4	7A.2d
	5		6		7		8		
7A.3a	7A.3b	1		2		3		4	7A.3d
	5		6		7		8		
7A.4a	7A.4b	1		2		3		4	7A.4d
	5		6		7		8		
7A.5a	7A.5b	1		2		3		4	7A.5d
	5		6		7		8		

If additional pages of Part II, Section 6.2/7A are attached, indicate the total number of pages in this box ☐

and indicate the Part II, Section 6.2/7A page number in this box: ☐ **(example: 1,2,3, etc.)**

* For Dioxin or Dioxin-like compounds, report in grams/year

** Range Codes: A= 1- 10 pounds; B= 11- 499 pounds; C= 500 - 999 pounds.

SCOEPA00025055

EPA FORM R

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PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

TRI Facility ID Number
97210WCKRS7200N
Toxic Chemical, Category, or Generic Name
Nitrate compounds

SECTION 7B. ON-SITE ENERGY RECOVERY PROCESSES

[X] Not Applicable (NA) - Check here if no on-site energy recovery is applied to any waste stream containing the toxic chemical or chemical category.

Energy Recovery Methods [enter 3-character code(s)]

1 [ ] 2 [ ] 3 [ ]

SECTION 7C. ON-SITE RECYCLING PROCESSES

[X] Not Applicable (NA) - Check here if no on-site recyling is applied to any waste stream containing the toxic chemical or chemical category.

Recycling Methods [enter 3-character code(s)]

1 [ ] 2 [ ] 3 [ ]

SECTION 8. SOURCE REDUCTION AND RECYCLING ACTIVITIES

		Column A Prior Year (pounds/year*)	Column B Current Reporting Year (pounds/year*)	Column C Following Year (pounds/year*)	Column D Second Following Year (pounds/year*)
8.1					
8.1a	Total on-site disposal to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills	NA	NA	NA	NA
8.1b	Total other on-site disposal or other releases	556275	690968	670000	550000
8.1c	Total off-site disposal to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills	5.6	4	4	4
8.1d	Total other off-site disposal or other releases	0	5803	0	0
8.2	Quantity used for energy recovery onsite	NA	NA	NA	NA
8.3	Quantity used for energy recovery offsite	NA	NA	NA	NA
8.4	Quantity recycled onsite	NA	NA	NA	NA
8.5	Quantity recycled offsite	NA	NA	NA	NA
8.6	Quantity treated onsite	0	0	0	0
8.7	Quantity treated offsite	NA	NA	NA	NA
8.8	Quantity released to the environment as a result of remedial actions, catastrophic events, or one-time events not associated with production processes (pounds/year)	NA			
8.9	Production ratio or activity index	1.13			

8.10 Did your facility engage in any source reduction activities for this chemical during the reporting year? If not, enter "NA" in Section 8.10.1 and answer Section 8.11.

	Source Reduction Activities [enter code(s)]	Methods to Identify Activity (enter codes)		
8.10.1	W58	a. T11	b.	c.
8.10.2	NA	a.	b.	c.
8.10.3		a.	b.	c.
8.10.4		a.	b.	c.

8.11 If you wish to submit additional optional information on source reduction, recycling, or pollution control activities with this report, check "Yes." Yes [X]

*For Dioxin or Dioxin-like compounds, report in grams/year

SCOEPA00025056

TRI Facility ID Number
97210WCKRS7200N
Toxic Chemical, Category, or Generic Name
Nitrate compounds

Draft

SECTION 8.11. Submit additional optional information on source reduction, recycling, or pollution control activities.

Siltronic Corporation in 2003 initiated a program to reduce the amount of water soluable nitrates discharged. This involved a change in process and by selling used nitric/hydroflouric etchant to another company for use in their acid etching process. In 2003, these changes reduced Siltronic's discharge of nitrate compounds by 83,000 pounds. In 2004, the discharge was reduced by another 280,000 pounds and in 2005 Siltronic achieved an additional reduction of 105,000 pounds. In 2006 Siltronic showed an increase in nitric compound discharge due to an increase in production and some difficulties with shipping the spent etchant. However, this number is still substantially less than the amounts discharged prior to 2003.

Form Approved OMB Number:2070-0093
Approval Expires: 1/31/2008

(IMPORTANT: Type or print; read instructions before completing form)

EPA
United States Environmental Protection Agency

FORM R

Draft

Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986, also known as Title III of the Superfund Amendments and Reauthorization Act

TRI Facility ID Number
97210WCKRS7200N
Toxic Chemical, Category or Generic Name
Nitric acid

WHERE TO SEND COMPLETED FORMS: 1. TRI Data Processing Center, P.O.Box 1513, Lanham, MD 20703-1513 2. APPROPRIATE STATE OFFICE (See instructions in Appendix F)

Enter "X" here if this is a revision [ ]

For EPA use only

Important: See instructions to determine when "Not Applicable (NA)" boxes should be checked.

PART I. FACILITY IDENTIFICATION INFORMATION

SECTION 1. REPORTING YEAR 2006

SECTION 2. TRADE SECRET INFORMATION

2.1 Are you claiming the toxic chemical identified on page 2 trade secret?
[ ] Yes (Answer question 2.2; Attach substantiation forms) [X] NO (Do not answer 2.2; Go to Section 3)

2.2 Is this copy [ ] Sanitized [ ] Unsanitized (Answer only if "YES" in 2.1)

SECTION 3. CERTIFICATION (Important: Read and sign after completing all form sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official:	Signature	Date Signed
NEIL J. NELSON PRESIDENT	Draft - Do Not Submit	06/11/2007

SECTION 4. FACILITY IDENTIFICATION

4.1

Facility or Establishment Name	TRI Facility ID Number	97210WCKRS7200N
TRONIC CORP.	Facility or Establishment Name or Mailing Address (if different from street address)	
Street: 7200 NW FRONT AVENUE	Mailing Address: NA	
City/County/State/Zip Code: PORTLAND MULTNOMAH OR 97210-3676	City/State/Zip Code	Country (Non-US)

4.2 This report contains information for: (Important: check a or b; check c or d if applicable) a. [X] An entire facility b. [ ] Part of a facility c. [ ] A Federal facility d. [ ] GOCO

4.3	Technical Contact Name	KOREEN LAIL	Telephone Number (include area code): (503) 219-7994
	Email Address	KOREEN.LAIL@SILTRONIC.COM	
4.4	Public Contact Name	TOM FAHEY	Telephone Number (include area code): (503) 219-7901

4.5 NAICS Code (s) (6 digits)

Primary					
a. 334413	b.	c.	d.	e.	f.

4.7 Dun & Bradstreet Number(s) (9 digits): a. 096253737 b.

SECTION 5. PARENT COMPANY INFORMATION

5.1	Name of Parent Company	NA [X]	
5.2	Parent Company's Dun & Bradstreet Number	NA [X]	

SCOEPA00025058

EPA FORM R Draft
PART II. CHEMICAL - SPECIFIC INFORMATION

TRI Facility ID Number
97210WCKRS7200N
Toxic Chemical, Category or Generic Name
Nitric acid

SECTION 1. TOXIC CHEMICAL IDENTITY (Important: DO NOT complete this section if you completed Section 2 below.)

1.1	CAS Number (Important: Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category.) 7697-37-2
1.2	Toxic Chemical or Chemical Category Name (Important: Enter only one name exactly as it appears on the Section 313 list.) Nitric acid
1.3	Generic Chemical Name (Important: Complete only if Part 1, Section 2.1 is checked "Yes". Generic Name must be structurally descriptive.) NA

1.4 Distribution of Each Member of the Dioxin and Dioxin-like Compounds Category.
(If there are any numbers in boxes 1-17, then every field must be filled in with either 0 or some number between 0.01 and 100. Distribution should be reported in percentages and the total should equal 100%. If you do not have speciation data available, indicate NA.)

NA	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
☐																	

SECTION 2. MIXTURE COMPONENT IDENTITY (Important: DO NOT complete this section if you completed Section 1 above.)

2.1	Generic Chemical Name Provided by Supplier (Important: Maximum of 70 characters, including numbers, letters, spaces, and punctuation.) NA

SECTION 3. ACTIVITIES AND USES OF THE TOXIC CHEMICAL AT THE FACILITY
(Important: Check all that apply.)

3.1 Manufacture the toxic chemical	3.2 Process the toxic chemical:	3.3 Otherwise use the toxic chemical:
a. ☐ Produce b. ☐ Import		
If produce or import:	a. ☐ As a reactant	a. ☐ As a chemical processing aid
c. ☐ For on-site use/processing	b. ☐ As a formulation component	b. ☐ As a manufacturing aid
d. ☐ For sale/distribution	c. ☐ As an article component	c. ☒ Ancillary or other use
e. ☐ As a byproduct	d. ☐ Repackaging	
f. ☐ As an impurity	e. ☐ As an impurity	

SECTION 4. MAXIMUM AMOUNT OF THE TOXIC CHEMICAL ONSITE AT ANY TIME DURING THE CALENDAR YEAR

4.1	05	(Enter two-digit code from instruction package.)

SECTION 5. QUANTITY OF THE TOXIC CHEMICAL ENTERING EACH ENVIRONMENTAL MEDIUM ONSITE

			A. Total Release (pounds/year*) (Enter range code or estimate**)	B. Basis of Estimate (enter code)	C. % From Stormwater
5.1	Fugitive or non-point air emissions	NA ☐	1262	O	
5.2	Stack or point air emissions	NA ☐	400	M	
5.3	Discharges to receiving streams or water bodies (enter one name per box)				
	Stream or Water Body Name				
5.3.1	WILLAMETTE RIVER		0	M	NA
5.3.2					
5.3.3					

If additional pages of Part II, Section 5.3 are attached, indicate the total number of pages in this box ☐
and indicate the Part II, Section 5.3 page number in this box. ☐ (example: 1,2,3, etc.)

* For Dioxin or Dioxin-like compounds, report in grams/year

** Range Codes: A= 1- 10 pounds; B= 11- 499 pounds; C= 500 - 999 pounds.

SCOEPA00025059

EPA FORM R Draft

PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)

TRI Facility ID Number
97210WCKRS7200N
Toxic Chemical, Category, or Generic Name
Nitric acid

SECTION 5. QUANTITY OF THE TOXIC CHEMICAL ENTERING EACH ENVIRONMENTAL MEDIUM ONSITE (Continued)

		NA	A. Total Release (pounds/year*) (enter range code** or estimate)	B. Basis of Estimate (enter code)
5.4.1	Underground Injection onsite to Class I Wells	X		
5.4.2	Underground Injection onsite to Class II-V Wells	X		
5.5	Disposal to land onsite			
5.5.1.A	RCRA Subtitle C landfills	X		
5.5.1.B	Other landfills	X		
5.5.2	Land treatment/application farming	X		
5.5.3A	RCRA Subtitle C Surface Impoundments	X		
5.5.3B	Other surface impoundments	X		
5.5.4	Other disposal	X		

SECTION 6. TRANSFERS OF THE TOXIC CHEMICAL IN WASTES TO OFF-SITE LOCATIONS

6.1 DISCHARGES TO PUBLICLY OWNED TREATMENT WORKS (POTWs)

6.1.A Total Quantity Transferred to POTWs and Basis of Estimate

6.1.A.1. Total Transfers (pounds/year*) (enter range code** or estimate)	6.1.A.2 Basis of Estimate (enter code)
0	M

6.1.B 1	POTW Name	CITY OF PORTLAND						
POTW Address	1211 SW 5TH AVENUE							
City	PORTLAND	State	OR	County	MULTNOMAH	Zip	97204	

6.1.B	POTW Name							
POTW Address								
City		State		County		Zip		

If additional pages of Part II, Section 6.1 are attached, indicate the total number of pages in this box [ ] and indicate the Part II, Section 6.1 page number in this box [ ] (example: 1,2,3, etc.)

SECTION 6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS

6.2. 1 Off-Site EPA Identification Number (RCRA ID No.)	CAD009142290
Off-Site Location Name	GENERAL CHEMICAL
Off-site Address	501 NICHOLS ROAD

City	PITTSBURG	State	CA	County	CONTRA COSTA	Zip	94565	Country (Non-US)	

location under control of reporting facility or parent company? [ ] Yes [X] No

* For Dioxin or Dioxin-like compounds, report in grams/year

** Range Codes: A= 1- 10 pounds; B= 11- 499 pounds; C= 500 - 999 pounds.

SCOEPA00025060

EPA FORM R Draft

PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)

TRI Facility ID Number
97210WCKRS7200N
Toxic Chemical, Category, or Generic Name
Nitric acid

SECTION 6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS (Continued)

A. Total Transfers (pounds/year*) (enter range code** or estimate)	B. Basis of Estimate (enter code)	C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code)
1. 184	1. O	1. M69
2. NA	2.	2.
3.	3.	3.
4.	4.	4.

6.2. Off-Site EPA Identification Number (RCRA ID No.)

Off-Site location Name

Off-site Address

City | State | County | Zip | Country (Non-US)

Is location under control of reporting facility or parent company? ☐ Yes ☐ No

A. Total Transfers (pounds/year*) (enter range code** or estimate)	B. Basis of Estimate (enter code)	C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code)
1.	1.	1.
2.	2.	2.
3.	3.	3.
4.	4.	4.

SECTION 7A. ONSITE WASTE TREATMENT METHODS AND EFFICIENCY

☐ Not Applicable (NA) - Check here if no on-site waste treatment is applied to any waste stream containing the toxic chemical or chemical category.

a. General Waste Stream (enter code)	b. Waste Treatment Method(s) Sequence [enter 3-character code(s)]								d. Waste Treatment Efficiency Estimate [enter 2 character code]
7A.1a	7A.1b	1	A03	2	H077				7A.1d
A	3	H123	4	H129	5	H123			E4
	6	NA	7		8				
7A.2a	7A.2b	1	H077	2	H123				7A.2d
W	3	H129	4	H121	5	NA			E1
	6		7		8				
7A.3a	7A.3b	1		2					7A.3d
	3		4		5				
	6		7		8				
7A.4a	7A.4b	1		2					7A.4d
	3		4		5				
	6		7		8				
7A.5a	7A.5b	1		2					7A.5d
	3		4		5				
	6		7		8				

If additional pages of Part II, Section 6.2/7A are attached, indicate the total number of pages in this box ☐

and indicate the Part II, Section 6.2/7A page number in this box: ☐ **(example: 1,2,3, etc.)**

* For Dioxin or Dioxin-like compounds, report in grams/year

** Range Codes: A= 1- 10 pounds; B= 11- 499 pounds; C= 500 - 999 pounds.

SCOEPA00025061

EPA FORM R

Draft

PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

TRI Facility ID Number
97210WCKRS7200N
Toxic Chemical, Category, or Generic Name
Nitric acid

SECTION 7B. ON-SITE ENERGY RECOVERY PROCESSES

[X] Not Applicable (NA) - Check here if no on-site energy recovery is applied to any waste stream containing the toxic chemical or chemical category.

Energy Recovery Methods [enter 3-character code(s)]

1 [ ] 2 [ ] 3 [ ]

SECTION 7C. ON-SITE RECYCLING PROCESSES

[X] Not Applicable (NA) - Check here if no on-site recyling is applied to any waste stream containing the toxic chemical or chemical category.

Recycling Methods [enter 3-character code(s)]

1 [ ] 2 [ ] 3 [ ]

SECTION 8. SOURCE REDUCTION AND RECYCLING ACTIVITIES

		Column A Prior Year (pounds/year*)	Column B Current Reporting Year (pounds/year*)	Column C Following Year (pounds/year*)	Column D Second Following Year (pounds/year*)
8.1					
8.1a	Total on-site disposal to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills	NA	NA	NA	NA
8.1b	Total other on-site disposal or other releases	1394	1662	1600	1800
8.1c	Total off-site disposal to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills	NA	NA	NA	NA
8.1d	Total other off-site disposal or other releases	NA	NA	NA	NA
8.2	Quantity used for energy recovery onsite	NA	NA	NA	NA
8.3	Quantity used for energy recovery offsite	NA	NA	NA	NA
8.4	Quantity recycled onsite	NA	NA	NA	NA
8.5	Quantity recycled offsite	NA	NA	NA	NA
8.6	Quantity treated onsite	586781	732416	700000	750000
8.7	Quantity treated offsite	236	184	200	200
8.8	Quantity released to the environment as a result of remedial actions, catastrophic events, or one-time events not associated with production processes (pounds/year)	NA			
8.9	Production ratio or activity index	1.13			

8.10 Did your facility engage in any source reduction activities for this chemical during the reporting year? If not, enter "NA" in Section 8.10.1 and answer Section 8.11.

	Source Reduction Activities [enter code(s)]	Methods to Identify Activity (enter codes)		
8.10.1	W58	a. T11	b.	c.
8.10.2	NA	a.	b.	c.
8.10.3		a.	b.	c.
8.10.4		a.	b.	c.

8.11 If you wish to submit additional optional information on source reduction, recycling, or pollution control activities with this report, check "Yes." [ ] Yes

*For Dioxin or Dioxin-like compounds, report in grams/year

SCOEPA00025062

TRI Facility ID Number
97210WCKRS7200N
Toxic Chemical, Category, or Generic Name
Nitric acid

Draft

SECTION 8.11. Submit additional optional information on source reduction, recycling, or pollution control activities.

(IMPORTANT: Type or print; read instructions before completing form)

EPA
United States Environmental Protection Agency

FORM R

Draft

Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986, also known as Title III of the Superfund Amendments and Reauthorization Act

TRI Facility ID Number
97210WCKRS7200N
Toxic Chemical, Category or Generic Name
Hydrochloric acid (1995 and after "Acid Aerosols" only)

WHERE TO SEND COMPLETED FORMS: 1. TRI Data Processing Center, P.O.Box 1513, Lanham, MD 20703-1513 2. APPROPRIATE STATE OFFICE (See instructions in Appendix F)

Enter "X" here if this is a revision [ ]

For EPA use only

Important: See instructions to determine when "Not Applicable (NA)" boxes should be checked.

PART I. FACILITY IDENTIFICATION INFORMATION

SECTION 1. REPORTING YEAR 2006

SECTION 2. TRADE SECRET INFORMATION

2.1 Are you claiming the toxic chemical identified on page 2 trade secret?
[ ] Yes (Answer question 2.2; Attach substantiation forms) [X] NO (Do not answer 2.2; Go to Section 3)

2.2 Is this copy [ ] Sanitized [ ] Unsanitized (Answer only if "YES" in 2.1)

SECTION 3. CERTIFICATION (Important: Read and sign after completing all form sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official:	Signature	Date Signed
NEIL J. NELSON PRESIDENT	Draft - Do Not Submit	06/11/2007

SECTION 4. FACILITY IDENTIFICATION

4.1 TRI Facility ID Number: 97210WCKRS7200N

Facility or Establishment Name: SILTRONIC CORP.

Facility or Establishment Name or Mailing Address (if different from street address):

Street: 7200 NW FRONT AVENUE

Mailing Address: NA

City/County/State/Zip Code: PORTLAND MULTNOMAH OR 97210-3676

City/State/Zip Code:

Country (Non-US):

4.2 This report contains information for: (Important: check a or b; check c or d if applicable) a. [X] An entire facility b. [ ] Part of a facility c. [ ] A Federal facility d. [ ] GOCO

4.3	Technical Contact Name	KOREEN LAIL	Telephone Number (include area code): (503) 219-7994
	Email Address	KOREEN.LAIL@SILTRONIC.COM	
4.4	Public Contact Name	TOM FAHEY	Telephone Number (include area code): (503) 219-7901

4.5 NAICS Code (s) (6 digits)

Primary					
a. 334413	b.	c.	d.	e.	f.

4.7 Dun & Bradstreet Number(s) (9 digits)
a. 096253737
b.

SECTION 5. PARENT COMPANY INFORMATION

5.1	Name of Parent Company	NA [X]	
5.2	Parent Company's Dun & Bradstreet Number	NA [X]	

SCOEPA00025064

EPA FORM R
PART II. CHEMICAL - SPECIFIC INFORMATION

Draft

TRI Facility ID Number
97210WCKRS7200N
Toxic Chemical, Category or Generic Name
Hydrochloric acid (1995 and after "Acid Aerosols"

SECTION 1. TOXIC CHEMICAL IDENTITY (Important: DO NOT complete this section if you completed Section 2 below.)

1.1	CAS Number (Important: Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category.)
	7647-01-0
1.2	Toxic Chemical or Chemical Category Name (Important: Enter only one name exactly as it appears on the Section 313 list.)
	Hydrochloric acid (1995 and after "Acid Aerosols" only)
1.3	Generic Chemical Name (Important: Complete only if Part 1, Section 2.1 is checked "Yes". Generic Name must be structurally descriptive.)
	NA

1.4 Distribution of Each Member of the Dioxin and Dioxin-like Compounds Category.
(If there are any numbers in boxes 1-17, then every field must be filled in with either 0 or some number between 0.01 and 100. Distribution should be reported in percentages and the total should equal 100%. If you do not have speciation data available, indicate NA.)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
NA ☐																

SECTION 2. MIXTURE COMPONENT IDENTITY (Important: DO NOT complete this section if you completed Section 1 above.)

2.1	Generic Chemical Name Provided by Supplier (Important: Maximum of 70 characters, including numbers, letters, spaces, and punctuation.)
	NA

SECTION 3. ACTIVITIES AND USES OF THE TOXIC CHEMICAL AT THE FACILITY
(Important: Check all that apply.)

3.1 Manufacture the toxic chemical	3.2 Process the toxic chemical:	3.3 Otherwise use the toxic chemical:
a. [X] Produce b. [ ] Import		
If produce or import:	a. [ ] As a reactant	a. [ ] As a chemical processing aid
c. [ ] For on-site use/processing	b. [ ] As a formulation component	b. [ ] As a manufacturing aid
d. [ ] For sale/distribution	c. [ ] As an article component	c. [X] Ancillary or other use
e. [X] As a byproduct	d. [ ] Repackaging	
f. [ ] As an impurity	e. [ ] As an impurity	

SECTION 4. MAXIMUM AMOUNT OF THE TOXIC CHEMICAL ONSITE AT ANY TIME DURING THE CALENDAR YEAR

4.1	03 (Enter two-digit code from instruction package.)	

SECTION 5. QUANTITY OF THE TOXIC CHEMICAL ENTERING EACH ENVIRONMENTAL MEDIUM ONSITE

			A. Total Release (pounds/year*) (Enter range code or estimate**)	B. Basis of Estimate (enter code)	C. % From Stormwater
5.1	Fugitive or non-point air emissions	NA ☐	483	O	
5.2	Stack or point air emissions	NA ☐	71	M	
5.3	Discharges to receiving streams or water bodies (enter one name per box)				
	Stream or Water Body Name				
5.3.1	NA				
5.3.2					
5.3.3					

If additional pages of Part II, Section 5.3 are attached, indicate the total number of pages in this box ☐
and indicate the Part II, Section 5.3 page number in this box. ☐ (example: 1,2,3, etc.)

* For Dioxin or Dioxin-like compounds, report in grams/year

** Range Codes: A= 1- 10 pounds; B= 11- 499 pounds; C= 500 - 999 pounds.

SCOEPA00025065

EPA FORM R

Draft

PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)

TRI Facility ID Number
97210WCKRS7200N
Toxic Chemical, Category, or Generic Name
Hydrochloric acid (1995 and after "Acid Aerosols"

SECTION 5. QUANTITY OF THE TOXIC CHEMICAL ENTERING EACH ENVIRONMENTAL MEDIUM ONSITE (Continued)

		NA	A. Total Release (pounds/year*) (enter range code** or estimate)	B. Basis of Estimate (enter code)
5.4.1	Underground Injection onsite to Class I Wells	X		
5.4.2	Underground Injection onsite to Class II-V Wells	X		
5.5	Disposal to land onsite			
5.5.1.A	RCRA Subtitle C landfills	X		
5.5.1.B	Other landfills	X		
5.5.2	Land treatment/application farming	X		
5.5.3A	RCRA Subtitle C Surface Impoundments	X		
5.5.3B	Other surface impoundments	X		
5.5.4	Other disposal	X		

SECTION 6. TRANSFERS OF THE TOXIC CHEMICAL IN WASTES TO OFF-SITE LOCATIONS

6.1 DISCHARGES TO PUBLICLY OWNED TREATMENT WORKS (POTWs)

6.1.A Total Quantity Transferred to POTWs and Basis of Estimate

6.1.A.1. Total Transfers (pounds/year*) (enter range code** or estimate)	6.1.A.2 Basis of Estimate (enter code)
NA	

6.1.B 1 POTW Name	NA						
POTW Address							
City		State		County		Zip	
6.1.B POTW Name							
POTW Address							
City		State		County		Zip	

If additional pages of Part II, Section 6.1 are attached, indicate the total number of pages in this box [ ] **and indicate the Part II, Section 6.1 page number in this box** [ ] **(example: 1,2,3, etc.)**

SECTION 6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS

6.2. 1 Off-Site EPA Identification Number (RCRA ID No.)	AZD043840479
Off-Site Location Name	BOC GASES
Off-site Address	1122 NORTH 52ND STREET

City	PHOENIX	State	AZ	County	MARICOPA	Zip	85008	Country (Non-US)	

Is location under control of reporting facility or parent company? [ ] Yes [X] No

* For Dioxin or Dioxin-like compounds, report in grams/year

** Range Codes: A= 1- 10 pounds; B= 11- 499 pounds; C= 500 - 999 pounds.

EPA FORM R

Draft

PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)

TRI Facility ID Number
97210WCKRS7200N
Toxic Chemical, Category, or Generic Name
Hydrochloric acid (1995 and after "Acid Aerosols"

SECTION 6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS (Continued)

A. Total Transfers (pounds/year*) (enter range code** or estimate)	B. Basis of Estimate (enter code)	C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code)
1. 36404	1. C	1. M26
2. NA	2.	2.
3.	3.	3.
4.	4.	4.

6.2. 2 Off-Site EPA Identification Number (RCRA ID No.) ORQ000009423

Off-Site location Name: KANTO CORPORATION

Off-site Address: 13424 N WOODRUSH WAY

City	PORTLAND	State	OR	County	MULTNOMAH	Zip	97203	Country (Non-US)	

Is location under control of reporting facility or parent company? [ ] Yes [X] No

A. Total Transfers (pounds/year*) (enter range code** or estimate)	B. Basis of Estimate (enter code)	C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code)
1. 26	1. O	1. M69
2. NA	2.	2.
3.	3.	3.
4.	4.	4.

SECTION 7A. ONSITE WASTE TREATMENT METHODS AND EFFICIENCY

[ ] Not Applicable (NA) - Check here if no on-site waste treatment is applied to any waste stream containing the toxic chemical or chemical category.

a. General Waste Stream (enter code)	b. Waste Treatment Method(s) Sequence [enter 3-character code(s)]								d. Waste Treatment Efficiency Estimate [enter 2 character code]
7A.1a	7A.1b	1	A03	2	H121				7A.1d
A	3	H123	4	H129	5	NA			E3
	6		7		8				
7A.2a	7A.2b	1		2					7A.2d
	3		4		5				
	6		7		8				
7A.3a	7A.3b	1		2					7A.3d
	3		4		5				
	6		7		8				
7A.4a	7A.4b	1		2					7A.4d
	3		4		5				
	6		7		8				
7A.5a	7A.5b	1		2					7A.5d
	3		4		5				
	6		7		8				

If additional pages of Part II, Section 6.2/7A are attached, indicate the total number of pages in this box [ ]

nd indicate the Part II, Section 6.2/7A page number in this box: [ ] **(example: 1,2,3, etc.)**

* For Dioxin or Dioxin-like compounds, report in grams/year

** Range Codes: A= 1- 10 pounds; B= 11- 499 pounds; C= 500 - 999 pounds.

SCOEPA00025067

EPA FORM R

Draft

PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

TRI Facility ID Number
97210WCKRS7200N
Toxic Chemical, Category, or Generic Name
Hydrochloric acid (1995 and after "Acid Aerosols"

SECTION 7B. ON-SITE ENERGY RECOVERY PROCESSES

[X] Not Applicable (NA) - Check here if no on-site energy recovery is applied to any waste stream containing the toxic chemical or chemical category.

Energy Recovery Methods [enter 3-character code(s)]

1 [ ] 2 [ ] 3 [ ]

SECTION 7C. ON-SITE RECYCLING PROCESSES

[X] Not Applicable (NA) - Check here if no on-site recyling is applied to any waste stream containing the toxic chemical or chemical category.

Recycling Methods [enter 3-character code(s)]

1 [ ] 2 [ ] 3 [ ]

SECTION 8. SOURCE REDUCTION AND RECYCLING ACTIVITIES

		Column A Prior Year (pounds/year*)	Column B Current Reporting Year (pounds/year*)	Column C Following Year (pounds/year*)	Column D Second Following Year (pounds/year*)
8.1					
8.1a	Total on-site disposal to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills	NA	NA	NA	NA
8.1b	Total other on-site disposal or other releases	467	554	550	600
8.1c	Total off-site disposal to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills	NA	NA	NA	NA
8.1d	Total other off-site disposal or other releases	NA	NA	NA	NA
8.2	Quantity used for energy recovery onsite	NA	NA	NA	NA
8.3	Quantity used for energy recovery offsite	NA	NA	NA	NA
8.4	Quantity recycled onsite	NA	NA	NA	NA
8.5	Quantity recycled offsite	29222	36404	36000	38000
8.6	Quantity treated onsite	354004	430525	430000	440000
8.7	Quantity treated offsite	32	26	26	32
8.8	Quantity released to the environment as a result of remedial actions, catastrophic events, or one-time events not associated with production processes (pounds/year)	NA			
8.9	Production ratio or activity index	1.13			

8.10 Did your facility engage in any source reduction activities for this chemical during the reporting year? If not, enter "NA" in Section 8.10.1 and answer Section 8.11.

	Source Reduction Activities [enter code(s)]	Methods to Identify Activity (enter codes)		
8.10.1	NA	a.	b.	c.
8.10.2		a.	b.	c.
8.10.3		a.	b.	c.
8.10.4		a.	b.	c.

8.11 If you wish to submit additional optional information on source reduction, recycling, or pollution control activities with this report, check "Yes." [ ] Yes

*For Dioxin or Dioxin-like compounds, report in grams/year

SCOEPA00025068

TRI Facility ID Number
97210WCKRS7200N
Toxic Chemical, Category, or Generic Name
Hydrochloric acid (1995 and after "Acid Aerosols"

Draft

SECTION 8.11. Submit additional optional information on source reduction, recycling, or pollution control activities.

KL:033

Signature Certification for State Diskette Submission

DISK

SILTRONIC CORP.
7200 NW FRONT AVENUE
PORTLAND, OR 972103676
97210WCKRS7200N

June 12, 2007

Mariana Ruiz-Temple
Oregon Community Right-To-Know Unit
HazMat Information Manager
4760 Portland Road, Northeast
Salem, OR 97305-1760
(503) 378-1540, ext. 238
Fax: (503) 373-1825

To Whom It May Concern:

Enclosed please find one (1) microcomputer diskette containing toxic chemical release reporting information for:

SILTRONIC CORP.

This information is submitted as required under section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and the Pollution Prevention Act of 1990.

We are submitting a total of 4 chemical report(s) for our facility.

These 4 chemical report(s) are described below:

TRI Chemical or Chemical Category	Reporting Year	CAS Number	Report
Hydrochloric acid (1995 and after "Acid Aerosols" only)	2006	7647-01-0	Form R
Hydrogen fluoride	2006	7664-39-3	Form R
Nitrate compounds	2006	N511	Form R
Nitric acid	2006	7697-37-2	Form R

Our technical point of contact is:

KOREEN LAIL
(503) 219-7994
KOREEN.LAIL@SILTRONIC.COM

and is available should any questions or problems arise in the processing of this diskette.

If the enclosed diskette contains one or more Form R chemicals, then I hereby certify that I have reviewed the enclosed documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report(s) are accurate based on reasonable estimates using data available to the preparers of this report(s).

SCOEPA00025070

If the enclosed diskette contains one or more Form A chemicals, then:
Pursuant to 40 CFR 372.27(a)(1), "I hereby certify that to the best of my knowledge and belief for the toxic chemical(s) listed in this statement, for this reporting year, the annual reportable amount for each chemical, as defined in 40 CFR 372.27(a)(1), did not exceed 5,000 pounds, which included no more than 2,000 pounds of total disposal or other releases to the environment, and that the chemical was manufactured, or processed, or otherwise used in an amount not exceeding 1 million pounds during this reporting year;" and/or

Pursuant to 40 CFR 372.27(a)(2), "I hereby certify that to the best of my knowledge and belief for the toxic chemical(s) of special concern listed in this statement, there were zero disposals or other releases to the environment (including disposals or other releases that resulted from catastrophic events) for this reporting year, the "Annual Reportable Amount of a Chemical of Special Concern" for each such chemical, as defined in 40 CFR 372.27(a)(2), did not exceed 500 pounds for this reporting year, and that the chemical was manufactured, or processed, or otherwise used in an amount not exceeding 1 million pounds during this reporting year."

Sincerely,

NEIL J. NELSON
PRESIDENT

Enclosure: Diskette

SCOEPA00025071

PERMITTEE NAME/ADDRESS (Include Facility Name/Location If Different)
NAME: Siltronic Corporation Site ID 93450
ADDRESS: 7200 N. Front Ave.
Portland, OR 97210-3676
FACILITY
LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PERMIT NUMBER (2-16)	DISCHARGE NUMBER (17-19)
101128	Outfall 001

MONITORING PERIOD

FROM YEAR (20-21)	MO (22-23)	DAY (24-25)	TO YEAR (26-27)	MO (28-29)	DAY (30-31)
2007	5	1	2007	5	31

Form Approved.
OMB No. 2040-0004
Approval expires 10-31-94

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	MAXIMUM (54-61)	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	AVERAGE (46-53)	MAXIMUM (54-61)	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-69)	SAMPLE TYPE (69-70)
Process Waste Water Flow	SAMPLE MEASUREMENT	3,408	3,899	m^3/day	--	--	--	--		Continuous totalizing recorder	
	PERMIT REQUIREMENT	--	--		--	--	--				
BOD	SAMPLE MEASUREMENT	15.8	32.0	kg/day	--	4.7	8.9	mg/L		1/7	24HC
	PERMIT REQUIREMENT	154	342		--	15	30				
TSS	SAMPLE MEASUREMENT	6.6	8.2	kg/day	--	1.9	2.4	mg/L		1/7	24HC
	PERMIT REQUIREMENT	236	695		--	23	61				
Cr^{+6} (1)	SAMPLE MEASUREMENT			kg/day	--			mg/L			
	PERMIT REQUIREMENT	0.05	0.12		--	0.02	0.05				
Cr^{Total}	SAMPLE MEASUREMENT	0.009	0.055	kg/day	--	0.003	0.016	mg/L		1/7	24HC
	PERMIT REQUIREMENT	0.2	0.6		--	0.3	1.0				
Fluoride	SAMPLE MEASUREMENT	21.0	24.9	kg/day	--	6.2	7.4	mg/L		1/7	24HC
	PERMIT REQUIREMENT	178	365		--	17.4	32				
Total Phosphate	SAMPLE MEASUREMENT	--	--	--	--	0.2	0.3	mg/L		1/7	24HC
	PERMIT REQUIREMENT	--	--		--	10	15				

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
Tom McCue
Environmental Manager
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC 1001 AND 33 USC 1319 [illegible]

Siltronic Corp. by
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 503 NUMBER 243-2020

DATE: YEAR 07 MO 6 DAY 12

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
(1) Chrome batches are no longer being treated on site. pH Excursion: None.

EPA Form 3320-1 (Rev. 8-82) Previous editions may be used. (REPLACES EPA FORM T-49 WHICH MAY NOT BE USED.)

EC.032

SCOEPA00025072

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
NAME: Siltronic Corporation Site ID 93450
ADDRESS: 7200 NW Front Ave.
Portland, OR 97210-3676
FACILITY
LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16) PERMIT NUMBER	(17-18) DISCHARGE NUMBER
101128	Outfall 001

MONITORING PERIOD

FROM YEAR (19-21)	MO (22-23)	DAY (24-25)	TO YEAR (26-27)	MO (28-29)	DAY (30-31)
2007	5	1	2007	5	31

Form Approved.
OMB No. 2040-0004
Approval expires 10-31-94

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) (46-53) QUANTITY OR LOADING (54-61) AVERAGE	MAXIMUM	UNITS	(4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53) MINIMUM	AVERAGE	MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
TTO	SAMPLE MEASUREMENT	--	--	kg/day	--	--	<0.02	mg/L		1/ 30	Grab
	PERMIT REQUIREMENT	--	--		--	--	1.37				
Turbidity	SAMPLE MEASUREMENT					0.8	2.0	NTC		6/1	Grab
	PERMIT REQUIREMENT									One sample every 4 hours	
pH excursions > 60 minutes	SAMPLE MEASUREMENT								0	monthly	
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
Tom McCue
Environmental Manager
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC 1001 AND 33 USC 1319 [illegible]

Siltronic Corp. by:
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 503 | NUMBER 243-2020

DATE: YEAR 07 | MO 6 | DAY 12

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

SCOEPA00025073

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
NAME: Siltronic Corporation Site ID 93450
ADDRESS: 7200 N. Front Ave.
Portland, OR 97210-3676
FACILITY
LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16) PERMIT NUMBER	(17-18) DISCHARGE NUMBER
101128	Outfall 002

MONITORING PERIOD

	YEAR (30-31)	MO (22-23)	DAY (24-25)		YEAR (26-27)	MO (28-29)	DAY (30-31)
FROM	2007	5	1	TO	2007	5	31

Form Approved.
OMB No. 2040-0004
Approval expires 10-31-94

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) (46-53) QUANTITY OR LOADING (54-61) AVERAGE	MAXIMUM	UNITS	(4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53) MINIMUM	AVERAGE (54-61)	MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
MV-3 Flow	SAMPLE MEASUREMENT	255	659	m^3/day	--	--	--	--		Continuous	
	PERMIT REQUIREMENT	--	--		--	--	--				
MV-3 Total phosphates	SAMPLE MEASUREMENT	--	--	--	--	0.2	0.3	mg/L		1/ 7	Grab
	PERMIT REQUIREMENT	--	--		--	10	15				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
Tom McCue
Environmental Manager
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 [illegible]

Siltronic Corp. by:
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 503 | NUMBER 243-2020

DATE: YEAR 07 | MO 6 | DAY 12

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

SCOEPA00025074

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME: Siltron[illegible]rporation Site ID 93450

ADDRESS: 7200 N[illegible] Front Ave.
Portland, OR 97210-3676

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PERMIT NUMBER (2-16)	DISCHARGE NUMBER (17-19)
101128	Outfall 003

Form Approved.
OMB No. 2040-0004
Approval expires 10-31-94

MONITORING PERIOD

	YEAR (30-31)	MO (32-33)	DAY (34-35)		YEAR (36-37)	MO (38-39)	DAY (40-41)
FROM	2007	5	1	TO	2007	5	31

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Outfall flow	SAMPLE MEASUREMENT	3,663	4,111	m^3/day	--	--	--	--		Continuous	
	PERMIT REQUIREMENT	--	--		--	--	--				
Outfall temperature	SAMPLE MEASUREMENT	--	--	--	--	--	78.6	°F		1/ 7	Grab
	PERMIT REQUIREMENT	--	--		--	--	85				
Outfall pH	SAMPLE MEASUREMENT	--	--	--	6.07	7.28	8.45			Continuous	
	PERMIT REQUIREMENT	--	--		6.0	--	9.0				
pH excursions > 60 minutes	SAMPLE MEASUREMENT								0	Daily average	
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Tom McCue
Environmental Manager

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC 1001 AND 33 USC 1319 [illegible]

Siltronic Corp. by:

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 503 NUMBER 243-2020

DATE: YEAR 07 MO 6 DAY 12

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

SCOEPA00025075

SUPPLEMENTAL DATA

Siltronic Corporation Site ID 93450
7200 NW Front Avenue
Portland, Oregon 97210-3676

Permit Number: 101128
May-07 Discharge Data

Outfal # 001												
Date	BOD mg/L	BOD Weekly Loading	TSS mg/L	TSS Weekly Loading	Fluoride mg/L	Fluoride Weekly Loading	Total Cr mg/L	Total Cr Weekly Loading	Cr^{+6} mg/L Daily Avg.	Cr^{+6} mg/L Monthly Avg.	Cr^{+6} Loading Monthly Avg.	Cr^{+6} Loading Daily Max
3	2.0	14.30	2.4	8.2	5.6	19.2	0.0005	0.0284	0.000	0.000	0.000	0.000
10	6.3	18.1	1.9	6.0	6.0	19.0	0.0005	0.0015	0.000	0.000	0.000	0.000
18	8.9	32.0	2.1	7.5	6.8	24.4	0.0005	0.0018	0.000	0.000	0.000	0.000
24	2.0	6.7	1.9	6.3	5.2	17.3	0.0005	0.0017	0.000	0.000	0.000	0.000
30	2.0	6.7	1.4	4.7	7.4	24.9	0.0005	0.0017	0.000	0.000	0.000	0.000
3	6.3	n/a					0.0160	n/a				
10	5.2	n/a					0.00045	n/a				

(001) DAILY FLOW'S		(001) Turbidity Daily Avg		(001) pH Daily Avg	
Day	M3	Day	NTU's	Day	pH
1	3483	1	0.9	1	7.8
2	3555	2	1.1	2	8.5
3	3752	3	0.8	3	8.1
4	3574	4	0.9	4	8.1
5	3763	5	0.8	5	7.8
6	3627	6	0.8	6	7.8
7	3377	7	0.7	7	7.9
8	4111	8	0.8	8	7.8
9	3536	9	0.8	9	7.9
10	3377	10	0.8	10	7.8
11	3479	11	0.8	11	7.8
12	3615	12	0.8	12	7.7
13	3672	13	1.1	13	8.1
14	3593	14	0.9	14	7.8
15	3755	15	0.8	15	7.8
16	4032	16	1.1	16	7.8
17	3680	17	1.0	17	7.8
18	3789	18	0.6	18	7.8
19	3653	19	0.6	19	7.8
20	3774	20	0.7	20	8.2
21	3717	21	0.7	21	7.9
22	3865	22	0.7	22	7.6
23	3702	23	0.6	23	8.0
24	3585	24	0.7	24	7.7
25	3290	25	0.9	25	7.8
26	3948	26	0.9	26	8.2
27	3521	27	0.6	27	8.2
28	3740	28	0.5	28	8.3
29	3551	29	0.5	29	8.3
30	3687	30	0.6	30	7.9
31	3468	31	0.7	31	7.8
Total:	113269				

(002) DAILY FLOW'S	
Day	M3
1	182
2	303
3	314
4	117
5	530
6	273
7	129
8	212
9	140
10	212
11	129
12	193
13	178
14	189
15	273
16	659
17	185
18	201
19	250
20	212
21	299
22	227
23	299
24	257
25	220
26	409
27	182
28	326
29	216
30	318
31	288
Total:	113557

Outfall # 002	Outfall # 003	
Phosphate mg/L	Cl_2 Free Available Daily Max mg/L	Cl_2 Free Available Monthly Avg. mg/L
0.098	0.000	0.000
0.302	0.000	0.000
0.151	0.000	0.000
0.186	0.000	0.000
0.137	0.000	0.000

For Bod & Total Cr samples: The calculation for the loading includes both samples for the 3rd and the 10th (qualifying alternate lab).

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Koreen Lail
Environmental Engineer

Siltronic Corporation
7200 NW Front Avenue, M/S 30
Portland OR 97210-3676, USA
Tel. 503-219-7994
Fax 503-219-7599
koreen.lail@siltronic.com

Brian Laurent
Bureau of Environmental Services
City of Portland
6543 N. Burlington Avenue
Portland, Oregon 97203-5452

ER: 031.KLL

June 11, 2007

May 2007 Industrial Discharge Report

Dear Mr. Laurent,

Enclosed is the May 2007 monthly Industrial Discharge Reports for Siltronic Corporation Municipal Discharge Permit Number 469.001. Siltronic has operated in compliance with the Permit for this reporting period.

If you have any questions, please contact Koreen Lail.

Regards,

Koreen Lail
Siltronic Corporation
Environmental Engineer

Enclosures:
Special Account Meter Report Document
Industrial Wastewater Discharge Self-Monitoring Report

cc: Tom Rothschild
POTW-IDR File

CITY OF PORTLAND
INDUSTRIAL WASTEWATER DISCHARGE
SELF-MONITORING REPORT

INDUSTRY NAME: Siltronic Corporation

PERMIT NUMBER: 469.001

REPORT DUE DATE: 15th of the Month following the sampling period.

SAMPLING PERIOD: May 2007

For Industrial Source Control Division Use Only	
Date Postmarked/Received	Date Entered
	Entered By:
Comments:	

pH GRAB SAMPLE - EPA METHOD 150.1

POINT OF COMPLIANCE	pH METER BRAND	pH METER MODEL	pH Discharge Limits
#1B (Fab 2)	Orion	720A	5.0 - 11.5 S.U.

Date of Sample	Time of Sample	Reported pH Value	Violation? (circle one)		pH Meter Calibration Date	pH Meter Calibration Buffer used	COMMENTS
18 May 2007	1245	10.0	YES	(NO)	18 May 2007	7.0 and 10.0	

CONTINUOUSLY MONITORED pH - EPA METHOD 150.2

POINT OF COMPLIANCE	pH METER BRAND	pH METER MODEL	pH Limit
#1B (Fab 2)	Foxboro	873	5.0 - 11.5 S.U.

DATE	STARTING TIME (military time)	MOST EXTREME pH EXCURSION	DURATION (minutes)	VIOLATION? (circle one)		COMMENTS
May 2007		No Excursiions		YES	NO	
				YES	NO	
				YES	NO	
				YES	NO	

Instructions: Industrial Source Control Division (ISCD) must be notified of all discharge violations within 24 hours of your knowledge of the violation. Report all pH excursions on this form and circle YES if they are a violation. Include any appropriate comments in the Comment column regarding the nature of the excursion. Attach supporting data or explanations to this report. You are also required to document corrective actions you have taken in response to the excursion.

Violations:
1. pH excursions outside the range of 5.0 - 11.5 SU for a total duration of more than 15 minutes in any 24 hour period.
2. pH excursions less than or equal to 4.5 SU or greater than or equal to 12.5 SU regardless of duration.

Non-Violations: You may contend an excursion does not represent a pH discharge violation if it does not meet the criteria listed above. Circle NO in the VIOLATION? Column and include a copy of the pH log or pH chart recording showing the excursion. The final violation status of the excursion will be determined by the ISCD.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: Karen Lail for Siltronic Date: 6/11/07

SCOEPA00025078

4640175004
SUSC SILTRONICS OWW & MV2
C. Justin Darr
243-2020 x7131

Siltronic Corporation
PO Box 83180
Portland, Oregon 97283-0180

SPECIAL ACCOUNT METER REPORT DOCUMENT

May-07

1. OWW DISCHARGE

ACTUAL READINGS

	FAB 1	FAB 2	
PAST READING	109367	543,741	100s of GALLONS)
CURRENT READING	109367	731,550	100s of GALLONS)
CONSUMPTION	0	187,809	100s of GALLONS)
TOTAL THROUGH OVERFLOW LINE	0		(100s of GALLONS)
TOTAL CONSUMPTION	1,878,090	10s of GALLONS)	

READINGS CONVERTED TO CUBIC FEET

CONSUMPTION	1,878,090	* 10 GAL / 7.48 GAL/CF =	2,510,816	CF
TOTAL THROUGH OVERFLOW	0	* 10 GAL / 7.48 GAL/CF =	0	CF
TOTAL CONSUMPTION			2,510,816	CF

2. METER VAULT #2 (Sanitary)

ACTUAL READINGS

PAST READING	2,545,985	(10s of GALLONS)
CURRENT READING	2,593,470	(10s of GALLONS)
CONSUMPTION	47,485	(10s of GALLONS)

READINGS CONVERTED TO CUBIC FEET

CONSUMPTION	47,485	* 10 GAL / 7.48 GAL/CF=	63,483	CF

This meter reading was reported by: C. Justin Darr on date 6/1/07

Sent to: Bureau of Enviromental Services City of Portland
Water Pollution Control Lab, Attn: Brian Laurent
6543 N Burlington Avenue, Portland, Oregon 97203-5452

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Koreen Lail
Environmental Affairs

Siltronic Corporation
7200 NW Front Avenue, M/S 30
Portland OR 97210-3676, USA
Tel. 503-219-7994
Fax 503-219-7599
koreen.lail@siltronic.com

ER:030KLL

Mr. Dennis Jurries, PE
Oregon Department of Environmental Quality
Water Quality Source Control Storm Water
2020 SW 4th Avenue, Suite 400
Portland, Oregon 97201-4987

June 1st, 2007

Industrial Storm Water NPDES 1200-Z Monitoring Report for July 1, 2006 to June 30, 2007

Dear Mr. Jurries,

Attached is Siltronic Corporation's Industrial Storm Water NPDES 1200-Z Monitoring Report for July 1, 2006 to June 30, 2007 as required by Siltronic's NPDES Storm Water Discharge Permit number 1200-Z issued October 1, 2002. Sampling was conducted November 2, 2006, May 2, 2007, and May 21, 2007.

The November 2, 2006, sampling of the east sample point indicated an exceedance of the benchmark for copper. Upon investigation, it was determined that the sample tube at the east storm water collection site was drawing its sample from the bottom of the pipe instead of midflow. This observation is supported by the TSS data which is higher than usual but below the benchmark. A work order was written to shorten the line 3 inches and Metro Rooter was called out to clean out the catch basin/manhole where the sample was taken.

During the May 3rd, sampling event, the south sample point oil and grease bottle was broken before the tests could be run. Additionally, the east sample was above benchmark for oil and grease. Upon investigation of the east sample point, it was determined that the bottle probably hit the bottom of the pipe during the sampling process since the depth of the water was low. The oil & grease samples for both the east and south sample points were re-taken on May 21st. The east oil & grease sample was taken from the end of the outfall pipe in order to avoid the prior issue.

Our investigation of the east sampling point also indicated that the outfall is somewhat obstructed by rocks and tress which tends to back up the flow in the storm water line. We are currently looking into how to remove this obstruction. After removal of this obstruction, we are also considering permanently moving our east sampling point to this outfall location in order to improve the sampling technique.

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The following materials are enclosed in this report:

1. A summary of the results for 2006-2007 including sample results, bench marks, detection limits and analytical methods used.
2. Siltronic Corporation laboratory bench sheets for TSS and pH.
3. Copies of outside laboratory reports including the chain of custody forms for copper, lead, zinc, and total oil & grease.

If you have any questions or comments, please contact me.

Best regards,

Koreen Lail
Siltronic Corporation
Environmental Affairs

CC: Loren Shelley
BES Storm Water File
Tom Rothschild

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Summary of Results for 2006 - 2007

PARAMETER	Sample date	North results	South results	East results	BENCH MARK	Units	Detection limit	Method & Comments
Copper	11/2/06	0.00911	0.00911	0.604	0.1	mg/L	0.03	EPA 200.8 (11/2 exceedance due to sample tube at the east storm water collection site drawing its sample from the bottom of the pipe instead of midflow).
	5/2/07	0.0220	0.0112	0.0305				
Lead	11/2/06	0.00349	0.00166	0.0125	0.4	mg/L	0.005	EPA 200.8
	5/2/07	0.00400	0.00398	0.00618				
Zinc	11/2/06	0.164	0.260	0.458	0.6	mg/L	0.05	EPA 200.8
	5/2/07	0.203	0.0309	0.193				
pH	11/2/06	6.44	6.35	6.37	5.5-9	pH units	0.1	Standards Methods 1998, 20th ed, Section 4500-H^+
	5/2/07	5.63	5.97	6.14				
TSS	11/2/06	18.2	9.6	78.2	130	mg/L	0.1	Standards Methods 1998, 20th ed, Section 2540 D (11/2 increase in TSS due to sample tube at the east storm water collection site drawing its sample from the bottom of the pipe instead of midflow)
	5/2/07	26.5	33.8	27.0				
Oil and Grease	11/2/06	<3.97	<4.9	<4.55	10	mg/L	3	EPA 1664A (5/2 n/a on south sample point oil and grease due to bottle being broken 5/2 exceedance at east sample point, probably due to hitting the bottom of the pipe during the sampling process because the depth of the water was low.
	5/2/07	<4.00	n/a	39.4				
Oil and Grease resample	5/21/07	n/a	<4.08	<4.13	10	mg/L	3	EPA 1664A (retest for oil and grease)

Industrial Source Control Division

INDUSTRIAL STORMWATER

NPDES 1200-Z MONITORING REPORT

Industry Name: Siltronic Corporation

Site Address: 7200 NW Front Ave., Portland, OR 97210-3676

The permittee shall monitor stormwater **twice** per year for the parameters outlined in their NPDES 1200-Z Stormwater Discharge Permit Schedule B.1.a., and submit results to the City as stated in Schedule D.2.

Stormwater samples were taken for the above permittee, on these days and at these sample points:

Sample Date(s)	Sample Point(s)
11/2/06	North, East, South
5/2/07	North, East, South
5/21/07	East, South

The permittee shall submit by **July 15** of each year a copy of the **laboratory analysis reports,** which show analytical methods and detection limits, for stormwater samples collected for the previous monitoring year (July 1- June 30).

☐ **Monitoring Waiver Reduction Notification**:
Check the box if your facility is exercising a waiver of monitoring based on meeting benchmarks listed in Schedule A.9., AND site conditions have not changed to impact stormwater run-off. Note: This does not exclude your facility from notifying DEQ about the waiver of monitoring. Please read Schedule B of the permit to clearly understand the monitor waiver reduction guidelines. If waiver request is for select pollutants, list the parameters excluded from monitoring: _____.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: Karen Said for Siltronic
Title: Environmental Engineer
Date: 6/11/07

Revised 6/1/2007

RECEIVED NOV 17 2006

TestAmerica
ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

November 15, 2006

Thomas Rothschild
Siltronic
7200 N.W. Front Ave
Portland, OR 97210

RE: Storm Water

Enclosed are the results of analyses for samples received by the laboratory on 11/02/06 17:10. The following list is a summary of the Work Orders contained in this report, generated on 11/15/06 18:08.

If you have any questions concerning this report, please feel free to contact me.

Work Order	Project	ProjectNumber
PPK0120	Storm Water	PO# 4500186654

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Brian Cone, Industrial Services Manager

SCOEPA00025084

TestAmerica
ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Storm Water**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	11/15/06 18:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
06-96-SW-N	PPK0120-01	Water	11/02/06 09:15	11/02/06 17:10
06-97-SW-S	PPK0120-02	Water	11/02/06 08:45	11/02/06 17:10
06-98-SW-E	PPK0120-03	Water	11/02/06 09:50	11/02/06 17:10
06-97-SW-SA	PPK0120-04	Water	11/02/06 08:45	11/02/06 17:10

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Brian Cone, Industrial Services Manager

SCOEPA00025085

TestAmerica
ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Storm Water**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	11/15/06 18:08

Total Metals by EPA 200 Series Methods

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PPK0120-01 (06-96-SW-N)		**Water**			**Sampled: 11/02/06 09:15**					
Copper	EPA 200.8	0.00911	----	0.00100	mg/l	1x	6K08050	11/08/06 13:23	11/09/06 16:03	
Lead	"	0.00349	----	0.00100	"	"	"	"	"	
Zinc	"	0.164	----	0.0100	"	"	"	"	"	
PPK0120-02 (06-97-SW-S)		**Water**			**Sampled: 11/02/06 08:45**					
Copper	EPA 200.8	0.00911	----	0.00100	mg/l	1x	6K08050	11/08/06 13:23	11/09/06 16:09	
Lead	"	0.00166	----	0.00100	"	"	"	"	"	
Zinc	"	0.260	----	0.0100	"	"	"	"	"	
PPK0120-03 (06-98-SW-E)		**Water**			**Sampled: 11/02/06 09:50**					
Lead	EPA 200.8	0.0125	----	0.00100	mg/l	1x	6K08050	11/08/06 13:23	11/09/06 16:26	
PPK0120-03RE1 (06-98-SW-E)		**Water**			**Sampled: 11/02/06 09:50**					
Copper	EPA 200.8	0.604	----	0.00200	mg/l	2x	6K08050	11/08/06 13:23	11/10/06 06:22	
Zinc	"	0.458	----	0.0200	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Brian Cone, Industrial Services Manager

SCOEPA00025086

TestAmerica
ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Storm Water**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	11/15/06 18:08

Conventional Chemistry Parameters by APHA/EPA Methods

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PPK0120-01 (06-96-SW-N)		**Water**				**Sampled: 11/02/06 09:15**				
Oil & Grease (HEM)	EPA 1664A	ND	----	3.97	mg/l	1x	6K08023	11/08/06 09:32	11/08/06 18:21	
PPK0120-02 (06-97-SW-S)		**Water**				**Sampled: 11/02/06 08:45**				
Oil & Grease (HEM)	EPA 1664A	ND	----	4.90	mg/l	1x	6K08023	11/08/06 09:32	11/08/06 18:21	
PPK0120-03 (06-98-SW-E)		**Water**				**Sampled: 11/02/06 09:50**				
Oil & Grease (HEM)	EPA 1664A	ND	----	4.55	mg/l	1x	6K08023	11/08/06 09:32	11/08/06 18:21	
PPK0120-04 (06-97-SW-SA)		**Water**				**Sampled: 11/02/06 08:45**				
Oil & Grease (HEM)	EPA 1664A	10.1	----	3.97	mg/l	1x	6K08023	11/08/06 09:32	11/08/06 18:21	

TestAmerica - Portland, OR

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Brian Cone, Industrial Services Manager

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ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Storm Water**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	11/15/06 18:08

Total Metals by EPA 200 Series Methods - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6K08050 **Water Preparation Method: EPA 200 Series**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6K08050-BLK1)								Extracted: 11/08/06 13:23						
Copper	EPA 200.8	ND	---	0.00100	mg/l	1x	--	--	--	--	--	--	11/09/06 14:04	
Lead	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Zinc	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
LCS (6K08050-BS1)								Extracted: 11/08/06 13:23						
Zinc	EPA 200.8	0.0903	---	0.0100	mg/l	1x	--	0.0800	113%	(85-115)	--	--	11/09/06 14:10	
Lead	"	0.0810	---	0.00100	"	"	--	"	101%	"	--	--	"	
Copper	"	0.0808	---	0.00100	"	"	--	"	101%	"	--	--	"	
Duplicate (6K08050-DUP1)					QC Source: BPK0143-01			Extracted: 11/08/06 13:23						
Lead	EPA 200.8	0.00105	---	0.00100	mg/l	1x	0.00109	--	--	--	3.74%	(20)	11/09/06 14:27	
Copper	"	0.00290	---	0.00100	"	"	0.00321	--	--	--	10.1%	"	"	
Duplicate (6K08050-DUP2)					QC Source: BPK0143-01RE1			Extracted: 11/08/06 13:23						
Zinc	EPA 200.8	0.518	---	0.0200	mg/l	2x	0.516	--	--	--	0.387%	(20)	11/10/06 06:04	
Matrix Spike (6K08050-MS1)					QC Source: BPK0143-01			Extracted: 11/08/06 13:23						
Lead	EPA 200.8	0.0826	---	0.00100	mg/l	1x	0.00109	0.0800	102%	(75-125)	--	--	11/09/06 14:16	
Copper	"	0.0832	---	0.00100	"	"	0.00321	"	100%	"	--	--	"	
Matrix Spike (6K08050-MS2)					QC Source: BPK0147-01			Extracted: 11/08/06 13:23						
Lead	EPA 200.8	0.0818	---	0.00100	mg/l	1x	0.000270	0.0800	102%	(75-125)	--	--	11/09/06 14:22	
Zinc	"	0.166	---	0.0100	"	"	0.0850	"	101%	"	--	--	"	
Copper	"	0.0836	---	0.00100	"	"	0.00254	"	101%	"	--	--	"	
Matrix Spike (6K08050-MS3)					QC Source: BPK0143-01RE1			Extracted: 11/08/06 13:23						
Copper	EPA 200.8	0.0813	---	0.00200	mg/l	2x	0.00321	0.0800	97.6%	(75-125)	--	--	11/10/06 05:58	

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BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Storm Water**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	11/15/06 18:08

Conventional Chemistry Parameters by APHA/EPA Methods - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6K08023 **Water Preparation Method: Gravimetric (hexane)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6K08023-BLK1)								**Extracted: 11/08/06 09:32**						
Oil & Grease (HEM)	EPA 1664A	ND	---	5.00	mg/l	1x	--	--	--	--	--	--	11/08/06 18:21	
LCS (6K08023-BS1)								**Extracted: 11/08/06 09:32**						
Oil & Grease (HEM)	EPA 1664A	36.9	---	5.00	mg/l	1x	--	40.0	92.2%	(78-114)	--	--	11/08/06 18:21	
LCS Dup (6K08023-BSD1)								**Extracted: 11/08/06 09:32**						
Oil & Grease (HEM)	EPA 1664A	39.0	---	5.00	mg/l	1x	--	40.0	97.5%	(78-114)	5.53%	(18)	11/08/06 18:21	

TestAmerica - Portland, OR

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Brian Cone, Industrial Services Manager

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11922 E. First Ave, Spokane, WA 99206-5302 509-924-9200 FAX 924-9290
9405 SW Nimbus Ave, Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #:

CLIENT: Siltronic

INVOICE TO: Accts. Payable

REPORT TO: Tom Rothschild
ADDRESS: 7200 NW Front Ave
Portland, OR
PHONE: 503-219-7371 FAX: 503-219-4144

P.O. NUMBER: 4500186654

PROJECT NAME: STORM WATER. FALL-06
PROJECT NUMBER: 96-98
SAMPLED BY: TR/PW

TURNAROUND REQUEST
in Business Days *
Organic & Inorganic Analyses: [X] STD. | 7 | 5 | 4 | 3 | 2 | 1 | <1
Petroleum Hydrocarbon Analyses: 5 STD. | 4 | 3 | 2 | 1 | <1
OTHER Specify:
* Turnaround Requests less than standard may incur Rush Charges.

CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	PRESERVATIVE	REQUESTED ANALYSES: oil/grease (1664)	Cu 200.8	Pb 200.8	Zn 200.8	MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	TA WO ID
1 06-96-SW-N	11/2/06 0915		X	X	X	X	2			
2 06-97-SW-S	11/2/06 0845		X	X	X	X	2			
3 06-98-SW-E	11/2/06 0950		X	X	X	X	2			
4 06-97-SW-SA	11/2/06 0815		X				1			
5										
6										
7										
8										
9										
10										

RELEASED BY: Dianne Irish
PRINT NAME: Dianne Irish FIRM: Siltronic DATE: 11/2/06 TIME: 13:33

RECEIVED BY: Bob F
PRINT NAME: Bob F FIRM: TAP DATE: 11/2/06 TIME: 13:33

RELEASED BY: PRINT NAME: FIRM: DATE: TIME:

RECEIVED BY: PRINT NAME: FIRM: DATE: TIME:

ADDITIONAL REMARKS:

TEMP:

COC REV 05/2006 PAGE OF

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and for any additional analyses performed on this project.
Payment for services is due within 30 days from the date of invoice unless otherwise contracted. Sample(s) will be disposed of after 30 days unless otherwise contracted.

SCOEPA00025090

BENCHSHEET

TOTAL SUSPENDED SOLIDS (TSS)

Sample Date: 11/2/06 Oven Temp: 104 C Analyst: DI

Date In: 11/2/06 Time In/Out: 1015 / 1310

Tin #	Sample	Vol, ml	Gross Wt, g	Tare Wt, g	TSS, mg/L
1	Blank	NA	0.0901	0.0901	0
6	North	500	0.0980	0.0892	17.6
7	North	500	0.0990	0.0896	18.8
				North Average TSS	18.2
10	East	250	0.1074	0.0891	73.2
13	East	250	0.1079	0.0871	83.2
				East Average TSS	78.2
8	South	500	0.0963	0.0914	9.8
9	South	500	0.0945	0.0898	9.4
				South Average TSS	9.6

North

East

South

ion: TSS, mg/L = $\frac{\text{(Gross Wt, mg - Tare Wt, mg) X 1000}}{\text{Volume of Sample, ml}}$

DES permit: monthly avg. 23 mg/L, daily max. 61 mg/L.
W permit: daily max 350 mg/L.

1. Standard Methods for the Examination of Water and Wastewater, 1998, 20th Edition, Section 2540 D, page 2-57.
2. National Pollution Discharge Elimination System Permit #101128.

TJR 21 Mar 1987
DEI 12 Nov 2003 Revised

LAB\DIANNES\storm water\TSSSWB.DOC

BENCHSHEET

pH

Test Date: 11.2.06 Sample Date: 11.2.06 Analyst: DJ

Slope: 100.1 (Range: 92 to 102%)

Standards:

4.0 mg/L: Lot #: 1603735 Date Opened: 8/18/06

7.0 mg/L: Lot #: 1504752 Date Opened: 11/1/05

10.0 mg/L: Lot #: 1506586 Date Opened: 4/6/06

Sample	pH Units
North	6.44
East	6.37
South	6.35

Notes: _____

_____

_____

Reference: 1. Standard Methods For The Examination of Water And Wastewater, 1998, 20th Edition, Section 4500-H^+B page 4-87.

DEI 13 Aug 2003

N:\ENVIRONMENTAL\FACLAB\DIANNES\STORM WATER\PHB.DOC

Siltronic Corporation Storm Water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

DATE:	11/2/06		INITIAL: DT		
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Floating Solids	No visible discharge	Yes or No	No	YES	No
Oil and Grease Sheen*	No visible sheen	Yes or No	No	No	No

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

STORM WATER SAMPLING – Semiannual:

DATE:	11/2/06	INITIAL:	DT		
PARAMETER	**BENCHMARK[1]**	**UM**	North 06-96	East 06-98	South 06-97
Total Copper	0.1	mg/L	0.00911	0.604	0.00911
Total Lead	0.4	mg/L	0.00349	0.0125	0.00166
Total Zinc	0.6	mg/L	0.164	0.458	0.260
PH	5.5-9	Su	6.44	6.37	6.35
TSS	130	mg/L	18.2	78.2	9.6
Oil and Grease	10	mg/L	<3.97	<4.55	<4.9

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Koreen Lail in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Koreen Lail.

N:\ENVIRONMENTAL\FACLAB\WWTP\LOG\STORMWATER.DOC

RECEIVED MAY 17 2007

TJR

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

May 16, 2007

Thomas Rothschild
Siltronic
7200 N.W. Front Ave
Portland, OR 97210

RE: Storm Water

Enclosed are the results of analyses for samples received by the laboratory on 05/03/07 14:45. The following list is a summary of the Work Orders contained in this report, generated on 05/16/07 18:35.

If you have any questions concerning this report, please feel free to contact me.

Work Order	Project	ProjectNumber
PQE0170	Storm Water	Spring 2007

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Brian Cone, Industrial Services Manager

SCOEPA00025094

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ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Storm Water**	
7200 N.W. Front Ave	Project Number:	Spring 2007	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	05/16/07 18:35

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
07-49-N	PQE0170-01	Water	05/02/07 12:45	05/03/07 14:45
07-50-S	PQE0170-02	Water	05/02/07 13:00	05/03/07 14:45
07-51-E	PQE0170-03	Water	05/02/07 13:15	05/03/07 14:45

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ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Storm Water**	
7200 N.W. Front Ave	Project Number:	Spring 2007	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	05/16/07 18:35

Oil and Grease Analysis per EPA Method 1664

TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQE0170-01 (07-49-N)		**Water**				**Sampled: 05/02/07 12:45**				
Oil & Grease	EPA 1664	ND	----	4.00	mg/l	1x	7050531	05/10/07 14:10	05/11/07 16:01	
PQE0170-03 (07-51-E)		**Water**				**Sampled: 05/02/07 13:15**				
Oil & Grease	EPA 1664	39.4	----	4.00	mg/l	1x	7050531	05/10/07 14:10	05/11/07 16:01	

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Brian Cone, Industrial Services Manager

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ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Storm Water**	
7200 N.W. Front Ave	Project Number:	Spring 2007	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	05/16/07 18:35

Total Metals per EPA 200 Series Methods

TestAmerica - Portland, OR

Analyte	Method	Result	MDL[a]	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQE0170-01 (07-49-N)		**Water**				**Sampled: 05/02/07 12:45**				
Copper	EPA 200.8	0.0220	-----	0.00200	mg/l	1x	7050312	05/07/07 11:05	05/11/07 21:31	
Lead	"	0.00400	-----	0.00100	"	"	"	"	"	
Zinc	"	0.203	-----	0.00500	"	"	"	"	"	
PQE0170-02 (07-50-S)		**Water**				**Sampled: 05/02/07 13:00**				
Copper	EPA 200.8	0.0112	-----	0.00200	mg/l	1x	7050312	05/07/07 11:05	05/11/07 21:47	
Lead	"	0.00398	-----	0.00100	"	"	"	"	"	
Zinc	"	0.0309	-----	0.00500	"	"	"	"	"	
PQE0170-03 (07-51-E)		**Water**				**Sampled: 05/02/07 13:15**				
Copper	EPA 200.8	0.0305	-----	0.00200	mg/l	1x	7050312	05/07/07 11:05	05/11/07 22:02	
Lead	"	0.00618	-----	0.00100	"	"	"	"	"	
Zinc	"	0.193	-----	0.00500	"	"	"	"	"	

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Siltronic	Project Name:	**Storm Water**	
7200 N.W. Front Ave	Project Number:	Spring 2007	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	05/16/07 18:35

Oil and Grease Analysis per EPA Method 1664 - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 7050531 **Water Preparation Method: O&G prep CE**

Analyte	Method	Result	MDL[A]	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7050531-BLK1)								Extracted: 05/10/07 12:10						
Oil & Grease	EPA 1664	ND	---	5.00	mg/l	1x	--	--	--	--	--	--	05/11/07 16:01	
LCS (7050531-BS1)								Extracted: 05/10/07 12:10						
Oil & Grease	EPA 1664	36.8	---		mg/l	1x	--	40.2	91.5%	(78-114)	--	--	05/11/07 16:01	

Brian Cone, Industrial Services Manager

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Siltronic	Project Name:	**Storm Water**	
7200 N.W. Front Ave	Project Number:	Spring 2007	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	05/16/07 18:35

Total Metals per EPA 200 Series Methods - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 7050312 **Water Preparation Method: EPA 200/3005**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7050312-BLK1)									Extracted: 05/07/07 11:05					
Copper	EPA 200.8	ND	---	0.00200	mg/l	1x	--	--	--	--	--	--	05/11/07 21:15	
Lead	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Zinc	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
LCS (7050312-BS1)									Extracted: 05/07/07 11:05					
Copper	EPA 200.8	0.0922	---	0.0100	mg/l	5x	--	0.100	92.2%	(85-115)	--	--	05/11/07 21:24	
Lead	"	0.101	---	0.00500	"	"	--	"	101%	"	--	--	"	
Zinc	"	0.0990	---	0.0250	"	"	--	"	99.0%	"	--	--	"	
Duplicate (7050312-DUP1)					QC Source: PQE0170-01				Extracted: 05/07/07 11:05					
Copper	EPA 200.8	0.0217	---	0.00200	mg/l	1x	0.0220	--	--	--	1.37%	(20)	05/11/07 21:39	
Lead	"	0.00395	---	0.00100	"	"	0.00400	--	--	--	1.26%	"	"	
Zinc	"	0.197	---	0.00500	"	"	0.203	--	--	--	3.00%	"	"	
Matrix Spike (7050312-MS1)					QC Source: PQE0170-03				Extracted: 05/07/07 11:05					
Copper	EPA 200.8	0.124	---	0.00200	mg/l	1x	0.0305	0.100	93.5%	(75-125)	--	--	05/11/07 22:17	
Lead	"	0.105	---	0.00100	"	"	0.00618	"	98.8%	"	--	--	"	
Zinc	"	0.275	---	0.00500	"	"	0.193	"	82.0%	(70-130)	--	--	"	
Matrix Spike (7050312-MS2)					QC Source: PQE0170-02				Extracted: 05/07/07 11:05					
Copper	EPA 200.8	0.104	---	0.00200	mg/l	1x	0.0112	0.100	92.8%	(75-125)	--	--	05/11/07 21:56	
Lead	"	0.101	---	0.00100	"	"	0.00398	"	97.0%	"	--	--	"	
Zinc	"	0.114	---	0.00500	"	"	0.0309	"	83.1%	(70-130)	--	--	"	

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Brian Cone, Industrial Services Manager

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BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Storm Water**	
7200 N.W. Front Ave	Project Number:	Spring 2007	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	05/16/07 18:35

Notes and Definitions

Report Specific Notes:

None

Laboratory Reporting Conventions:

DET	-	Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
ND	-	Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
NR/NA	-	Not Reported / Not Available
dry	-	Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
wet	-	Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
RPD	-	RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
MRL	-	METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
MDL*	-	METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
Dil	-	Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
Reporting Limits	-	Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
Electronic Signature	-	Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Brian Cone, Industrial Services Manager

SCOEPA00025100

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ANALYTICAL TESTING CORPORATION

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9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 (503) 906-9200 FAX 906-9210
20354 Empire Avenue, Suite E-9, Bend, OR 97708-1883 (541) 383-9310 FAX 382-7588

CHAIN OF CUSTODY REPORT

Work Order #: PQE0170

CLIENT: SILTRONIC CORPORATION
REPORT TO: TOM ROTHSCHILD
ADDRESS: 7200 NW FRONT AVE
PORTLAND, OREGON 97210
PHONE: 503-219-7374 FAX: 503-219-4144

INVOICE TO. ACCOUNTS PAYABLE
7200 NW FRONT AVE
PORTLAND, OREGON 97210

P.O. NUMBER: 4500186654

PROJECT NAME: Stormwater Spring 2007
PROJECT NUMBER:
SAMPLED BY: Tom Rothschild and Paul Wittke

TURNAROUND REQUEST in Business Days *
Organic & Inorganic Analyses: [10 STD.] [7] [5] [4] [3] [2] [1] [<1]
Petroleum Hydrocarbon Analyses: [5 STD.] [4] [3] [2] [1] [<1]
[OTHER] Specify:
* Turnaround Requests less than standard may incur Rush Charges

	CLIENT SAMPLE INDENTIFICATION	SAMPLING DATE/TIME	Oil & Grease (EPA 1664)	Total Cu (EPA200.8)	Total Pb (EPA200.8)	Total Zn (EPA200.8)	MATRIX (W, S, O)	# OF CONT.	COMMENTS	NCA WO ID
1	07-49-N	5-2-07 1245	X	X	X	X	2		stormwater	
2	07-50-S	5-2-07 1300		X	X	X	1		"	
3	07-51-E	5-2-07 1315	X	X	X	X	2		"	
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										

REQUESTED ANALYSES

RELINQUISHED BY: Dianne Irish — DATE: 5-3-07
PRINT NAME: DIANNE IRISH — FIRM: Siltronic — TIME: 12:25

RECEIVED BY: Bob F — DATE: 5/3/07
PRINT NAME: Bob F — FIRM: TAP — TIME: 12:25

RELINQUISHED BY: — DATE:
PRINT NAME: — FIRM: — TIME:

RECEIVED BY: — DATE: lab
PRINT NAME: — FIRM: — TIME: 14:45

ADDITIONAL REMARKS:

TEMP: 5.1

PAGE OF

SCOEPA00025101

TestAmerica Sample Receipt Checklist

Received by: (section A)
Date: 5/3/07
Time: 1225
Initials: [illegible]

Unpacked by: (section B)
Date: 5/3/07
Initials: [illegible]

Logged-in by:
Date: 5/3
Initials: [illegible]

Work Order No. PQE0170
Client: Siltronics
Project: Mo

Cooler ID(s):

Temperature out of range:
___No Ice
___Ice Melted
___W/in 4 Hours
___Other:

***ESI Clients (see Section C)

Cooler Temperature (IR): 5.1 °C plastic glass NA (oil/air samples, ESI client)

A

Custody Seals: (#___)

Signature: Y N Dated:_____

X None

Container Type:
1 #Cooler(s)
___#Box(s)
___None (___#Other:_____)

Coolant Type:
X Gel Ice
X Loose Ice
___None

Packing Material:
___Bubble Bags
___Styrofoam Cubbies
___None (1 Other: Box)

Received by:
X TA Courier
___Senvoy
___UPS
___Fed Ex
___Client
___TDP
___DHL
___SDS
___Mid-Valley
___GS/TA
___GS/Senvoy
___Other:_____

B

Sample Status:
(If N circled, see NOD)

General:			
Intact?	Y	N	
# Containers Match COC?	Y	N	none given
IDs Match COC?	Y	N	
For Analyses Requested:			
Correct Type & Preservation?	Y	N	
Adequate Volume?	Y	N	
Within Hold Time?	Y	N	
Volatiles:			
Voas Free of Headspace?	Y	N	NA
TB on COC? not provided	Y	N	NA
Metals:			
HNO3 Preserved?	Y	N	NA

C

***ESI Clients Only:

Temperature Blank: _____°C not provided

All preserved bottles checked Y N NA (voas)
All preserved accordingly? Y N (see NOD) NA (voas)

Army Corp: Geiger (ticks/min): ___ ___ ___ ___

Temperatures (IR): _____°C _____°C _____°C _____°C
(left) (middle) (right) (air)

Project Managers:

Comments:_____

PM Reviewed:_____ (Initial/Date)

SCOEPA00025102

Rec'd; 5/25/07 Di

TestAmerica
ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

May 25, 2007

Thomas Rothschild
Siltronic
7200 N.W. Front Ave
Portland, OR 97210

RE: Storm Water

Enclosed are the results of analyses for samples received by the laboratory on 05/23/07 14:15. The following list is a summary of the Work Orders contained in this report, generated on 05/25/07 16:28.

If you have any questions concerning this report, please feel free to contact me.

Work Order	Project	ProjectNumber
PQE0900	Storm Water	PO# 4500186654

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Brian Cone, Industrial Services Manager

SCOEPA00025103

TestAmerica
ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Storm Water**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	05/25/07 16:28

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
07-68-SW-E	PQE0900-01	Water	05/21/07 14:20	05/23/07 14:15
07-69-SW-S	PQE0900-02	Water	05/21/07 14:20	05/23/07 14:15

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Brian Cone, Industrial Services Manager

SCOEPA00025104

TestAmerica
ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Storm Water**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	05/25/07 16:28

Oil and Grease Analysis per EPA Method 1664

TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQE0900-01 (07-68-SW-E)		**Water**				**Sampled: 05/21/07 14:20**				
Oil & Grease	EPA 1664	ND	----	4.13	mg/l	1x	7051196	05/24/07 13:05	05/24/07 17:01	
PQE0900-02 (07-69-SW-S)		**Water**				**Sampled: 05/21/07 14:20**				
Oil & Grease	EPA 1664	ND	----	4.08	mg/l	1x	7051196	05/24/07 13:05	05/24/07 17:01	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Brian Cone, Industrial Services Manager

SCOEPA00025105

TestAmerica
ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Storm Water**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	05/25/07 16:28

Oil and Grease Analysis per EPA Method 1664 - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 7051196 **Water Preparation Method: O&G prep CE**

Analyte	Method	Result	MDL[A]	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7051196-BLK1)													**Extracted: 05/24/07 10:30**	
Oil & Grease	EPA 1664	ND	---	5.00	mg/l	1x	--	--	--	--	--	--	05/24/07 17:01	
LCS (7051196-BS1)													**Extracted: 05/24/07 10:30**	
Oil & Grease	EPA 1664	37.4	---		mg/l	1x	--	40.2	93.0%	(78-114)	--	--	05/24/07 17:01	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Brian Cone, Industrial Services Manager

SCOEPA00025106

TestAmerica
ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Storm Water**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	05/25/07 16:28

Notes and Definitions

Report Specific Notes:

None

Laboratory Reporting Conventions:

DET	-	Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
ND	-	Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
NR/NA	-	Not Reported / Not Available
dry	-	Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
wet	-	Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
RPD	-	RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
MRL	-	METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
MDL*	-	METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
Dil	-	Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
Reporting Limits	-	Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
Electronic Signature	-	Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy.* Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Brian Cone, Industrial Services Manager

SCOEPA00025107

TestAmerica
ANALYTICAL TESTING CORPORATION

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508 (425) 420-9200 FAX 420-9210
East 11115 Montgomery, Suite B, Spokane, WA 99206-4779 (509) 924-9200 FAX 924-9290
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 (503) 906-9200 FAX 906-9210 X
20354 Empire Avenue, Suite E-9, Bend, OR 97708-1883 (541) 383-9310 FAX 382-7588

CHAIN OF CUSTODY REPORT

Work Order #: PQE900

CLIENT: SILTRONIC CORPORATION
REPORT TO: TOM ROTHSCHILD
ADDRESS: 7200 NW FRONT AVE
PORTLAND, OREGON 97210
PHONE: 503-219-7374 FAX: 503-219-4144

INVOICE TO: ACCOUNTS PAYABLE
7200 NW FRONT AVE
PORTLAND, OREGON 97210

P.O. NUMBER: 4500186654

PROJECT NAME: Stormwater Spring 2007
PROJECT NUMBER:
SAMPLED BY: Dianne Irish, Justin Darr, Tom Rothschild

TURNAROUND REQUEST in Business Days *
Organic & Inorganic Analyses: 10 7 5 4 3 2 1 <1 (STD.)
Petroleum Hydrocarbon Analyses: 5 4 3 ~~2~~ 1 <1 (STD.)
OTHER Specify:
* Turnaround Requests less than standard may incur Rush Charges

REQUESTED ANALYSES

CLIENT SAMPLE INDENTIFICATION	SAMPLING DATE/TIME	Oil & Grease (EPA 1664)	Total Cu (EPA200.8)	Total Pb (EPA200.8)	Total Zn (EPA200.8)	MATRIX (W, S, O)	# OF CONT.	COMMENTS	NCA WO ID
1. 07-68-SW-E	5-21-07 / 1420	X				W	1		
2. 07-69--SW-S	5-21-07 / 1420	X				W	1		
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									

RELINQUISHED BY: Dianne Irish DATE: 5/23/07
PRINT NAME: DIANNE IRISH FIRM: Siltronic TIME: 12:00

RECEIVED BY: [signature] DATE: 5/23/07
PRINT NAME: Bob F FIRM: TAP TIME: 12:00

RELINQUISHED BY: DATE:
PRINT NAME: FIRM: TIME:

RECEIVED BY: DATE: Lab
PRINT NAME: FIRM: TIME: 14:15

ADDITIONAL REMARKS:

TEMP: 5.6

PAGE OF

COC Rev 9, 1.99

SCOEPA00025108

TestAmerica Sample Receipt Checklist

Cooler IDs:

Received by: *(section A)
Date: 5-23-07
Time: 12:00
Initials: [illegible]

Unpacked by: *(section B)
Date: 5/23/07
Initials: [illegible]

Logged-in by:
Date: 5/23/07
Initials: [illegible]

Work Order No. PRE0900
Client: S. Hennie
Project: Stormwater Spring 2007

Temperature out of range:
___No Ice
___Ice Melted
___W/in 4 Hours
___Other: _____

***ESI Clients *(see Section C)*

Cooler Temperature (IR): 5.6 °C (plastic) glass NA *(oil/air samples, ESI client)*

A

Custody Seals: (#____)

Signature: (Y) N Dated: 5-23-07
____None

Container Type:
1 #Cooler(s)
____#Box(s)
____None (___#Other:_____)

Coolant Type:
____Gel Ice
X Loose Ice
____None

Packing Material:
____Bubble Bags
____Styrofoam Cubbies
____None (____Other: plastic)

Received from:
X TA Courier
____Senvoy
____UPS
____Fed Ex
____Client
____TDP
____DHL
____SDS
____Mid-Valley
____GS/TA
____GS/Senvoy
____Other:_____

B

Sample Status:
(If N circled, see NOD)

General:			
Intact?	(Y)	N	
# Containers Match COC?	(Y)	N	none given
IDs Match COC?	(Y)	N	
For Analyses Requested:			
Correct Type & Preservation?	(Y)	N	
Adequate Volume?	(Y)	N	
Within Hold Time?	(Y)	N	
Volatiles:			
VOAs Free of Headspace?	Y	N	(NA)
TB on COC? not provided	Y	N	(NA)
Metals:			
HNO3 Preserved?	Y	N	(NA)

C

***ESI Clients Only:

Temperature Blank: _____°C not provided

All preserved bottles checked Y N NA *(voas/soils/all unp.)*
All preserved accordingly? Y N *(see NOD)* NA *(voas/soils/all unp.)*

Army Corp: Geiger (ticks/min): ____ ____ ____ ____

Temperatures (IR): _____°C _____°C _____°C _____°C
(left) (middle) (right) (air)

Project Managers:

Comments: _____

PM Reviewed: _____ *(Initial/Date)*

SCOEPA00025109

BENCHSHEET

TOTAL SUSPENDED SOLIDS (TSS)

Sample Date: 5.2.07 Oven Temp: 105 C Analyst: Di

Date In: 5.2.07 Time In/Out: 1135 / 1300

Tin #	Sample	Vol, ml	Gross Wt, g	Tare Wt, g	TSS, mg/L
1	Blank	NA	0.0905	0.0905	
6	North	200	0.0953	0.0901	26
7	North	200	0.0951	0.0897	27
				North Average TSS	26.5
8	East	200	0.0946	0.0893	26.5
9	East	200	0.0955	0.0900	27.5
				East Average TSS	27
13	South	200	0.0966	0.0899	33.5
14	South	200	0.0978	0.0910	34
				South Average TSS	33.75

Notes: TSS Peelson back - Di

Calculation: TSS, mg/L = $\frac{\text{(Gross Wt, mg - Tare Wt, mg) X 1000}}{\text{Volume of Sample, ml}}$

Note: NPDES permit: monthly avg. 23 mg/L, daily max. 61 mg/L.
POTW permit: daily max 350 mg/L.

Reference: 1. Standard Methods for the Examination of Water and Wastewater, 1998, 20th Edition, Section 2540 D, page 2-57.
2. National Pollution Discharge Elimination System Permit #101128.

TJR 21 Mar 1987
DEI 12 Nov 2003 Revised

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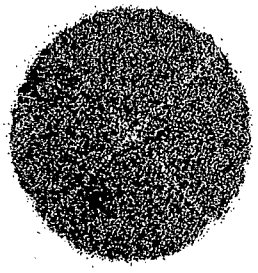
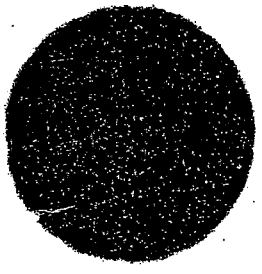
North -



East -



South

BENCHSHEET

pH

Test Date: 5-2-07 Sample Date: 5-7-07 Analyst: Di

Slope: 100.2 (Range: 92 to 102%)

Standards:

4.0 mg/L: Lot #: 1603735 Date Opened: 8/2/06

7.0 mg/L: Lot #: 1504752 Date Opened: 11/1/05

10.0 mg/L: Lot #: 1608475 Date Opened: 2/1/07

Sample	pH Units
North	5.63
East	6.14
South	5.97

Notes: _____

_____

_____

Reference: 1. Standard Methods For The Examination of Water And Wastewater, 1998, 20th Edition, Section 4500-H^+B page 4-87.

DEI 13 Aug 2003

N:\ENVIRONMENTAL\FACLAB\DIANNES\STORM WATER\PHB.DOC

Siltronic Corporation Storm Water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

DATE:	5-2-07		INITIAL:	Di	
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Floating Solids	No visible discharge	Yes or No	No	No	No
Oil and Grease Sheen*	No visible sheen	Yes or No	No	No	No

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

STORM WATER SAMPLING – Semiannual:

DATE:	5.2.07	INITIAL:	Di		
PARAMETER	**BENCHMARK[1]**	**UM**	North 07-49-N	East 07-51-E	South 07-50-S
Total Copper	0.1	mg/L	0.022	0.0305	0.0112
Total Lead	0.4	mg/L	0.004	0.00618	0.00398
Total Zinc	0.6	mg/L	0.203	0.193	0.0309
PH	5.5-9	Su	5.63	6.14	5.97
TSS	130	mg/L	26.5	27	33.75
Oil and Grease	10	mg/L	<4.00	39.4 ①	sample bottle broke ①

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Koreen Lail in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Koreen Lail.

① Need to resample Oil+Grease

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Resampled on 5/21/07

East # 07-68-SW-E = <4.13 mg/L

South # 07-69-SW-S; <4.08 mg/L

Siltronic Corporation Storm Water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

DATE:	7-12-06		INITIAL:	DI /TPW	
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Floating Solids	No visible discharge	Yes or No	No	No	No
Oil and Grease Sheen*	No visible sheen	Yes or No	No	No	No

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

STORM WATER SAMPLING – Semiannual:

DATE:		INITIAL:			
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Total Copper	0.1	mg/L			
Total Lead	0.4	mg/L			
Total Zinc	0.6	mg/L			
PH	5.5-9	Su			
TSS	130	mg/L			
Oil and Grease	10	mg/L			

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Koreen Lail in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Koreen Lail.

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Siltronic Corporation Storm Water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

DATE:	30 Aug 2006	0800-0830 (1)	INITIAL:	JJR	
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Floating Solids	No visible discharge	Yes or No	No	No	No
Oil and Grease Sheen*	No visible sheen	Yes or No	No	No	No

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

STORM WATER SAMPLING – Semiannual:

DATE:		INITIAL:			
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Total Copper	0.1	mg/L			
Total Lead	0.4	mg/L			
Total Zinc	0.6	mg/L			
PH	5.5-9	Su			
TSS	130	mg/L			
Oil and Grease	10	mg/L			

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Koreen Lail in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Koreen Lail.

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(1) Had just stopped raining. JJR

Siltronic Corporation Storm Water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

DATE:	29 Sep 2006		INITIAL:	JJR	
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Floating Solids	No visible discharge	Yes or No	(1)	(1)	(1)
Oil and Grease Sheen*	No visible sheen	Yes or No	(1)	(1)	(1)

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

STORM WATER SAMPLING – Semiannual:

DATE:		INITIAL:			
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Total Copper	0.1	mg/L			
Total Lead	0.4	mg/L			
Total Zinc	0.6	mg/L			
PH	5.5-9	Su			
TSS	130	mg/L			
Oil and Grease	10	mg/L			

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Koreen Lail in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Koreen Lail.

N:\ENVIRONMENTAL\FACLAB\WWTP\LOG\STORMWATER.DOC

(1) Insufficient Rain Fall during September 2006. JJR

Siltronic Corporation Storm Water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

DATE:	31 Oct 2006		INITIAL:	JJR	
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Floating Solids	No visible discharge	Yes or No	(1)	(1)	(1)
Oil and Grease Sheen*	No visible sheen	Yes or No	(1)	(1)	(1)

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

STORM WATER SAMPLING – Semiannual:

DATE:		INITIAL:			
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Total Copper	0.1	mg/L			
Total Lead	0.4	mg/L			
Total Zinc	0.6	mg/L			
PH	5.5-9	Su			
TSS	130	mg/L			
Oil and Grease	10	mg/L			

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Koreen Lail in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Koreen Lail.

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(1) Insufficient Rain Fall during October 2006 JJR

Siltronic Corporation Storm Water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

DATE:	14 Dec 2006 (1300)	(1)	INITIAL:	JfR	
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Floating Solids	No visible discharge	Yes or No	No	No	No
Oil and Grease Sheen*	No visible sheen	Yes or No	No	No	No

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

STORM WATER SAMPLING – Semiannual:

DATE:		INITIAL:			
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Total Copper	0.1	mg/L			
Total Lead	0.4	mg/L			
Total Zinc	0.6	mg/L			
PH	5.5-9	Su			
TSS	130	mg/L			
Oil and Grease	10	mg/L			

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Koreen Lail in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Koreen Lail.

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(1) Rainfall: ~0.7 inches 0800, 13 Dec 2006 to 0800, 14 Dec 2006
~0.4 inches 0800, 14 Dec 2006 to 1300, 14 Dec 2006

Siltronic Corporation Storm Water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

DATE:	31 Jan 2007		INITIAL:	JJR	
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Floating Solids	No visible discharge	Yes or No	Insufficient Rain Fall		
Oil and Grease Sheen*	No visible sheen	Yes or No	↓	↓	↓

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

STORM WATER SAMPLING – Semiannual:

DATE:		INITIAL:			
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Total Copper	0.1	mg/L			
Total Lead	0.4	mg/L			
Total Zinc	0.6	mg/L			
PH	5.5-9	Su			
TSS	130	mg/L			
Oil and Grease	10	mg/L			

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Koreen Lail in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Koreen Lail.

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Siltronic Corporation Storm Water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

DATE:	14 Feb 2007	(1)(2)	INITIAL:	3jR	
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Floating Solids	No visible discharge	Yes or No	No	No	No
Oil and Grease Sheen*	No visible sheen	Yes or No	No	No	No

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

STORM WATER SAMPLING – Semiannual:

DATE:		INITIAL:			
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Total Copper	0.1	mg/L			
Total Lead	0.4	mg/L			
Total Zinc	0.6	mg/L			
PH	5.5-9	Su			
TSS	130	mg/L			
Oil and Grease	10	mg/L			

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Koreen Lail in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Koreen Lail.

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Note: (1) 0.39 inches of rain between ~0800, 14 Feb 2007 and ~0800, 15 Feb 2007. 3jR
(2) Inspected ~1400, 3jR

Siltronic Corporation Storm Water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

DATE:	30 Mar 2007		INITIAL:	JJR	
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Floating Solids	No visible discharge	Yes or No	Insufficient Rain Fall		
Oil and Grease Sheen*	No visible sheen	Yes or No	↓	↓	↓

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

STORM WATER SAMPLING – Semiannual:

DATE:		INITIAL:			
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Total Copper	0.1	mg/L			
Total Lead	0.4	mg/L			
Total Zinc	0.6	mg/L			
PH	5.5-9	Su			
TSS	130	mg/L			
Oil and Grease	10	mg/L			

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Koreen Lail in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Koreen Lail.

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Note: (1) Asked Facilities operators to do visual inspection on 31 Mar 2007 if it rained. JJR

(2) Did not rain on 31 Mar 2007. 2 Apr 2007 JJR

Siltronic Corporation Storm Water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

DATE:	30 Apr 2007	(1)	INITIAL:	JJR	
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Floating Solids	No visible discharge	Yes or No	No	No	No
Oil and Grease Sheen*	No visible sheen	Yes or No	No	No	No

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

STORM WATER SAMPLING – Semiannual:

DATE:		INITIAL:			
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Total Copper	0.1	mg/L			
Total Lead	0.4	mg/L			
Total Zinc	0.6	mg/L			
PH	5.5-9	Su			
TSS	130	mg/L			
Oil and Grease	10	mg/L			

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Koreen Lail in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Koreen Lail.

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(1) 1400-1430. Not Raining. Visual Inspection of standing water. JJR

Siltronic Corporation Storm Water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

DATE:	6/24/07		INITIAL:	RB	
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Floating Solids	No visible discharge	Yes or No	No	No	No
Oil and Grease Sheen*	No visible sheen	Yes or No	No	No	No

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

STORM WATER SAMPLING – Semiannual:

DATE:		INITIAL:			
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Total Copper	0.1	mg/L			
Total Lead	0.4	mg/L			
Total Zinc	0.6	mg/L			
PH	5.5-9	Su			
TSS	130	mg/L			
Oil and Grease	10	mg/L			

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Koreen Lail in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Koreen Lail.

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Summary of Results for 2006 - 2007

PARAMETER	Sample date	North results	South results	East results	BENCH MARK	Units	Detection limit	Method & Comments
Copper	11/2/06	0.00911	0.00911	0.604	0.1	mg/L	0.03	EPA 200.8 (11/2 exceedance due to sample tube at the east storm water collection site drawing its sample from the bottom of the pipe instead of midflow).
	5/2/07	0.0220	0.0112	0.0305				
Lead	11/2/06	0.00349	0.00166	0.0125	0.4	mg/L	0.005	EPA 200.8
	5/2/07	0.00400	0.00398	0.00618				
Zinc	11/2/06	0.164	0.260	0.458	0.6	mg/L	0.05	EPA 200.8
	5/2/07	0.203	0.0309	0.193				
pH	11/2/06	6.44	6.35	6.37	5.5-9	pH units	0.1	Standards Methods 1998, 20th ed, Section 4500-H^+
	5/2/07	5.63	5.97	6.14				
TSS	11/2/06	18.2	9.6	78.2	130	mg/L	0.1	Standards Methods 1998, 20th ed, Section 2540 D (11/2 increase in TSS due to sample tube at the east storm water collection site drawing its sample from the bottom of the pipe instead of midflow)
	5/2/07	26.5	33.8	27.0				
Oil and Grease	11/2/06	<3.97	<4.9	<4.55	10	mg/L	3	EPA 1664A (5/2 n/a on south sample point oil and grease due to bottle being broken 5/2 exceedance at east sample point, probably due to hitting the bottom of the pipe during the sampling process because the depth of the water was low.
	5/2/07	<4.00	n/a	39.4				
Oil and Grease resample	5/21/07	n/a	<4.08	<4.13	10	mg/L	3	EPA 1664A (retest for oil and grease)

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Koreen Lail
Environmental Affairs

Siltronic Corporation
7200 NW Front Avenue, M/S 30
Portland OR 97210-3676, USA
Tel. 503-219-7994
Fax 503-219-7599
Koreen.lail@siltronic.com

ER:029KLL

Loren Shelley
City of Portland
Industrial Stormwater Program
6543 N Burlington Avenue
Portland, Oregon 97203-5452

June 1st, 2007

Industrial Storm Water NPDES 1200-Z Monitoring Report for July 1, 2006 to June 30, 2007

Dear Mr. Shelley,

Attached is Siltronic Corporation's Industrial Storm Water NPDES 1200-Z Monitoring Report for July 1, 2006 to June 30, 2007 as required by Siltronic's NPDES Storm Water Discharge Permit number 1200-Z issued October 1, 2002. Sampling was conducted November 2, 2006, May 2, 2007, and May 21, 2007.

The November 2, 2006, sampling of the east sample point indicated an exceedance of the benchmark for copper. Upon investigation, it was determined that the sample tube at the east storm water collection site was drawing its sample from the bottom of the pipe instead of midflow. This observation is supported by the TSS data which is higher than usual but below the benchmark. A work order was written to shorten the line 3 inches and Metro Rooter was called out to clean out the catch basin/manhole where the sample was taken.

During the May 3rd, sampling event, the south sample point oil and grease bottle was broken before the tests could be run. Additionally, the east sample was above benchmark for oil and grease. Upon investigation of the east sample point, it was determined that the bottle probably hit the bottom of the pipe during the sampling process since the depth of the water was low. The oil & grease samples for both the east and south sample points were re-taken on May 21st. The east oil & grease sample was taken from the end of the outfall pipe in order to avoid the prior issue.

Our investigation of the east sampling point also indicated that the outfall is somewhat obstructed by rocks and tress which tends to back up the flow in the storm water line. We are currently looking into how to remove this obstruction. After removal of this obstruction,

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we are also considering permanently moving our east sampling point to this outfall location in order to improve the sampling technique.

The following materials are enclosed in this report:

1. A summary of the results for 2006-2007 including sample results, bench marks, detection limits and analytical methods used.
2. Siltronic Corporation laboratory bench sheets for TSS and pH.
3. Copies of outside laboratory reports including the chain of custody forms for copper, lead, zinc, and total oil & grease.

If you have any questions or comments, please contact me.

Best regards,

Koreen Lail
Siltronic Corporation
Environmental Affairs

CC: BES Storm Water File
Tom Rothschild

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
NAME: Siltronic Corporation Site ID 93450
ADDRESS: 7200 NW Front Ave.
Portland, OR 97210-3676
FACILITY
LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16)	(17-18)
101128	Outfall 001
PERMIT NUMBER	SUBMISSION NUMBER

Form Approved.
OMB No. 2040-0004
Approval expires 10-31-04

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	2007	4	1	TO	2007	4	30
	(19-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (38-53) AVERAGE	MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-53) MINIMUM	AVERAGE	MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Process Waste Water Flow	SAMPLE MEASUREMENT	3,308	3,710	M^3/day	--	--	--	--		Continuous	
	PERMIT REQUIREMENT	--	--		--	--	--			Totalizing recorder	
BOD	SAMPLE MEASUREMENT	20.1	33.2	kg/day	--	6.0	9.6	mg/L		1/7	24HC
	PERMIT REQUIREMENT	154	342		--	15	30				
TSS	SAMPLE MEASUREMENT	10.8	12.5	kg/day	--	3.2	3.6	mg/L		1/7	24HC
	PERMIT REQUIREMENT	236	695		--	23	61				
Cr^{+6} (1)	SAMPLE MEASUREMENT			kg/day	--			mg/L			
	PERMIT REQUIREMENT	0.05	0.12		--	0.02	0.05				
Cr^{Total}	SAMPLE MEASUREMENT	<0.004	<0.004	kg/day	--	<0.001	<0.001	mg/L		1/7	24HC
	PERMIT REQUIREMENT	0.2	0.6		--	0.3	1.0				
Fluoride	SAMPLE MEASUREMENT	22.9	24.2	kg/day	--	7.0	8.1	mg/L		1/7	24HC
	PERMIT REQUIREMENT	178	365		--	17.4	32				
Total Phosphate	SAMPLE MEASUREMENT	--	--	--	--	0.1	0.2	mg/L		1/7	24HC
	PERMIT REQUIREMENT	--	--		--	10	15				

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
Tom McCue
Environmental Manager
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319.

Siltronic Corp. By:
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 503 NUMBER 243-2020
DATE: YEAR 07 MO 5 DAY 7

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
(1) Chrome batches are no longer being treated on site. pH Excursion: None.

KE.085

SCOEPA00025127

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)
NAME: Siltronic Corporation Site ID 93450
ADDRESS: 7200 NW Front Ave.
Portland, OR 97210-3676
FACILITY
LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16)	(17-18)
101128	Outfall 001
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	2007	4	1	TO	2007	4	30
	(19-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

Form Approved.
OMB No. 2040-0004
Approval expires 10-31-94

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
TTO	SAMPLE MEASUREMENT	--	--	kg/day	--	--	<0.02	mg/L		1/ 30	Grab
	PERMIT REQUIREMENT	--	--		--	--	1.37				
Turbidity	SAMPLE MEASUREMENT					1.5	3.1	NTC		6/1	Grab
	PERMIT REQUIREMENT									One sample per 6 hours	
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
Tom McCue
Environmental Manager
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 Penalties under these statutes may include fines up to $10,000 per violation imprisonment of between 6 months and 5 years

Siltronic Corp. by:
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 503 | NUMBER 243-2020

DATE: YEAR 07 | MO 5 | DAY 7

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

SCOEPA00025128

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)
NAME: Siltronic Corporation Site ID 93450
ADDRESS: 7200 NW Front Ave.
Portland, OR 97210-3676
FACILITY
LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16)	(17-19)
101128	Outfall 002
PERMIT NUMBER	DISCHARGE NUMBER

Form Approved.
OMB No. 2040-0004
Approval expires 10-31-04

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	2007	4	1	TO	2007	4	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (45-53) AVERAGE	MAXIMUM (54-61)	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	MAXIMUM (54-61)	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
MV-3 Flow	SAMPLE MEASUREMENT	205	591	M^3/day	--	--	--	--		Continuous	
	PERMIT REQUIREMENT	--	--		--	--	--				
MV-3 Total phosphates	SAMPLE MEASUREMENT	--	--	--	--	0.1	0.1	mg/L		1/ 7	Grab
	PERMIT REQUIREMENT	--	--		--	10	15				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
Tom McCue
Environmental Manager
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 [illegible]

Siltronic Corp. By:
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 503 NUMBER 243-2020

DATE: YEAR 07 MO 5 DAY 7

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

SCOEPA00025129

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)
NAME: Siltronic Corporation Site ID 93450
ADDRESS: 7200 NW Front Ave.
Portland, OR 97210-3676
FACILITY
LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16)	(17-19)
101128	Outfall 003
PERMIT NUMBER	DISCHARGE NUMBER

Form Approved.
OMB No. 2040-0004
Approval expires 10-31-94

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	2007	4	1	TO	2007	4	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	MAXIMUM (54-61)	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	AVERAGE (46-53)	MAXIMUM (54-61)	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Outfall flow	SAMPLE MEASUREMENT	3,507	3,971	M^3/day	--	--	--	--		Continuous	
	PERMIT REQUIREMENT	--	--		--	--	--				
Outfall temperature	SAMPLE MEASUREMENT	--	--	--	--	--	76.6	°F		1/ 7	Grab
	PERMIT REQUIREMENT	--	--		--	--	85				
Outfall pH	SAMPLE MEASUREMENT	--	--	--	6.10	7.41	8.40			Continuous	
	PERMIT REQUIREMENT	--	--		6.0	--	9.0				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
Tom McCue
Environmental Manager
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 [illegible]

Siltronic Corp. by:
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 503 | NUMBER 243-2020

DATE: YEAR 07 | MO 5 | DAY 7

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

SCOEPA00025130

SUPPLEMENTAL DATA

Siltronic Corporation Site ID 93450
7200 NW Front Avenue
Portland, Oregon 97210-3676

Permit Number: 101128
Discharge Number: Outfall 003
April-07 Discharge Data

Date	BOD mg/L	TSS mg/L	Fluoride mg/L	Phosphate mg/L	Total Chromium mg/L
5	9.6	3.6	6.00	0.134	0.0005
12	7.9	3.4	7.20	0.189	0.0005
19	4.4	3.1	6.50	0.154	0.0005
26	4.1	2.8	8.10	0.070	0.0005
5	**6.7**				**0.0005**
19	**4.8**				**0.0005**
26	**4.5**				**0.0005**

Note: Extra BOD/Total Chromium samples taken to qualify a back-up lab

DAILY FLOW'S	
Day	M^3
1	3835
2	3736
3	3691
4	3350
5	3699
6	3830
7	3642
8	3619
9	3570
10	3831
11	3608
12	3562
13	3551
14	3581
15	3687
16	3543
17	3418
18	3733
19	3661
20	3562
21	3589
22	3706
23	3714
24	3714
25	3456
26	3161
27	3971
28	3873
29	3297
30	3521
31	0
Total:	108711

Turbidity Avg	
Day	NTU's
1	1.5
2	1.4
3	1.9
4	2.4
5	2.7
6	2.1
7	1.8
8	2.0
9	1.8
10	1.7
11	1.9
12	1.6
13	1.5
14	1.8
15	1.8
16	1.5
17	1.5
18	1.3
19	1.4
20	1.1
21	1.2
22	1.9
23	1.4
24	0.7
25	0.8
26	0.9
27	1.0
28	1.0
29	0.9
30	0.8
31	

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Koreen Lail
Environmental Engineer

Siltronic Corporation
7200 NW Front Avenue, M/S 30
Portland OR 97210-3676, USA
Tel. 503-219-7994
Fax 503-219-7599
koreen.lail@siltronic.com

Brian Laurent
Bureau of Environmental Services
City of Portland
6543 N. Burlington Avenue
Portland, Oregon 97203-5452

ER: 024.KLL

May 8, 2007

April 2007 Industrial Discharge Report

Dear Mr. Laurent,

Enclosed is the April 2007 monthly Industrial Discharge Reports for Siltronic Corporation Municipal Discharge Permit Number 469.001. Siltronic has operated in compliance with the Permit for this reporting period.

If you have any questions, please contact Koreen Lail.

Regards,

Koreen Lail
Siltronic Corporation
Environmental Engineer

Enclosures:
Special Account Meter Report Document
Industrial Wastewater Discharge Self-Monitoring Report

cc: Tom Rothschild
POTW-IDR File

CITY OF PORTLAND
INDUSTRIAL WASTEWATER DISCHARGE
SELF-MONITORING REPORT

INDUSTRY NAME: Siltronic Corporation

PERMIT NUMBER: 469.001

REPORT DUE DATE: 15th of the Month following the sampling period.

SAMPLING PERIOD: April 2007

For Industrial Source Control Division Use Only

Date Postmarked/Received **Date Entered**

Entered By:

Comments:

pH GRAB SAMPLE - EPA METHOD 150.1

POINT OF COMPLIANCE		pH METER BRAND			pH METER MODEL		pH Discharge Limits
#1B (Fab 2)		Orion			720A		5.0 - 11.5 S.U.
Date of Sample	Time of Sample	Reported pH Value	Violation? (circle one)		pH Meter Calibration		COMMENTS
					Date	Buffer used	
26 Apr 2007	0700	9.8	YES	NO	26 Apr 2007	7.0 and 10.0	

CONTINUOUSLY MONITORED pH - EPA METHOD 150.2

POINT OF COMPLIANCE	pH METER BRAND	pH METER MODEL	pH Limit		
#1B (Fab 2)	Foxboro	873	5.0 - 11.5 S.U.		
DATE	STARTING TIME (military time)	MOST EXTREME pH EXCURSION	DURATION (minutes)	VIOLATION? (circle one)	COMMENTS
No Excursions				YES NO	
				YES NO	
				YES NO	
				YES NO	

Instructions: Industrial Source Control Division (ISCD) must be notified of all discharge violations within 24 hours of your knowledge of the violation. Report all pH excursions on this form and circle YES if they are a violation. Include any appropriate comments in the Comment column regarding the nature of the excursion. Attach supporting data or explanations to this report. You are also required to document corrective actions you have taken in response to the excursion.

Violations:
1. pH excursions outside the range of 5.0 - 11.5 SU for a total duration of more than 15 minutes in any 24 hour period.
2. pH excursions less than or equal to 4.5 SU or greater than or equal to 12.5 SU regardless of duration.

Non-Violations: You may contend an excursion does not represent a pH discharge violation if it does not meet the criteria listed above. Circle NO in the VIOLATION? Column and include a copy of the pH log or pH chart recording showing the excursion. The final violation status of the excursion will be determined by the ISCD.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: Karen Sail for Siltronic Date: 5/8/07

N:\Environmental\FACLAB\WWTP\BES Monthly Reports\Monthly\April 2007.doc

SCOEPA00025133

4640175004
SUSC SILTRONICS OWW & MV2
C. Justin Darr
243-2020 x7131

Siltronic Corporation
PO Box 83180
Portland, Oregon 97283-0180

SPECIAL ACCOUNT METER REPORT DOCUMENT

April-07

1. OWW DISCHARGE

ACTUAL READINGS

	FAB 1	FAB 2	
PAST READING	109367	350,562	100s of GALLONS)
CURRENT READING	109367	543,741	100s of GALLONS)
CONSUMPTION	0	193,179	100s of GALLONS)
TOTAL THROUGH OVERFLOW LINE	0		(100s of GALLONS)
TOTAL CONSUMPTION	1,931,790		10s of GALLONS)

READINGS CONVERTED TO CUBIC FEET

CONSUMPTION	1,931,790	* 10 GAL / 7.48 GAL/CF =	2,582,607	CF
TOTAL THROUGH OVERFLOV	0	* 10 GAL / 7.48 GAL/CF =	0	CF
TOTAL CONSUMPTION			2,582,607	CF

2. METER VAULT #2 (Sanitary)

ACTUAL READINGS

PAST READING	2,487,443	(10s of GALLONS)
CURRENT READING	2,545,985	(10s of GALLONS)
CONSUMPTION	58,542	(10s of GALLONS)

READINGS CONVERTED TO CUBIC FEET

CONSUMPTION	58,542	* 10 GAL / 7.48 GAL/CF=	78,265	CF

This meter reading was reported by: C. Justin Darr on date 5/4/07

Sent to: Bureau of Enviromental Services City of Portland
Water Pollution Control Lab, Attn: Brian Laurent
6543 N Burlington Avenue, Portland, Oregon 97203-5452

SCOEPA00025134

siltronic
perfect silicon solutions

Koreen Lail
Environmental Affairs

Siltronic Corporation
7200 NW Front Avenue, MS
Portland OR 97210-3676, USA
Tel. 503-219-7994
Fax 503-219-7599
koreen.lail@siltronic.com

~~kll:0019~~ KII :0021

March 27, 2007

Oregon Department of Environmental Quality
2020 SW 4th Ave., Suite 400
Portland, OR 97201-4987

Dear Dr. Zais,

As per our conversation you will find attached the revised *Temperature Management Plan* (NPDES 101128 Renewal) for our site.

The revision is found on page 5 and reads as follows:

Waste Load Allocation (WLA)

Mainstem Willamette WLA applies June through September. Waste Load Allocations are issued by the Department of Environmental Quality and may be revised to accommodate changing needs or new information. TMDL calculations will be used to determine if temperature reductions are needed to meet temperature control criteria. (See ODEQ *Chapter 4: Mainstem TMDL and Subbasin Summary, March 2006, pg 128-132)*

Willamette River Monitoring

Willamette River data will be collected May through October as follows: Flow data, as available, will be obtained from the 14211720 WILLAMETTE RIVER PORTLAND, OR monitoring station. This station is operated in cooperation with the U.S. Army Corps of Engineers and funded by the U.S. Geological Survey National Streamflow Information Program. It is located at Lat 45° 31'07", Long 122° 40'00", in NW 1/4 NE 1/4 sec.3, T.1 S., R.1 E., Multnomah County, Hydrologic Unit 17090012, in pier at east end of drawspan, on upstream side of Morrison Bridge, in Portland, and at mile 12.8. The ambient river temperature data will be collected, as available, from river data monitored by the City of Portland, Bureau of Environmental Services and entered regularly into a spreadsheet. The city's monitoring site is located by the Southern Pacific Railroad Bridge upstream from Siltronic Outfall 003.

Please feel free to contact me at 503-219-7994 if you have any questions.

Best regards,

Koreen Lail
Environmental Affairs

Siltronic Corporation

Enc.

NPDES 101128 Renewal

Outfall 003 2
Location 2
Waste Stream 2
Mixing Zone 2
Willamette River 3
River conditions at outfall 3
Biological / Ecological mapping 3
Temperature Management Plan 4
Maximum Effluent Temperature 4
Monitoring 4
Management Plan 5
Summary Temperature Management Plan 6
Steps taken to date 6
Planned Steps 6
New Permit 7
Antidegradation 8

SCOEPA00025136

Outfall 003

Location

Outfall 003 is located on the left side (reference point is looking down stream) of the Willamette River at river mile 6.6 (45.5775° lat and 122.7552° long). The outfall consists of a 24" single port discharge at 90° to the river channel flow and angled down at a slope of 0.1297 ft/ft or –7.4°. The last 120 feet of pipe extend underground from manhole ST 2-1 to a center line depth of about 11 feet below the river surface at 7Q10 and 7.5 feet below surface at 1Q10 (CH2MHill, November 1999). From the end of the pipe, the left bank of the river slopes down at about -29.5°, about 17ft in 30ft, to a depth of about 38 to 40 feet within 160 feet of the outfall. The Portland harbor boundary is within twenty feet of the outfall. (See drawing 1C7)

Waste Stream

Components

The waste stream consists of treated effluent, non-contact cooling water and stormwater. The treated effluent contains dissolved ions from the neutralization of various waste streams and some organic materials. The waste treatment begins by adding slaked lime to precipitate fluorides from a strong acid mixture used for wafer etching. After fluoride removal, the resulting solution is mixed with weak acid waste and the pH is adjusted to about 7. Total Suspended Solids (TSS) is removed by sand filters. The filtered waste effluent is mixed with non-contact cooling water and stormwater and discharged to the Willamette River. The discharge effluent contains total dissolved solids (TDS) at a concentration of about 1000-ppm as nitrate, chloride, sulfate, calcium, and sodium and potassium ions.

Temperature

The following table lists the results of on going measurements at the outfall:

Temperature	**February 2002 to September 2003**	**2002 June to September**	**2003 June to September**
minimum	44.8°F	50.6°F	61.2°F
maximum	83.0°F *	78.0°F	83.0°F *
seven-day-moving-average	from 65.4°F to 76.4°F	71.9°F to 76.4°F	70.8°F to 74.9°F

*This event was less than five minutes and no cause was determined. The next highest temperature was 76.3°F on September 12.

Discharge Rate

The following table relates discharge rate in million-gallons per day from outfall.

Year	Average discharge **million gallons/day**	average discharge **ft^3/sec**	average discharge **$meters^3$/sec**
1998	1.369	2.12	0.0661
1999	1.344	2.08	0.0649
2000	1.244	1.92	0.0601
2001	1.076	1.66	0.0520
2002	1.053	1.63	0.0509

Mixing Zone

Size

Under the current NPDES permit, the current mixing zone consists of that portion of the Willamette River not to exceed a 50-foot radius from the point of discharge at Outfall 003. A zone of immediate dilution (ZID) consists of that portion of the Willamette River not to exceed a 5-foot radius from the point of discharge at Outfall 003.

Mixing Zone Studies

Three mixing zone evaluations have been performed by CH2M Hill Industrial Design Corporation using UDKHDEN. The studies were performed in 1993, 1995 and 1999. UDKHDEN is strictly a near-field dilution model and is not ordinarily used to predict dilution beyond the point where the plume surfaces. By using UDKHDEN with an image solution the model can be used to predict dilution beyond the plume where the plume contacts the surface. Using the

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imaging solution technique, the water surface and riverbed are treated as adjacent ports discharging a volume equivalent to that from the model port. This essentially rotates the model by 90 degrees so that when the plume surfaces, it is treated as adjacent plumes merging. The model will then continue to provide valid dilution predictions down-stream of the point where the "image plumes" merge.

The last study performed in 1999 predicted a minimum dilution at the edge of the mixing zone of 33. This means that 1 part of combined effluent mixes with 32 parts of river water.

Willamette River

River conditions at outfall

The Willamette River in immediate area of the outfall is about 1200 feet [1](365.8 meters) wide with an average channel speed of about 0.133 feet per second[2] (0.0405 meters/second). A shipping channel is within about 140 feet (42.7 meters) of the left side (reference point is looking down stream). The left bank is sloped down at about 17 feet in 30 feet or -29.5° to a depth of about 40 feet (12.2 meters) to a smooth muddy bottom.

"The lower Willamette River serves as a harbor to a busy commercial shipping industry. During the previous century, this portion of the river has been deepened and widened by dredging, and numerous structures have been built to accommodate shipping, and much of the natural shoreline has been replaced by rock revetment or vertical walls for flood control.[3]

The water temperature exceeds 20° C (68°F) during the summer months.

Biological / Ecological mapping

"A number of juvenile and adult anadromous salmonids *Oncorhynchus* spp. use the lower Willamette River annually for migration. Four evolutionary significant units (ESU) of anadromous salmonids that use the lower Willamette River are listed as threatened by the National Marine Fisheries Service (NMFS) under the Endangered Species Act (ESA)"[4].

"The lower Willamette River near the outfall may be presumed to provide no unique habitat. This portion of the Willamette River provides passage for both adults and juvenile salmonids. Based on information from the Oregon Department of Fish and Wildlife (ODFW) and NMFS it appear that juvenile salmonids are often randomly distributed thought out the Willamette during their migration. The smaller out-migrating juvenile salmonids, especially Chinook, tend to follow the shoreline. Adult's upriver migrants tend to follow the shoreline. Therefore, the water within 150 feet of the shore has been presumed to provide critical migration habitat."[5]

The maps in the appendix depict the fish populations and distributions from recent fish population studies in the lower Willamette River.

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[1] Portland Maps 2003, 7200 NW Front, Aerial Photo 2002
[2] Discussions with Bob Baumgartner 2003
[3] Relationship Between Bank Treatment/Nearshore Development and Anadromous/Resident Fish in the Lower Willamette River, Annual Progress Report, May 2000 – June 2001, page 2
[4] Relationship Between Bank Treatment/Nearshore Development and Anadromous/Resident Fish in the Lower Willamette River, Annual Progress Report, May 2000 – June 2001, page 1
[5] Intra-Office Memorandum from Bob Baumgartner to Elliot Zais, 2000

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Temperature Management Plan

Maximum Effluent Temperature

A temperature management plan depends on two factors: the temperature criteria and the dilution factor at the edge of a mixing zone. The current temperature criteria for the Willamette River at river mile 6.6 is 20.0°C (68.0°F) with no more that a 0.14°C (0.25°F) temperature increase at the edge of the mixing zone. The current dilution factor as determined by CH2MHill using UDKHDEN is 33 or 32 parts of river water + 1 part effluent. Using these two factors, the maximum seven-day moving average temperature can be calculated using a mass balance equation that relates dilution and effluent temperature.

Using the following mass balance equation to relation dilution and temperature:

$(Q_o)(T_{effluent})+(Q_{entrain})(T_{ambient}) = (Q_o+Q_{entrain})(T_{mix})$

Where:

Q_o = initial flow effluent
$Q_{entrain}$ = entrained flow or river flow
$(Q_o+Q_{entrain})$ = the flow of effluent and river mixed

$T_{effluent}$ = temperature in C (or F) of effluent
$T_{ambient}$ = temperature in C (or F) of river
T_{mix} = temperature in C (or F) of the mix of river and effluent at the edge of the mixing zone

Dilution is defined as the ratio of the total flow in plume to the discharge flow rate. The flow in the effluent plume is the discharge flow plus the volume of the entrained fluid.

If:	$Q_o=1$ and $Q_{entrain} = 32$ and $(Q_o+Q_{entrain}) = 33$
Then:	$(Q_o)(T_{effluent}) + (Q_{entrain})(T_{ambient}) = (Q_o+Q_{entrain})(T_{mix})$
Becomes:	$(1)(T_{effluent}) + (32)(T_{ambient}) = (33)(T_{mix})$
And:	$T_{effluent} = (33)(T_{mix}) - (32)(T_{ambient})$

If the maximum T_{mix} at the edge of the mixing zone is 20.14°C (68.25°F) and $T_{ambient}$ is 20.00°C (68.00°F), then the maximum $T_{effluent}$ is 24.62°C (76.25°F).

The following table summarizes temperature measurements of the Wacker's effluent since February of 2002:

Temperature	February 2002 to September 2003	2002 June to September	2003 June to September
minimum	44.8°F	50.6°F	61.2°F
maximum	83.0°F *	78.0°F	83.0°F *
seven-day-moving-average	from 65.4°F to 76.4°F	71.9°F to 76.4°F	70.8°F to 74.9°F

- This event was less than five minutes and no cause was determined. The next highest temperature was 76.3°F on September 12.

Monitoring

Effluent Temperature

Effluent temperature will be monitored continuously 24 hours a day. Temperature measurements will be taken every 15 minutes. The maximum temperature in each 24-hour period will be determined and used to calculate the seven-day moving average maximum effluent temperature. The seven-day moving average shall be calculated by averaging the daily maximums of the pervious six days with the daily maximum for the day for which the seven-day moving average is being calculated. The seven-day moving average shall be calculated continuously and shall not be restarted at the beginning of a new month. If there is a break in the record of monitoring data for three days or fewer, such as due to equipment malfunction or plant shutdown, the seven-day moving average shall be calculated using the average of the available data spanning the break in data. If there is a break in the record of monitoring data for more than three days, a new the seven-day moving average shall be started. Data will be entered into a spreadsheet regularly.

SCOEPA00025139

Effluent Flow
Effluent flow will be recorded daily and entered into a spreadsheet regularly. A seven-day moving average of effluent flow will be calculated and used to calculate a seven-day moving average for thermal loading.

Waste Load Allocation (WLA)
Mainstem Willamette WLA applies June through September. Waste Load Allocations are issued by the Department of Environmental Quality and may be revised to accommodate changing needs or new information. TMDL calculations will be used to determine if temperature reductions are needed to meet temperature control criteria. (See ODEQ *Chapter 4: Mainstem TMDL and Subbasin Summary, March 2006, pg 128-132)*

Willamette River Monitoring
Willamette River data will be collected May through October as follows: Flow data, as available, will be obtained from the 14211720 WILLAMETTE RIVER PORTLAND, OR monitoring station. This station is operated in cooperation with the U.S. Army Corps of Engineers and funded by the U.S. Geological Survey National Streamflow Information Program. It is located at Lat 45° 31'07", Long 122° 40'00", in NW 1/4 NE 1/4 sec.3, T.1 S., R.1 E., Multnomah County, Hydrologic Unit 17090012, in pier at east end of drawspan, on upstream side of Morrison Bridge, in Portland, and at mile 12.8. The ambient river temperature data will be collected, as available, from river data monitored by the City of Portland, Bureau of Environmental Services and entered regularly into a spreadsheet. The city's monitoring site is located by the Southern Pacific Railroad Bridge upstream from Siltronic Outfall 003.

Management Plan

Summer months June though September
- Reduce preheat set point as low as possible during this period.
- Reschedule any hot discharges due to maintenance to a non-summer period or collect hot discharge and meter into effluent stream after it has cooled.

Long Term Plan
Wacker's long term plan is to evaluate a number of different possible plans to reduce effluent temperature. The following is a list of areas to be considered:

- Siltronic will conduct a temperature profile survey on the identifiable waste streams to determine hot spots in the current operating system. The temperature of each identified major source will be sampled and the maximum and minimum temperatures determined. Temperature data will be useful to increase understanding of the impact of high temperature sources on the effluent and feasibility study of possible methods to either divert or cool the source.
- Review of different cooling techniques such as cooling towers, chillers and cooling ponds. Some preliminary cost estimates run from $750,000 to $1,000,000.
- Implementation plan for feasible options to address the long-term solutions impact of temperature. This may include effluent diversion, process modification, point source cooling, or other engineering solutions.
- Continue to implement water conservation and recovery programs to reduce usage of water and discharge of wastewater.
- Review different outfall designs to improve mixing.
- Review water re-claim project to reduce quantity of effluent discharged.

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Summary Temperature Management Plan

Steps taken to date

- Water Conservation Projects: Wacker has introduced a number of water conservation programs. In the last five years (1998-2002), wastewater discharge to the Willamette River has decreased from 1.369 million gallons per day 1998 to 1.097 million gallons per day in 2002, a decrease of about 25%.
- Maintenance Scheduling: Reschedule, if possible, any hot discharges due to maintenance to a non-summer period or collect hot discharge and meter into effluent stream after it has cooled.
- Monitoring Outfall and Data Collection: The Outfall temperature monitoring and data collection has been automated. Data can be seen on a monitor and collected for downloading into a spreadsheet.
- Process changes: Changes in manufacturing that allow the reduction of set points for City water pre-heating about 2°C (4°F).

Planned Steps

- Heat Load Study of all Discharge Streams: Discharge streams will be monitored for Temperature, Volume, Frequency and Process to determine the contribution of each source to the overall heating of effluent.
- Review of different cooling techniques such as cooling towers, chillers and cooling ponds. Some preliminary cost estimates run from $750,000 to $1,000,000.
- Implementation plan for feasible options to address the long-term solutions impact of temperature. This may include effluent diversion, process modification, point source cooling, or other engineering solutions.
- Continue to implement water conservation and recovery programs to reduce usage of water and discharge of wastewater.
- Review different outfall designs to improve mixing.
- Review water re-claim project to reduce quantity of effluent discharged.

SCOEPA00025141

New Permit

	Existing Permit				New Permit			
Out Fall 001 Treated Process Waste Water	**Monthly Average mg/L**	**Daily Average mg/L**	**Monthly Average lbs./day**	**Daily Average lbs./day**	**Monthly Average mg/L**	**Daily Average mg/L**	**Monthly Average lbs./day**	**Daily Average lbs./day**
Suspended Solids	23	61	520	1532	23	61	520	1532
BOD	15	30	339	753	15	30	339	753
Fluoride	17.4	32	393	804	17.4	32	393	804
Total Phosphate	23	61	-	-	10	26	-	-
Total Chromium	0.3	1.0	0.2	0.6	0.3	1.0	0.2	0.6
Hexavalent Chromium	0.02	0.05	0.11	0.27	0.02	0.05	0.11	0.27
Total Toxic Organics	-	1.37	-	-	-	1.37	-	-
Outfall 002 Cooling Water and Boiler Blowdown	**Monthly Average mg/L**	**Daily Average mg/L**	-	-	**Monthly Average mg/L**	**Daily Average mg/L**	-	-
Total Phosphate	2.0	5.0	-	-	-	-	-	-
Outfall 003 Combined Outfall	**Monthly Average mg/L**	**Daily Average mg/L**	-	-	**Monthly Average mg/L**	**Daily Average mg/L**	-	-
Free Available Chlorine	0.2	0.5	-	-	0.2	0.5	-	-
pH	6.0-9.0	-	-	-	6.0-9.0	-	-	-
Temperature	Max 85°F (29.4°C)	-	-	-	Max 85°F (29.4°C)	-	-	-
Outfall 003 Combined Outfall	**Acute (% effluent)**		**Chronic (% Effluent)**		**Acute (% effluent)**		**Chronic (% Effluent)**	
Bioassay	13.4% (based on average flow of 0.1 ft/sec)		1.8% (based on average flow of 0.1 ft/sec)		13.4% (based on average flow of 0.133 ft/sec)		1.8% (based on average flow of 0.133 ft/sec)	
Outfall 004 Chromium Pretreatment System Discharge								
Hexavalent Chromium	Hexavalent Chromium will be sampled at Outfall 004, but concentration limit will be imposed at Outfall 001				Hexavalent Chromium will be sampled at Outfall 004, but concentration limit will be imposed at Outfall 001			
Mixing Zone								
Size	**Edge:** 50-foot radius circle based on center at discharge point **ZID:** 5-foot radius circle based on center at discharge point				**Edge:** 90-foot from discharge down stream and 10-foot from discharge point upstream from discharge point. **ZID:** 5-foot radius circle based on center at discharge point. Circular in shape			
Dilution	1: 33 at the edge of mixing zone				1: 33 at the edge of mixing zone with average flow of 0.133 ft/second			

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Until studies can be completed, Wacker would request that a new permit be issued with the changes as indicated above under New Permit. The changes requested and reasons are:

Item	Change	Reason
Out Fall 001 Total Phosphate Monthly Average	23 mg/L to 10 mg/L	Total phosphate for Outfall 001 and 002 combined and reduced to 10 mg/L
Out Fall 001 Total Phosphate Daily Average	61 mg/L to 26 mg/L	Total phosphate for Outfall 001 and 002 combined and reduced to 26 mg/L
Out Fall 002 Total Phosphate Monthly Average	0.2 mg/L to 10 mg/L	Total phosphate for Outfall 001 and 002 combined and reduced to 10 mg/L
Out Fall 002 Total Phosphate Monthly Average	0.5 mg/L to 10 mg/L	Total phosphate for Outfall 001 and 002 combined and reduced to 26 mg/L
Mixing Zone Outfall location in mixing zone	Move the center of the mixing zone down river 40 feet. No change in ZID position	Since the river is considered to have a positive flow at all times, changing the center of the mixing zone would better reflect the effluent plume moment in the zone.

Antidegradation

The position change requested for the mixing will not result in increased discharge loading or lower the quality of existing water quality. No changes are requested other than a decrease total phosphate concentration.

SCOEPA00025143

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)
NAME Siltronic Corporation Site ID 93450
ADDRESS 7200 NW Front Ave.
Portland, OR 97210-3676
FACILITY
LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PERMIT NUMBER	DISCHARGE NUMBER
101128	Outfall 001

Form Approved.
OMB No. 2040-0004
Approval expires 10-31-94

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	2007	3	1	TO	2007	3	31

NOTE: Read instructions before completing this form.

PARAMETER		QUANTITY OR LOADING (1 Card Only) AVERAGE	QUANTITY OR LOADING MAXIMUM	UNITS	QUALITY OR CONCENTRATION (4 Card Only) MINIMUM	QUALITY OR CONCENTRATION AVERAGE	QUALITY OR CONCENTRATION MAXIMUM	UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
Process Waste Water Flow	SAMPLE MEASUREMENT	3,508	3,767	M^3/day	--	--	--	--		Continuous totalizing recorder	
	PERMIT REQUIREMENT	--	--		--	--	--				
BOD	SAMPLE MEASUREMENT	11.1	17.3	kg/day	--	3.1	4.7	mg/L		1/7	24HC
	PERMIT REQUIREMENT	154	342		--	15	30				
TSS	SAMPLE MEASUREMENT	9.4	11.8	kg/day	--	2.6	3.3	mg/L		1/7	24HC
	PERMIT REQUIREMENT	236	695		--	23	61				
Cr^{+6} (1)	SAMPLE MEASUREMENT			kg/day	--			mg/L			
	PERMIT REQUIREMENT	0.05	0.12		--	0.02	0.05				
Cr^{Total}	SAMPLE MEASUREMENT	<0.004	<0.004	kg/day	--	<0.001	<0.001	mg/L		1/7	24HC
	PERMIT REQUIREMENT	0.2	0.6		--	0.3	1.0				
Fluoride	SAMPLE MEASUREMENT	24.9	29.9	kg/day	--	6.9	8.2	mg/L		1/7	24HC
	PERMIT REQUIREMENT	178	365		--	17.4	32				
Total Phosphate	SAMPLE MEASUREMENT	--	--	--	--	0.1	0.1	mg/L		1/7	24HC
	PERMIT REQUIREMENT	--	--		--	10	15				

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
Tom McCue
Environmental Manager
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and maximum imprisonment of between 6 months and 5 years)

Siltronic Corp. by:
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 503 NUMBER 243-2020
DATE: YEAR 07 MO 4 DAY 3

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
(1) Chrome batches are no longer being treated on site. pH Excursion: None.

SCOEPA00025144

PERMITTEE NAME/[redacted] (Include Facility Name/Location if different)
NAME Siltronic Corporation Site ID 93450
ADDRESS 7200 NW Front Ave.
Portland, OR 97210-3676
FACILITY
LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16) PERMIT NUMBER: 101128
(17-19) DISCHARGE NUMBER: Outfall 001

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	2007	3	1	TO	2007	3	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

Form Approved.
OMB No. 2040-0004
Approval expires 10-31-94

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	QUANTITY OR LOADING (54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	QUALITY OR CONCENTRATION (46-53) AVERAGE	QUALITY OR CONCENTRATION (54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
TTO	SAMPLE MEASUREMENT	--	--	kg/day	--	--	<0.02	mg/L		1/ 30	Grab
	PERMIT REQUIREMENT	--	--		--	--	1.37				
Turbidity	SAMPLE MEASUREMENT					1.9	4.0	NTC		6/1	Grab
	PERMIT REQUIREMENT									One sample every 4 hours	
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
Tom McCue
Environmental Manager
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 [illegible]

Siltronic Corp. by:
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 503 | NUMBER 243-2020

DATE: YEAR 07 | MO 4 | DAY 3

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

SCOEPA00025145

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME: Siltronic Corporation Site ID 93450

ADDRESS: 7200 NW Front Ave.
Portland, OR 97210-3676

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16) PERMIT NUMBER	(17-19) DISCHARGE NUMBER
101128	Outfall 002

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	2007	3	1	TO	2007	3	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

Form Approved.
OMB No. 2040-0004
Approval expires 10-31-94

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (45-53) AVERAGE	(46-53) MAXIMUM	(46-53) UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(46-53) MAXIMUM	(46-53) UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
MV-3 Flow	SAMPLE MEASUREMENT	209	375	M^3/day	--	--	--	--		Continuous	
	PERMIT REQUIREMENT	--	--		--	--	--				
MV-3 Total phosphates	SAMPLE MEASUREMENT	--	--	--	--	0.2	0.4	mg/L		1/ 7	Grab
	PERMIT REQUIREMENT	--	--		--	10	15				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Tom McCue
Environmental Manager

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and up to maximum imprisonment of between 6 months and 5 years)

Siltronic Corp. by:

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 503 | NUMBER 243-2020

DATE: YEAR 07 | MO 4 | DAY 3

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

SCOEPA00025146

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)
NAME: Siltronic Corporation Site ID 93450
ADDRESS: 7200 NW Front Ave.
Portland, OR 97210-3676
FACILITY
LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PERMIT NUMBER (2-16)	DISCHARGE NUMBER (17-18)
101128	Outfall 003

Form Approved.
OMB No. 2040-0004
Approval expires 10-31-94

MONITORING PERIOD

	YEAR (19-21)	MO (22-23)	DAY (24-25)		YEAR (26-28)	MO (29-30)	DAY (31-32)
FROM	2007	3	1	TO	2007	3	31

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	MAXIMUM (54-61)	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	AVERAGE (46-53)	MAXIMUM (54-61)	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Outfall flow	SAMPLE MEASUREMENT	3,717	4,051	M^3/day	--	--	--	--		Continuous	
	PERMIT REQUIREMENT	--	--		--	--	--				
Outfall temperature	SAMPLE MEASUREMENT	--	--	--	--	--	76.1	°F		1/ 7	Grab
	PERMIT REQUIREMENT	--	--		--	--	85				
Outfall pH	SAMPLE MEASUREMENT	--	--	--	6.52	7.55	8.00			Continuous	
	PERMIT REQUIREMENT	--	--		6.0	--	9.0				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
Tom McCue
Environmental Manager
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC 1001 AND 33 USC 1319 [illegible]

Siltronic Corp. by:
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 503 NUMBER 243-2020

DATE: YEAR 07 MO 4 DAY 3

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

SCOEPA00025147

SUPPLEMENTAL DATA

Siltronic Corporation Site ID 93450
7200 NW Front Avenue
Portland, Oregon 97210-3676

Permit Number: 101128
Discharge Number: Outfall 003
March-07 Discharge Data

Date	BOD mg/L	TSS mg/L	Fluoride mg/L	Phosphate mg/L	Total Chromium mg/L
1	2.0	1.8	6.00	0.108	0.0005
8	4.7	3.2	7.40	0.086	0.0005
15	2.0	3.3	6.20	0.092	0.0005
22	2.0	3.2	6.90	0.125	0.0005
26	4.7	1.7	8.20	0.128	0.0005

DAILY FLOW'S	
Day	M^3
1	3767
2	3551
3	4051
4	3744
5	3471
6	3929
7	3964
8	3967
9	3918
10	3808
11	3479
12	3517
13	3343
14	3710
15	3456
16	3646
17	3717
18	3725
19	3464
20	3649
21	3733
22	3782
23	3846
24	3547
25	3926
26	3895
27	3646
28	3812
29	3498
30	3895
31	3547
Total:	115003

Turbidity Avg	
Day	NTU's
1	1.5
2	1.5
3	1.3
4	1.0
5	1.2
6	1.4
7	1.6
8	1.9
9	2.5
10	2.4
11	2.5
12	1.9
13	1.7
14	1.8
15	1.9
16	1.9
17	2.1
18	1.7
19	1.6
20	2.4
21	1.9
22	1.6
23	2.2
24	2.7
25	2.4
26	1.6
27	1.7
28	1.8
29	2.5
30	2.4
31	1.6

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perfect silicon solutions

Koreen Lail
Environmental Engineer

Siltronic Corporation
7200 NW Front Avenue, M/S 30
Portland OR 97210-3676, USA
Tel. 503-219-7994
Fax 503-219-7599
koreen.lail@siltronic.com

Brian Laurent
Bureau of Environmental Services
City of Portland
6543 N. Burlington Avenue
Portland, Oregon 97203-5452

ER: 019.KLL

April 9, 2007

March 2007 Industrial Discharge Report

Dear Mr. Laurent,

Enclosed is the March 2007 monthly Industrial Discharge Reports for Siltronic Corporation Municipal Discharge Permit Number 469.001. Siltronic has operated in compliance with the Permit for this reporting period.

If you have any questions, please contact Koreen Lail.

Regards,

Koreen Lail
Siltronic Corporation
Environmental Engineer

Enclosures:
Special Account Meter Report Document
Industrial Wastewater Discharge Self-Monitoring Report

cc: Tom Rothschild
POTW-IDR File

CITY OF PORTLAND
INDUSTRIAL WASTEWATER DISCHARGE
SELF-MONITORING REPORT

INDUSTRY NAME: Siltronic Corporation

PERMIT NUMBER: 469.001

REPORT DUE DATE: 15th of the Month following the sampling period.

SAMPLING PERIOD: March 2007

For Industrial Source Control Division Use Only	
Date Postmarked/Received	Date Entered
	Entered By:
Comments:	

pH GRAB SAMPLE - EPA METHOD 150.1

POINT OF COMPLIANCE		pH METER BRAND		pH METER MODEL		pH Discharge Limits
#1B (Fab 2)		Orion		720A		5.0 - 11.5 S.U.
Date of Sample	Time of Sample	Reported pH Value	Violation? (circle one)	pH Meter Calibration Date	pH Meter Calibration Buffer used	COMMENTS
8 Mar 2007	0740	9.7	YES (NO)	8 Mar 2007	7.0 and 10.0	

CONTINUOUSLY MONITORED pH - EPA METHOD 150.2

POINT OF COMPLIANCE	pH METER BRAND	pH METER MODEL	pH Limit
#1B (Fab 2)	Foxboro	873	5.0 - 11.5 S.U.

DATE	STARTING TIME (military time)	MOST EXTREME pH EXCURSION	DURATION (minutes)	VIOLATION? (circle one)		COMMENTS
No Excursions				YES	NO	
				YES	NO	
				YES	NO	
				YES	NO	

Instructions: Industrial Source Control Division (ISCD) must be notified of all discharge violations within 24 hours of your knowledge of the violation. Report all pH excursions on this form and circle YES if they are a violation. Include any appropriate comments in the Comment column regarding the nature of the excursion. Attach supporting data or explanations to this report. You are also required to document corrective actions you have taken in response to the excursion.

Violations:
1. pH excursions outside the range of 5.0 - 11.5 SU for a total duration of more than 15 minutes in any 24 hour period.
2. pH excursions less than or equal to 4.5 SU or greater than or equal to 12.5 SU regardless of duration.

Non-Violations: You may contend an excursion does not represent a pH discharge violation if it does not meet the criteria listed above. Circle NO in the VIOLATION? Column and include a copy of the pH log or pH chart recording showing the excursion. The final violation status of the excursion will be determined by the ISCD.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: _____ Date: 4/6/07

N:\Environmental\FACLAB\WWTP\BES Monthly Reports\Monthly\March 2007.doc

SUSC SILTRONICS OWW & MV2
C. Justin Darr
243-2020 x7131

Siltronic Corporation
PO Box 83180
Portland, Oregon 97283-0180

SPECIAL ACCOUNT METER REPORT DOCUMENT

March-07

1. OWW DISCHARGE

ACTUAL READINGS

	FAB 1	FAB 2	
PAST READING	109367	159,326	100s of GALLONS)
CURRENT READING	109367	350,562	100s of GALLONS)
CONSUMPTION	0	191,236	100s of GALLONS)
TOTAL THROUGH OVERFLOW LINE	0		(100s of GALLONS)
TOTAL CONSUMPTION	1,912,360	(10s of GALLONS)	

READINGS CONVERTED TO CUBIC FEET

CONSUMPTION	1,912,360	* 10 GAL / 7.48 GAL/CF =	2,556,631 CF
TOTAL THROUGH OVERFL(	0	* 10 GAL / 7.48 GAL/CF =	0 CF
TOTAL CONSUMPTION			2,556,631 CF

2. METER VAULT #2 (Sanitary)

ACTUAL READINGS

PAST READING	2,421,131	(10s of GALLONS)
CURRENT READING	2,487,443	(10s of GALLONS)
CONSUMPTION	66,312	(10s of GALLONS)

READINGS CONVERTED TO CUBIC FEET

CONSUMPTION	66,312	* 10 GAL / 7.48 GAL/CF=	88,652 CF

This meter reading was reported by: C. Justin Darr on 4/2/07
C. Justin Darr — date

Sent to: Bureau of Enviromental Services City of Portland
Water Pollution Control Lab, Attn: Brian Laurent
6543 N Burlington Avenue, Portland, Oregon 97203-5452

SCOEPA00025151

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perfect silicon solutions

Koreen Lail
Environmental Engineer

Siltronic Corporation
7200 NW Front Avenue, M/S 30
Portland OR 97210-3676, USA
Tel. 503-219-7994
Fax 503-219-7599
koreen.lail@siltronic.com

Brian Laurent
Bureau of Environmental Services
City of Portland
6543 N. Burlington Avenue
Portland, Oregon 97203-5452

ER: 013.KLL

March 13, 2007

February 2007 Industrial Discharge Report

Dear Mr. Laurent,

Enclosed is the February 2007 monthly Industrial Discharge Reports for Siltronic Corporation Municipal Discharge Permit Number 469.001. Siltronic has operated in compliance with the Permit for this reporting period.

If you have any questions, please contact Koreen Lail.

Regards,
Siltronic Corporation

Koreen Lail
Environmental Engineer

Enclosures:
Special Account Meter Report Document
Industrial Wastewater Discharge Self-Monitoring Report

cc: Tom Rothschild
POTW-IDR File

CITY OF PORTLAND
INDUSTRIAL WASTEWATER DISCHARGE
SELF-MONITORING REPORT

INDUSTRY NAME: Siltronic Corporation

PERMIT NUMBER: 469.001

REPORT DUE DATE: 15th of the Month following the sampling period.

SAMPLING PERIOD: February 2007

For Industrial Source Control Division Use Only	
Date Postmarked/Received	Date Entered
	Entered By:
Comments:	

pH GRAB SAMPLE - EPA METHOD 150.1

POINT OF COMPLIANCE	pH METER BRAND	pH METER MODEL	pH Discharge Limits
#1B (Fab 2)	Orion	720A	5.0 - 11.5 S.U.

Date of Sample	Time of Sample	Reported pH Value	Violation? (circle one)		pH Meter Calibration Date	pH Meter Calibration Buffer used	COMMENTS
16 Feb 2007	0930	9.5 SU	YES	(NO)	16 Feb 2007	7.0 and 10.0	

CONTINUOUSLY MONITORED pH - EPA METHOD 150.2

POINT OF COMPLIANCE	pH METER BRAND	pH METER MODEL	pH Limit
#1B (Fab 2)	Foxboro	873	5.0 - 11.5 S.U.

DATE	STARTING TIME (military time)	MOST EXTREME pH EXCURSION	DURATION (minutes)	VIOLATION? (circle one)		COMMENTS
No Excursions				YES	NO	
				YES	NO	
				YES	NO	
				YES	NO	

Instructions: Industrial Source Control Division (ISCD) must be notified of all discharge violations within 24 hours of your knowledge of the violation. Report all pH excursions on this form and circle YES if they are a violation. Include any appropriate comments in the Comment column regarding the nature of the excursion. Attach supporting data or explanations to this report. You are also required to document corrective actions you have taken in response to the excursion.

Violations:
1. pH excursions outside the range of 5.0 - 11.5 SU for a total duration of more than 15 minutes in any 24 hour period.
2. pH excursions less than or equal to 4.5 SU or greater than or equal to 12.5 SU regardless of duration.

Non-Violations: You may contend an excursion does not represent a pH discharge violation if it does not meet the criteria listed above. Circle NO in the VIOLATION? Column and include a copy of the pH log or pH chart recording showing the excursion. The final violation status of the excursion will be determined by the ISCD.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: Karen Said for Siltronic Date: 3/13/06

N:\Environmental\FACLAB\WWTP\BES Monthly Reports\Monthly\February 2007.doc

SUSC SILTRONICS OWW & MV2
C. Justin Darr
243-2020 x7131

Siltronic Corporation
PO Box 83180
Portland, Oregon 97283-0180

SPECIAL ACCOUNT METER REPORT DOCUMENT

Feb-07

1. OWW DISCHARGE

ACTUAL READINGS

	FAB 1	FAB 2	
PAST READING	109367	980,282	100s of GALLONS)
CURRENT READING	109367	159,326	100s of GALLONS)
CONSUMPTION	0	179,044	100s of GALLONS)
TOTAL THROUGH OVERFLOW LINE	0		(100s of GALLONS)
TOTAL CONSUMPTION	1,790,440		10s of GALLONS)

READINGS CONVERTED TO CUBIC FEET

CONSUMPTION	1,790,440	* 10 GAL / 7.48 GAL/CF =	2,393,636	CF
TOTAL THROUGH OVERFLOW LINE	0	* 10 GAL / 7.48 GAL/CF =	0	CF
TOTAL CONSUMPTION			2,393,636	CF

2. METER VAULT #2 (Sanitary)

ACTUAL READINGS

PAST READING	2,366,626	(10s of GALLONS)
CURRENT READING	2,421,131	(10s of GALLONS)
CONSUMPTION	54,505	(10s of GALLONS)

READINGS CONVERTED TO CUBIC FEET

CONSUMPTION	54,505	* 10 GAL / 7.48 GAL/CF=	72,868	CF

This meter reading was reported by: C. Justin Darr on 2/26/07
C. Justin Darr — date

Sent to: Bureau of Enviromental Services City of Portland
Water Pollution Control Lab, Attn: Tim Dean
6543 N Burlington Avenue, Portland, Oregon 97203-5452

SCOEPA00025154

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perfect silicon solutions

Koreen Lail
Environmental Affairs

Siltronic Corporation
7200 NW Front Avenue, M/S 30
Portland OR 97210-3676, USA
Tel. 503-219-7994
Fax 503-219-7599
Koreen.lail@siltronic.com

ER 012:KLL

Dr. Elliot Zais
Water Quality Source Control
Department of Environmental Quality Northwest Region
2020 SW Fourth Avenue, Suite 400
Portland, Oregon 97201-4987

March 12, 2007

Discharge Monitoring Report for 2007

Dear Dr. Zais:

Enclosed are the 2007 Discharge Monitoring Report for Siltronic Corporation NPDES permit number 101128, File Number 93450 and the Schedule B Supplemental Data Reports. During the week of February 1st the Test America analytical lab experienced contamination of the dilution water used in the BOD 405.1 test method. This caused a high depletion of dissolved oxygen in the blank and high spike results. As a result, the data for the February 1st weekly BOD sample can not be considered valid and therefore is not included in this months report. Attached is the information we received from the lab as well as the analytical report.

If you have any questions, please contact me.

Best regards,

Koreen Lail
Environmental Affairs
Siltronic Corporation

Enclosures:
Discharge Monitoring Report
Schedule B Supplemental Data Report
Test America Analytical Report
Test America E-mail Correspondence

cc: Tom Rothschild
DMR File

KLL:012

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME Siltronic Corporation Site ID 93450

ADDRESS 7200 NW Front Ave.
Portland, OR 97210-3676

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16)	(17-19)
101128	Outfall 001
PERMIT NUMBER	DISCHARGE NUMBER

Form Approved.
OMB No. 2040-0004
Approval expires 10-31-94

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	2007	2	1	TO	2007	2	28
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Process Waste Water Flow	SAMPLE MEASUREMENT	3,038	3,683	M^3/day	--	--	--	--		Continuous totalizing recorder	
	PERMIT REQUIREMENT	--	--		--	--	--				
BOD	SAMPLE MEASUREMENT	9.8	16.0	Kg/day	--	2.8	4.5	mg/l		1/ 7	24HC
	PERMIT REQUIREMENT	154	342		--	15	30				
TSS	SAMPLE MEASUREMENT	9.6	17.5	Kg/day	--	2.8	4.9	mg/l		1/ 7	24HC
	PERMIT REQUIREMENT	236	695		--	23	61				
Cr^{+6} (1)	SAMPLE MEASUREMENT			Kg/day	--			mg/l			
	PERMIT REQUIREMENT	0.05	0.12		--	0.02	0.05				
Cr^{Total}	SAMPLE MEASUREMENT	<0.004	<0.004	Kg/day	--	<0.001	<0.001	mg/l		1/ 7	24HC
	PERMIT REQUIREMENT	0.2	0.6		--	0.3	1.0				
Fluoride	SAMPLE MEASUREMENT	20.8	21.7	Kg/day	--	6.2	6.7	mg/l		1/ 7	24HC
	PERMIT REQUIREMENT	178	365		--	17.4	32				
Total Phosphate	SAMPLE MEASUREMENT	--	--	--	--	0.1	0.1	mg/l		1/ 7	24HC
	PERMIT REQUIREMENT	--	--		--	10	15				

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Tom McCue
Environmental Manager

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years)

Siltronic Corp. by: Kreen Fail for Siltronic

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
503	243-2020	07	3	13
AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) Chrome batches are no longer being treated on site. pH Excursion: None. The BOD results for the 1st week of February were not valid therefore not reported. (see attachment)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)
NAME Siltronic Corporation Site ID 93450
ADDRESS 7200 NW Front Ave.
Portland, OR 97210-3676
FACILITY
LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16)	(17-19)
101128	Outfall 001
PERMIT NUMBER	DISCHARGE NUMBER

Form Approved.
OMB No. 2040-0004
Approval expires 10-31-94

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	2007	2	1	TO	2007	2	28
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (38-53) AVERAGE	MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-53) MINIMUM	AVERAGE	MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
TTO	SAMPLE MEASUREMENT	--	--	Kg/day	--	--	<0.02	mg/l		1/ 30	Grab
	PERMIT REQUIREMENT	--	--		--	--	1.37				
Turbidity	SAMPLE MEASUREMENT					1.4	3.1	NTC		6/1	Grab
	PERMIT REQUIREMENT									One sample every 24 hours	
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
Tom McCue
Environmental Manager
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 [illegible]

Siltronic Corp. by:
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: 503 (AREA CODE) 243-2020 (NUMBER)

DATE: 07 (YEAR) 3 (MO) 13 (DAY)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

SCOEPA00025157

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME Siltronic Corporation Site ID 93450

ADDRESS 7200 NW Front Ave.
Portland, OR 97210-3676

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-16) PERMIT NUMBER: 101128

(17-19) DISCHARGE NUMBER: Outfall 002

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	2007	2	1	TO	2007	2	28
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

Form Approved.
OMB No. 2040-0004
Approval expires 10-31-94

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) (46-53) QUANTITY OR LOADING (54-61) AVERAGE	MAXIMUM	UNITS	(4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53) MINIMUM	AVERAGE	MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
MV-3 Flow	SAMPLE MEASUREMENT	185	572	M^3/day	--	--	--	--		Continuous	
	PERMIT REQUIREMENT	--	--		--	--	--				
MV-3 Total phosphates	SAMPLE MEASUREMENT	--	--	--	--	0.1	0.2	mg/l		1/7	Grab
	PERMIT REQUIREMENT	--	--		--	10	15				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Tom McCue
Environmental Manager

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 USC § 1001 AND 33 USC § 1319. [Penalties under these statutes may include fines up to $10,000 per violation, imprisonment of between 6 months and 5 years, ...]

Siltronic Corp. by:

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 503 | NUMBER 243-2020

DATE: YEAR 07 | MO 3 | DAY 13

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

SCOEPA00025158

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)
NAME Siltronic Corporation Site ID 93450
ADDRESS 7200 NW Front Ave.
Portland, OR 97210-3676
FACILITY
LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16) PERMIT NUMBER	(17-18) DISCHARGE NUMBER
101128	Outfall 003

Form Approved.
OMB No. 2040-0004
Approval expires 10-31-94

MONITORING PERIOD

	YEAR (19-21)	MO (22-23)	DAY (24-25)		YEAR (26-27)	MO (28-29)	DAY (30-31)
FROM	2007	2	1	TO	2007	2	28

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Outfall flow	SAMPLE MEASUREMENT	3,205	3,975	M^3/day	--	--	--	--		Continuous	
	PERMIT REQUIREMENT	--	--		--	--	--				
Outfall temperature	SAMPLE MEASUREMENT	--	--	--	--	--	73.6	°F		1/ 7	Grab
	PERMIT REQUIREMENT	--	--		--	--	85				
Outfall pH	SAMPLE MEASUREMENT	--	--	--	6.38	7.48	8.18			Continuous	
	PERMIT REQUIREMENT	--	--		6.0	--	9.0				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
Tom McCue
Environmental Manager
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and maximum imprisonment of between 6 months and 5 years.)

Siltronic Corp. by:
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 503 NUMBER 243-2020
DATE: YEAR 07 MO 3 DAY 13

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

SCOEPA00025159

SUPPLEMENTAL DATA

Siltronic Corporation Site ID 93450
7200 NW Front Avenue
Portland, Oregon 97210-3676

Permit Number: 101128
Discharge Number: Outfall 003
February 2007 Discharge Data

Date	BOD mg/L	TSS mg/L	Fluoride mg/L	Phosphate mg/L	Total Chromium mg/L
2/1/07	*	2.1	6.11	0.066	0.0005
2/8/07	4.5	4.9	6.08	0.128	0.0005
2/15/07	2.0	1.7	6.65	0.107	0.0005
2/20/07	2.0	2.4	5.80	0.086	0.0005

* BOD results for 2/1/07 were not valid due to lab error, therefore no data reported.

DAILY FLOW'S	
Day	M^3
1	3483
2	3513
3	3884
4	3975
5	3233
6	3441
7	3490
8	3729
9	3097
10	3812
11	3566
12	3513
13	3574
14	3608
15	3278
16	3456
17	3532
18	3562
19	3687
20	3593
21	3343
22	3778
23	3558
24	3468
25	3354
26	3649
27	3842
28	3350
Total:	99369

Turbidity Avg	
Day	NTU's
1	1.2
2	1.6
3	1.3
4	1.3
5	1.5
6	1.8
7	1.9
8	1.8
9	1.4
10	1.2
11	1.4
12	1.2
13	1.0
14	1.1
15	1.4
16	2.3
17	0.9
18	1.1
19	1.1
20	1.2
21	1.3
22	1.1
23	1.2
24	1.2
25	1.4
26	1.5
27	1.5
28	1.4

From: Brian Cone [mailto:Bcone@testamericainc.com]
Sent: Monday, March 12, 2007 12:28 PM
To: Burr, Myron
Cc: McCue, Tom; Rothschild, Tom; Lail, Koreen; Irish, Dianne; Darr, Justin
Subject: RE: Work Order PQB0033

Myron,

After a discussion with our Technical Director, we deleted the BOD result and added an "IR" qualifier to the BOD test, which states: "Data rejected; no reportable results available". Unfortunately, Element won't allow any characters except numbers in the result section, but I think this is the best resolution.

As you know, the BOD test has a 5-day incubation period. It is a one-time shot at getting valid results as the hold time is 2 days. So if a problem develops, by the time results are read from the BOD bottles, the hold time has expired on the samples. We routinely run 5 dilutions, for most samples starting with 1 mL in a 300 mL BOD bottle up to 150 mLs (for a X2 dilution), and then use the bottle with a mid-point depletion to calculate the result (2-6 mg/L depletion).

Let's say that a sample was unexpectedly high and all of the bottles had the dissolved oxygen totally depleted, then we will run a new set of dilutions and flag the results as being run out of hold time.

In the situation for your sample, we had unusually high blank depletion due to contamination. After cleaning the dilution water jug and tubing, and making new dilution water, the next batch still had contamination. Since we can't afford to trouble-shoot the cause of the contamination (not like other wet chem tests that can be rerun in minutes), we replaced the jug and tubing. This resolved the contamination problem and this is how we will handle the situation if it happens again (which we hope never will occur).

I do apologize for this situation as it has absorbed much time for us to resolve and discuss. If you need anything else, I am ready to help.

Thanks!

Brian Cone, CHMM
Industrial Project Manager
TestAmerica Analytical Testing Corporation
Portland Laboratory
Direct: 503 906-9239
Toll Free: 800 644-0967
Fax: 503 906-9210
Cell: 971 645-6228

TestAmerica
ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

March 12, 2007

Thomas Rothschild
Siltronic
7200 N.W. Front Ave
Portland, OR 97210

RE: Monthly

Enclosed are the results of analyses for samples received by the laboratory on 02/01/07 16:40. The following list is a summary of the Work Orders contained in this report, generated on 03/12/07 14:05.

If you have any questions concerning this report, please feel free to contact me.

Amended Report: All results reported here supercede any previously reported results.

Work Order	Project	ProjectNumber
PQB0033	Monthly	PO# 4500186654

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

SCOEPA00025162

TestAmerica
ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	03/12/07 14:05

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
07-10-CE-C	PQB0033-01	Water	02/01/07 05:40	02/01/07 16:40
07-11-CE-G	PQB0033-02	Water	02/01/07 05:40	02/01/07 16:40
07-12-OWW-G	PQB0033-03	Water	02/01/07 05:45	02/01/07 16:40

Brian L Cone

Amended Report

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Brian Cone, Industrial Services Manager

SCOEPA00025163

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ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	03/12/07 14:05

Analytical Case Narrative
TestAmerica - Portland, OR

PQB0033

Note N1:

Contamination of the BOD dilution water resulted in high DO depletion of the blank and high (over-limit) spike results. Results for this sample are not valid and not reported.

Brian L Cone

Amended Report

Brian Cone, Industrial Services Manager

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BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	03/12/07 14:05

Total Metals per EPA 200 Series Methods

TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQB0033-01 (07-10-CE-C)		**Water**			**Sampled: 02/01/07 05:40**					
Chromium	EPA 200.8	ND	-----	0.00100	mg/l	1x	7020081	02/02/07 10:57	02/06/07 16:41	

Brian Cone, Industrial Services Manager

Amended Report

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

SCOEPA00025165

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ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	03/12/07 14:05

Organochlorine Pesticides and PCBs per EPA Method 608

TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQB0033-02 (07-11-CE-G)		**Water**			**Sampled: 02/01/07 05:40**					
Aldrin	EPA 608	ND	-----	0.0962	ug/l	1x	7020276	02/08/07 11:05	02/12/07 12:48	
alpha-BHC	"	ND	-----	0.0962	"	"	"	"	"	
beta-BHC	"	ND	-----	0.0962	"	"	"	"	"	
delta-BHC	"	ND	-----	0.0962	"	"	"	"	"	
gamma-BHC (Lindane)	"	ND	-----	0.0962	"	"	"	"	"	
Chlordane (tech)	"	ND	-----	4.81	"	"	"	"	"	
alpha-Chlordane	"	ND	-----	0.0962	"	"	"	"	"	
gamma-Chlordane	"	ND	-----	0.0962	"	"	"	"	"	
4,4'-DDD	"	ND	-----	0.0962	"	"	"	"	"	
4,4'-DDE	"	ND	-----	0.0962	"	"	"	"	"	
4,4'-DDT	"	ND	-----	0.0962	"	"	"	"	"	
Dieldrin	"	ND	-----	0.0962	"	"	"	"	"	
Endosulfan I	"	ND	-----	0.0962	"	"	"	"	"	
Endosulfan II	"	ND	-----	0.0962	"	"	"	"	"	
Endosulfan sulfate	"	ND	-----	0.0962	"	"	"	"	"	
Endrin	"	ND	-----	0.0962	"	"	"	"	"	
Endrin aldehyde	"	ND	-----	0.0962	"	"	"	"	"	
Heptachlor	"	ND	-----	0.0962	"	"	"	"	"	
Heptachlor epoxide	"	ND	-----	0.0962	"	"	"	"	"	
Methoxychlor	"	ND	-----	0.0962	"	"	"	"	"	
Toxaphene	"	ND	-----	4.81	"	"	"	"	"	
Aroclor 1016	"	ND	-----	0.481	"	"	"	"	02/12/07 22:06	
Aroclor 1221	"	ND	-----	0.962	"	"	"	"	"	
Aroclor 1232	"	ND	-----	0.481	"	"	"	"	"	
Aroclor 1242	"	ND	-----	0.481	"	"	"	"	"	
Aroclor 1248	"	ND	-----	0.481	"	"	"	"	"	
Aroclor 1254	"	ND	-----	0.481	"	"	"	"	"	
Aroclor 1260	"	ND	-----	0.481	"	"	"	"	"	
Surrogate(s): 2,4,5,6-Tetrachloro-m-xylene		*53.6%*			*16 - 137 %*	"			*02/12/07 12:48*	
Decachlorobiphenyl		*85.0%*			*12 - 130 %*	"			*02/12/07 22:06*	

Brian Cone

Amended Report

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Brian Cone, Industrial Services Manager

SCOEPA00025166

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ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	03/12/07 14:05

Purgeables per EPA Method 624 Modified

TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQB0033-02 (07-11-CE-G)		**Water**			**Sampled: 02/01/07 05:40**					
Benzene	EPA 624	ND	-----	1.00	ug/l	1x	7020113	02/05/07 08:12	02/05/07 14:54	
Bromodichloromethane	"	ND	-----	1.00	"	"	"	"	"	
Bromoform	"	ND	-----	1.00	"	"	"	"	"	
Bromomethane	"	ND	-----	5.00	"	"	"	"	"	
Carbon tetrachloride	"	ND	-----	1.00	"	"	"	"	"	
Chlorobenzene	"	ND	-----	1.00	"	"	"	"	"	
Chloroethane	"	ND	-----	5.00	"	"	"	"	"	
Chloroform	"	**5.61**	-----	1.00	"	"	"	"	"	
Chloromethane	"	ND	-----	5.00	"	"	"	"	"	
Dibromochloromethane	"	ND	-----	1.00	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	-----	1.00	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	-----	1.00	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	-----	1.00	"	"	"	"	"	
1,1-Dichloroethane	"	ND	-----	1.00	"	"	"	"	"	
1,2-Dichloroethane	"	ND	-----	1.00	"	"	"	"	"	
1,1-Dichloroethene	"	ND	-----	1.00	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	-----	1.00	"	"	"	"	"	
1,2-Dichloropropane	"	ND	-----	1.00	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	-----	1.00	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	-----	1.00	"	"	"	"	"	
Ethylbenzene	"	ND	-----	1.00	"	"	"	"	"	
Methylene chloride	"	ND	-----	5.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	-----	1.00	"	"	"	"	"	
Tetrachloroethene	"	ND	-----	1.00	"	"	"	"	"	
Toluene	"	ND	-----	1.00	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	-----	1.00	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	-----	1.00	"	"	"	"	"	
Trichloroethene	"	ND	-----	1.00	"	"	"	"	"	
Trichlorofluoromethane	"	ND	-----	1.00	"	"	"	"	"	
Vinyl chloride	"	ND	-----	1.00	"	"	"	"	"	
Surrogate(s): 4-BFB		*87.5%*			*75 - 120 %*	"			"	
1,2-DCA-d4		*102%*			*77 - 129 %*	"			"	
Dibromofluoromethane		*105%*			*80 - 121 %*	"			"	
Toluene-d8		*99.5%*			*80 - 120 %*	"			"	

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Amended Report

Brian Cone, Industrial Services Manager

SCOEPA00025167

TestAmerica
ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	03/12/07 14:05

Acid and Base/Neutral Extractables per EPA Method 625

TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQB0033-02 (07-11-CE-G)		**Water**			**Sampled: 02/01/07 05:40**					
Acenaphthene	EPA 625	ND	-----	4.81	ug/l	1x	7020116	02/05/07 16:00	02/07/07 23:18	
Acenaphthylene	"	ND	-----	4.81	"	"	"	"	"	
Anthracene	"	ND	-----	4.81	"	"	"	"	"	
Benzidine	"	ND	-----	57.7	"	"	"	"	"	
Benzo (a) anthracene	"	ND	-----	4.81	"	"	"	"	"	
Benzo (a) pyrene	"	ND	-----	4.81	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	-----	4.81	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	-----	4.81	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	-----	4.81	"	"	"	"	"	
4-Bromophenyl phenyl ether	"	ND	-----	4.81	"	"	"	"	"	
Butyl benzyl phthalate	"	ND	-----	4.81	"	"	"	"	"	
4-Chloro-3-methylphenol	"	ND	-----	4.81	"	"	"	"	"	
Bis(2-chloroethoxy)methane	"	ND	-----	9.62	"	"	"	"	"	
Bis(2-chloroethyl)ether	"	ND	-----	4.81	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	"	ND	-----	9.62	"	"	"	"	"	
2-Chloronaphthalene	"	ND	-----	4.81	"	"	"	"	"	
2-Chlorophenol	"	ND	-----	4.81	"	"	"	"	"	
4-Chlorophenyl phenyl ether	"	ND	-----	4.81	"	"	"	"	"	
Chrysene	"	ND	-----	4.81	"	"	"	"	"	
Di-n-butyl phthalate	"	ND	-----	4.81	"	"	"	"	"	
Di-n-octyl phthalate	"	ND	-----	4.81	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND	-----	4.81	"	"	"	"	"	
1,2 Diphenylhydrazine (as Azobenzene)	"	ND	-----	4.81	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	-----	4.81	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	-----	4.81	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	-----	4.81	"	"	"	"	"	
3,3'-Dichlorobenzidine	"	ND	-----	4.81	"	"	"	"	"	
2,4-Dichlorophenol	"	ND	-----	4.81	"	"	"	"	"	
Diethyl phthalate	"	ND	-----	4.81	"	"	"	"	"	
2,4-Dimethylphenol	"	ND	-----	9.62	"	"	"	"	"	
Dimethyl phthalate	"	ND	-----	4.81	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	"	ND	-----	9.62	"	"	"	"	"	
2,4-Dinitrophenol	"	ND	-----	24.0	"	"	"	"	"	
2,4-Dinitrotoluene	"	ND	-----	4.81	"	"	"	"	"	
2,6-Dinitrotoluene	"	ND	-----	4.81	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	"	ND	-----	9.62	"	"	"	"	"	
Fluoranthene	"	ND	-----	4.81	"	"	"	"	"	
Fluorene	"	ND	-----	4.81	"	"	"	"	"	
Hexachlorobenzene	"	ND	-----	4.81	"	"	"	"	"	
Hexachlorobutadiene	"	ND	-----	9.62	"	"	"	"	"	
Hexachlorocyclopentadiene	"	ND	-----	9.62	"	"	"	"	"	
Hexachloroethane	"	ND	-----	9.62	"	"	"	"	"	

TestAmerica - Portland, OR

Brian Cone, Industrial Services Manager

Amended Report

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TestAmerica
ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	03/12/07 14:05

Acid and Base/Neutral Extractables per EPA Method 625

TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQB0033-02 (07-11-CE-G)		**Water**			**Sampled: 02/01/07 05:40**					
Indeno (1,2,3-cd) pyrene	EPA 625	ND	-----	4.81	ug/l	1x	7020116	02/05/07 16:00	02/07/07 23:18	
Isophorone	"	ND	-----	4.81	"	"	"	"	"	
Naphthalene	"	ND	-----	4.81	"	"	"	"	"	
Nitrobenzene	"	ND	-----	4.81	"	"	"	"	"	
2-Nitrophenol	"	ND	-----	4.81	"	"	"	"	"	
4-Nitrophenol	"	ND	-----	24.0	"	"	"	"	"	
N-Nitrosodimethylamine	"	ND	-----	4.81	"	"	"	"	"	
N-Nitrosodi-n-propylamine	"	ND	-----	9.62	"	"	"	"	"	
N-Nitrosodiphenylamine	"	ND	-----	4.81	"	"	"	"	"	
Pentachlorophenol	"	ND	-----	9.62	"	"	"	"	"	
Phenanthrene	"	ND	-----	4.81	"	"	"	"	"	
Phenol	"	ND	-----	4.81	"	"	"	"	"	
Pyrene	"	ND	-----	4.81	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	-----	4.81	"	"	"	"	"	
2,4,6-Trichlorophenol	"	ND	-----	4.81	"	"	"	"	"	
Surrogate(s): 2-Fluorobiphenyl		*83.8%*			*22 - 120 %*	"			"	
2-Fluorophenol		*76.4%*			*5 - 120 %*	"			"	
Nitrobenzene-d5		*89.7%*			*26 - 127 %*	"			"	
Phenol-d6		*76.4%*			*4 - 121 %*	"			"	
p-Terphenyl-d14		*102%*			*37 - 130 %*	"			"	
2,4,6-Tribromophenol		*87.5%*			*21 - 129 %*	"			"	

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Brian Cone, Industrial Services Manager

Amended Report

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
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Amended Report

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	03/12/07 14:05

Conventional Chemistry Parameters per APHA/EPA Methods

TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQB0033-01 (07-10-CE-C)		**Water**			**Sampled: 02/01/07 05:40**					
Biochemical Oxygen Demand	EPA 405.1	ND	-----	4.00	mg/l	1x	7020069	02/02/07 11:10	02/07/07 12:33	IR, N1
Chemical Oxygen Demand	EPA 410.4	**18.8**	-----	5.00	"	"	7030276	03/08/07 08:39	03/08/07 15:00	H1, P

Brian L Cone

Amended Report

Brian Cone, Industrial Services Manager

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Amended Report

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	03/12/07 14:05

General Gas Chromatography Analysis

Columbia Inspection, Inc.

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQB0033-03 (07-12-OWW-G)		**Water**			**Sampled: 02/01/07 05:45**					
ISOPROPANOL	EPA 8015M	ND	-----	1.0	mg/L	1x	7B12010	02/12/07 09:56	02/12/07 10:09	
Surrogate(s): ETHYL ACETATE			*120%*		*50 - 150 %*	"			"	

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Brian Cone, Industrial Services Manager

Amended Report

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Amended Report

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	03/12/07 14:05

Total Metals per EPA 200 Series Methods - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 7020081 **Water Preparation Method: EPA 200/3005**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7020081-BLK1)								Extracted: 02/02/07 10:57						
Chromium	EPA 200.8	ND	---	0.00100	mg/l	1x	--	--	--	--	--	--	02/06/07 03:59	
LCS (7020081-BS1)								Extracted: 02/02/07 10:57						
Chromium	EPA 200.8	0.0954	---	0.00100	mg/l	1x	--	0.100	95.4%	(85-115)	--	--	02/06/07 04:03	
Duplicate (7020081-DUP1)				QC Source: PQB0002-01				Extracted: 02/02/07 10:57						
Chromium	EPA 200.8	ND	---	0.00100	mg/l	1x	ND	--	--	--	NR	(20)	02/06/07 15:39	
Matrix Spike (7020081-MS1)				QC Source: PQA0561-01RE1				Extracted: 02/02/07 10:57						
Chromium	EPA 200.8	1.03	---	0.0100	mg/l	1x	0.0105	1.00	102%	(75-125)	--	--	02/06/07 04:10	
Matrix Spike (7020081-MS2)				QC Source: PQB0002-02				Extracted: 02/02/07 10:57						
Chromium	EPA 200.8	0.148	---	0.00100	mg/l	1x	0.0520	0.100	96.0%	(75-125)	--	--	02/06/07 15:46	

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Amended Report

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	03/12/07 14:05

Organochlorine Pesticides and PCBs per EPA Method 608 - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 7020276 **Water Preparation Method: EPA 3510/600 Series**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7020276-BLK1)								Extracted: 02/08/07 11:05						
Aldrin	EPA 608	ND	---	0.100	ug/l	1x	--	--	--	--	--	--	02/12/07 11:19	
alpha-BHC	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
beta-BHC	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
delta-BHC	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
gamma-BHC (Lindane)	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Chlordane (tech)	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
alpha-Chlordane	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
gamma-Chlordane	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
4,4'-DDD	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
4,4'-DDE	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
4,4'-DDT	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Dieldrin	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Endosulfan I	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Endosulfan II	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Endosulfan sulfate	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Endrin	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Endrin aldehyde	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Heptachlor	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Heptachlor epoxide	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Methoxychlor	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Toxaphene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Aroclor 1016	"	ND	---	0.500	"	"	--	--	--	--	--	--	02/13/07 00:40	
Aroclor 1221	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Aroclor 1232	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1242	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1248	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1254	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1260	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Surrogate(s): 2,4,5,6-Tetrachloro-m-xylene		*Recovery: 37.2%*			*Limits: 16-137%*	"							*02/12/07 11:19*	
Decachlorobiphenyl			*63.8%*		*12-130%*	"							*02/13/07 00:40*	

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Amended Report

Brian Cone, Industrial Services Manager

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BEAVERTON, OR 97008-7132
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Amended Report

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	03/12/07 14:05

Organochlorine Pesticides and PCBs per EPA Method 608 - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 7020276 **Water Preparation Method: EPA 3510/600 Series**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (7020276-BS1)								**Extracted: 02/08/07 11:05**						
Aldrin	EPA 608	0.476	---	0.100	ug/l	1x	--	0.500	95.2%	(42-122)	--	--	02/12/07 11:41	
gamma-BHC (Lindane)	"	0.477	---	0.100	"	"	--	"	95.4%	(32-127)	--	--	"	
4,4'-DDT	"	0.556	---	0.100	"	"	--	"	111%	(25-160)	--	--	"	
Dieldrin	"	0.489	---	0.100	"	"	--	"	97.8%	(36-146)	--	--	"	
Endrin	"	0.514	---	0.100	"	"	--	"	103%	(30-147)	--	--	"	
Heptachlor	"	0.497	---	0.100	"	"	--	"	99.4%	(34-111)	--	--	"	
Surrogate(s): 2,4,5,6-Tetrachloro-m-xylene		*Recovery: 47.0%*			*Limits: 16-137%*	"							*02/12/07 11:41*	
LCS (7020276-BS2)								**Extracted: 02/08/07 11:05**						
Aroclor 1016	EPA 608	4.85	---	0.500	ug/l	1x	--	5.00	97.0%	(50-114)	--	--	02/13/07 01:00	
Aroclor 1260	"	4.46	---	0.500	"	"	--	"	89.2%	(8-127)	--	--	"	
Surrogate(s): Decachlorobiphenyl		*Recovery: 75.0%*			*Limits: 12-130%*	"							*02/13/07 01:00*	
LCS Dup (7020276-BSD1)								**Extracted: 02/08/07 11:05**						
Aldrin	EPA 608	0.478	---	0.100	ug/l	1x	--	0.500	95.6%	(42-122)	0.419%	(22)	02/12/07 12:03	
gamma-BHC (Lindane)	"	0.481	---	0.100	"	"	--	"	96.2%	(32-127)	0.835%	"	"	
4,4'-DDT	"	0.563	---	0.100	"	"	--	"	113%	(25-160)	1.25%	"	"	
Dieldrin	"	0.493	---	0.100	"	"	--	"	98.6%	(36-146)	0.815%	"	"	
Endrin	"	0.522	---	0.100	"	"	--	"	104%	(30-147)	1.54%	"	"	
Heptachlor	"	0.497	---	0.100	"	"	--	"	99.4%	(34-111)	0.00%	"	"	
Surrogate(s): 2,4,5,6-Tetrachloro-m-xylene		*Recovery: 46.0%*			*Limits: 16-137%*	"							*02/12/07 12:03*	

Brian Cone, Industrial Services Manager

Amended Report

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BEAVERTON, OR 97008-7132
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Amended Report

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	03/12/07 14:05

Purgeables per EPA Method 624 Modified - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 7020113 **Water Preparation Method: EPA 5030B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7020113-BLK1)									Extracted: 02/05/07 08:12					
Benzene	EPA 624	ND	---	1.00	ug/l	1x	--	--	--	--	--	--	02/05/07 10:51	
Bromodichloromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Surrogate(s): 4-BFB		*Recovery: 89.0%*			*Limits: 75-120%*	"							*02/05/07 10:51*	
1,2-DCA-d4		*102%*			*77-129%*	"							"	
Dibromofluoromethane		*104%*			*80-121%*	"							"	
Toluene-d8		*97.5%*			*80-120%*	"							"	

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Amended Report

Brian Cone, Industrial Services Manager

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Amended Report

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	03/12/07 14:05

Purgeables per EPA Method 624 Modified - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 7020113 **Water Preparation Method: EPA 5030B**

Analyte	Method	Result	MDL[A]	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (7020113-BS1)								Extracted: 02/05/07 08:12						
Benzene	EPA 624	21.4	---	1.00	ug/l	1x	--	20.0	107%	(80-120)	--	--	02/05/07 09:03	
Chlorobenzene	"	21.5	---	1.00	"	"	--	"	108%	(80-124)	--	--	"	
1,1-Dichloroethene	"	19.9	---	1.00	"	"	--	"	99.5%	(78-120)	--	--	"	
Toluene	"	21.5	---	1.00	"	"	--	"	108%	(80-124)	--	--	"	
Trichloroethene	"	20.5	---	1.00	"	"	--	"	102%	(80-132)	--	--	"	
Surrogate(s): *4-BFB*		*Recovery: 96.5%*			*Limits: 75-120%*	"							*02/05/07 09:03*	
1,2-DCA-d4		*103%*			*77-129%*	"							"	
Dibromofluoromethane		*109%*			*80-121%*	"							"	
Toluene-d8		*104%*			*80-120%*	"							"	
Matrix Spike (7020113-MS1)					QC Source: PQB0042-02			Extracted: 02/05/07 08:12						
Benzene	EPA 624	19.2	---	1.00	ug/l	1x	ND	20.0	96.0%	(80-124)	--	--	02/05/07 09:30	
Chlorobenzene	"	19.0	---	1.00	"	"	ND	"	95.0%	(72.9-134)	--	--	"	
1,1-Dichloroethene	"	19.8	---	1.00	"	"	ND	"	99.0%	(79.3-127)	--	--	"	
Toluene	"	19.0	---	1.00	"	"	ND	"	95.0%	(79.7-131)	--	--	"	
Trichloroethene	"	18.9	---	1.00	"	"	ND	"	94.5%	(68.4-130)	--	--	"	
Surrogate(s): *4-BFB*		*Recovery: 93.5%*			*Limits: 75-120%*	"							*02/05/07 09:30*	
1,2-DCA-d4		*102%*			*77-129%*	"							"	
Dibromofluoromethane		*106%*			*80-121%*	"							"	
Toluene-d8		*98.0%*			*80-120%*	"							"	
Matrix Spike Dup (7020113-MSD1)					QC Source: PQB0042-02			Extracted: 02/05/07 08:12						
Benzene	EPA 624	18.5	---	1.00	ug/l	1x	ND	20.0	92.5%	(80-124)	3.71%	(25)	02/05/07 09:57	
Chlorobenzene	"	19.0	---	1.00	"	"	ND	"	95.0%	(72.9-134)	0.00%	"	"	
1,1-Dichloroethene	"	19.0	---	1.00	"	"	ND	"	95.0%	(79.3-127)	4.12%	"	"	
Toluene	"	18.6	---	1.00	"	"	ND	"	93.0%	(79.7-131)	2.13%	"	"	
Trichloroethene	"	18.0	---	1.00	"	"	ND	"	90.0%	(68.4-130)	4.88%	"	"	
Surrogate(s): *4-BFB*		*Recovery: 95.0%*			*Limits: 75-120%*	"							*02/05/07 09:57*	
1,2-DCA-d4		*101%*			*77-129%*	"							"	
Dibromofluoromethane		*105%*			*80-121%*	"							"	
Toluene-d8		*100%*			*80-120%*	"							"	

TestAmerica - Portland, OR

Brian Cone, Industrial Services Manager

Amended Report

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SCOEPA00025176

TestAmerica
ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	03/12/07 14:05

Acid and Base/Neutral Extractables per EPA Method 625 - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 7020116 **Water Preparation Method: 3520B Liq-Liq**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7020116-BLK1)							Extracted: 02/05/07 16:00							
Acenaphthene	EPA 625	ND	---	5.00	ug/l	1x	--	--	--	--	--	--	02/07/07 20:28	
Acenaphthylene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Anthracene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Benzidine	"	ND	---	60.0	"	"	--	--	--	--	--	--	"	
Benzo (a) anthracene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Benzo (a) pyrene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Benzo (b) fluoranthene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Benzo (ghi) perylene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Benzo (k) fluoranthene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4-Bromophenyl phenyl ether	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Butyl benzyl phthalate	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4-Chloro-3-methylphenol	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bis(2-chloroethoxy)methane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Bis(2-chloroethyl)ether	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bis(2-chloroisopropyl)ether	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2-Chloronaphthalene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2-Chlorophenol	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4-Chlorophenyl phenyl ether	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Chrysene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Di-n-butyl phthalate	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Di-n-octyl phthalate	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dibenzo (a,h) anthracene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2 Diphenylhydrazine (as Azobenzene)	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
3,3'-Dichlorobenzidine	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2,4-Dichlorophenol	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Diethyl phthalate	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2,4-Dimethylphenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Dimethyl phthalate	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4,6-Dinitro-2-methylphenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2,4-Dinitrophenol	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
2,4-Dinitrotoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2,6-Dinitrotoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bis(2-ethylhexyl)phthalate	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Fluoranthene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Fluorene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Hexachlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	

TestAmerica - Portland, OR

Brian L Cone

Amended Report

Brian Cone, Industrial Services Manager

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TestAmerica
ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

Siltronic	Project Name:	**Monthly**	
7200 NW. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	03/12/07 14:05

Acid and Base/Neutral Extractables per EPA Method 625 - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 7020116 **Water Preparation Method: 3520B Liq-Liq**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7020116-BLK1)									Extracted: 02/05/07 16:00					
Hexachlorobutadiene	EPA 625	ND	---	10.0	ug/l	1x	--	--	--	--	--	--	02/07/07 20:28	
Hexachlorocyclopentadiene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Hexachloroethane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Indeno (1,2,3-cd) pyrene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Isophorone	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Nitrobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2-Nitrophenol	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4-Nitrophenol	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
N-Nitrosodimethylamine	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
N-Nitrosodi-n-propylamine	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
N-Nitrosodiphenylamine	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Pentachlorophenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Phenanthrene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Phenol	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Pyrene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2,4,6-Trichlorophenol	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Surrogate(s): 2-Fluorobiphenyl		*Recovery: 82.9%*			*Limits: 22-120%*	"							*02/07/07 20:28*	
2-Fluorophenol		*93.3%*			*5-120%*	"							"	
Nitrobenzene-d5		*102%*			*26-127%*	"							"	
Phenol-d6		*95.3%*			*4-121%*	"							"	
p-Terphenyl-d14		*104%*			*37-130%*	"							"	
2,4,6-Tribromophenol		*100%*			*21-129%*	"							"	
LCS (7020116-BS1)									Extracted: 02/05/07 16:00					
Acenaphthene	EPA 625	51.0	---	5.00	ug/l	1x	--	50.0	102%	(45-145)	--	--	02/07/07 21:53	
Acenaphthylene	"	41.1	---	5.00	"	"	--	"	82.2%	(30-145)	--	--	"	
Anthracene	"	52.9	---	5.00	"	"	--	"	106%	(25-135)	--	--	"	
Benzidine	"	39.1	---	60.0	"	"	--	40.0	97.8%	(0-169)	--	--	"	L6
Benzo (a) anthracene	"	50.5	---	5.00	"	"	--	50.0	101%	(30-145)	--	--	"	
Benzo (a) pyrene	"	47.9	---	5.00	"	"	--	"	95.8%	(15-150)	--	--	"	
Benzo (b) fluoranthene	"	49.5	---	5.00	"	"	--	"	99.0%	(20-150)	--	--	"	
Benzo (ghi) perylene	"	52.7	---	5.00	"	"	--	"	105%	(10-150)	--	--	"	
Benzo (k) fluoranthene	"	52.8	---	5.00	"	"	--	"	106%	"	--	--	"	
4-Bromophenyl phenyl ether	"	50.6	---	5.00	"	"	--	"	101%	(50-130)	--	--	"	
Butyl benzyl phthalate	"	51.6	---	5.00	"	"	--	"	103%	(10-150)	--	--	"	
4-Chloro-3-methylphenol	"	48.6	---	5.00	"	"	--	"	97.2%	(20-150)	--	--	"	
Bis(2-chloroethoxy)methane	"	51.9	---	10.0	"	"	--	"	104%	(30-150)	--	--	"	
Bis(2-chloroethyl)ether	"	43.2	---	5.00	"	"	--	"	86.4%	(10-150)	--	--	"	

TestAmerica - Portland, OR

Brian Cone, Industrial Services Manager

Amended Report

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TestAmerica
ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	03/12/07 14:05

Acid and Base/Neutral Extractables per EPA Method 625 - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 7020116 **Water Preparation Method: 3520B Liq-Liq**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	%REC	(Limits)	%RPD	(Limits)	Analyzed	Notes
LCS (7020116-BS1)									Extracted: 02/05/07 16:00					
Bis(2-chloroisopropyl)ether	EPA 625	48.7	---	10.0	ug/l	1x	--	50.0	97.4%	(35-150)	--	--	02/07/07 21:53	
2-Chloronaphthalene	"	44.0	---	5.00	"	"	--	"	88.0%	(60-120)	--	--	"	
2-Chlorophenol	"	47.0	---	5.00	"	"	--	"	94.0%	(20-135)	--	--	"	
4-Chlorophenyl phenyl ether	"	51.0	---	5.00	"	"	--	"	102%	(25-150)	--	--	"	
Chrysene	"	51.0	---	5.00	"	"	--	"	102%	(15-150)	--	--	"	
Di-n-butyl phthalate	"	52.2	---	5.00	"	"	--	"	104%	(10-120)	--	--	"	
Di-n-octyl phthalate	"	58.5	---	5.00	"	"	--	"	117%	(10-150)	--	--	"	
Dibenzo (a,h) anthracene	"	49.3	---	5.00	"	"	--	"	98.6%	"	--	--	"	
1,2-Dichlorobenzene	"	25.1	---	5.00	"	"	--	"	50.2%	(10-130)	--	--	"	
1,2 Diphenylhydrazine (as Azobenzene)	"	46.1	---	5.00	"	"	--	"	92.2%	(10-150)	--	--	"	
1,3-Dichlorobenzene	"	19.2	---	5.00	"	"	--	"	38.4%	"	--	--	"	
1,4-Dichlorobenzene	"	21.0	---	5.00	"	"	--	"	42.0%	(10-125)	--	--	"	
3,3'-Dichlorobenzidine	"	33.6	---	5.00	"	"	--	40.0	84.0%	(10-150)	--	--	"	
2,4-Dichlorophenol	"	51.5	---	5.00	"	"	--	50.0	103%	(35-135)	--	--	"	
Diethyl phthalate	"	49.8	---	5.00	"	"	--	"	99.6%	(10-115)	--	--	"	
2,4-Dimethylphenol	"	30.0	---	10.0	"	"	--	"	60.0%	(30-120)	--	--	"	
Dimethyl phthalate	"	48.7	---	5.00	"	"	--	"	97.4%	(10-115)	--	--	"	
4,6-Dinitro-2-methylphenol	"	50.5	---	10.0	"	"	--	"	101%	(10-150)	--	--	"	
2,4-Dinitrophenol	"	40.1	---	25.0	"	"	--	"	80.2%	"	--	--	"	
2,4-Dinitrotoluene	"	44.7	---	5.00	"	"	--	"	89.4%	(35-140)	--	--	"	
2,6-Dinitrotoluene	"	45.7	---	5.00	"	"	--	"	91.4%	(50-150)	--	--	"	
Bis(2-ethylhexyl)phthalate	"	52.9	---	10.0	"	"	--	"	106%	(10-150)	--	--	"	
Fluoranthene	"	51.7	---	5.00	"	"	--	"	103%	(25-140)	--	--	"	
Fluorene	"	49.0	---	5.00	"	"	--	"	98.0%	(55-125)	--	--	"	
Hexachlorobenzene	"	46.1	---	5.00	"	"	--	"	92.2%	(10-150)	--	--	"	
Hexachlorobutadiene	"	23.7	---	10.0	"	"	--	"	47.4%	(10-120)	--	--	"	
Hexachlorocyclopentadiene	"	11.1	---	10.0	"	"	--	"	22.2%	(10-150)	--	--	"	
Hexachloroethane	"	14.2	---	10.0	"	"	--	"	28.4%	(10-115)	--	--	"	
Indeno (1,2,3-cd) pyrene	"	51.6	---	5.00	"	"	--	"	103%	(10-150)	--	--	"	
Isophorone	"	44.8	---	5.00	"	"	--	"	89.6%	(20-150)	--	--	"	
Naphthalene	"	43.7	---	5.00	"	"	--	"	87.4%	(20-135)	--	--	"	
Nitrobenzene	"	46.5	---	5.00	"	"	--	"	93.0%	(35-150)	--	--	"	
2-Nitrophenol	"	48.0	---	5.00	"	"	--	"	96.0%	(25-150)	--	--	"	
4-Nitrophenol	"	45.4	---	25.0	"	"	--	"	90.8%	(10-135)	--	--	"	
N-Nitrosodimethylamine	"	39.6	---	5.00	"	"	--	"	79.2%	(10-150)	--	--	"	
N-Nitrosodi-n-propylamine	"	50.0	---	10.0	"	"	--	"	100%	"	--	--	"	
N-Nitrosodiphenylamine	"	50.7	---	5.00	"	"	--	"	101%	"	--	--	"	
Pentachlorophenol	"	41.3	---	10.0	"	"	--	"	82.6%	"	--	--	"	
Phenanthrene	"	51.0	---	5.00	"	"	--	"	102%	(50-120)	--	--	"	

TestAmerica - Portland, OR

Brian Cone, Industrial Services Manager

Amended Report

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	03/12/07 14:05

Acid and Base/Neutral Extractables per EPA Method 625 - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 7020116 **Water Preparation Method: 3520B Liq-Liq**

Analyte	Method	Result	MDL[A]	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (7020116-BS1)								**Extracted: 02/05/07 16:00**						
Phenol	EPA 625	43.8	---	5.00	ug/l	1x	--	50.0	87.6%	(10-115)	--	--	02/07/07 21:53	
Pyrene	"	50.4	---	5.00	"	"	--	"	101%	(50-125)	--	--	"	
1,2,4-Trichlorobenzene	"	32.4	---	5.00	"	"	--	"	64.8%	(10-145)	--	--	"	
2,4,6-Trichlorophenol	"	48.2	---	5.00	"	"	--	"	96.4%	(35-145)	--	--	"	
Surrogate(s): 2-Fluorobiphenyl		*Recovery: 97.5%*			*Limits: 22-120%*	"							*02/07/07 21:53*	
2-Fluorophenol		*90.0%*			*5-120%*	"							"	
Nitrobenzene-d5		*102%*			*26-127%*	"							"	
Phenol-d6		*92.7%*			*4-121%*	"							"	
p-Terphenyl-d14		*106%*			*37-130%*	"							"	
2,4,6-Tribromophenol		*101%*			*21-129%*	"							"	
LCS Dup (7020116-BSD1)								**Extracted: 02/05/07 16:00**						
Acenaphthene	EPA 625	49.5	---	5.00	ug/l	1x	--	50.0	99.0%	(45-145)	2.99%	(50)	02/07/07 22:35	
Acenaphthylene	"	41.3	---	5.00	"	"	--	"	82.6%	(30-145)	0.485%	"	"	
Anthracene	"	52.5	---	5.00	"	"	--	"	105%	(25-135)	0.759%	"	"	
Benzidine	"	41.7	---	60.0	"	"	--	40.0	104%	(0-169)	6.44%	"	"	L6
Benzo (a) anthracene	"	47.2	---	5.00	"	"	--	50.0	94.4%	(30-145)	6.76%	"	"	
Benzo (a) pyrene	"	46.7	---	5.00	"	"	--	"	93.4%	(15-150)	2.54%	"	"	
Benzo (b) fluoranthene	"	47.6	---	5.00	"	"	--	"	95.2%	(20-150)	3.91%	"	"	
Benzo (ghi) perylene	"	50.1	---	5.00	"	"	--	"	100%	(10-150)	5.06%	"	"	
Benzo (k) fluoranthene	"	51.6	---	5.00	"	"	--	"	103%	"	2.30%	"	"	
4-Bromophenyl phenyl ether	"	50.7	---	5.00	"	"	--	"	101%	(50-130)	0.197%	"	"	
Butyl benzyl phthalate	"	49.8	---	5.00	"	"	--	"	99.6%	(10-150)	3.55%	"	"	
4-Chloro-3-methylphenol	"	48.5	---	5.00	"	"	--	"	97.0%	(20-150)	0.206%	"	"	
Bis(2-chloroethoxy)methane	"	51.3	---	10.0	"	"	--	"	103%	(30-150)	1.16%	"	"	
Bis(2-chloroethyl)ether	"	43.2	---	5.00	"	"	--	"	86.4%	(10-150)	0.00%	"	"	
Bis(2-chloroisopropyl)ether	"	50.8	---	10.0	"	"	--	"	102%	(35-150)	4.22%	"	"	
2-Chloronaphthalene	"	43.8	---	5.00	"	"	--	"	87.6%	(60-120)	0.456%	"	"	
2-Chlorophenol	"	48.0	---	5.00	"	"	--	"	96.0%	(20-135)	2.11%	"	"	
4-Chlorophenyl phenyl ether	"	47.8	---	5.00	"	"	--	"	95.6%	(25-150)	6.48%	"	"	
Chrysene	"	49.0	---	5.00	"	"	--	"	98.0%	(15-150)	4.00%	"	"	
Di-n-butyl phthalate	"	53.1	---	5.00	"	"	--	"	106%	(10-120)	1.71%	"	"	
Di-n-octyl phthalate	"	56.8	---	5.00	"	"	--	"	114%	(10-150)	2.95%	"	"	
Dibenzo (a,h) anthracene	"	47.6	---	5.00	"	"	--	"	95.2%	"	3.51%	"	"	
1,2 Diphenylhydrazine (as Azobenzene)	"	45.9	---	5.00	"	"	--	"	91.8%	"	0.435%	"	"	
1,2-Dichlorobenzene	"	31.6	---	5.00	"	"	--	"	63.2%	(10-130)	22.9%	"	"	
1,3-Dichlorobenzene	"	25.6	---	5.00	"	"	--	"	51.2%	(10-150)	28.6%	"	"	
1,4-Dichlorobenzene	"	28.2	---	5.00	"	"	--	"	56.4%	(10-125)	29.3%	"	"	
3,3'-Dichlorobenzidine	"	41.1	---	5.00	"	"	--	40.0	103%	(10-150)	20.1%	"	"	
2,4-Dichlorophenol	"	50.4	---	5.00	"	"	--	50.0	101%	(35-135)	2.16%	"	"	

TestAmerica - Portland, OR

Brian Cone, Industrial Services Manager

Amended Report

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

SCOEPA00025180

TestAmerica
ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	03/12/07 14:05

Acid and Base/Neutral Extractables per EPA Method 625 - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 7020116 **Water Preparation Method: 3520B Liq-Liq**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS Dup (7020116-BSD1)								**Extracted: 02/05/07 16:00**						
Diethyl phthalate	EPA 625	50.2	---	5.00	ug/l	1x	--	50.0	100%	(10-115)	0.800%	(50)	02/07/07 22:35	
2,4-Dimethylphenol	"	27.3	---	10.0	"	"	--	"	54.6%	(30-120)	9.42%	"	"	
Dimethyl phthalate	"	48.0	---	5.00	"	"	--	"	96.0%	(10-115)	1.45%	"	"	
4,6-Dinitro-2-methylphenol	"	50.8	---	10.0	"	"	--	"	102%	(10-150)	0.592%	"	"	
2,4-Dinitrophenol	"	40.6	---	25.0	"	"	--	"	81.2%	"	1.24%	"	"	
2,4-Dinitrotoluene	"	42.0	---	5.00	"	"	--	"	84.0%	(35-140)	6.23%	"	"	
2,6-Dinitrotoluene	"	45.5	---	5.00	"	"	--	"	91.0%	(50-150)	0.439%	"	"	
Bis(2-ethylhexyl)phthalate	"	50.5	---	10.0	"	"	--	"	101%	(10-150)	4.64%	"	"	
Fluoranthene	"	50.2	---	5.00	"	"	--	"	100%	(25-140)	2.94%	"	"	
Fluorene	"	47.8	---	5.00	"	"	--	"	95.6%	(55-125)	2.48%	"	"	
Hexachlorobenzene	"	47.5	---	5.00	"	"	--	"	95.0%	(10-150)	2.99%	"	"	
Hexachlorobutadiene	"	30.6	---	10.0	"	"	--	"	61.2%	(10-120)	25.4%	"	"	
Hexachlorocyclopentadiene	"	12.6	---	10.0	"	"	--	"	25.2%	(10-150)	12.7%	"	"	
Hexachloroethane	"	23.0	---	10.0	"	"	--	"	46.0%	(10-115)	47.3%	"	"	
Indeno (1,2,3-cd) pyrene	"	50.4	---	5.00	"	"	--	"	101%	(10-150)	2.35%	"	"	
Isophorone	"	44.2	---	5.00	"	"	--	"	88.4%	(20-150)	1.35%	"	"	
Naphthalene	"	43.4	---	5.00	"	"	--	"	86.8%	(20-135)	0.689%	"	"	
Nitrobenzene	"	44.6	---	5.00	"	"	--	"	89.2%	(35-150)	4.17%	"	"	
2-Nitrophenol	"	48.5	---	5.00	"	"	--	"	97.0%	(25-150)	1.04%	"	"	
4-Nitrophenol	"	49.4	---	25.0	"	"	--	"	98.8%	(10-135)	8.44%	"	"	
N-Nitrosodimethylamine	"	44.0	---	5.00	"	"	--	"	88.0%	(10-150)	10.5%	"	"	
N-Nitrosodi-n-propylamine	"	50.5	---	10.0	"	"	--	"	101%	"	0.995%	"	"	
N-Nitrosodiphenylamine	"	50.3	---	5.00	"	"	--	"	101%	"	0.792%	"	"	
Pentachlorophenol	"	44.8	---	10.0	"	"	--	"	89.6%	"	8.13%	"	"	
Phenanthrene	"	51.7	---	5.00	"	"	--	"	103%	(50-120)	1.36%	"	"	
Phenol	"	47.5	---	5.00	"	"	--	"	95.0%	(10-115)	8.11%	"	"	
Pyrene	"	47.9	---	5.00	"	"	--	"	95.8%	(50-125)	5.09%	"	"	
1,2,4-Trichlorobenzene	"	35.9	---	5.00	"	"	--	"	71.8%	(10-145)	10.2%	"	"	
2,4,6-Trichlorophenol	"	50.1	---	5.00	"	"	--	"	100%	(35-145)	3.87%	"	"	

Surrogate(s):	*2-Fluorobiphenyl*	*Recovery:*	*96.9%*	*Limits: 22-120%*	"	*02/07/07 22:35*
	2-Fluorophenol		*91.3%*	*5-120%*	"	"
	Nitrobenzene-d5		*101%*	*26-127%*	"	"
	Phenol-d6		*98.0%*	*4-121%*	"	"
	p-Terphenyl-d14		*103%*	*37-130%*	"	"
	2,4,6-Tribromophenol		*92.0%*	*21-129%*	"	"

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Amended Report

Brian Cone, Industrial Services Manager

SCOEPA00025181

TestAmerica
ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	03/12/07 14:05

Conventional Chemistry Parameters per APHA/EPA Methods - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 7020069 **Water Preparation Method: General Preparation**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7020069-BLK1)								Extracted: 02/02/07 09:08						
Biochemical Oxygen Demand	EPA 405.1	ND	---	4.00	mg/l	1x	--	--	--	--	--	--	02/07/07 12:33	K3
LCS (7020069-BS1)								Extracted: 02/02/07 09:08						
Biochemical Oxygen Demand	EPA 405.1	267	---	4.00	mg/l	1x	--	198	135%	(85-115)	--	--	02/07/07 12:33	L1, N1
Duplicate (7020069-DUP1)				QC Source: PQB0021-01				Extracted: 02/02/07 09:08						
Biochemical Oxygen Demand	EPA 405.1	246	---	4.00	mg/l	1x	248	--	--	--	0.810%	(40)	02/07/07 12:33	

QC Batch: 7030276 **Water Preparation Method: General Preparation**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7030276-BLK1)								Extracted: 03/08/07 08:39						
Chemical Oxygen Demand	EPA 410.4	ND	---	5.00	mg/l	1x	--	--	--	--	--	--	03/08/07 15:00	
LCS (7030276-BS1)								Extracted: 03/08/07 08:39						
Chemical Oxygen Demand	EPA 410.4	53.4	---	5.00	mg/l	1x	--	50.0	107%	(90-110)	--	--	03/08/07 15:00	
Duplicate (7030276-DUP1)				QC Source: PQB0836-11				Extracted: 03/08/07 08:39						
Chemical Oxygen Demand	EPA 410.4	13.8	---	5.00	mg/l	1x	10.8	--	--	--	24.4%	(20)	03/08/07 15:00	R4

Brian L Cone

Amended Report

Brian Cone, Industrial Services Manager

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TestAmerica
ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	03/12/07 14:05

General Gas Chromatography Analysis - Laboratory Quality Control Results

Columbia Inspection, Inc.

QC Batch: 7B12010 **Water Preparation Method: *** Organic Prep**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (7B12010-DUP1)					QC Source: PQB0033-03			Extracted: 02/12/07 09:56						
ISOPROPANOL	EPA 8015M	ND	---	1.0	mg/L	1x	ND	--	--	--	NR	(20)	02/12/07 10:09	
Surrogate(s): ETHYL ACETATE		*Recovery: 84.5%*			*Limits: 50-150%*	"							*02/12/07 10:09*	
Reference (7B12010-SRM1)								Extracted: 02/12/07 09:56						
ISOPROPANOL	EPA 8015M	24.9	---	1.0	mg/L	1x	--	--	--	--	--	--	02/12/07 10:09	
Surrogate(s): ETHYL ACETATE		*Recovery: 146%*			*Limits: 50-150%*	"							*02/12/07 10:09*	
Reference (7B12010-SRM2)								Extracted: 02/12/07 09:56						
ISOPROPANOL	EPA 8015M	16.7	---	1.0	mg/L	1x	--	--	--	--	--	--	02/12/07 10:09	
Surrogate(s): ETHYL ACETATE		*Recovery: 98.0%*			*Limits: 50-150%*	"							*02/12/07 10:09*	

TestAmerica - Portland, OR

Brian L Cone

Amended Report

Brian Cone, Industrial Services Manager

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TestAmerica
ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Amended Report

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	03/12/07 14:05

Notes and Definitions

Report Specific Notes:

H1	-	Sample analysis performed past the method-specified holding time per client's approval.
IR	-	Data Rejected. No Reportable Results available.
K3	-	The dilution water D.O. depletion was > 0.2 mg/L.
L1	-	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above acceptance limits.
L6	-	Per the EPA methods, benzidine is known to be subject to oxidative losses during solvent concentration.
N1	-	See case narrative.
P	-	The sample, as received, was not preserved in accordance to the referenced analytical method.
R4	-	Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.

Laboratory Reporting Conventions:

DET	-	Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
ND	-	Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
NR/NA	-	Not Reported / Not Available
dry	-	Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
wet	-	Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
RPD	-	RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
MRL	-	METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
MDL*	-	METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
Dil	-	Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
Reporting Limits	-	Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
Electronic Signature	-	Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy.* Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Brian L Cone

Amended Report

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Brian Cone, Industrial Services Manager

SCOEPA00025184

TestAmerica
ANALYTICAL TESTING CORPORATION

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508 (425) 420-9200 FAX 420-9210
East 11115 Montgomery, Suite B, Spokane, WA 99206-4779 (509) 924-9200 FAX 924-9290
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 (503) 906-9200 FAX 906-9210
20354 Empire Avenue, Suite E-9, Bend, OR 97708-1883 (541) 383-9310 FAX 382-7588

CHAIN OF CUSTODY REPORT

Work Order #: PQ DQ033

CLIENT: SILTRONIC CORPORATION
REPORT TO: TOM ROTHSCHILD
ADDRESS: 7200 NW FRONT AVE
PORTLAND, OREGON 97210
PHONE: 503-219-7374 FAX: 503-219-4144

INVOICE TO: ACCOUNTS PAYABLE
7200 NW FRONT AVE
PORTLAND, OREGON 97210

P.O. NUMBER: 4500186654

PROJECT NAME: Monthly
PROJECT NUMBER:
SAMPLED BY: Dianne Irish

TURNAROUND REQUEST in Business Days *
Organic & Inorganic Analyses: [X] 7 5 4 3 2 1 <1 STD.
Petroleum Hydrocarbon Analyses: 5 4 3 2 1 <1 STD.
OTHER Specify:
* Turnaround Requests less than standard may incur Rush Charges

	CLIENT SAMPLE INDENTIFICATION	SAMPLING DATE/TIME	BOD	CHROME TOTAL	608	624	625	IPA	1-2, Diphenylhydrazine	MATRIX (W, S, Q)	# OF CONT.	COMMENTS	NCA WO ID
1	07-10-GE-C	2/1/07 0540	X	X						W	2		
2	07-11-GE-S	2/1/07 0540			X	X	X		X	W	5		
3	07-12-DWD-S	2/1/07 0545						X		W	3		
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													

REQUESTED ANALYSES

RELINQUISHED BY: Dianne Irish DATE: 2-1-07
PRINT NAME: DIANNE IRISH FIRM: Siltronic TIME:
RELINQUISHED BY: WS Williamson DATE: 2-1
PRINT NAME: FIRM: SenVoy TIME: 1645

RECEIVED BY: WS Williamson DATE: 2-1-07
PRINT NAME: FIRM: SENVOY TIME: 1545
RECEIVED BY: DATE: 2-1-07
PRINT NAME: FIRM: TAP TIME: 1640

ADDITIONAL REMARKS:

TEMP:

PAGE OF

SCOEPA00025185

Circle Y or N
(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: (applies to temp at receipt) **Logged-in By:** **Unpacked/Labeled By:** *Cooler ID:* ____ (____ of ____)

Date: 2·1·07 Date: 2·1·07 Date: 2·1·07 Work Order No. PQB0033

Time: 1640 Initials: [illegible] Initials: [illegible] Client: Sitrin

Initials: [illegible] Project: MO

Container Type:
- ✓ Cooler
- ____ Box
- ____ None/Other ____

COC Seals:
- ____ Ship. Container
- ____ On Bottles
- ____ None
- ____ Sign By
- ____ Date

Packing Material:
- ✓ Bubble Bags
- ____ Styrofoam
- ____ Foam Packs
- ✓ None/Other Other ____

Refrigerant:
- ____ Gel Ice Pack ____
- ____ Loose Ice
- ✓ None/Other ____
- ____ None

Received Via: Bill#
- ____ Fed Ex
- ____ Client
- ____ UPS
- ____ NCA Courier
- ____ DHL
- ____ Mid Valley
- ✓ Senvoy
- ____ TDP
- ____ GS
- ____ Other ____

Cooler Temperature (IR): 21.1 °C Plastic Glass (circle one) (Frozen filters, Tedlars and aqueous Metals exempt)

Temperature Blank? ____ °C or NA Trip Blank? Y or N or NA

Sample Containers:		ID			ID
Intact?	Y or N		Metals Preserved?	Y or N or NA	
Provided by NCA?	Y or N		Client QAPP Preserved?	Y or N or NA	
Correct Type?	Y or N		Adequate Volume? (for tests requested)	Y or N	
#Containers match COC?	Y or N		Water VOAs: Headspace?	Y or N or NA	
IDs/time/date match COC?	Y or N		Comments:		
Hold Times in hold?	Y or N				

PROJECT MANAGEMENT

Is the Chain of Custody complete? Y or N If N, circle the items that were incomplete

Comments, Problems ____

Total access set up? Y or N
Has client been contacted regarding non-conformances? Y or N If Y, ____/____ Date Time

PM Initials: ____ Date: ____ Time: ____

(rev 3, 09/12/05)

siltronic
perfect silicon solutions

Koreen Lail
Environmental Affairs

Siltronic Corporation
7200 NW Front Avenue, MS
Portland OR 97210-3676, USA
Tel. 503-219-7994
Fax 503-219-7599
Koreen.lail@siltronic.com
KLL: 010

February 22, 2007

Dr. Elliot Zais
Water Quality Source Control
Department of Environmental Quality Northwest Region
2020 SW Fourth Avenue, Suite 400
Portland, Oregon 97201-4987

Supplemental Data Reports

Dear Dr. Zais:

Enclosed are the supplemental data reports for 2004, 2005, and 2006 that you requested. Data that is non-detect is reported as half values as recommended by EPA in the supplemental information document EPA-820-B-95-001.

We would also like to take this opportunity to confirm the following test methods that we are using to collect the attached data:

Turbidity:
Data Processing: Facilities Operations
Method: EPA 180.1
Instrument: HACH Model 2100AN, Laboratory Turbidimeter
The Turbidimeter is calibrated and relamped semi-annually by a HACH certified technician. The turbidimeter is also recalibrated quarterly by the facilities laboratory. The sample is collected and tested by a facility operator normally six times per day. The average for the day is reported on the Supplemental Data Report.

TSS:
Data Processing: Facilities Lab
Method: Standard Methods: 2540 D., EPA 160.2
Instrument: 103 C drying oven and analytical scale.

Fluoride:
Data Processing: Facilities Lab
Standard Methods: 4500-F C., EPA 300.0 / 300.2
Instrument: Orion meter, Thermo Orion Ion Specific Probe

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Total Phosphate:
Data Processing: Facilities Lab
Standard Methods: 4500-P B&E, EPA 365.3
Instrument: HACH Spectrophotometer DR4000

Total Chromium:
Data Processing: Outside Lab
Total metals per EPA method 200.8
Instrument: ICP Mass Spectrometer

BOD:
Data Processing: Outside Lab
EPA method 405.1
Instrument: DO electrode

If you have any questions or comments, please contact me.

Best regards,

Koreen Lail
Environmental Affairs
Siltronic Corporation

Enclosures:
2004, 2005, 2006 Supplemental Data reports

cc: WQ - DMR processing
cc: Tom Rothschild

SUPPLEMENTAL DATA

Siltronic Corporation Site ID 93450
7200 NW Front Avenue
Portland, Oregon 97210-3676

Permit Number: 101128
Discharge Number: Outfall 003
January 2005 Discharge Data

Date	BOD mg/L	TSS mg/L	Fluoride mg/L	Phosphate mg/L	Total Chromium mg/L
1/6/2005	4.0	1.6	6.45	2.460	0.0005
1/13/2005	5.0	1.7	8.10	0.092	0.0005
1/20/2005	1.5	2.3	8.80	0.154	0.0005
1/27/2005	5.0	2.4	8.76	0.129	0.0005

DAILY FLOW'S	
Day	M G D
1	0.956
2	0.810
3	0.849
4	0.847
5	0.716
6	0.839
7	0.858
8	0.825
9	0.947
10	0.854
11	0.864
12	0.864
13	0.891
14	0.971
15	0.859
16	0.777
17	0.855
18	0.814
19	0.835
20	0.853
21	0.893
22	0.880
23	0.906
24	0.975
25	0.752
26	0.887
27	0.898
28	0.874
29	0.924
30	0.830
31	0.874
Total:	26.777

Turbidity Avg	
Day	NTU's
1	2.7
2	3.5
3	3.8
4	3.3
5	3.2
6	5.4
7	3.2
8	2.6
9	3.5
10	3.2
11	3.7
12	3.6
13	2.7
14	3.5
15	4.5
16	3.3
17	5.2
18	4.6
19	4.1
20	5.1
21	5.2
22	6.0
23	5.0
24	4.1
25	5.4
26	4.8
27	4.6
28	4.8
29	4.8
30	5.1
31	4.9

SUPPLEMENTAL DATA

Siltronic Corporation Site ID 93450
7200 NW Front Avenue
Portland, Oregon 97210-3676

Permit Number: 101128
Discharge Number: Outfall 003
February 2005 Discharge Data

Date	BOD mg/L	TSS mg/L	Fluoride mg/L	Phosphate mg/L	Total Chromium mg/L
2/3/2005	6.0	30.4	9.82	0.105	0.0005
2/10/2005	5.0	1.3	8.36	0.078	0.0005
2/17/2005	1.5	0.7	7.34	0.072	0.0005
2/24/2005	4.0	2.3	8.10	0.157	0.0005

DAILY FLOW'S	
Day	M G D
1	0.893
2	0.935
3	0.850
4	0.956
5	0.897
6	0.867
7	0.873
8	0.866
9	0.904
10	0.878
11	0.865
12	0.900
13	0.838
14	0.879
15	0.879
16	0.786
17	1.010
18	0.886
19	0.772
20	0.917
21	0.874
22	0.854
23	0.798
24	0.890
25	0.915
26	0.822
27	0.890
28	0.867
Total:	24.561

Turbidity Avg	
Day	NTU's
1	4.6
2	7.9
3	6.2
4	16.9
5	7.6
6	7.8
7	5.2
8	6.0
9	6.3
10	4.6
11	5.3
12	6.7
13	8.2
14	6.1
15	6.4
16	4.2
17	4.7
18	6.9
19	5.7
20	6.7
21	6.9
22	6.2
23	6.7
24	4.5
25	4.9
26	5.4
27	5.9
28	6.3

SUPPLEMENTAL DATA

Siltronic Corporation Site ID 93450
7200 NW Front Avenue
Portland, Oregon 97210-3676

Permit Number: 101128
Discharge Number: Outfall 003
March 2005 Discharge Data

Date	BOD mg/L	TSS mg/L	Fluoride mg/L	Phosphate mg/L	Total Chromium mg/L
3/3/2005	4.0	1.6	7.50	0.109	0.0005
3/10/2005	4.0	2.4	6.80	0.158	0.0010
3/17/2005	1.5	1.6	6.90	0.154	0.0005
3/24/2005	3.0	2.2	6.50	0.110	0.0005
3/31/2005	5.0	0.5	8.10	0.104	0.0005

DAILY FLOW'S	
Day	M G D
1	0.867
2	0.788
3	0.816
4	0.884
5	0.785
6	0.847
7	0.818
8	0.887
9	0.830
10	0.859
11	0.838
12	0.869
13	0.793
14	0.863
15	0.817
16	0.858
17	0.756
18	0.840
19	0.827
20	0.851
21	0.919
22	0.849
23	0.844
24	0.767
25	0.884
26	0.859
27	0.880
28	0.879
29	0.906
30	0.875
31	0.854
Total:	26.209

Turbidity Avg	
Day	NTU's
1	3.9
2	3.3
3	3.6
4	3.8
5	4.0
6	3.5
7	3.8
8	3.8
9	4.5
10	4.0
11	3.5
12	4.0
13	3.3
14	2.4
15	3.4
16	3.7
17	4.3
18	5.4
19	5.0
20	4.0
21	4.3
22	4.0
23	4.7
24	4.0
25	4.1
26	3.6
27	4.0
28	3.1
29	3.2
30	3.3
31	4.0

SUPPLEMENTAL DATA

Siltronic Corporation Site ID 93450
7200 NW Front Avenue
Portland, Oregon 97210-3676

Permit Number: 101128
Discharge Number: Outfall 003
April 2005 Discharge Data

Date	BOD mg/L	TSS mg/L	Fluoride mg/L	Phosphate mg/L	Total Chromium mg/L
4/7/2005	5.0	1.5	7.30	0.101	0.001
4/14/2005	4.0	2.0	7.37	0.117	0.0020
4/21/2005	3.0	1.8	10.80	0.056	0.0005
4/28/2005	4.0	1.8	10.60	0.129	0.0005

DAILY FLOW'S	
Day	M G D
1	0.767
2	0.830
3	0.826
4	0.828
5	0.751
6	0.837
7	0.983
8	0.874
9	0.790
10	0.837
11	0.832
12	0.762
13	0.891
14	0.800
15	0.804
16	0.776
17	0.771
18	0.822
19	0.870
20	0.711
21	0.732
22	0.888
23	0.916
24	1.027
25	0.921
26	0.917
27	0.934
28	0.867
29	0.927
30	0.933
Total:	25.424

Turbidity Avg	
Day	NTU's
1	4.6
2	3.1
3	4.0
4	3.9
5	6.2
6	4.8
7	3.9
8	3.7
9	2.2
10	2.8
11	3.3
12	2.6
13	3.2
14	2.5
15	3.5
16	3.1
17	3.2
18	2.8
19	3.4
20	3.1
21	3.0
22	1.6
23	2.4
24	2.9
25	2.8
26	1.8
27	1.9
28	2.6
29	2.7
30	2.5

SUPPLEMENTAL DATA

Siltronic Corporation Site ID 93450
7200 NW Front Avenue
Portland, Oregon 97210-3676

Permit Number: 101128
Discharge Number: Outfall 003
May 2005 Discharge Data

Date	BOD mg/L	TSS mg/L	Fluoride mg/L	Phosphate mg/L	Total Chromium mg/L
5/5/2005	4.0	0.8	8.10	0.241	0.0005
5/12/2005	5.0	0.3	8.70	0.082	0.0010
5/19/2005	4.0	0.7	8.01	0.085	0.0005
5/26/2005	5.0	1.5	8.00	0.106	0.0005

DAILY FLOW'S	
Day	M G D
1	0.817
2	0.909
3	0.815
4	0.838
5	0.865
6	0.857
7	0.831
8	0.808
9	0.957
10	0.924
11	0.981
12	0.843
13	0.902
14	0.926
15	0.870
16	0.838
17	0.857
18	0.889
19	0.849
20	0.892
21	0.862
22	0.859
23	0.891
24	0.869
25	0.802
26	0.854
27	0.795
28	0.847
29	0.808
30	0.858
31	0.919
Total:	26.832

Turbidity Avg	
Day	NTU's
1	2.4
2	2.9
3	2.3
4	2.0
5	2.1
6	2.8
7	3.6
8	3.4
9	3.4
10	4.2
11	4.4
12	2.7
13	3.8
14	2.9
15	3.1
16	2.9
17	3.9
18	3.7
19	2.9
20	3.8
21	3.7
22	4.1
23	4.3
24	5.0
25	5.4
26	3.3
27	3.2
28	2.7
29	1.9
30	2.5
31	2.5

SUPPLEMENTAL DATA

Siltronic Corporation Site ID 93450
7200 NW Front Avenue
Portland, Oregon 97210-3676

Permit Number: 101128
Discharge Number: Outfall 003
June 2005 Discharge Data

Date	BOD mg/L	TSS mg/L	Fluoride mg/L	Phosphate mg/L	Total Chromium mg/L
6/2/2005	3.0	2.3	6.47	0.085	0.0005
6/9/2005	3.0	1.5	7.10	0.109	0.0005
6/16/2005	1.5	0.7	6.90	0.066	0.0005
6/23/2005	4.0	1.3	6.40	0.224	0.0030
6/30/2005	5.0	1.9	5.25	0.184	0.0020

DAILY FLOW'S	
Day	M G D
1	0.945
2	0.822
3	0.864
4	0.922
5	0.839
6	0.849
7	0.769
8	0.938
9	0.898
10	0.904
11	0.872
12	0.859
13	0.829
14	0.892
15	0.861
16	0.899
17	0.925
18	0.830
19	0.820
20	0.913
21	0.905
22	0.887
23	0.934
24	0.864
25	0.866
26	0.881
27	0.868
28	0.824
29	0.921
30	0.870
Total:	26.270

Turbidity Avg	
Day	NTU's
1	2.4
2	2.7
3	3.8
4	2.7
5	3.7
6	3.7
7	4.5
8	4.3
9	3.3
10	3.4
11	2.6
12	2.5
13	3.4
14	2.4
15	2.8
16	1.7
17	2.1
18	2.8
19	2.7
20	3.1
21	3.3
22	3.1
23	3.7
24	3.1
25	1.7
26	2.3
27	1.9
28	2.2
29	1.5
30	1.4

SUPPLEMENTAL DATA

Siltronic Corporation Site ID 93450
7200 NW Front Avenue
Portland, Oregon 97210-3676

Permit Number: 101128
Discharge Number: Outfall 003
July 2005 Discharge Data

Date	BOD mg/L	TSS mg/L	Fluoride mg/L	Phosphate mg/L	Total Chromium mg/L
7/7/2005	4.0	1.6	4.84	0.115	0.001
7/13/2005	4.0	1.7	7.56	0.125	0.002
7/21/2005	5.0	0.8	6.90	0.045	0.001
7/28/2005	4.0	1.5	7.60	0.085	0.001

DAILY FLOW'S	
Day	M G D
1	0.901
2	0.896
3	0.904
4	0.890
5	0.840
6	0.912
7	0.917
8	0.898
9	0.867
10	0.974
11	0.887
12	0.901
13	0.956
14	0.897
15	0.887
16	0.918
17	0.898
18	0.887
19	0.896
20	0.887
21	0.867
22	0.830
23	0.912
24	0.927
25	0.899
26	0.889
27	0.907
28	0.885
29	0.942
30	0.857
31	0.930
Total:	27.858

Turbidity Avg	
Day	NTU's
1	2.4
2	2.2
3	1.5
4	2.2
5	1.5
6	1.4
7	1.6
8	1.8
9	1.7
10	1.9
11	2.2
12	2.1
13	2.3
14	2.8
15	3.2
16	2.6
17	2.7
18	2.7
19	2.3
20	1.8
21	3.0
22	3.3
23	2.8
24	1.4
25	1.7
26	2.1
27	2.6
28	1.6
29	1.5
30	2.2
31	4.2

SUPPLEMENTAL DATA

Siltronic Corporation Site ID 93450
7200 NW Front Avenue
Portland, Oregon 97210-3676

Permit Number: 101128
Discharge Number: Outfall 003
August 2005 Discharge Data

Date	BOD mg/L	TSS mg/L	Fluoride mg/L	Phosphate mg/L	Total Chromium mg/L
8/4/2005	5.0	1.7	7.60	0.097	0.001
8/11/2005	4.0	3.3	7.39	0.095	0.0005
8/18/2005	4.0	2.2	7.24	0.145	0.0005
8/25/2005	3.0	1.6	5.17	0.104	0.0005

DAILY FLOW'S	
Day	M G D
1	0.953
2	0.937
3	0.923
4	0.976
5	0.894
6	0.979
7	0.995
8	0.952
9	0.937
10	0.993
11	0.943
12	1.005
13	0.980
14	0.909
15	0.918
16	0.918
17	0.906
18	0.994
19	0.942
20	0.893
21	0.947
22	0.878
23	0.896
24	0.955
25	0.914
26	0.955
27	0.898
28	0.906
29	1.018
30	0.978
31	0.891
Total:	29.183

Turbidity Avg	
Day	NTU's
1	2.9
2	2.6
3	3.2
4	3.6
5	4.6
6	3.4
7	4.0
8	3.2
9	4.2
10	3.8
11	3.4
12	3.1
13	2.3
14	3.1
15	4.9
16	3.3
17	2.9
18	3.5
19	3.3
20	4.6
21	3.1
22	2.5
23	2.5
24	3.0
25	2.3
26	1.9
27	2.1
28	3.1
29	3.1
30	2.2
31	2.5

SUPPLEMENTAL DATA

Siltronic Corporation Site ID 93450
7200 NW Front Avenue
Portland, Oregon 97210-3676

Permit Number: 101128
Discharge Number: Outfall 003
September 2005 Discharge Data

Date	BOD mg/L	TSS mg/L	Fluoride mg/L	Phosphate mg/L	Total Chromium mg/L
9/1/2005	5.0	1.1	5.60	0.398	0.0005
9/8/2005	3.0	1.5	7.43	0.098	0.004
9/15/2005	3.0	1.7	7.41	0.152	0.0010
9/22/2005	4.0	1.6	8.00	0.091	0.0010
9/29/2005	3.0	1.4	7.90	0.146	0.0005

DAILY FLOW'S	
Day	M G D
1	0.921
2	0.938
3	0.978
4	0.918
5	0.918
6	0.891
7	0.809
8	0.960
9	0.889
10	0.866
11	0.825
12	0.934
13	0.926
14	0.972
15	0.980
16	0.970
17	1.000
18	0.986
19	0.947
20	0.911
21	0.922
22	0.921
23	0.958
24	0.939
25	1.016
26	0.899
27	0.924
28	0.861
29	0.956
30	0.903
Total:	27.838

Turbidity Avg	
Day	NTU's
1	2.4
2	2.3
3	2.1
4	1.9
5	2.3
6	2.1
7	2.1
8	1.5
9	1.4
10	1.8
11	1.3
12	3.7
13	1.5
14	1.2
15	1.5
16	2.1
17	1.5
18	1.4
19	1.5
20	2.0
21	2.6
22	2.5
23	2.1
24	2.2
25	2.3
26	1.8
27	1.5
28	1.7
29	3.0
30	5.5

SUPPLEMENTAL DATA

Siltronic Corporation Site ID 93450
7200 NW Front Avenue
Portland, Oregon 97210-3676

Permit Number: 101128
Discharge Number: Outfall 003
October 2005 Discharge Data

Date	BOD mg/L	TSS mg/L	Fluoride mg/L	Phosphate mg/L	Total Chromium mg/L
10/6/2005	3.0	1.7	8.20	0.074	0.0005
10/13/2005	3.0	1.5	9.28	0.103	0.0005
10/20/2005	7.0	4.5	8.54	0.143	0.0005
10/27/2005	4.0	1.3	7.45	0.089	0.0005

DAILY FLOW'S	
Day	M G D
1	1.010
2	0.969
3	0.982
4	0.813
5	0.949
6	0.940
7	0.836
8	0.985
9	0.916
10	0.897
11	0.941
12	0.820
13	0.906
14	0.948
15	0.943
16	0.995
17	0.935
18	0.848
19	0.928
20	0.878
21	0.963
22	0.912
23	0.928
24	0.931
25	0.954
26	0.939
27	0.927
28	0.893
29	0.914
30	0.967
31	0.872
Total:	28.639

Turbidity Avg	
Day	NTU's
1	2.9
2	3.5
3	3.4
4	3.2
5	2.4
6	1.7
7	2.3
8	2.0
9	2.3
10	2.2
11	1.5
12	1.1
13	1.8
14	3.2
15	1.9
16	2.2
17	1.7
18	1.5
19	2.0
20	1.6
21	1.7
22	3.4
23	3.7
24	3.3
25	1.9
26	1.3
27	2.0
28	2.0
29	2.0
30	2.0
31	1.9

SUPPLEMENTAL DATA

Siltronic Corporation Site ID 93450
7200 NW Front Avenue
Portland, Oregon 97210-3676

Permit Number: 101128
Discharge Number: Outfall 003
November 2005 Discharge Data

Date	BOD mg/L	TSS mg/L	Fluoride mg/L	Phosphate mg/L	Total Chromium mg/L
11/4/2005	6.8	1.5	6.80	0.134	0.0005
11/10/2005	4.5	2.8	7.32	0.195	0.0005
11/14/2005	3.9	2.6	6.40	0.167	0.0009
11/22/2005	7.1	3.0	8.60	0.234	0.0004

DAILY FLOW'S	
Day	M G D
1	0.936
2	0.912
3	0.940
4	0.967
5	0.902
6	0.962
7	0.937
8	0.968
9	0.917
10	0.936
11	0.933
12	0.981
13	0.950
14	0.966
15	0.823
16	0.922
17	0.800
18	0.699
19	0.905
20	0.889
21	0.950
22	0.954
23	0.892
24	0.939
25	0.952
26	0.995
27	0.919
28	0.905
29	0.972
30	0.925
Total:	27.648

Turbidity Avg	
Day	NTU's
1	2.3
2	1.9
3	1.5
4	1.7
5	2.2
6	1.9
7	2.0
8	1.5
9	1.5
10	1.8
11	2.0
12	1.8
13	1.6
14	1.6
15	1.7
16	2.2
17	1.5
18	1.7
19	2.8
20	2.1
21	2.2
22	1.4
23	1.5
24	1.5
25	1.9
26	1.4
27	1.8
28	1.6
29	1.6
30	1.6

SUPPLEMENTAL DATA

Siltronic Corporation Site ID 93450
7200 NW Front Avenue
Portland, Oregon 97210-3676

Permit Number: 101128
Discharge Number: Outfall 003
December 2005 Discharge Data

Date	BOD mg/L	TSS mg/L	Fluoride mg/L	Phosphate mg/L	Total Chromium mg/L
12/1/2005	6.9	3.6	7.66	0.378	0.0029
12/8/2005	4.8	2.8	7.70	0.475	0.0005
12/15/2005	4.3	1.3	7.90	0.298	0.0005
12/22/2005	5.6	1.9	7.96	0.287	0.0005
12/29/2005	5.5	1.4	6.83	0.077	0.0005

DAILY FLOW'S	
Day	M G D
1	0.900
2	0.938
3	0.881
4	0.923
5	0.880
6	0.881
7	0.900
8	0.924
9	0.929
10	0.953
11	0.977
12	0.925
13	0.870
14	0.890
15	0.928
16	0.945
17	0.837
18	0.893
19	0.831
20	0.891
21	0.931
22	0.892
23	0.987
24	0.879
25	0.955
26	0.887
27	0.904
28	0.915
29	0.960
30	0.961
31	1.104
Total:	28.471

Turbidity Avg	
Day	NTU's
1	1.3
2	1.4
3	1.3
4	1.9
5	1.6
6	1.1
7	1.2
8	1.4
9	1.4
10	1.3
11	1.5
12	1.7
13	1.5
14	1.6
15	1.8
16	1.6
17	1.6
18	1.6
19	1.5
20	1.4
21	1.3
22	1.9
23	1.3
24	1.4
25	1.2
26	1.5
27	1.3
28	2.1
29	1.6
30	1.9
31	1.8

SUPPLEMENTAL DATA

Siltronic Corporation Site ID 93450
7200 NW Front Avenue
Portland, Oregon 97210-3676

Permit Number: 101128
Discharge Number: Outfall 003
January 2004 Discharge Data

Date	BOD mg/L	TSS mg/L	Fluoride mg/L	Phosphate mg/L	Total Chromium mg/L
1/9/04	5.0	16.5	8.03	0.076	0.0005
1/15/04	6.0	7.5	6.92	0.046	0.0005
1/22/04	6.0	9.8	6.45	0.086	0.0005
1/29/04	7.0	6.8	6.85	0.124	0.0010

DAILY FLOW'S	
Day	M G D
1	1.010
2	0.930
3	1.475
4	1.211
5	0.900
6	1.033
7	0.880
8	0.829
9	0.879
10	1.030
11	0.983
12	1.009
13	0.992
14	1.000
15	0.982
16	0.925
17	0.961
18	1.041
19	1.021
20	1.020
21	1.020
22	0.902
23	0.808
24	1.073
25	0.977
26	0.981
27	1.024
28	0.951
29	0.959
30	0.950
31	0.997
Total:	30.753

Turbidity Avg	
Day	NTU's
1	5.0
2	3.2
3	3.6
4	3.8
5	4.3
6	6.4
7	1.6
8	3.1
9	4.8
10	3.0
11	3.7
12	3.2
13	4.0
14	5.6
15	6.8
16	5.3
17	3.1
18	4.1
19	5.5
20	4.2
21	3.4
22	3.1
23	3.9
24	4.0
25	3.8
26	3.0
27	2.9
28	3.6
29	2.8
30	2.4
31	3.8

SUPPLEMENTAL DATA

Siltronic Corporation Site ID 93450
7200 NW Front Avenue
Portland, Oregon 97210-3676

Permit Number: 101128
Discharge Number: Outfall 003
February 2004 Discharge Data

Date	BOD mg/L	TSS mg/L	Fluoride mg/L	Phosphate mg/L	Total Chromium mg/L
2/4/04	5.0	10.1	5.32	0.091	0.0005
2/12/04	3.0	3.2	6.20	0.130	0.0005
2/19/04	6.4	12.1	5.46	0.136	0.0005
2/26/04	6.0	8.7	9.58	0.062	0.0010

DAILY FLOW'S	
Day	M G D
1	1.065
2	0.916
3	0.990
4	0.959
5	0.891
6	0.977
7	0.842
8	0.962
9	0.962
10	0.925
11	0.978
12	1.000
13	0.914
14	1.000
15	0.909
16	0.969
17	1.049
18	0.870
19	1.010
20	0.973
21	0.989
22	0.960
23	0.924
24	0.915
25	0.848
26	0.846
27	0.908
28	0.828
29	0.889
Total:	27.268

Turbidity Avg	
Day	NTU's
1	4.4
2	3.2
3	3.2
4	3.5
5	3.3
6	3.6
7	2.5
8	2.4
9	3.1
10	4.3
11	4.2
12	4.5
13	4.5
14	5.2
15	4.5
16	4.1
17	4.3
18	6.0
19	5.8
20	6.0
21	4.9
22	4.4
23	3.8
24	4.0
25	3.8
26	3.3
27	3.4
28	3.0
29	3.1

SUPPLEMENTAL DATA

Siltronic Corporation Site ID 93450
7200 NW Front Avenue
Portland, Oregon 97210-3676

Permit Number: 101128
Discharge Number: Outfall 003
March 2004 Discharge Data

Date	BOD mg/L	TSS mg/L	Fluoride mg/L	Phosphate mg/L	Total Chromium mg/L
3/4/04	7.0	5.3	7.41	0.072	0.0005
3/11/04	5.0	10.5	8.47	0.151	0.0005
3/18/04	3.0	6.7	8.63	0.081	0.0005
3/24/04	5.0	6.6	6.46	0.078	0.0005

DAILY FLOW'S	
Day	M G D
1	0.871
2	0.938
3	0.888
4	0.879
5	0.884
6	0.856
7	0.894
8	0.901
9	0.858
10	0.907
11	0.896
12	0.872
13	0.903
14	0.826
15	0.850
16	0.909
17	0.856
18	0.747
19	0.797
20	0.855
21	0.898
22	0.935
23	0.839
24	0.862
25	0.959
26	0.822
27	1.063
28	0.949
29	0.934
30	1.003
31	0.877
Total:	27.528

Turbidity Avg	
Day	NTU's
1	3.1
2	2.6
3	3.4
4	4.1
5	3.2
6	3.6
7	3.0
8	2.8
9	3.8
10	3.2
11	2.8
12	2.8
13	3.3
14	3.7
15	3.0
16	3.1
17	2.7
18	2.7
19	3.0
20	3.9
21	2.3
22	3.0
23	3.4
24	4.5
25	2.7
26	3.3
27	3.8
28	3.7
29	3.0
30	3.3
31	2.9

SUPPLEMENTAL DATA

Siltronic Corporation Site ID 93450
7200 NW Front Avenue
Portland, Oregon 97210-3676

Permit Number: 101128
Discharge Number: Outfall 003
April 2004 Discharge Data

Date	BOD mg/L	TSS mg/L	Fluoride mg/L	Phosphate mg/L	Total Chromium mg/L
4/1/04	6.0	19.5	8.86	0.110	0.0010
4/8/04	5.0	4.6	8.22	0.072	0.0010
4/15/04	7.0	6.1	7.36	0.068	0.0005
4/22/04	6.0	5.8	7.02	0.088	0.0005
4/29/04	5.0	4.8	6.04	0.074	0.0005

DAILY FLOW'S	
Day	M G D
1	0.832
2	0.886
3	0.951
4	0.889
5	0.890
6	0.899
7	0.893
8	0.932
9	0.928
10	0.877
11	0.893
12	0.994
13	0.939
14	0.948
15	0.995
16	0.928
17	0.937
18	0.894
19	0.850
20	0.893
21	0.935
22	0.980
23	0.947
24	0.866
25	0.925
26	0.911
27	0.961
28	0.920
29	0.882
30	0.935
Total:	27.510

Turbidity Avg	
Day	NTU's
1	4.8
2	7.1
3	2.8
4	3.6
5	2.6
6	2.7
7	3.3
8	2.7
9	2.6
10	2.1
11	2.6
12	3.1
13	2.7
14	2.3
15	2.4
16	1.8
17	2.8
18	2.9
19	2.6
20	2.2
21	4.1
22	2.5
23	2.4
24	3.7
25	2.9
26	3.0
27	3.4
28	3.1
29	3.6
30	3.4

SUPPLEMENTAL DATA

Siltronic Corporation Site ID 93450
7200 NW Front Avenue
Portland, Oregon 97210-3676

Permit Number: 101128
Discharge Number: Outfall 003
May 2004 Discharge Data

Date	BOD mg/L	TSS mg/L	Fluoride mg/L	Phosphate mg/L	Total Chromium mg/L
5/6/04	4.0	1.3	8.15	0.126	0.0005
5/13/04	4.0	4.6	7.04	0.095	0.0005
5/20/04	5.0	3.4	7.52	0.045	0.0005
5/27/04	5.0	2.4	5.53	0.078	0.0005

DAILY FLOW'S	
Day	M G D
1	0.943
2	0.839
3	0.931
4	0.931
5	0.908
6	0.903
7	0.844
8	0.969
9	0.941
10	0.876
11	0.923
12	0.772
13	0.921
14	0.937
15	0.893
16	0.837
17	0.847
18	0.756
19	0.829
20	0.928
21	0.965
22	0.874
23	0.849
24	0.869
25	0.763
26	0.914
27	0.856
28	0.884
29	0.929
30	0.818
31	0.958
Total:	27.407

Turbidity Avg	
Day	NTU's
1	3.2
2	5.7
3	4.4
4	4.6
5	5.1
6	2.5
7	3.0
8	3.2
9	3.0
10	3.0
11	3.0
12	3.1
13	3.9
14	4.1
15	3.9
16	3.0
17	6.3
18	3.9
19	3.6
20	5.0
21	4.8
22	4.3
23	5.2
24	5.2
25	3.5
26	4.4
27	5.2
28	3.8
29	2.3
30	2.9
31	2.6

SUPPLEMENTAL DATA

Siltronic Corporation Site ID 93450
7200 NW Front Avenue
Portland, Oregon 97210-3676

Permit Number: 101128
Discharge Number: Outfall 003
June 2004 Discharge Data

Date	BOD mg/L	TSS mg/L	Fluoride mg/L	Phosphate mg/L	Total Chromium mg/L
6/3/04	5.0	4.6	4.80	0.069	0.0010
6/10/04	4.0	7.0	5.00	0.110	0.0005
6/17/04	4.0	3.5	7.60	0.095	0.0005
6/24/04	3.0	5.4	8.90	0.127	0.0005

DAILY FLOW'S	
Day	M G D
1	0.787
2	0.854
3	0.918
4	0.939
5	0.857
6	0.881
7	0.920
8	1.022
9	0.808
10	0.688
11	0.800
12	0.819
13	0.730
14	0.901
15	0.864
16	0.816
17	0.881
18	0.764
19	0.811
20	0.786
21	0.881
22	0.890
23	0.835
24	0.813
25	0.851
26	0.867
27	0.873
28	0.846
29	0.715
30	0.833
Total:	25.250

Turbidity Avg	
Day	NTU's
1	2.4
2	2.5
3	2.4
4	2.2
5	5.0
6	3.5
7	5.3
8	7.6
9	9.2
10	2.8
11	2.4
12	1.7
13	2.3
14	2.5
15	2.4
16	2.9
17	3.7
18	1.8
19	2.4
20	2.7
21	7.7
22	3.7
23	3.6
24	3.1
25	3.0
26	2.7
27	3.0
28	3.1
29	3.6
30	3.9

SUPPLEMENTAL DATA

Siltronic Corporation Site ID 93450
7200 NW Front Avenue
Portland, Oregon 97210-3676

Permit Number: 101128
Discharge Number: Outfall 003
July 2004 Discharge Data

Date	BOD mg/L	TSS mg/L	Fluoride mg/L	Phosphate mg/L	Total Chromium mg/L
7/1/04	8.0	0.2	8.60	0.105	0.0005
7/8/04	3.0	0.6	7.70	0.054	0.0005
7/13/04	0.6	1.3	7.10	0.143	0.0005
7/22/04	1.5	0.6	5.20	0.073	0.0005
7/29/04	1.5	0.6	6.30	0.114	0.0005

DAILY FLOW'S	
Day	M G D
1	0.830
2	0.840
3	0.931
4	0.810
5	0.845
6	0.825
7	0.825
8	0.789
9	0.721
10	0.841
11	0.881
12	0.789
13	0.873
14	0.881
15	0.888
16	0.861
17	0.891
18	0.857
19	0.611
20	0.877
21	0.744
22	0.687
23	0.711
24	0.865
25	0.760
26	0.834
27	0.761
28	0.733
29	0.742
30	0.768
31	0.756
Total:	25.027

Turbidity Avg	
Day	NTU's
1	3.4
2	3.7
3	4.0
4	4.7
5	3.7
6	4.4
7	4.3
8	3.9
9	4.3
10	5.0
11	5.0
12	5.0
13	2.4
14	3.9
15	5.8
16	5.1
17	4.1
18	5.4
19	5.2
20	4.2
21	1.1
22	1.0
23	1.0
24	1.1
25	0.9
26	1.2
27	0.7
28	1.2
29	0.9
30	1.0
31	1.3

SUPPLEMENTAL DATA

Siltronic Corporation Site ID 93450
7200 NW Front Avenue
Portland, Oregon 97210-3676

Permit Number: 101128
Discharge Number: Outfall 003
August 2004 Discharge Data

Date	BOD mg/L	TSS mg/L	Fluoride mg/L	Phosphate mg/L	Total Chromium mg/L
8/5/04	1.5	0.6	7.39	0.188	0.0010
8/12/04	4.0	0.9	8.17	0.163	0.0010
8/19/04	3.0	0.9	8.74	0.135	0.0020
8/26/04	4.0	1.2	8.45	0.120	0.0020

DAILY FLOW'S	
Day	M G D
1	0.753
2	0.701
3	0.685
4	0.738
5	0.709
6	0.769
7	0.776
8	0.788
9	0.694
10	0.739
11	0.705
12	0.815
13	0.855
14	0.740
15	0.786
16	0.794
17	0.755
18	0.693
19	0.688
20	0.738
21	0.796
22	0.769
23	0.765
24	0.716
25	0.753
26	0.902
27	0.991
28	0.876
29	0.822
30	0.906
31	0.871
Total:	24.088

Turbidity Avg	
Day	NTU's
1	1.6
2	1.2
3	1.1
4	1.6
5	1.6
6	1.7
7	0.6
8	0.6
9	0.6
10	1.0
11	0.8
12	0.8
13	0.6
14	0.7
15	0.7
16	1.2
17	1.0
18	1.5
19	1.3
20	0.9
21	0.8
22	2.7
23	0.9
24	0.7
25	2.5
26	3.8
27	2.5
28	3.8
29	3.0
30	3.6
31	3.5

SUPPLEMENTAL DATA

Siltronic Corporation Site ID 93450
7200 NW Front Avenue
Portland, Oregon 97210-3676

Permit Number: 101128
Discharge Number: Outfall 003
September 2004 Discharge Data

Date	BOD mg/L	TSS mg/L	Fluoride mg/L	Phosphate mg/L	Total Chromium mg/L
9/2/04	4.0	0.6	7.98	0.098	0.0005
9/9/04	6.0	4.0	7.00	0.137	0.0010
9/16/04	6.0	1.8	8.70	0.155	0.0005
9/23/04	6.0	1.6	8.95	0.098	0.0005
9/30/04	4.0	1.0	8.05	0.087	0.0005

DAILY FLOW'S	
Day	M G D
1	0.877
2	0.839
3	0.889
4	0.905
5	0.872
6	0.879
7	0.808
8	0.894
9	0.838
10	0.844
11	0.847
12	0.815
13	0.925
14	0.883
15	0.940
16	0.875
17	0.838
18	0.877
19	0.845
20	0.805
21	0.914
22	0.841
23	0.941
24	0.860
25	0.808
26	0.823
27	0.876
28	0.825
29	0.855
30	0.761
Total:	25.799

Turbidity Avg	
Day	NTU's
1	3.4
2	3.9
3	4.8
4	4.2
5	4.3
6	3.9
7	2.0
8	4.2
9	4.1
10	4.0
11	3.9
12	3.6
13	3.9
14	4.3
15	4.1
16	6.7
17	5.0
18	4.5
19	4.9
20	4.7
21	4.0
22	4.6
23	4.5
24	5.4
25	3.9
26	4.5
27	4.2
28	4.1
29	3.5
30	3.2

SUPPLEMENTAL DATA

Siltronic Corporation Site ID 93450
7200 NW Front Avenue
Portland, Oregon 97210-3676

Permit Number: 101128
Discharge Number: Outfall 003
October 2004 Discharge Data

Date	BOD mg/L	TSS mg/L	Fluoride mg/L	Phosphate mg/L	Total Chromium mg/L
10/7/04	1.5	3.0	10.20	0.093	0.0005
10/14/04	4.0	2.0	7.54	0.189	0.0005
10/19/04	6.0	1.4	7.49	0.025	0.0005
10/28/04	4.0	2.2	5.92	0.025	0.0005

DAILY FLOW'S	
Day	M G D
1	0.957
2	0.932
3	0.729
4	0.861
5	0.851
6	0.890
7	0.845
8	0.861
9	0.883
10	0.864
11	0.865
12	0.915
13	0.868
14	0.877
15	0.828
16	0.908
17	0.909
18	0.882
19	0.839
20	0.913
21	0.935
22	0.975
23	0.844
24	0.867
25	0.886
26	0.869
27	0.921
28	0.860
29	0.819
30	0.911
31	0.894
Total:	27.258

Turbidity Avg	
Day	NTU's
1	4.7
2	5.1
3	3.7
4	5.5
5	3.7
6	4.2
7	4.1
8	3.7
9	3.9
10	4.7
11	5.0
12	3.6
13	3.5
14	3.7
15	3.3
16	3.7
17	3.8
18	4.9
19	4.5
20	3.6
21	4.4
22	4.0
23	3.6
24	4.4
25	4.0
26	3.7
27	3.1
28	3.5
29	3.5
30	3.7
31	4.2

SUPPLEMENTAL DATA

Siltronic Corporation Site ID 93450
7200 NW Front Avenue
Portland, Oregon 97210-3676

Permit Number: 101128
Discharge Number: Outfall 003
November 2004 Discharge Data

Date	BOD mg/L	TSS mg/L	Fluoride mg/L	Phosphate mg/L	Total Chromium mg/L
11/4/04	1.5	1.3	6.80	0.157	0.0005
11/11/04	5.0	1.8	7.07	0.149	0.0005
11/18/04	1.5	1.9	7.68	0.368	0.0005
11/23/04	5.0	0.7	7.13	0.074	0.0005

DAILY FLOW'S	
Day	M G D
1	0.961
2	0.899
3	0.900
4	0.929
5	0.880
6	0.899
7	0.868
8	0.892
9	0.820
10	0.879
11	0.721
12	0.792
13	0.905
14	0.819
15	0.829
16	0.886
17	0.867
18	0.883
19	0.905
20	0.870
21	0.882
22	0.851
23	0.870
24	0.891
25	0.884
26	0.871
27	0.910
28	0.908
29	0.867
30	0.853
Total:	26.191

Turbidity Avg	
Day	NTU's
1	4.8
2	4.8
3	4.3
4	3.5
5	4.6
6	4.7
7	5.1
8	6.1
9	4.3
10	3.2
11	4.1
12	4.6
13	3.3
14	3.7
15	3.6
16	4.0
17	3.4
18	3.3
19	3.8
20	4.6
21	4.4
22	3.5
23	3.6
24	3.9
25	3.5
26	3.9
27	4.5
28	4.1
29	3.9
30	4.3

SUPPLEMENTAL DATA

Siltronic Corporation Site ID 93450
7200 NW Front Avenue
Portland, Oregon 97210-3676

Permit Number: 101128
Discharge Number: Outfall 003
December 2004 Discharge Data

Date	BOD mg/L	TSS mg/L	Fluoride mg/L	Phosphate mg/L	Total Chromium mg/L
12/2/04	5.0	1.5	6.85	0.070	0.0005
12/9/04	4.0	2.7	6.86	0.073	0.0005
12/16/04	1.5	0.8	7.56	0.076	0.0005
12/22/04	3.0	1.7	5.62	0.122	0.0005
12/30/04	4.0	1.2	6.72	0.097	0.0005

DAILY FLOW'S	
Day	M G D
1	0.860
2	0.858
3	0.920
4	0.890
5	0.822
6	0.863
7	0.908
8	0.922
9	0.903
10	0.789
11	0.879
12	0.810
13	0.835
14	0.898
15	0.894
16	0.923
17	0.883
18	0.924
19	0.913
20	0.928
21	0.920
22	0.732
23	0.893
24	0.875
25	0.840
26	0.826
27	0.867
28	0.853
29	0.927
30	0.848
31	1.040
Total:	27.243

Turbidity Avg	
Day	NTU's
1	5.0
2	4.2
3	3.8
4	4.9
5	4.9
6	4.7
7	4.8
8	4.6
9	4.5
10	4.5
11	2.9
12	1.0
13	1.7
14	3.2
15	1.8
16	2.1
17	2.6
18	2.7
19	3.5
20	4.4
21	3.7
22	2.3
23	3.7
24	4.8
25	4.9
26	4.0
27	3.3
28	4.6
29	4.0
30	3.0
31	2.9

SUPPLEMENTAL DATA

Siltronic Corporation Site ID 93450
7200 NW Front Avenue
Portland, Oregon 97210-3676

Permit Number: 101128
Discharge Number: Outfall 003
January 2006 Discharge Data

Date	BOD mg/L	TSS mg/L	Fluoride mg/L	Phosphate mg/L	Total Chromium mg/L
1/5/2006	2.0	2.3	7.30	0.086	0.0005
1/12/2006	2.0	3.6	8.40	0.125	0.0005
1/19/2006	2.0	1.9	8.60	0.174	0.0005
1/26/2006	4.0	3.6	7.27	0.103	0.0005

DAILY FLOW'S	
Day	M G D
1	0.945
2	0.934
3	0.963
4	1.007
5	0.930
6	0.893
7	0.980
8	0.954
9	0.935
10	0.882
11	0.840
12	0.917
13	0.990
14	0.880
15	0.871
16	0.746
17	0.943
18	0.892
19	0.894
20	0.593
21	0.961
22	0.899
23	0.813
24	0.997
25	0.945
26	0.989
27	0.839
28	0.900
29	0.909
30	0.998
31	0.981
Total:	28.220

Turbidity Avg	
Day	NTU's
1	1.6
2	1.7
3	1.4
4	1.3
5	1.5
6	1.4
7	1.0
8	1.3
9	1.4
10	1.3
11	1.7
12	1.0
13	1.5
14	1.6
15	1.7
16	1.6
17	1.3
18	1.0
19	1.6
20	1.8
21	1.8
22	2.1
23	3.2
24	5.6
25	4.5
26	3.7
27	4.4
28	3.8
29	3.9
30	3.9
31	1.9

SUPPLEMENTAL DATA

Siltronic Corporation Site ID 93450
7200 NW Front Avenue
Portland, Oregon 97210-3676

Permit Number: 101128
Discharge Number: Outfall 003
February 2006 Discharge Data

Date	BOD mg/L	TSS mg/L	Fluoride mg/L	Phosphate mg/L	Total Chromium mg/L
2/2/2006	4.3	1.4	6.60	0.072	0.0005
2/9/2006	2.0	5.2	7.00	0.087	0.0005
2/16/2006	9.3	3.1	5.80	0.102	0.0005
2/23/2006	4.8	3.6	8.70	0.122	0.0005

DAILY FLOW'S	
Day	M G D
1	0.994
2	0.971
3	0.929
4	0.833
5	0.930
6	0.946
7	0.996
8	0.938
9	0.923
10	0.891
11	1.181
12	0.852
13	0.919
14	0.917
15	0.877
16	0.894
17	0.944
18	0.837
19	0.900
20	0.916
21	0.899
22	0.928
23	0.924
24	0.891
25	0.873
26	0.941
27	0.851
28	0.858
Total:	25.753

Turbidity Avg	
Day	NTU's
1	2.4
2	4.0
3	4.7
4	4.3
5	1.7
6	2.4
7	3.0
8	3.2
9	3.1
10	4.2
11	4.0
12	4.2
13	5.0
14	4.6
15	5.2
16	6.3
17	5.5
18	5.4
19	4.2
20	5.0
21	4.4
22	3.9
23	5.1
24	4.3
25	5.9
26	4.7
27	5.7
28	5.2

SUPPLEMENTAL DATA

Siltronic Corporation Site ID 93450
7200 NW Front Avenue
Portland, Oregon 97210-3676

Permit Number: 101128
Discharge Number: Outfall 003
March 2006 Discharge Data

Date	BOD mg/L	TSS mg/L	Fluoride mg/L	Phosphate mg/L	Total Chromium mg/L
3/2/2006	2.0	3.6	8.30	0.096	0.0005
3/9/2006	4.0	2.1	7.88	0.133	0.0005
3/16/2006	4.7	2.5	6.73	0.106	0.0005
3/23/2006	2.0	1.4	7.85	0.118	0.0005
3/30/2006	5.7	2.0	7.35	0.135	0.0005

DAILY FLOW'S	
Day	M G D
1	0.956
2	0.837
3	0.937
4	0.810
5	0.843
6	0.784
7	0.899
8	0.921
9	0.934
10	0.946
11	0.897
12	0.879
13	0.850
14	0.944
15	0.909
16	0.942
17	0.986
18	0.984
19	0.924
20	0.954
21	0.891
22	0.872
23	0.874
24	0.905
25	0.931
26	0.845
27	0.876
28	0.915
29	0.940
30	0.944
31	0.944
Total:	28.073

Turbidity Avg	
Day	NTU's
1	4.6
2	5.2
3	8.8
4	2.6
5	3.8
6	4.4
7	5.4
8	6.1
9	4.8
10	6.2
11	5.1
12	5.6
13	5.3
14	5.4
15	5.0
16	5.4
17	5.7
18	5.2
19	4.1
20	4.4
21	4.3
22	4.5
23	4.2
24	4.0
25	4.6
26	4.2
27	5.0
28	3.9
29	4.2
30	4.3
31	4.7

SUPPLEMENTAL DATA

Siltronic Corporation Site ID 93450
7200 NW Front Avenue
Portland, Oregon 97210-3676

Permit Number: 101128
Discharge Number: Outfall 003
April 2006 Discharge Data

Date	BOD mg/L	TSS mg/L	Fluoride mg/L	Phosphate mg/L	Total Chromium mg/L
4/6/2006	6.1	3.5	6.70	0.072	0.0052
4/13/2006	4.8	2.8	7.55	0.304	0.0005
4/20/2006	5.7	3.5	6.77	0.254	0.0005
4/27/2006	2.0	1.8	6.24	0.127	0.0005

DAILY FLOW'S	
Day	M G D
1	0.915
2	0.860
3	0.930
4	0.923
5	0.930
6	0.914
7	0.859
8	0.945
9	0.951
10	0.844
11	0.963
12	0.941
13	0.943
14	0.959
15	0.900
16	0.974
17	0.925
18	0.887
19	0.827
20	0.899
21	0.978
22	0.982
23	0.918
24	0.921
25	0.927
26	0.863
27	0.985
28	0.745
29	0.986
30	0.959
31	
Total:	27.553

Turbidity Avg	
Day	NTU's
1	3.9
2	4.1
3	4.0
4	3.9
5	3.7
6	3.6
7	3.6
8	5.8
9	5.7
10	5.9
11	7.2
12	9.4
13	6.9
14	9.4
15	6.4
16	5.0
17	7.7
18	11.2
19	6.9
20	5.5
21	6.8
22	6.6
23	5.5
24	3.8
25	5.7
26	5.2
27	8.3
28	9.2
29	10.9
30	6.6

SUPPLEMENTAL DATA

Siltronic Corporation Site ID 93450
7200 NW Front Avenue
Portland, Oregon 97210-3676

Permit Number: 101128
Discharge Number: Outfall 003
May 2006 Discharge Data

Date	BOD mg/L	TSS mg/L	Fluoride mg/L	Phosphate mg/L	Total Chromium mg/L
5/4/2006	4.3	3.8	8.12	0.067	0.0005
5/11/2006	2.0	4.7	7.80	0.103	0.0005
5/18/2006	4.1	3.9	5.56	0.221	0.0005
5/25/2006	4.1	2.1	6.10	0.198	0.0005

DAILY FLOW'S	
Day	M G D
1	0.887
2	0.834
3	0.870
4	0.858
5	0.938
6	0.941
7	0.986
8	0.977
9	0.996
10	0.936
11	0.953
12	0.851
13	0.952
14	0.950
15	0.959
16	0.937
17	0.971
18	0.975
19	1.015
20	0.959
21	0.880
22	0.970
23	0.938
24	0.960
25	0.940
26	0.926
27	0.942
28	0.907
29	0.874
30	0.868
31	0.881
Total:	28.831

Turbidity Avg	
Day	NTU's
1	3.2
2	3.5
3	2.6
4	7.3
5	10.9
6	11.2
7	13.6
8	15.1
9	15.0
10	12.3
11	11.4
12	9.3
13	5.2
14	5.6
15	5.3
16	5.3
17	6.1
18	3.3
19	5.3
20	6.6
21	8.8
22	5.1
23	7.2
24	7.7
25	7.9
26	7.4
27	7.8
28	7.6
29	5.6
30	6.6
31	7.2

SUPPLEMENTAL DATA

Siltronic Corporation Site ID 93450
7200 NW Front Avenue
Portland, Oregon 97210-3676

Permit Number: 101128
Discharge Number: Outfall 003
June 2006 Discharge Data

Date	BOD mg/L	TSS mg/L	Fluoride mg/L	Phosphate mg/L	Total Chromium mg/L
6/1/2006	2.0	3.7	6.00	0.090	0.00087
6/8/2006	4.5	4.0	6.20	0.114	0.0005
6/15/2006	4.4	4.9	5.92	0.077	0.0033
6/22/2006	2.0	3.5	6.01	0.176	0.001
6/29/2006	2.0	6.5	5.20	0.115	0.0005

DAILY FLOW'S	
Day	M G D
1	0.864
2	0.857
3	0.916
4	0.944
5	0.866
6	0.896
7	0.876
8	0.834
9	0.878
10	0.796
11	0.846
12	0.739
13	0.809
14	0.884
15	0.756
16	0.964
17	0.878
18	0.795
19	0.853
20	0.882
21	1.054
22	0.860
23	0.897
24	0.892
25	0.881
26	0.898
27	0.904
28	0.868
29	0.855
30	0.824
Total:	26.066

Turbidity Avg	
Day	NTU's
1	8.9
2	8.8
3	6.2
4	6.8
5	6.6
6	7.4
7	8.4
8	4.7
9	4.8
10	6.4
11	6.4
12	6.5
13	7.6
14	6.6
15	5.7
16	5.5
17	7.2
18	8.2
19	7.9
20	6.9
21	5.5
22	6.5
23	6.4
24	4.8
25	5.7
26	6.7
27	8.9
28	7.5
29	6.5
30	7.1

SUPPLEMENTAL DATA

Siltronic Corporation Site ID 93450
7200 NW Front Avenue
Portland, Oregon 97210-3676

Permit Number: 101128
Discharge Number: Outfall 003
July 2006 Discharge Data

Date	BOD mg/L	TSS mg/L	Fluoride mg/L	Phosphate mg/L	Total Chromium mg/L
7/6/2006	2.0	4.2	7.50	0.080	0.0005
7/13/2006	2.0	3.2	5.20	0.118	0.0005
7/19/2006	2.0	3.4	6.80	0.454	0.0005
7/27/2006	4.4	4.3	7.80	0.147	0.0005

DAILY FLOW'S	
Day	M G D
1	1.080
2	0.945
3	0.866
4	0.905
5	0.919
6	0.885
7	0.878
8	0.811
9	0.900
10	0.896
11	0.865
12	0.872
13	0.893
14	0.935
15	1.007
16	0.941
17	0.893
18	0.984
19	0.872
20	0.968
21	1.020
22	0.945
23	0.936
24	0.991
25	0.842
26	0.969
27	0.964
28	0.964
29	0.964
30	0.952
31	0.954
Total:	28.816

Turbidity Avg	
Day	NTU's
1	5.5
2	4.4
3	6.5
4	5.3
5	4.8
6	5.2
7	3.5
8	3.3
9	4.1
10	2.9
11	4.0
12	3.3
13	1.2
14	1.0
15	0.9
16	0.8
17	0.8
18	0.9
19	0.7
20	1.2
21	1.7
22	1.4
23	1.5
24	1.3
25	1.7
26	1.5
27	1.3
28	1.7
29	1.6
30	1.3
31	1.4

SUPPLEMENTAL DATA

Siltronic Corporation Site ID 93450
7200 NW Front Avenue
Portland, Oregon 97210-3676

Permit Number: 101128
Discharge Number: Outfall 003
August 2006 Discharge Data

Date	BOD mg/L	TSS mg/L	Fluoride mg/L	Phosphate mg/L	Total Chromium mg/L
8/2/2006	2.0	2.2	6.00	0.182	0.0005
8/10/2006	5.4	3.4	7.20	0.167	0.0005
8/17/2006	2.0	3.0	8.90	0.112	0.001
8/24/2006	4.0	3.5	8.10	0.250	0.0005
8/31/2006	2.0	1.3	6.19	0.065	0.0011

DAILY FLOW'S	
Day	M G D
1	0.954
2	0.972
3	0.899
4	0.862
5	0.984
6	0.957
7	0.954
8	0.946
9	0.918
10	0.959
11	0.957
12	0.950
13	0.893
14	0.924
15	0.927
16	0.918
17	0.980
18	0.917
19	0.992
20	0.864
21	1.038
22	0.899
23	0.945
24	0.914
25	0.920
26	0.946
27	0.832
28	0.956
29	0.931
30	0.873
31	0.658
Total:	28.639

Turbidity Avg	
Day	NTU's
1	1.6
2	1.4
3	2.3
4	2.2
5	2.5
6	1.9
7	1.7
8	1.6
9	1.4
10	2.2
11	1.7
12	1.4
13	1.5
14	2.3
15	2.0
16	1.9
17	2.3
18	2.2
19	1.5
20	1.5
21	1.7
22	2.1
23	2.3
24	2.4
25	2.0
26	2.1
27	2.4
28	2.1
29	1.8
30	1.3
31	0.9

SUPPLEMENTAL DATA

Siltronic Corporation Site ID 93450
7200 NW Front Avenue
Portland, Oregon 97210-3676

Permit Number: 101128
Discharge Number: Outfall 003
September 2006 Discharge Data

Date	BOD mg/L	TSS mg/L	Fluoride mg/L	Phosphate mg/L	Total Chromium mg/L
9/6/2006	2.0	5.2	7.54	0.132	0.0016
9/14/2006	2.0	3.6	8.22	0.357	0.0005
9/21/2006	2.0	2.9	7.93	0.289	0.0011
9/25/2006	2.0	2.5	9.40	0.187	0.0012

DAILY FLOW'S	
Day	M G D
1	0.751
2	0.756
3	0.840
4	0.743
5	0.992
6	0.883
7	0.908
8	0.996
9	0.951
10	0.847
11	0.949
12	0.907
13	0.924
14	0.983
15	0.936
16	0.943
17	0.903
18	0.929
19	0.954
20	0.813
21	0.952
22	0.755
23	0.914
24	0.919
25	1.004
26	0.931
27	0.843
28	0.813
29	0.938
30	0.935
Total:	26.912

Turbidity Avg	
Day	NTU's
1	0.9
2	1.4
3	1.4
4	1.6
5	2.0
6	2.0
7	1.4
8	1.8
9	2.2
10	1.5
11	1.2
12	1.2
13	1.4
14	1.7
15	1.8
16	2.7
17	1.6
18	1.2
19	1.3
20	2.0
21	2.1
22	2.6
23	1.4
24	1.4
25	2.4
26	1.7
27	2.5
28	2.3
29	2.5
30	2.2

SUPPLEMENTAL DATA

Siltronic Corporation Site ID 93450
7200 NW Front Avenue
Portland, Oregon 97210-3676

Permit Number: 101128
Discharge Number: Outfall 003
October 2006 Discharge Data

Date	BOD mg/L	TSS mg/L	Fluoride mg/L	Phosphate mg/L	Total Chromium mg/L
10/5/2006	4.6	3.4	6.76	0.143	0.0005
10/12/2006	6.9	3.5	6.69	0.274	0.0005
10/17/2006	5.6	2.9	6.94	0.236	0.0005
10/26/2006	7.5	3.9	3.24	0.798	0.0005

DAILY FLOW'S	
Day	M G D
1	0.847
2	0.886
3	0.982
4	0.800
5	0.904
6	1.060
7	0.905
8	0.899
9	0.876
10	0.864
11	0.950
12	0.999
13	0.905
14	0.938
15	0.947
16	0.928
17	0.969
18	0.968
19	0.920
20	0.927
21	0.800
22	0.639
23	0.553
24	0.602
25	0.538
26	0.807
27	0.938
28	0.984
29	0.955
30	0.843
31	0.896
Total:	27.029

Turbidity Avg	
Day	NTU's
1	1.5
2	1.3
3	1.0
4	1.0
5	1.5
6	1.4
7	1.4
8	1.7
9	1.4
10	1.4
11	1.8
12	1.7
13	1.5
14	1.4
15	1.4
16	1.2
17	1.7
18	1.8
19	1.9
20	1.2
21	1.4
22	0.7
23	0.7
24	0.8
25	1.0
26	3.1
27	1.9
28	1.2
29	1.1
30	1.1
31	1.0

SUPPLEMENTAL DATA

Siltronic Corporation Site ID 93450
7200 NW Front Avenue
Portland, Oregon 97210-3676

Permit Number: 101128
Discharge Number: Outfall 003
November 2006 Discharge Data

Date	BOD mg/L	TSS mg/L	Fluoride mg/L	Phosphate mg/L	Total Chromium mg/L
11/2/2006	2.0	3.1	7.63	0.198	0.0005
11/9/2006	6.3	1.7	7.28	0.157	0.0005
11/16/2006	2.0	1.8	8.54	0.341	0.0005
11/23/2006	7.0	1.6	9.10	0.310	0.0005
11/30/2006	5.9	2.8	7.10	0.224	0.0005

DAILY FLOW'S	
Day	M G D
1	0.984
2	0.944
3	1.020
4	0.938
5	0.944
6	0.922
7	1.138
8	0.887
9	0.950
10	0.933
11	0.975
12	0.874
13	0.936
14	0.853
15	0.926
16	0.958
17	1.000
18	0.924
19	0.978
20	0.970
21	0.985
22	0.973
23	0.879
24	1.051
25	0.861
26	0.927
27	0.923
28	0.896
29	0.919
30	0.922
Total:	28.390

Turbidity Avg	
Day	NTU's
1	1.0
2	0.9
3	0.9
4	0.7
5	0.8
6	0.8
7	0.7
8	0.7
9	0.8
10	1.0
11	1.1
12	0.7
13	0.7
14	1.0
15	1.1
16	1.2
17	1.1
18	1.1
19	1.5
20	0.9
21	0.9
22	0.8
23	0.8
24	0.9
25	0.7
26	0.8
27	0.8
28	1.0
29	1.3
30	1.1

SUPPLEMENTAL DATA

Siltronic Corporation Site ID 93450
7200 NW Front Avenue
Portland, Oregon 97210-3676

Permit Number: 101128
Discharge Number: Outfall 003
December 2006 Discharge Data

Date	BOD mg/L	TSS mg/L	Fluoride mg/L	Phosphate mg/L	Total Chromium mg/L
12/6/2006	9.0	4.3	7.86	0.144	0.0005
12/14/2006	5.9	5.7	6.80	0.172	0.0015
12/21/2006	8.2	4.1	6.60	0.187	0.0005
12/28/2006	5.2	4.4	5.80	0.185	0.0022

DAILY FLOW'S	
Day	M G D
1	0.922
2	0.891
3	0.852
4	0.862
5	0.903
6	0.864
7	0.849
8	0.917
9	0.935
10	0.855
11	0.873
12	0.965
13	0.931
14	0.875
15	0.980
16	1.002
17	0.852
18	0.898
19	0.836
20	1.060
21	0.826
22	0.928
23	0.933
24	0.914
25	0.979
26	0.757
27	1.020
28	0.924
29	0.956
30	1.020
31	0.932
Total:	28.311

Turbidity Avg	
Day	NTU's
1	1.0
2	1.3
3	1.3
4	1.3
5	1.4
6	1.5
7	1.9
8	2.1
9	1.9
10	1.6
11	1.6
12	1.6
13	1.9
14	1.9
15	1.6
16	2.7
17	2.1
18	1.8
19	2.3
20	2.5
21	2.2
22	2.4
23	2.1
24	2.0
25	2.0
26	2.2
27	1.8
28	1.5
29	2.3
30	2.6
31	2.8

KLL:009

Oregon Department of Environmental Quality
Land Quality - DeqHazWaste.NET

User: KoreenLail **Role:** Administrator Log Off

P13

RCRA Site ID: ORD096253737

Siltronic Corporation
7200 NW FRONT AVE
PORTLAND, OR 97210

Reporting Year: **2006**

Annual Report Submission

Regulatory Status Summary

- [x] Generator of Hazardous Waste (LQG)
- [ ] Generator due to Remediation
- [ ] Importer of Hazardous Waste
- [ ] Generator of Mixed Waste
- [ ] Transporter of Hazardous Waste
- [ ] Treatment, Storage, Disposal (TSD) Facility
- [ ] Recycler of Hazardous Waste
- [x] Management in RCRA permit exempt units
- [ ] Exempt Boiler and/or Industrial Furnace
- [ ] Underground Injection Control
- [ ] Conducted Universal Waste Activity
- [ ] Conducted Used Oil Activity

GM Waste Summary

Total Waste Generation: 572265639Pounds

Top Five GM Waste Streams (16 total)

Sequence Number	Waste Description	Pounds Managed On-Site	Pounds Managed Off-Site	Total Pounds Generated
16	RCRA exempt waste water (CAD) comprised of hydrofluoric acid, nitric acid	571632500.000	0.000	571632500.000
17	RCRA exempt wastewater (CCD) comprised of sodium hydroxide and potassium hy	573301.500	0.000	573301.500
11	Investigation derived waste (soil)		39590.000	40915.000
4	Waste contaminated rags and debris, waste wax		7284.000	6998.000
15	Investigation derived waste (water w/ benzene)		4394.000	4968.000

WR Waste Summary (for TSD reporting)

Total Waste Received: 0Pounds

Top Five WR Waste Streams (0 total)

Sequence Number	Waste Description	Total Pounds Received

Enter Your User Password to **Submit**: * [ ] Submit Cancel

SCOEPA00025225

RCRA Waste Site Identification Form

Site ID

State of Oregon Department of Environmental Quality
Accounting Section
811 SW Sixth Avenue, Portland, OR 97204-1390
Questions: (503)229-6511 in Portland, OR or toll free in Oregon: (800)452-4011 Ext. 6511
Fax: (503)229-6977
TTY: (50)229-6993
Email: hazwaste@deq.state.or.us
Web site: www.DeqHazWaste.net

State of Oregon Department of Environmental Quality

1. Reason for Submittal

- ☐ To provide **New** Notification of Regulated Waste Activity (complete entire form)
  - ☐ Initial Notification ($200 non-refundable fee required)
  - ☐ Change in business ownership (represent the new owner) (No fee required)
  - ☐ Reactivation of RCRA Site ID Number ($200 non-refundable fee required)
- ☐ To provide **Revised** Site Identification Information
- ☐ To **Withdraw** Site Identification Number Effective Date: 12/31/2006
  - ☐ Completion of RCRA waste activity
  - ☐ Change in business ownership (represent the old owner)
- ☒ To provide as a component of the **Annual Hazardous Waste Report** (skip section 11, 12, and 13)

Reporting Year: 2006 If ownership changed: ☒ Filing for entire year ☐ Filing for partial year

2. RCRA Site ID Number: ORD096253737

3a. Site Location Information

Company Name: Siltronic Corporation
Site Location: 7200 NW FRONT AVE
PORTLAND, OR 97210
County: MULTNOMAH
Corp. Div. Reg. Nbr.: 015267-22
NAICS Code: 334413
Employee Count: 920

4a. Site Contact

Person Name: Koreen Lail
Mailing Address: 7200 NW Front Ave
Portland, OR 97210-3676
Country: UNITED STATES
Phone Number (Ext): 503 219-7994
Email Address: koreen.lail@siltronic.com

5a. Land Owner

Name: Siltronic Corporation
Mailing Address: 7200 NW Front Avenue
Portland, OR 97210-3676
Country: UNITED STATES
Phone Number (Ext): (503) 219-7994
Owner Type: ☒ Private ☐ Federal ☐ State ☐ County ☐ District ☐ Municipal ☐ Tribal ☐ Other

SCOEPA00025226

RCRA Waste Site Identification Form

Site ID

RCRA Site ID Number: ORD096253737

6a. Legal Owner

Name: Siltronic AG
Mailing Address: 7200 NW Front Avenue
Portland, OR 97210-3676
Country: UNITED STATES
Phone Number (Ext): (503) 219-7994
Owner Since: 08/07/1980
Owner Type: ☒ Private ☐ Federal ☐ State ☐ County ☐ District ☐ Municipal ☐ Tribal ☐ Other

7a. Site Operator

Name: Sitronic Corporation
Mailing Address: 7200 NW Front Avenue
Portland, OR 97210-3676
Country: UNITED STATES
Phone Number (Ext): (503) 219-7994
Operator Since:
Operator Type: ☒ Private ☐ Federal ☐ State ☐ County ☐ District ☐ Municipal ☐ Tribal ☐ Other

8a. Hazardous Waste Forms Contact

Person Name: Koreen Lail
Organization: Siltronic Corporation
Mailing Address: 7200 NW Front Ave
Portland, OR 97210-3676
Country: UNITED STATES
Phone Number (Ext): 503 219-7994
Email Address: koreen.lail@siltronic.com

9a. Hazardous Waste Fee Contact

Person Name: Tom McCue
Organization: Siltronic Corporation
Mailing Address: 7200 NW Front Ave
Portland, OR 97210-3676
Country: UNITED STATES
Phone Number (Ext): 503 219-7532
Email Address: tom.mccue@siltronic.com

SCOEPA00025227

RCRA Waste Site Identification Form

Site ID

State of Oregon Department of Environmental Quality
Accounting Section
811 SW Sixth Avenue, Portland, OR 97204-1390
Questions: (503)229-6511 in Portland, OR or toll free in Oregon: (800)452-4011 Ext. 6511
Fax: (503)229-6977
TTY: (50)229-6993
Email: hazwaste@deq.state.or.us
Web site: www.DeqHazWaste.net

State of Oregon Department of Environmental Quality

1. Reason for Submittal

- ☐ To provide **New** Notification of Regulated Waste Activity (complete entire form)
  - ☐ Initial Notification ($200 non-refundable fee required)
  - ☐ Change in business ownership (represent the new owner) (No fee required)
  - ☐ Reactivation of RCRA Site ID Number ($200 non-refundable fee required)
- ☐ To provide **Revised** Site Identification Information
- ☐ To **Withdraw** Site Identification Number Effective Date: 12/31/2006
  - ☐ Completion of RCRA waste activity
  - ☐ Change in business ownership (represent the old owner)
- ☒ To provide as a component of the **Annual Hazardous Waste Report** (skip section 11, 12, and 13)

Reporting Year: 2006 If ownership changed: ☒ Filing for entire year ☐ Filing for partial year

2. RCRA Site ID Number: **ORD096253737**

3a. Site Location Information

Company Name: Siltronic Corporation
Site Location: 7200 NW FRONT AVE
PORTLAND, OR 97210
County: MULTNOMAH
Corp. Div. Reg. Nbr.: 015267-22
NAICS Code: 334413
Employee Count: 920

4a. Site Contact

Person Name: Koreen Lail
Mailing Address: 7200 NW Front Ave
Portland, OR 97210-3676
Country: UNITED STATES
Phone Number (Ext): 503 219-7994
Email Address: koreen.lail@siltronic.com

5a. Land Owner

Name: Siltronic Corporation
Mailing Address: 7200 NW Front Avenue
Portland, OR 97210-3676
Country: UNITED STATES
Phone Number (Ext): (503) 219-7994
Owner Type: ☒ Private ☐ Federal ☐ State ☐ County ☐ District ☐ Municipal ☐ Tribal ☐ Other

SCOEPA00025228

RCRA Waste Site Identification Form

Site ID

RCRA Site ID Number: ORD096253737

6a. Legal Owner

Name: Siltronic AG
Mailing Address: 7200 NW Front Avenue
Portland, OR 97210-3676
Country: UNITED STATES
Phone Number (Ext): (503) 219-7994
Owner Since: 08/07/1980
Owner Type: ☒ Private ☐ Federal ☐ State ☐ County ☐ District ☐ Municipal ☐ Tribal ☐ Other

7a. Site Operator

Name: Sitronic Corporation
Mailing Address: 7200 NW Front Avenue
Portland, OR 97210-3676
Country: UNITED STATES
Phone Number (Ext): (503) 219-7994
Operator Since:
Operator Type: ☒ Private ☐ Federal ☐ State ☐ County ☐ District ☐ Municipal ☐ Tribal ☐ Other

8a. Hazardous Waste Forms Contact

Person Name: Koreen Lail
Organization: Siltronic Corporation
Mailing Address: 7200 NW Front Ave
Portland, OR 97210-3676
Country: UNITED STATES
Phone Number (Ext): 503 219-7994
Email Address: koreen.lail@siltronic.com

9a. Hazardous Waste Fee Contact

Person Name: Tom McCue
Organization: Siltronic Corporation
Mailing Address: 7200 NW Front Ave
Portland, OR 97210-3676
Country: UNITED STATES
Phone Number (Ext): 503 219-7532
Email Address: tom.mccue@siltronic.com

SCOEPA00025229

RCRA Waste Site Identification Form

Site ID

RCRA Site ID Number: ORD096253737

10. Hazardous Waste Activities (Mark the appropriate boxes for activities that apply to your site)

1. Generator of Hazardous Waste

- [X] a. LQG: Large Quantity Generator (Generates greater than 2,200 lbs/mo or more than 2.2 lbs of acute hazardous waste)
- [ ] b. SQG: Small Quantity Generator: (Generates between 220-2,200 lbs/mo or more than 2,200 lbs accumulated on-site)
- [ ] c. CEG: Conditionally Exempt Generator: (Generates between 0-220 lbs/mo, less than 2.2 lbs of acute hazardous waste and less than 2,200 lbs accumulated on-site)

2. Are you a hazardous waste generator due to remediation of environmental contamination or a business closure?

- [ ] Yes
- [X] No

If yes, find out about expedited annual reporting at: www.deq.state.or.us/wmc/hw/factsheets/HWFeesForCleanups.p

- [ ] **3. Importer of Hazardous Waste**
- [ ] **4. Generator of Mixed Waste (hazardous and radioactive)**

5. Transporter of Hazardous Waste

- [ ] a. Transports hazardous waste generated at this facility
- [ ] b. Transports for commercial purposes
- [ ] c. Hazardous Waste Transfer Facility

- [ ] **6. Treatment, Storage, Disposal (TSD) Facility**

(Note: A RCRA Permit is required for this activity)

7. Recycler of Hazardous Waste

- [ ] a. Recycles HW generated at this facility
- [ ] b. Recycles HW generated by other facilities

8. Hazardous waste management in RCRA permit exempt units (e.g. elementary neutralization units, waste water treatment units, or accumulation tanks or containers)

- [X] a. Manages HW generated at this facility
- [ ] b. Manages HW generated by other facilities

9. Exempt Boiler and/or Industrial Furnace

- [ ] a. Small Quantity On-Site Burner Exemption
- [ ] b. Smelting, Melting, Refining Furnace Exemption

- [ ] **10. Underground Injection Control**

If yes, there may be addition reporting requirements at: www.deq.state.or.us/wq/groundwa/uichome.htm

11. Description of Hazardous Wastes

1. Waste Codes for Federally Regulated Hazardous Wastes: Identify the federal hazardous waste codes that best describe your waste (e.g., D001 - Ignitable, D002 - Corrosive, D003 - Reactive, etc.) List additional federal codes in the comments section.

D001, D002, D003, D005, D006, D007, D008, D009, D011, D018, D040, D043, F002, F005

2. Waste Codes for State Regulated(i.e., non-federal) Hazardous Wastes: Identify the Oregon state-only hazardous waste codes that best describe your waste (e.g., ORX001, ORX007, ORP003, ORU001, etc.)

12. Universal Waste Activities (Mark the appropriate boxes for activities that apply to your site)

- [ ] **1. Large Quantity Handler of Universal Waste**

(Accumulates a total of 11,000 lbs. or more of universal waste at any time, at the location at which it was generated)

- [ ] **2. Off-site Universal Waste Collection Site**

(Accumulates a total of 2,000 lbs. or more of universal waste received from off-site). If yes, there are additional notification requirements at: www.deq.state.or.us/wmc/documents/uwnotification.pdf

- [ ] **3. Pesticide Collection Program**

(Collects and accumulates waste pesticides from off-site). If yes, there are additional notification requirements at: www.deq.state.or.us/wmc/documents/uwnotification.pdf

- [ ] **4. Destination Facility for Universal Waste**

(A facility that treats, disposes of, or recycles universal wastes on-site)

5. Mark all boxes that apply

	Generate	Accumulate
a. Batteries	☐	☐
b. Mercury containing thermostats	☐	☐
c. Lamps	☐	☐
d. Pesticides	☐	☐

13. Used Oil Activities (Mark the appropriate boxes for activities that apply to your site)

- [ ] **1. Used Oil Collection Center**
- [ ] **2. Used Oil Transporter**
- [ ] **3. Used Oil Transfer Facility**

4. Used Oil Processor/Re-refiner

Indicate type(s) of activity(s)

- [ ] a. Processor
- [ ] b. Re-refiner

- [ ] **5. Off-Specification Used Oil Burner (not used oil space heaters operating according to CFR 279.23)**

6. Used Oil Fuel Marketer

Indicate type(s) of activity(s)

- [ ] a. Marketer who directs shipments of off-specification used oil to off-specification used oil burner
- [ ] b. Marketer who first claims the used oil to meet the specifications

SCOEPA00025230

RCRA Waste Site Identification Form

Site ID

RCRA Site ID Number: ORD096253737

14. Comments

15. Certification

This form cannot be processed without a signature

I certify that under penalty of law that I have personally examined and am familiar with the information submitted in this demonstration and all attached documents, and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Signature | **Date**

Name (print or type) | **Title**

If you have special accommodation needs or require this documentin an alternative format, please contact the Hazardous Waste Section in Portland at 503-229-6938 or toll-free within the State of Oregon at 1-800-452-4011, extension 6938

16. Electronic Submittals

DEQ will issue a PIN number and electronic filing instructions in a letter addressed to the Forms Contact in Section 8 on this form. The electronic reporting system may be used for your company's annual reporting and site identification updates.

SCOEPA00025231

Generation and Management Answer Sheet

GM

Please enter your RCRA Site ID number and your site name in the box at the right, before making as many two-sided copies of this answer sheet as you will need to report each of your waste streams. Complete one answer sheet for each waste stream that was generated.

Reference the instructions as you complete this form. Please type or print legibly in blue or black ink.

Please Enter:

Your RCRA Site ID Number: ORD096253737 Year: 2006

Site Name: Siltronic Corporation

For DEQ Use Only:

Date Received: _____

A. Description of Hazardous Waste Stream

Sequence Number: 2

A-1. What is your waste stream identification? 170717-05

A-2. Briefly describe the hazardous waste stream:
Waste chromic acid

A-3. Which EPA hazardous waste codes are associated with this waste stream?
D002 D007

A-4. Which Oregon state-only hazardous waste code is associated with this waste stream?

A-5. Which source code best describes the type of process or activity from which this waste stream was generated? G04

A-5.a. If you specified source code G25 in question A-5, please enter the management method code from the on-site hazardous waste management system:

A-5.b. If you specified source code G62 in question A-5, please enter the country of origin from which this waste was received:

A-6. Which form code best corresponds to the physical form or chemical composition of this waste stream? W103

A-7. If there were toxic substances in this waste stream that your facility reported on its 2002 Toxic Chemical Release Inventory (TRI) Reporting Form (Form R), please provide the CAS numbers reported:

A-8. Did this waste stream contain mercury? ☐ Yes ☒ No

A-8.a. If you answered yes to question A-8, please provide a reasonable estimate of the percentage of mercury in this waste stream: 0.00

B. Hazardous Waste Management Activities

B-1. What is the total quantity of this waste stream generated in the reporting year and what is the unit of measure?

Quantity: 3302.00 ☒ Pounds ☐ Gallons ☐ Tons ☐ Cubic Yards ☐ Kilograms

B-1.a. If the waste stream is measured in gallons or cubic yards, what is its density?

Density: ☐ Pounds/gallon ☐ Specific gravity ☐ Pounds/cubic yard

B-2. Was the waste stream managed on-site, off-site, or both?

☐ On-site ☒ Off-site ☐ Both

B-3. If all or part of this waste stream was managed on-site, how much was managed on-site and how was it managed?

Quantity: Management Method Code:

B-4. Indicate the quantity of this waste stream that was remaining on-site at the end of the calendar year you are reporting:

446.00

B-5. Indicate the quantity of this waste stream that was carried forward from the previous reporting year: 112.00

SCOEPA00025232

B-6. Please provide the following information for each off-site shipment of waste:

Shipment_DT	Manifest_NR	Reported_QT	Transporter_ID_NR	Mgmt_System_CD	RCRA_Site_ID_NR
02/20/2006	58355	200.00	WAR000001743	H071	WAD991281767
05/12/2006	68080	1980.00	WAR000001743	H071	WAD991281767
08/03/2006	80222	198.00	WAR000001743	H071	WAD991281767
11/02/2006	1358475	590.00	WAR000001743	H071	WAD991281767

C. Comments

Use the Comments section to provide any additional comments, information or explanations as necessary. In your comments always provide the reference to the specific question number:

SCOEPA00025233

Generation and Management Answer Sheet

GM

Please enter your RCRA Site ID number and your site name in the box at the right, before making as many two-sided copies of this answer sheet as you will need to report each of your waste streams. Complete one answer sheet for each waste stream that was generated.

Reference the instructions as you complete this form. Please type or print legibly in blue or black ink.

Please Enter:

Your RCRA Site ID Number: ORD096253737 Year: 2006

Site Name: Siltronic Corporation

For DEQ Use Only:

Date Received: _____

A. Description of Hazardous Waste Stream

Sequence Number: 3

A-1. What is your waste stream identification? 300389

A-2. Briefly describe the hazardous waste stream:
Mercury debris

A-3. Which EPA hazardous waste codes are associated with this waste stream?
D009

A-4. Which Oregon state-only hazardous waste code is associated with this waste stream?

A-5. Which source code best describes the type of process or activity from which this waste stream was generated? G09

A-5.a. If you specified source code G25 in question A-5, please enter the management method code from the on-site hazardous waste management system:

A-5.b. If you specified source code G62 in question A-5, please enter the country of origin from which this waste was received:

A-6. Which form code best corresponds to the physical form or chemical composition of this waste stream? W002

A-7. If there were toxic substances in this waste stream that your facility reported on its 2002 Toxic Chemical Release Inventory (TRI) Reporting Form (Form R), please provide the CAS numbers reported:

A-8. Did this waste stream contain mercury? ☒ Yes ☐ No

A-8.a. If you answered yes to question A-8, please provide a reasonable estimate of the percentage of mercury in this waste stream: 0.00

B. Hazardous Waste Management Activities

B-1. What is the total quantity of this waste stream generated in the reporting year and what is the unit of measure?

Quantity: 61.00 ☒ Pounds ☐ Gallons ☐ Tons ☐ Cubic Yards ☐ Kilograms

B-1.a. If the waste stream is measured in gallons or cubic yards, what is its density?

Density: ☐ Pounds/gallon ☐ Specific gravity ☐ Pounds/cubic yard

B-2. Was the waste stream managed on-site, off-site, or both?

☐ On-site ☒ Off-site ☐ Both

B-3. If all or part of this waste stream was managed on-site, how much was managed on-site and how was it managed?

Quantity: Management Method Code:

B-4. Indicate the quantity of this waste stream that was remaining on-site at the end of the calendar year you are reporting:
0.00

B-5. Indicate the quantity of this waste stream that was carried forward from the previous reporting year: 15.00

SCOEPA00025234

B-6. Please provide the following information for each off-site shipment of waste:

Shipment_DT	Manifest_NR	Reported_QT	Transporter_ID_NR	Mgmt_System_CD	RCRA_Site_ID_NR
01/24/2006	24542050	15.00	CAD009452657	H040	CAD009452657
03/07/2006	24542158	50.00	CAD009452657	H040	CAD009452657
05/25/2006	23888430	1.00	CAD009452657	H040	CAD009452657
09/07/2006	1313097	10.00	CAD009452657	H040	CAD009452657

C. Comments

Use the Comments section to provide any additional comments, information or explanations as necessary. In your comments always provide the reference to the specific question number:

A-8.a. The above % of mercury field does not allow for very low levels of mercury. Out test of mercury in this waste stream is less than 1.0 mg/l

SCOEPA00025235

Generation and Management Answer Sheet

GM

Please enter your RCRA Site ID number and your site name in the box at the right, before making as many two-sided copies of this answer sheet as you will need to report each of your waste streams. Complete one answer sheet for each waste stream that was generated.

Reference the instructions as you complete this form. Please type or print legibly in blue or black ink.

Please Enter:

Your RCRA Site ID Number: ORD096253737 Year: 2006

Site Name: Siltronic Corporation

For DEQ Use Only:

Date Received: _____

A. Description of Hazardous Waste Stream

Sequence Number: 4

A-1. What is your waste stream identification? 325054

A-2. Briefly describe the hazardous waste stream:
Waste contaminated rags and debris, waste wax

A-3. Which EPA hazardous waste codes are associated with this waste stream?
D001 F005

A-4. Which Oregon state-only hazardous waste code is associated with this waste stream?

A-5. Which source code best describes the type of process or activity from which this waste stream was generated? G06

A-5.a. If you specified source code G25 in question A-5, please enter the management method code from the on-site hazardous waste management system:

A-5.b. If you specified source code G62 in question A-5, please enter the country of origin from which this waste was received:

A-6. Which form code best corresponds to the physical form or chemical composition of this waste stream? W606

A-7. If there were toxic substances in this waste stream that your facility reported on its 2002 Toxic Chemical Release Inventory (TRI) Reporting Form (Form R), please provide the CAS numbers reported:

A-8. Did this waste stream contain mercury? ☐ Yes ☒ No

A-8.a. If you answered yes to question A-8, please provide a reasonable estimate of the percentage of mercury in this waste stream: 0.00

B. Hazardous Waste Management Activities

B-1. What is the total quantity of this waste stream generated in the reporting year and what is the unit of measure?
Quantity: 6998.00 ☒ Pounds ☐ Gallons ☐ Tons ☐ Cubic Yards ☐ Kilograms

B-1.a. If the waste stream is measured in gallons or cubic yards, what is its density?
Density: ☐ Pounds/gallon ☐ Specific gravity ☐ Pounds/cubic yard

B-2. Was the waste stream managed on-site, off-site, or both?
☐ On-site ☒ Off-site ☐ Both

B-3. If all or part of this waste stream was managed on-site, how much was managed on-site and how was it managed?
Quantity: Management Method Code:

B-4. Indicate the quantity of this waste stream that was remaining on-site at the end of the calendar year you are reporting:
300.00

B-5. Indicate the quantity of this waste stream that was carried forward from the previous reporting year: 586.00

SCOEPA00025236

B-6. Please provide the following information for each off-site shipment of waste:

Shipment_DT	Manifest_NR	Reported_QT	Transporter_ID_NR	Mgmt_System_CD	RCRA_Site_ID_NR
01/24/2006	24542050	1201.00	CAD009452657	H050	CAD009452657
03/07/2006	24542158	818.00	CAD009452657	H050	CAD009452657
04/26/2006	24542350	500.00	CAD009452657	H050	CAD009452657
05/25/2006	23888430	1200.00	CAD009452657	H050	CAD009452657
07/11/2006	23888541	665.00	CAD009452657	H050	CAD009452657
09/07/2006	1313097	1575.00	CAD009452657	H050	CAD009452657
10/18/2006	1313228	500.00	CAD009452657	H050	CAD009452657
11/21/2006	1313284	675.00	CAD009452657	H050	CAD009452657
12/07/2006	1313309	150.00	CAD009452657	H050	CAD009452657

C. Comments

Use the Comments section to provide any additional comments, information or explanations as necessary. In your comments always provide the reference to the specific question number:

SCOEPA00025237

Generation and Management Answer Sheet

GM

Please enter your RCRA Site ID number and your site name in the box at the right, before making as many two-sided copies of this answer sheet as you will need to report each of your waste streams. Complete one answer sheet for each waste stream that was generated.

Reference the instructions as you complete this form. Please type or print legibly in blue or black ink.

Please Enter:

Your RCRA Site ID Number: ORD096253737 Year: 2006

Site Name: Siltronic Corporation

For DEQ Use Only:

Date Received: _____

A. Description of Hazardous Waste Stream

Sequence Number: 5

A-1. What is your waste stream identification? 326646

A-2. Briefly describe the hazardous waste stream:
Lab pack

A-3. Which EPA hazardous waste codes are associated with this waste stream?
D001 D008 D005 F002

A-4. Which Oregon state-only hazardous waste code is associated with this waste stream?

A-5. Which source code best describes the type of process or activity from which this waste stream was generated? G22

A-5.a. If you specified source code G25 in question A-5, please enter the management method code from the on-site hazardous waste management system:

A-5.b. If you specified source code G62 in question A-5, please enter the country of origin from which this waste was received:

A-6. Which form code best corresponds to the physical form or chemical composition of this waste stream? W001

A-7. If there were toxic substances in this waste stream that your facility reported on its 2002 Toxic Chemical Release Inventory (TRI) Reporting Form (Form R), please provide the CAS numbers reported:

A-8. Did this waste stream contain mercury? ☐ Yes ☒ No

A-8.a. If you answered yes to question A-8, please provide a reasonable estimate of the percentage of mercury in this waste stream: 0.00

B. Hazardous Waste Management Activities

B-1. What is the total quantity of this waste stream generated in the reporting year and what is the unit of measure?
Quantity: 96.00 ☒ Pounds ☐ Gallons ☐ Tons ☐ Cubic Yards ☐ Kilograms

B-1.a. If the waste stream is measured in gallons or cubic yards, what is its density?
Density: ☐ Pounds/gallon ☐ Specific gravity ☐ Pounds/cubic yard

B-2. Was the waste stream managed on-site, off-site, or both?
☐ On-site ☒ Off-site ☐ Both

B-3. If all or part of this waste stream was managed on-site, how much was managed on-site and how was it managed?
Quantity: Management Method Code:

B-4. Indicate the quantity of this waste stream that was remaining on-site at the end of the calendar year you are reporting:
0.00

B-5. Indicate the quantity of this waste stream that was carried forward from the previous reporting year: 0.00

SCOEPA00025238

B-6. Please provide the following information for each off-site shipment of waste:

Shipment_DT	Manifest_NR	Reported_QT	Transporter_ID_NR	Mgmt_System_CD	RCRA_Site_ID_NR
04/24/2006	24542351	45.00	CAD009452657	H050	CAD009452657
04/24/2006	24541351	1.00	CAD009452657	H040	CAD009452657
12/07/2006	1314657	50.00	CAD009452657	H040	CAD009452657

C. Comments

Use the Comments section to provide any additional comments, information or explanations as necessary. In your comments always provide the reference to the specific question number:

SCOEPA00025239

Generation and Management Answer Sheet

GM

Please enter your RCRA Site ID number and your site name in the box at the right, before making as many two-sided copies of this answer sheet as you will need to report each of your waste streams. Complete one answer sheet for each waste stream that was generated.

Reference the instructions as you complete this form. Please type or print legibly in blue or black ink.

Please Enter:

Your RCRA Site ID Number: ORD096253737 Year: 2006

Site Name: Siltronic Corporation

For DEQ Use Only:

Date Received: _____

A. Description of Hazardous Waste Stream

Sequence Number: 6

A-1. What is your waste stream identification? 383253

A-2. Briefly describe the hazardous waste stream:
Mercury switches

A-3. Which EPA hazardous waste codes are associated with this waste stream?
D009

A-4. Which Oregon state-only hazardous waste code is associated with this waste stream?

A-5. Which source code best describes the type of process or activity from which this waste stream was generated? G15

A-5.a. If you specified source code G25 in question A-5, please enter the management method code from the on-site hazardous waste management system:

A-5.b. If you specified source code G62 in question A-5, please enter the country of origin from which this waste was received:

A-6. Which form code best corresponds to the physical form or chemical composition of this waste stream? W001

A-7. If there were toxic substances in this waste stream that your facility reported on its 2002 Toxic Chemical Release Inventory (TRI) Reporting Form (Form R), please provide the CAS numbers reported:

A-8. Did this waste stream contain mercury? ☒ Yes ☐ No

A-8.a. If you answered yes to question A-8, please provide a reasonable estimate of the percentage of mercury in this waste stream: 5.00

B. Hazardous Waste Management Activities

B-1. What is the total quantity of this waste stream generated in the reporting year and what is the unit of measure?

Quantity: 12.00 ☒ Pounds ☐ Gallons ☐ Tons ☐ Cubic Yards ☐ Kilograms

B-1.a. If the waste stream is measured in gallons or cubic yards, what is its density?

Density: ☐ Pounds/gallon ☐ Specific gravity ☐ Pounds/cubic yard

B-2. Was the waste stream managed on-site, off-site, or both?

☐ On-site ☒ Off-site ☐ Both

B-3. If all or part of this waste stream was managed on-site, how much was managed on-site and how was it managed?

Quantity: Management Method Code:

B-4. Indicate the quantity of this waste stream that was remaining on-site at the end of the calendar year you are reporting:
0.00

B-5. Indicate the quantity of this waste stream that was carried forward from the previous reporting year: 0.00

SCOEPA00025240

B-6. Please provide the following information for each off-site shipment of waste:

Shipment_DT	Manifest_NR	Reported_QT	Transporter_ID_NR	Mgmt_System_CD	RCRA_Site_ID_NR
01/24/2006	24542049	2.00	CAD009452657	H040	CAD009452657
07/11/2006	23888541	10.00	CAD009452657	H010	CAD009452657

C. Comments

Use the Comments section to provide any additional comments, information or explanations as necessary. In your comments always provide the reference to the specific question number:

SCOEPA00025241

Generation and Management Answer Sheet

GM

Please enter your RCRA Site ID number and your site name in the box at the right, before making as many two-sided copies of this answer sheet as you will need to report each of your waste streams. Complete one answer sheet for each waste stream that was generated.

Reference the instructions as you complete this form. Please type or print legibly in blue or black ink.

Please Enter:

Your RCRA Site ID Number: ORD096253737 Year: 2006

Site Name: Siltronic Corporation

For DEQ Use Only:

Date Received: _____

A. Description of Hazardous Waste Stream

Sequence Number: 7

A-1. What is your waste stream identification? 340861

A-2. Briefly describe the hazardous waste stream:
DI water with mercury

A-3. Which EPA hazardous waste codes are associated with this waste stream?
D009

A-4. Which Oregon state-only hazardous waste code is associated with this waste stream?

A-5. Which source code best describes the type of process or activity from which this waste stream was generated? G22

A-5.a. If you specified source code G25 in question A-5, please enter the management method code from the on-site hazardous waste management system:

A-5.b. If you specified source code G62 in question A-5, please enter the country of origin from which this waste was received:

A-6. Which form code best corresponds to the physical form or chemical composition of this waste stream? W101

A-7. If there were toxic substances in this waste stream that your facility reported on its 2002 Toxic Chemical Release Inventory (TRI) Reporting Form (Form R), please provide the CAS numbers reported:

A-8. Did this waste stream contain mercury? ☒ Yes ☐ No

A-8.a. If you answered yes to question A-8, please provide a reasonable estimate of the percentage of mercury in this waste stream: 0.00

B. Hazardous Waste Management Activities

B-1. What is the total quantity of this waste stream generated in the reporting year and what is the unit of measure?

Quantity: 30.00 ☒ Pounds ☐ Gallons ☐ Tons ☐ Cubic Yards ☐ Kilograms

B-1.a. If the waste stream is measured in gallons or cubic yards, what is its density?

Density: ☐ Pounds/gallon ☐ Specific gravity ☐ Pounds/cubic yard

B-2. Was the waste stream managed on-site, off-site, or both?

☐ On-site ☒ Off-site ☐ Both

B-3. If all or part of this waste stream was managed on-site, how much was managed on-site and how was it managed?

Quantity: Management Method Code:

B-4. Indicate the quantity of this waste stream that was remaining on-site at the end of the calendar year you are reporting:
0.00

B-5. Indicate the quantity of this waste stream that was carried forward from the previous reporting year: 0.00

SCOEPA00025242

B-6. Please provide the following information for each off-site shipment of waste:

Shipment_DT	Manifest_NR	Reported_QT	Transporter_ID_NR	Mgmt_System_CD	RCRA_Site_ID_NR
03/07/2006	24542158	30.00	CAD009452657	H020	CAD009452657

C. Comments

Use the Comments section to provide any additional comments, information or explanations as necessary. In your comments always provide the reference to the specific question number:

A-8.a. The above field for the estimate of mercury in the waste does not allow for very low levels of mercury. The test result for mercury in this waste stream is 1.01 mg/l

SCOEPA00025243

Generation and Management Answer Sheet

GM

Please enter your RCRA Site ID number and your site name in the box at the right, before making as many two-sided copies of this answer sheet as you will need to report each of your waste streams. Complete one answer sheet for each waste stream that was generated.

Reference the instructions as you complete this form. Please type or print legibly in blue or black ink.

Please Enter:

Your RCRA Site ID Number: ORD096253737 Year: 2006

Site Name: Siltronic Corporation

For DEQ Use Only:

Date Received: _____

A. Description of Hazardous Waste Stream

Sequence Number: 8

A-1. What is your waste stream identification? 328034

A-2. Briefly describe the hazardous waste stream:
Partially filled and empty aerosol cans

A-3. Which EPA hazardous waste codes are associated with this waste stream?
D001 D003

A-4. Which Oregon state-only hazardous waste code is associated with this waste stream?

A-5. Which source code best describes the type of process or activity from which this waste stream was generated? G06

A-5.a. If you specified source code G25 in question A-5, please enter the management method code from the on-site hazardous waste management system:

A-5.b. If you specified source code G62 in question A-5, please enter the country of origin from which this waste was received:

A-6. Which form code best corresponds to the physical form or chemical composition of this waste stream? W209

A-7. If there were toxic substances in this waste stream that your facility reported on its 2002 Toxic Chemical Release Inventory (TRI) Reporting Form (Form R), please provide the CAS numbers reported:

A-8. Did this waste stream contain mercury? ☐ Yes ☒ No

A-8.a. If you answered yes to question A-8, please provide a reasonable estimate of the percentage of mercury in this waste stream: 0.00

B. Hazardous Waste Management Activities

B-1. What is the total quantity of this waste stream generated in the reporting year and what is the unit of measure?
Quantity: 103.00 ☒ Pounds ☐ Gallons ☐ Tons ☐ Cubic Yards ☐ Kilograms

B-1.a. If the waste stream is measured in gallons or cubic yards, what is its density?
Density: ☐ Pounds/gallon ☐ Specific gravity ☐ Pounds/cubic yard

B-2. Was the waste stream managed on-site, off-site, or both?
☐ On-site ☒ Off-site ☐ Both

B-3. If all or part of this waste stream was managed on-site, how much was managed on-site and how was it managed?
Quantity: Management Method Code:

B-4. Indicate the quantity of this waste stream that was remaining on-site at the end of the calendar year you are reporting:
3.00

B-5. Indicate the quantity of this waste stream that was carried forward from the previous reporting year: 0.00

SCOEPA00025244

B-6. Please provide the following information for each off-site shipment of waste:

Shipment_DT	Manifest_NR	Reported_QT	Transporter_ID_NR	Mgmt_System_CD	RCRA_Site_ID_NR
04/24/2006	04246	25.00	CAD009452657	H050	AZD009015389
11/21/2006	1313285	75.00	CAD009452657	H040	AZD009015389

C. Comments

Use the Comments section to provide any additional comments, information or explanations as necessary. In your comments always provide the reference to the specific question number:

SCOEPA00025245

Generation and Management Answer Sheet

GM

Please enter your RCRA Site ID number and your site name in the box at the right, before making as many two-sided copies of this answer sheet as you will need to report each of your waste streams. Complete one answer sheet for each waste stream that was generated.

Reference the instructions as you complete this form. Please type or print legibly in blue or black ink.

Please Enter:

Your RCRA Site ID Number: ORD096253737 Year: 2006

Site Name: Siltronic Corporation

For DEQ Use Only:

Date Received: _____

A. Description of Hazardous Waste Stream

Sequence Number: .9

A-1. What is your waste stream identification? 360264

A-2. Briefly describe the hazardous waste stream:
Acid debris

A-3. Which EPA hazardous waste codes are associated with this waste stream?
D002

A-4. Which Oregon state-only hazardous waste code is associated with this waste stream?

A-5. Which source code best describes the type of process or activity from which this waste stream was generated? G32

A-5.a. If you specified source code G25 in question A-5, please enter the management method code from the on-site hazardous waste management system:

A-5.b. If you specified source code G62 in question A-5, please enter the country of origin from which this waste was received:

A-6. Which form code best corresponds to the physical form or chemical composition of this waste stream? W002

A-7. If there were toxic substances in this waste stream that your facility reported on its 2002 Toxic Chemical Release Inventory (TRI) Reporting Form (Form R), please provide the CAS numbers reported:

A-8. Did this waste stream contain mercury? ☐ Yes ☒ No

A-8.a. If you answered yes to question A-8, please provide a reasonable estimate of the percentage of mercury in this waste stream: 0.00

B. Hazardous Waste Management Activities

B-1. What is the total quantity of this waste stream generated in the reporting year and what is the unit of measure?

Quantity: 190.00 ☒ Pounds ☐ Gallons ☐ Tons ☐ Cubic Yards ☐ Kilograms

B-1.a. If the waste stream is measured in gallons or cubic yards, what is its density?

Density: ☐ Pounds/gallon ☐ Specific gravity ☐ Pounds/cubic yard

B-2. Was the waste stream managed on-site, off-site, or both?

☐ On-site ☒ Off-site ☐ Both

B-3. If all or part of this waste stream was managed on-site, how much was managed on-site and how was it managed?

Quantity: Management Method Code:

B-4. Indicate the quantity of this waste stream that was remaining on-site at the end of the calendar year you are reporting:
0.00

B-5. Indicate the quantity of this waste stream that was carried forward from the previous reporting year: 80.00

SCOEPA00025246

B-6. Please provide the following information for each off-site shipment of waste:

Shipment_DT	Manifest_NR	Reported_QT	Transporter_ID_NR	Mgmt_System_CD	RCRA_Site_ID_NR
01/24/2006	24542050	80.00	CAD009452657	H040	CAD009452657
05/25/2006	23888430	15.00	CAD009452657	H040	CAD009452657
07/11/2006	23888541	35.00	CAD009452657	H040	CAD009452657
10/18/2006	1313228	30.00	CAD009452657	H040	CAD009452657
11/21/2006	1313284	100.00	CAD009452657	H040	CAD009452657
12/07/2006	1313309	10.00	CAD009452657	H040	CAD009452657

C. Comments

Use the Comments section to provide any additional comments, information or explanations as necessary. In your comments always provide the reference to the specific question number:

SCOEPA00025247

Generation and Management Answer Sheet

GM

Please enter your RCRA Site ID number and your site name in the box at the right, before making as many two-sided copies of this answer sheet as you will need to report each of your waste streams. Complete one answer sheet for each waste stream that was generated.

Reference the instructions as you complete this form. Please type or print legibly in blue or black ink.

Please Enter:

Your RCRA Site ID Number: ORD096253737 Year: 2006

Site Name: Siltronic Corporation

For DEQ Use Only:

Date Received: _____

A. Description of Hazardous Waste Stream

Sequence Number: 10

A-1. What is your waste stream identification? 382028

A-2. Briefly describe the hazardous waste stream:
Mixed facility lab waste

A-3. Which EPA hazardous waste codes are associated with this waste stream?
D002 D006 D007 D009 D011

A-4. Which Oregon state-only hazardous waste code is associated with this waste stream?

A-5. Which source code best describes the type of process or activity from which this waste stream was generated? G11

A-5.a. If you specified source code G25 in question A-5, please enter the management method code from the on-site hazardous waste management system:

A-5.b. If you specified source code G62 in question A-5, please enter the country of origin from which this waste was received:

A-6. Which form code best corresponds to the physical form or chemical composition of this waste stream? W001

A-7. If there were toxic substances in this waste stream that your facility reported on its 2002 Toxic Chemical Release Inventory (TRI) Reporting Form (Form R), please provide the CAS numbers reported:

A-8. Did this waste stream contain mercury? ☒ Yes ☐ No

A-8.a. If you answered yes to question A-8, please provide a reasonable estimate of the percentage of mercury in this waste stream: 0.30

B. Hazardous Waste Management Activities

B-1. What is the total quantity of this waste stream generated in the reporting year and what is the unit of measure?
Quantity: 29.00 ☒ Pounds ☐ Gallons ☐ Tons ☐ Cubic Yards ☐ Kilograms

B-1.a. If the waste stream is measured in gallons or cubic yards, what is its density?
Density: ☐ Pounds/gallon ☐ Specific gravity ☐ Pounds/cubic yard

B-2. Was the waste stream managed on-site, off-site, or both?
☐ On-site ☒ Off-site ☐ Both

B-3. If all or part of this waste stream was managed on-site, how much was managed on-site and how was it managed?
Quantity: Management Method Code:

B-4. Indicate the quantity of this waste stream that was remaining on-site at the end of the calendar year you are reporting:
0.00

B-5. Indicate the quantity of this waste stream that was carried forward from the previous reporting year: 0.00

SCOEPA00025248

Generation and Management Answer Sheet

GM

ORD096253737 Year: 2006

B-6. Please provide the following information for each off-site shipment of waste:

Shipment_DT	Manifest_NR	Reported_QT	Transporter_ID_NR	Mgmt_System_CD	RCRA_Site_ID_NR
01/24/2006	24542050	8.00	CAD009452657	H010	CAD009452657
07/11/2006	23888541	13.00	CAD009452657	H010	CAD009452657
11/21/2006	1313284	8.00	CAD009452657	H010	CAD009452657

C. Comments

Use the Comments section to provide any additional comments, information or explanations as necessary. In your comments always provide the reference to the specific question number:

SCOEPA00025249

Generation and Management Answer Sheet

GM

Please enter your RCRA Site ID number and your site name in the box at the right, before making as many two-sided copies of this answer sheet as you will need to report each of your waste streams. Complete one answer sheet for each waste stream that was generated.

Reference the instructions as you complete this form. Please type or print legibly in blue or black ink.

Please Enter:

Your RCRA Site ID Number: ORD096253737 Year: 2006

Site Name: Siltronic Corporation

For DEQ Use Only:

Date Received: _____

A. Description of Hazardous Waste Stream

Sequence Number: 11

A-1. What is your waste stream identification? C15124

A-2. Briefly describe the hazardous waste stream:
Investigation derived waste (soil)

A-3. Which EPA hazardous waste codes are associated with this waste stream?
F002

A-4. Which Oregon state-only hazardous waste code is associated with this waste stream?

A-5. Which source code best describes the type of process or activity from which this waste stream was generated? G46

A-5.a. If you specified source code G25 in question A-5, please enter the management method code from the on-site hazardous waste management system:

A-5.b. If you specified source code G62 in question A-5, please enter the country of origin from which this waste was received:

A-6. Which form code best corresponds to the physical form or chemical composition of this waste stream? W409

A-7. If there were toxic substances in this waste stream that your facility reported on its 2002 Toxic Chemical Release Inventory (TRI) Reporting Form (Form R), please provide the CAS numbers reported:

A-8. Did this waste stream contain mercury? ☐ Yes ☒ No

A-8.a. If you answered yes to question A-8, please provide a reasonable estimate of the percentage of mercury in this waste stream: 0.00

B. Hazardous Waste Management Activities

B-1. What is the total quantity of this waste stream generated in the reporting year and what is the unit of measure?

Quantity: 40915.00 ☒ Pounds ☐ Gallons ☐ Tons ☐ Cubic Yards ☐ Kilograms

B-1.a. If the waste stream is measured in gallons or cubic yards, what is its density?

Density: ☐ Pounds/gallon ☐ Specific gravity ☐ Pounds/cubic yard

B-2. Was the waste stream managed on-site, off-site, or both?

☐ On-site ☒ Off-site ☐ Both

B-3. If all or part of this waste stream was managed on-site, how much was managed on-site and how was it managed?

Quantity: Management Method Code:

B-4. Indicate the quantity of this waste stream that was remaining on-site at the end of the calendar year you are reporting:
1325.00

B-5. Indicate the quantity of this waste stream that was carried forward from the previous reporting year: 0.00

SCOEPA00025250

B-6. Please provide the following information for each off-site shipment of waste:

Shipment_DT	Manifest_NR	Reported_QT	Transporter_ID_NR	Mgmt_System_CD	RCRA_Site_ID_NR
05/25/2006	5256	2000.00	CAD009452657	H132	ORD089452353
08/07/2006	26359	31350.00	WAD988479440	H132	ORD089452353
08/08/2006	26360	2250.00	WAD988479440	H132	ORD089452353
10/18/2006	1313227	3990.00	CAD009452657	H132	ORD089452353

C. Comments

Use the Comments section to provide any additional comments, information or explanations as necessary. In your comments always provide the reference to the specific question number:

Soil from drilling operation.

SCOEPA00025251

Generation and Management Answer Sheet

GM

Please enter your RCRA Site ID number and your site name in the box at the right, before making as many two-sided copies of this answer sheet as you will need to report each of your waste streams. Complete one answer sheet for each waste stream that was generated.

Reference the instructions as you complete this form. Please type or print legibly in blue or black ink.

Please Enter:

Your RCRA Site ID Number: ORD096253737 Year: 2006

Site Name: Siltronic Corporation

For DEQ Use Only:

Date Received: _____

A. Description of Hazardous Waste Stream

Sequence Number: 12

A-1. What is your waste stream identification? C14493

A-2. Briefly describe the hazardous waste stream:
Chrome debris

A-3. Which EPA hazardous waste codes are associated with this waste stream?
D007

A-4. Which Oregon state-only hazardous waste code is associated with this waste stream?

A-5. Which source code best describes the type of process or activity from which this waste stream was generated? G04

A-5.a. If you specified source code G25 in question A-5, please enter the management method code from the on-site hazardous waste management system:

A-5.b. If you specified source code G62 in question A-5, please enter the country of origin from which this waste was received:

A-6. Which form code best corresponds to the physical form or chemical composition of this waste stream? W002

A-7. If there were toxic substances in this waste stream that your facility reported on its 2002 Toxic Chemical Release Inventory (TRI) Reporting Form (Form R), please provide the CAS numbers reported:

A-8. Did this waste stream contain mercury? ☐ Yes ☒ No

A-8.a. If you answered yes to question A-8, please provide a reasonable estimate of the percentage of mercury in this waste stream: 0.00

B. Hazardous Waste Management Activities

B-1. What is the total quantity of this waste stream generated in the reporting year and what is the unit of measure?

Quantity: 300.00 ☒ Pounds ☐ Gallons ☐ Tons ☐ Cubic Yards ☐ Kilograms

B-1.a. If the waste stream is measured in gallons or cubic yards, what is its density?

Density: ☐ Pounds/gallon ☐ Specific gravity ☐ Pounds/cubic yard

B-2. Was the waste stream managed on-site, off-site, or both?

☐ On-site ☒ Off-site ☐ Both

B-3. If all or part of this waste stream was managed on-site, how much was managed on-site and how was it managed?

Quantity: Management Method Code:

B-4. Indicate the quantity of this waste stream that was remaining on-site at the end of the calendar year you are reporting:
0.00

B-5. Indicate the quantity of this waste stream that was carried forward from the previous reporting year: 0.00

SCOEPA00025252

Generation and Management Answer Sheet

GM

ORD096253737 Year: 2006

B-6. Please provide the following information for each off-site shipment of waste:

Shipment_DT	Manifest_NR	Reported_QT	Transporter_ID_NR	Mgmt_System_CD	RCRA_Site_ID_NR
05/25/2006	5256	200.00	CAD009452657	H132	ORD089452353
09/07/2006	1314591	100.00	CAD009452657	H132	ORD089452353

C. Comments

Use the Comments section to provide any additional comments, information or explanations as necessary. In your comments always provide the reference to the specific question number:

SCOEPA00025253

Generation and Management Answer Sheet

GM

Please enter your RCRA Site ID number and your site name in the box at the right, before making as many two-sided copies of this answer sheet as you will need to report each of your waste streams. Complete one answer sheet for each waste stream that was generated.

Reference the instructions as you complete this form. Please type or print legibly in blue or black ink.

Please Enter:

Your RCRA Site ID Number: ORD096253737 Year: 2006

Site Name: Siltronic Corporation

For DEQ Use Only:

Date Received: _____

A. Description of Hazardous Waste Stream

Sequence Number: 13

A-1. What is your waste stream identification? CW1447

A-2. Briefly describe the hazardous waste stream:
Investigation derived waste (PPE)

A-3. Which EPA hazardous waste codes are associated with this waste stream?
F002

A-4. Which Oregon state-only hazardous waste code is associated with this waste stream?

A-5. Which source code best describes the type of process or activity from which this waste stream was generated? G46

A-5.a. If you specified source code G25 in question A-5, please enter the management method code from the on-site hazardous waste management system:

A-5.b. If you specified source code G62 in question A-5, please enter the country of origin from which this waste was received:

A-6. Which form code best corresponds to the physical form or chemical composition of this waste stream? W002

A-7. If there were toxic substances in this waste stream that your facility reported on its 2002 Toxic Chemical Release Inventory (TRI) Reporting Form (Form R), please provide the CAS numbers reported:

A-8. Did this waste stream contain mercury? ☐ Yes ☒ No

A-8.a. If you answered yes to question A-8, please provide a reasonable estimate of the percentage of mercury in this waste stream: 0.00

B. Hazardous Waste Management Activities

B-1. What is the total quantity of this waste stream generated in the reporting year and what is the unit of measure?

Quantity: 330.00 ☒ Pounds ☐ Gallons ☐ Tons ☐ Cubic Yards ☐ Kilograms

B-1.a. If the waste stream is measured in gallons or cubic yards, what is its density?

Density: ☐ Pounds/gallon ☐ Specific gravity ☐ Pounds/cubic yard

B-2. Was the waste stream managed on-site, off-site, or both?

☐ On-site ☒ Off-site ☐ Both

B-3. If all or part of this waste stream was managed on-site, how much was managed on-site and how was it managed?

Quantity: Management Method Code:

B-4. Indicate the quantity of this waste stream that was remaining on-site at the end of the calendar year you are reporting:
25.00

B-5. Indicate the quantity of this waste stream that was carried forward from the previous reporting year: 20.00

SCOEPA00025254

Generation and Management Answer Sheet

GM

ORD096253737 Year: 2006

B-6. Please provide the following information for each off-site shipment of waste:

Shipment_DT	Manifest_NR	Reported_QT	Transporter_ID_NR	Mgmt_System_CD	RCRA_Site_ID_NR
03/16/2006	3166	20.00	CAD009452657	H132	ORD089452353
05/25/2006	5256	125.00	CAD009452657	H132	ORD089452353
09/07/2006	1314591	50.00	CAD009452657	H132	ORD089452353
10/18/2006	1313227	30.00	CAD009452657	H132	ORD089452353
11/21/2006	1313283	100.00	CAD009452657	H132	ORD089452353

C. Comments

Use the Comments section to provide any additional comments, information or explanations as necessary. In your comments always provide the reference to the specific question number:

SCOEPA00025255

Generation and Management Answer Sheet

GM

Please enter your RCRA Site ID number and your site name in the box at the right, before making as many two-sided copies of this answer sheet as you will need to report each of your waste streams. Complete one answer sheet for each waste stream that was generated.

Reference the instructions as you complete this form. Please type or print legibly in blue or black ink.

Please Enter:

Your RCRA Site ID Number: ORD096253737 Year: 2006

Site Name: Siltronic Corporation

For DEQ Use Only:

Date Received: _____

A. Description of Hazardous Waste Stream

Sequence Number: 14

A-1. What is your waste stream identification? 383389

A-2. Briefly describe the hazardous waste stream:
Geoprobe decon water

A-3. Which EPA hazardous waste codes are associated with this waste stream?
D018 D040 D043

A-4. Which Oregon state-only hazardous waste code is associated with this waste stream?

A-5. Which source code best describes the type of process or activity from which this waste stream was generated? G46

A-5.a. If you specified source code G25 in question A-5, please enter the management method code from the on-site hazardous waste management system:

A-5.b. If you specified source code G62 in question A-5, please enter the country of origin from which this waste was received:

A-6. Which form code best corresponds to the physical form or chemical composition of this waste stream? W101

A-7. If there were toxic substances in this waste stream that your facility reported on its 2002 Toxic Chemical Release Inventory (TRI) Reporting Form (Form R), please provide the CAS numbers reported:

A-8. Did this waste stream contain mercury? ☐ Yes ☒ No

A-8.a. If you answered yes to question A-8, please provide a reasonable estimate of the percentage of mercury in this waste stream: 0.00

B. Hazardous Waste Management Activities

B-1. What is the total quantity of this waste stream generated in the reporting year and what is the unit of measure?
Quantity: 300.00 ☐ Pounds ☒ Gallons ☐ Tons ☐ Cubic Yards ☐ Kilograms

B-1.a. If the waste stream is measured in gallons or cubic yards, what is its density?
Density: 1.00 ☐ Pounds/gallon ☒ Specific gravity ☐ Pounds/cubic yard

B-2. Was the waste stream managed on-site, off-site, or both?
☐ On-site ☒ Off-site ☐ Both

B-3. If all or part of this waste stream was managed on-site, how much was managed on-site and how was it managed?
Quantity: Management Method Code:

B-4. Indicate the quantity of this waste stream that was remaining on-site at the end of the calendar year you are reporting:
0.00

B-5. Indicate the quantity of this waste stream that was carried forward from the previous reporting year: 0.00

SCOEPA00025256

Generation and Management Answer Sheet

GM

ORD096253737 Year: 2006

B-6. Please provide the following information for each off-site shipment of waste:

Shipment_DT	Manifest_NR	Reported_QT	Transporter_ID_NR	Mgmt_System_CD	RCRA_Site_ID_NR
07/07/2006	23888541	200.00	CAD009452657	H020	CAD009452657
10/18/2006	1313228	100.00	CAD009452657	H020	CAD009452657

C. Comments

Use the Comments section to provide any additional comments, information or explanations as necessary. In your comments always provide the reference to the specific question number:

SCOEPA00025257

Generation and Management Answer Sheet

GM

Please enter your RCRA Site ID number and your site name in the box at the right, before making as many two-sided copies of this answer sheet as you will need to report each of your waste streams. Complete one answer sheet for each waste stream that was generated.

Reference the instructions as you complete this form. Please type or print legibly in blue or black ink.

Please Enter:

Your RCRA Site ID Number: ORD096253737 Year: 2006

Site Name: Siltronic Corporation

For DEQ Use Only:

Date Received: _____

A. Description of Hazardous Waste Stream

Sequence Number: 15

A-1. What is your waste stream identification? 382384

A-2. Briefly describe the hazardous waste stream:
Investigation derived waste (water w/ benzene)

A-3. Which EPA hazardous waste codes are associated with this waste stream?
F002

A-4. Which Oregon state-only hazardous waste code is associated with this waste stream?

A-5. Which source code best describes the type of process or activity from which this waste stream was generated? G46

A-5.a. If you specified source code G25 in question A-5, please enter the management method code from the on-site hazardous waste management system:

A-5.b. If you specified source code G62 in question A-5, please enter the country of origin from which this waste was received:

A-6. Which form code best corresponds to the physical form or chemical composition of this waste stream? W101

A-7. If there were toxic substances in this waste stream that your facility reported on its 2002 Toxic Chemical Release Inventory (TRI) Reporting Form (Form R), please provide the CAS numbers reported:

A-8. Did this waste stream contain mercury? ☐ Yes ☒ No

A-8.a. If you answered yes to question A-8, please provide a reasonable estimate of the percentage of mercury in this waste stream: 0.00

B. Hazardous Waste Management Activities

B-1. What is the total quantity of this waste stream generated in the reporting year and what is the unit of measure?

Quantity: 4968.00 ☒ Pounds ☐ Gallons ☐ Tons ☐ Cubic Yards ☐ Kilograms

B-1.a. If the waste stream is measured in gallons or cubic yards, what is its density?

Density: ☐ Pounds/gallon ☐ Specific gravity ☐ Pounds/cubic yard

B-2. Was the waste stream managed on-site, off-site, or both?

☐ On-site ☒ Off-site ☐ Both

B-3. If all or part of this waste stream was managed on-site, how much was managed on-site and how was it managed?

Quantity: Management Method Code:

B-4. Indicate the quantity of this waste stream that was remaining on-site at the end of the calendar year you are reporting:
584.00

B-5. Indicate the quantity of this waste stream that was carried forward from the previous reporting year: 10.00

SCOEPA00025258

Generation and Management Answer Sheet

GM

ORD096253737 Year: 2006

B-6. Please provide the following information for each off-site shipment of waste:

Shipment_DT	Manifest_NR	Reported_QT	Transporter_ID_NR	Mgmt_System_CD	RCRA_Site_ID_NR
03/07/2006	24542158	417.00	CAD009452657	H020	CAD009452657
05/25/2006	23888430	2600.00	CAD009452657	H020	CAD009452657
09/07/2006	1313097	1377.00	CAD009452657	H020	CAD009452657

C. Comments

Use the Comments section to provide any additional comments, information or explanations as necessary. In your comments always provide the reference to the specific question number:

SCOEPA00025259

Generation and Management Answer Sheet

GM

Please enter your RCRA Site ID number and your site name in the box at the right, before making as many two-sided copies of this answer sheet as you will need to report each of your waste streams. Complete one answer sheet for each waste stream that was generated.

Reference the instructions as you complete this form. Please type or print legibly in blue or black ink.

Please Enter:

Your RCRA Site ID Number: ORD096253737 Year: 2006

Site Name: Siltronic Corporation

For DEQ Use Only:

Date Received: _____

A. Description of Hazardous Waste Stream

Sequence Number: 16

A-1. What is your waste stream identification?

A-2. Briefly describe the hazardous waste stream:
RCRA exempt waste water (CAD) comprised of hydrofluoric acid, nitric acid

A-3. Which EPA hazardous waste codes are associated with this waste stream?
D002

A-4. Which Oregon state-only hazardous waste code is associated with this waste stream?

A-5. Which source code best describes the type of process or activity from which this waste stream was generated? G04

A-5.a. If you specified source code G25 in question A-5, please enter the management method code from the on-site hazardous waste management system:

A-5.b. If you specified source code G62 in question A-5, please enter the country of origin from which this waste was received:

A-6. Which form code best corresponds to the physical form or chemical composition of this waste stream? W105

A-7. If there were toxic substances in this waste stream that your facility reported on its 2002 Toxic Chemical Release Inventory (TRI) Reporting Form (Form R), please provide the CAS numbers reported:

A-8. Did this waste stream contain mercury? ☐ Yes ☒ No

A-8.a. If you answered yes to question A-8, please provide a reasonable estimate of the percentage of mercury in this waste stream: 0.00

B. Hazardous Waste Management Activities

B-1. What is the total quantity of this waste stream generated in the reporting year and what is the unit of measure?

Quantity: 68500000.00 ☐ Pounds ☒ Gallons ☐ Tons ☐ Cubic Yards ☐ Kilograms

B-1.a. If the waste stream is measured in gallons or cubic yards, what is its density?

Density: 1.00 ☐ Pounds/gallon ☒ Specific gravity ☐ Pounds/cubic yard

B-2. Was the waste stream managed on-site, off-site, or both?

☒ On-site ☐ Off-site ☐ Both

B-3. If all or part of this waste stream was managed on-site, how much was managed on-site and how was it managed?

Quantity: 68500000.00 Management Method Code: H136

B-4. Indicate the quantity of this waste stream that was remaining on-site at the end of the calendar year you are reporting:
0.00

B-5. Indicate the quantity of this waste stream that was carried forward from the previous reporting year: 0.00

SCOEPA00025260

B-6. Please provide the following information for each off-site shipment of waste:

Shipment_DT	Manifest_NR	Reported_QT	Transporter_ID_NR	Mgmt_System_CD	RCRA_Site_ID_NR

C. Comments

Use the Comments section to provide any additional comments, information or explanations as necessary. In your comments always provide the reference to the specific question number:

SCOEPA00025261

Generation and Management Answer Sheet

GM

Please enter your RCRA Site ID number and your site name in the box at the right, before making as many two-sided copies of this answer sheet as you will need to report each of your waste streams. Complete one answer sheet for each waste stream that was generated.

Reference the instructions as you complete this form. Please type or print legibly in blue or black ink.

Please Enter:

Your RCRA Site ID Number: ORD096253737 Year: 2006

Site Name: Siltronic Corporation

For DEQ Use Only:

Date Received: _____

A. Description of Hazardous Waste Stream

Sequence Number: 17

A-1. What is your waste stream identification?

A-2. Briefly describe the hazardous waste stream:
RCRA exempt wastewater (CCD) comprised of sodium hydroxide and potassium hy

A-3. Which EPA hazardous waste codes are associated with this waste stream?
D002

A-4. Which Oregon state-only hazardous waste code is associated with this waste stream?

A-5. Which source code best describes the type of process or activity from which this waste stream was generated? G02

A-5.a. If you specified source code G25 in question A-5, please enter the management method code from the on-site hazardous waste management system:

A-5.b. If you specified source code G62 in question A-5, please enter the country of origin from which this waste was received:

A-6. Which form code best corresponds to the physical form or chemical composition of this waste stream? W110

A-7. If there were toxic substances in this waste stream that your facility reported on its 2002 Toxic Chemical Release Inventory (TRI) Reporting Form (Form R), please provide the CAS numbers reported:

A-8. Did this waste stream contain mercury? ☐ Yes ☒ No

A-8.a. If you answered yes to question A-8, please provide a reasonable estimate of the percentage of mercury in this waste stream: 0.00

B. Hazardous Waste Management Activities

B-1. What is the total quantity of this waste stream generated in the reporting year and what is the unit of measure?

Quantity: 68700.00 ☐ Pounds ☒ Gallons ☐ Tons ☐ Cubic Yards ☐ Kilograms

B-1.a. If the waste stream is measured in gallons or cubic yards, what is its density?

Density: 1.00 ☐ Pounds/gallon ☒ Specific gravity ☐ Pounds/cubic yard

B-2. Was the waste stream managed on-site, off-site, or both?

☒ On-site ☐ Off-site ☐ Both

B-3. If all or part of this waste stream was managed on-site, how much was managed on-site and how was it managed?

Quantity: 68700.00 Management Method Code: H136

B-4. Indicate the quantity of this waste stream that was remaining on-site at the end of the calendar year you are reporting:
0.00

B-5. Indicate the quantity of this waste stream that was carried forward from the previous reporting year: 0.00

SCOEPA00025262

B-6. Please provide the following information for each off-site shipment of waste:

Shipment_DT	Manifest_NR	Reported_QT	Transporter_ID_NR	Mgmt_System_CD	RCRA_Site_ID_NR

C. Comments

Use the Comments section to provide any additional comments, information or explanations as necessary. In your comments always provide the reference to the specific question number:

SCOEPA00025263

Off-Site Identification Form

OI

Please enter your RCRA Site ID number and your site name in the box at the right, before making as many two-sided copies of this answer sheet as you will need to report each of your off-site identification facilities.

Please complete this form if your facility received hazardous waste from off-site or shipped hazardous waste off-site during the year.

Please type or print legibly in blue or black ink.

Please Enter:
Your RCRA Site ID Number: ORD096253737
Site Name: Siltronic Corporation

For DEQ Use Only:
Date Received: _____

RCRA Site ID Number: WAR000001743
Name: BURLINGTON ENVIRONMENTAL INC DBA PHILIP
Address: 1629 ALEXANDER AVE
City/State/Zip/Country: TACOMA, WA 98421 UNITED STATES
Comments:
Handler Type: (Check all that apply) ☐ Generator ☒ Transporter ☐ TSD

RCRA Site ID Number: WAD991281767
Name: BURLINGTON ENVIRONMENTAL INC KENT
Address: 20245 77TH AVE S
City/State/Zip/Country: KENT, WA 980321386 UNITED STATES
Comments:
Handler Type: (Check all that apply) ☐ Generator ☐ Transporter ☒ TSD

RCRA Site ID Number: CAD009452657
Name: ROMIC ENVIRONMENTAL TECHNOLOGIES CORP
Address: 2081 BAY RD
City/State/Zip/Country: EAST PALO ALTO, CA 943031316 UNITED STATES
Comments:
Handler Type: (Check all that apply) ☐ Generator ☒ Transporter ☒ TSD

RCRA Site ID Number: AZD009015389
Name: ROMIC ENVIRONMENTAL TECHNOLOGIES INC
Address: 6760 W ALLISON RD
City/State/Zip/Country: CHANDLER, AZ 852269705 UNITED STATES
Comments:
Handler Type: (Check all that apply) ☐ Generator ☐ Transporter ☒ TSD

RCRA Site ID Number: ORD089452353
Name: CHEMICAL WASTE MANAGEMENT OF THE NW
Address: 17629 CEDAR SPRINGS LN
City/State/Zip/Country: ARLINGTON, OR 97812 UNITED STATES
Comments:
Handler Type: (Check all that apply) ☐ Generator ☐ Transporter ☒ TSD

SCOEPA00025264

Off-Site Identification Form (continued)

01

RCRA Site ID Number: ORD096253737

RCRA Site ID Number: WAD988479440

Name: WEST COAST MARINE CLEANING INC

Address: 455 C ST

City/State/Zip/Country: WASHOUGAL, WA 98671 UNITED STATES

Comments:

Handler Type: (Check all that apply) ☐ Generator ☒ Transporter ☐ TSD

SCOEPA00025265

PERMIT NAME/ADDRESS (Include Facility Name/Location/Different)

NAME Siltronic Corporation Site ID 93450

ADDRESS 7200 NW Front Ave.
Portland, OR 97210-3676

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16)	(17-19)
101128	Outfall 001
PERMIT NUMBER	DISCHARGE NUMBER

Form Approved.
OMB No. 2040-0004
Approval expires 10-31-94

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	2007	1	1	TO	2007	1	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Process Waste Water Flow	SAMPLE MEASUREMENT	3,405	3,839	M^3/day	--	--	--	--		Continuous totalizing recorder	
	PERMIT REQUIREMENT	--	--		--	--	--				
BOD	SAMPLE MEASUREMENT	19.4	41.2	Kg/day	--	5.6	11.6	mg/l		1/ 7	24HC
	PERMIT REQUIREMENT	154	342		--	15	30				
TSS	SAMPLE MEASUREMENT	16.6	19.2	Kg/day	--	4.8	5.4	mg/l		1/ 7	24HC
	PERMIT REQUIREMENT	236	695		--	23	61				
Cr^{+6} (1)	SAMPLE MEASUREMENT			Kg/day	--			mg/l			
	PERMIT REQUIREMENT	0.05	0.12		--	0.02	0.05				
Cr^{Total}	SAMPLE MEASUREMENT	<0.004	0.004	Kg/day	--	<0.001	0.001	mg/l		1/ 7	24HC
	PERMIT REQUIREMENT	0.2	0.6		--	0.3	1.0				
Fluoride	SAMPLE MEASUREMENT	17.5	22.4	Kg/day	--	5.1	6.3	mg/l		1/ 7	24HC
	PERMIT REQUIREMENT	178	365		--	17.4	32				
Total Phosphate	SAMPLE MEASUREMENT	--	--	--	--	0.1	0.2	mg/l		1/ 7	24HC
	PERMIT REQUIREMENT	--	--		--	10	15				

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Tom McCue
Environmental Manager

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10000 and/or maximum imprisonment of between 6 months and 5 years.)

Siltronic Corp. by: Kevin Sail

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
503	243-2020	07	2	7
AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) Chrome batches are no longer being treated on site. pH Excursion: None

KLL:008

SCOEPA00025266

PERMITTEE NAME/ADDRESS (Include Facility Name/Location/Agent)

NAME Siltronic Corporation Site ID 93450

ADDRESS 7200 NW Front Ave.
Portland, OR 97210-3676

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16)	(17-19)
101128	Outfall 001
PERMIT NUMBER	DISCHARGE NUMBER

Form Approved.
OMB No. 2040-0004
Approval expires 10-31-94

MONITORING PERIOD

FROM YEAR	MO	DAY	TO YEAR	MO	DAY
2007	1	1	2007	1	31
(20-21)	(22-23)	(24-25)	(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
TTO	SAMPLE MEASUREMENT	--	--	Kg/day	--	--	<0.02	mg/l		1/ 30	Grab
	PERMIT REQUIREMENT	--	--		--	--	1.37				
Turbidity	SAMPLE MEASUREMENT					2.2	3.8	NTC		6/1	Grab
	PERMIT REQUIREMENT									One sample every 4 hours	
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Tom McCue
Environmental Manager

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and/or imprisonment of between 6 months and 5 years.)

Siltronic Corp. by:

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
503	243-2020	07	2	7
AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

SCOEPA00025267

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
NAME: Siltronic Corporation Site ID 93450
ADDRESS: 7200 NW Front Ave.
Portland, OR 97210-3676
FACILITY
LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16) PERMIT NUMBER	(17-18) DISCHARGE NUMBER
101128	Outfall 002

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	2007	1	1	TO	2007	1	31
	(19-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

Form Approved.
OMB No. 2040-0004
Approval expires 10-31-94

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
MV-3 Flow	SAMPLE MEASUREMENT	845	6,530	M^3/day	--	--	--	--		Continuous	
	PERMIT REQUIREMENT	--	--		--	--	--				
MV-3 Total phosphates	SAMPLE MEASUREMENT	--	--	--	--	0.1	0.3	mg/l		1/ 7	Grab
	PERMIT REQUIREMENT	--	--		--	10	15				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
Tom McCue
Environmental Manager
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 [illegible]

Siltronic Corp. by:
Koren Lail
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 503 | NUMBER 243-2020

DATE: YEAR 07 | MO 2 | DAY 7

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

SCOEPA00025268

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)
NAME: Siltronic Corporation Site ID 93450
ADDRESS: 7200 NW Front Ave.
Portland, OR 97210-3676
FACILITY
LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16) PERMIT NUMBER	(17-19) DISCHARGE NUMBER
101128	Outfall 003

MONITORING PERIOD

	YEAR (20-21)	MO (22-23)	DAY (24-25)		YEAR (26-27)	MO (28-29)	DAY (30-31)
FROM	2007	1	1	TO	2007	1	31

Form Approved.
OMB No. 2040-0004
Approval expires 10-31-04

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	MAXIMUM	UNITS	(3 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	AVERAGE	MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Outfall flow	SAMPLE MEASUREMENT	4,250	9,657	M^3/day	--	--	--	--		Continuous	
	PERMIT REQUIREMENT	--	--		--	--	--				
Outfall temperature	SAMPLE MEASUREMENT	--	--	--	--	--	74.2	°F		1/ 7	Grab
	PERMIT REQUIREMENT	--	--		--	--	85				
Outfall pH	SAMPLE MEASUREMENT	--	--	--	6.22	7.47	8.46			Continuous	
	PERMIT REQUIREMENT	--	--		6.0	--	9.0				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
Tom McCue
Environmental Manager
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and up to maximum imprisonment of between 6 months and 5 years).

Siltronic Corp. by:
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 503 NUMBER 243-2020

DATE: YEAR 07 MO 2 DAY 7

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

SCOEPA00025269

SUPPLEMENTAL DATA

Siltronic Corporation Site ID 93450
7200 NW Front Avenue
Portland, Oregon 97210-3676

Permit Number: 101128
Discharge Number: Outfall 003
January 2007 Discharge Data

Date	BOD mg/L	TSS mg/L	Fluoride mg/L	Phosphate mg/L	Total Chromium mg/L
1/4/07	11.6	5.4	6.30	0.211	0.00106
1/11/07	**2.0**	3.6	4.00	0.061	**0.0005**
1/18/07	4.3	5.0	4.71	0.107	**0.0005**
1/25/07	4.5	5.3	5.25	0.108	**0.0005**

DAILY FLOW'S	
Day	M G D
1	0.986
2	0.888
3	0.963
4	0.939
5	0.920
6	0.847
7	0.938
8	0.940
9	0.943
10	0.937
11	0.982
12	0.878
13	0.882
14	0.903
15	0.876
16	0.832
17	0.830
18	0.873
19	1.014
20	0.826
21	0.919
22	0.817
23	0.888
24	0.846
25	0.856
26	0.830
27	0.876
28	0.870
29	0.932
30	0.952
31	0.903
Total:	27.886

Turbidity Avg	
Day	NTU's
1	2.5
2	2.1
3	2.4
4	2.3
5	2.3
6	2.0
7	1.9
8	2.2
9	3.0
10	2.5
11	1.6
12	1.8
13	2.4
14	2.9
15	3.1
16	2.2
17	2.1
18	2.7
19	2.5
20	2.2
21	2.2
22	2.0
23	2.1
24	2.7
25	2.8
26	2.5
27	1.7
28	1.6
29	1.6
30	1.1
31	1.0

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perfect silicon solutions

Koreen Lail
Environmental Engineer

Siltronic Corporation
7200 NW Front Avenue, M/S 30
Portland OR 97210-3676, USA
Tel. 503-219-7994
Fax 503-219-7599
koreen.lail@siltronic.com

Brian Laurent
Bureau of Environmental Services
City of Portland
6543 N. Burlington Avenue
Portland, Oregon 97203-5452

ER: 007.KLL

February 7, 2007

January 2007 Industrial Discharge Report

Dear Mr. Laurent,

Enclosed is the January 2007 monthly Industrial Discharge Reports for Siltronic Corporation Municipal Discharge Permit Number 469.001. Siltronic has operated in compliance with the Permit for this reporting period.

If you have any questions, please contact Koreen Lail.

Regards,
Siltronic Corporation

Koreen Lail
Environmental Engineer

Enclosures:
Special Account Meter Report Document
Industrial Wastewater Discharge Self-Monitoring Report

cc: Tom Rothschild
POTW-IDR File

CITY OF PORTLAND
INDUSTRIAL WASTEWATER DISCHARGE
SELF-MONITORING REPORT

INDUSTRY NAME: Siltronic Corporation

PERMIT NUMBER: 469.001

REPORT DUE DATE: 6 February 2007

SAMPLING PERIOD: January 2007

For Industrial Source Control Division Use Only	
Date Postmarked/Received	Date Entered
	Entered By:
Comments:	

pH GRAB SAMPLE - EPA METHOD 150.1

POINT OF COMPLIANCE	pH METER BRAND	pH METER MODEL	pH Discharge Limits
#1B (Fab 2)	Orion	720A	5.0 - 11.5 S.U.

Date of Sample	Time of Sample	Reported pH Value	Violation? (circle one)		pH Meter Calibration Date	pH Meter Calibration Buffer used	COMMENTS
26 January 2007	1300	10.1SU	YES	(NO)	26 January 2007	7.0 and 10.0	

CONTINUOUSLY MONITORED pH - EPA METHOD 150.2

POINT OF COMPLIANCE	pH METER BRAND	pH METER MODEL	pH Limit
#1B (Fab 2)	Foxboro	873	5.0 - 11.5 S.U.

DATE	STARTING TIME (military time)	MOST EXTREME pH EXCURSION	DURATION (minutes)	VIOLATION? (circle one)		COMMENTS
No Excursions				YES	NO	
				YES	NO	
				YES	NO	
				YES	NO	

Instructions: Industrial Source Control Division (ISCD) must be notified of all discharge violations within 24 hours of your knowledge of the violation. Report all pH excursions on this form and circle YES if they are a violation. Include any appropriate comments in the Comment column regarding the nature of the excursion. Attach supporting data or explanations to this report. You are also required to document corrective actions you have taken in response to the excursion.

Violations:
1. pH excursions outside the range of 5.0 - 11.5 SU for a total duration of more than 15 minutes in any 24 hour period.
2. pH excursions less than or equal to 4.5 SU or greater than or equal to 12.5 SU regardless of duration.

Non-Violations: You may contend an excursion does not represent a pH discharge violation if it does not meet the criteria listed above. Circle NO in the VIOLATION? Column and include a copy of the pH log or pH chart recording showing the excursion. The final violation status of the excursion will be determined by the ISCD.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: Karen Laird Date: 2/7/2007

N:\Environmental\FACLAB\WWTP\BES Monthly Reports\Monthly\January 2007.doc

4640175004
SUSC SILTRONICS OWW & MV2
C. Justin Darr
243-2020 x7131

Siltronic Corporation
PO Box 83180
Portland, Oregon 97283-0180

SPECIAL ACCOUNT METER REPORT DOCUMENT

January-07

1. OWW DISCHARGE

ACTUAL READINGS

	FAB 1	FAB 2	
PAST READING	109367	784,591	100s of GALLONS)
CURRENT READING	109367	980,282	100s of GALLONS)
CONSUMPTION	0	195,691	100s of GALLONS)
TOTAL THROUGH OVERFLOW LINE	0		(100s of GALLONS)
TOTAL CONSUMPTION	1,956,910		10s of GALLONS)

READINGS CONVERTED TO CUBIC FEET

CONSUMPTION	1,956,910	* 10 GAL / 7.48 GAL/CF =	2,616,190 CF
TOTAL THRU' OVERFLOW LINE	0	* 10 GAL / 7.48 GAL/CF =	0 CF
TOTAL CONSUMPTION			2,616,190 CF

2. METER VAULT #2 (Sanitary)

ACTUAL READINGS

PAST READING	2,311,756	(10s of GALLONS)
CURRENT READING	2,366,626	(10s of GALLONS)
CONSUMPTION	54,870	(10s of GALLONS)

READINGS CONVERTED TO CUBIC FEET

CONSUMPTION	54,870	* 10 GAL / 7.48 GAL/CF=	73,356 CF

This meter reading was reported by: C. Justin Darr on 2/6/2007
C. Justin Darr date

Sent to: Bureau of Enviromental Services City of Portland
Water Pollution Control Lab, Attn: Tim Dean
6543 N Burlington Avenue, Portland, Oregon 97203-5452

SCOEPA00025273

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Myron Burr
Environmental Engineer
Siltronic Corporation
7200 NW Front Avenue, MS-30
Portland OR 97210-3676, USA
Tel. 503-219-7832
Fax 503-219-7599
myron.burr@siltronic.com

Mr. Greg Grunow
Department of Environmental Quality
Northwest Region
2020 SW Fourth Avenue, Suite 400
Portland, OR 97201-4987

February 5, 2007 ER006:MB

Subject: Scrubber Reading
ACDP No. 26-3002

Dear Greg:

This letter constitutes notification that due to a scheduled maintenance outage on process equipment serviced by our acid fume scrubber, one of the two readings per day was not recorded on this scrubber in January. Please note that the scrubber was down during this period since no acid fumes were being generated.

If you have any questions, please feel free to call me.

Very truly yours,

SILTRONIC COPRORATION

Myron Burr
Environmental Engineer

Cc; 2007 Correspondence file

SENDER: COMPLETE THIS SECTION

- ☐ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- ☐ Print your name and address on the reverse so that we can return the card to you.
- ☐ Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Oregon DEQ
NW Region
2020 SW 4th Ave, Ste. 400
Portland, OR 97201-
4987

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X DEQ/NWR ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* | C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☒ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? *(Extra Fee)* ☐ Yes

2. Article Number
(Transfer from service label) 7002 3150 0005 9680 8020

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SCOEPA00025275

UNITED STATES POSTAL SERVICE

First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

• Sender: Please print your name, address, and ZIP+4 in this box •

MYRON BURR
Siltronic Corporation
7200 NW Front ave.
Portland, OR 97210

(scrubber notice)

Thomas C. McCue
Manager, Environmental Affairs
Siltronic Corporation
7200 NW Front Avenue, MS-30
Portland OR 97210-3676, USA
Tel. 503-219-7532
Fax 503-219-7599
tom.mccue@siltronic.com

Department of Environmental Quality
Northwest Region
2020 SW Fourth Avenue, Suite 400
Portland, OR 97201-4987

February 15, 2007 ER005:MB

Subject: 2006 Air Emissions Report
ACDP No. 26-3002

Enclosed are two copies of the Annual Report for Siltronic Corporation required under our Air Contaminant Discharge Permit (ACDP). The Report of Excess Emissions is included in the body of the Annual Report.

If you have any questions, please me at 503-219-7832.

Very truly yours,

SILTRONIC COPRORATION

Myron Burr, P.E.
Environmental Engineer

Cc;
2006 Air Report file
2007 Correspondence file

Siltronic Corporation
Annual Report for 2006
ACDP No. 26-3002

a. Operating Parameters

i. Acid scrubbing system highest and lowest pH values

	Highest	Date	Lowest	Date
Acid fume scrubber	9.4	3/14/2006	7.0	1/16/2006
Section 8 scrubber	7.8	6/6/2006	6.0	1/2/2006
Epi scrubber	9.8	4/30/2006	6.3	4/19/2006
HPM scrubber	9.9	2/16/2006	3.1	5/8/2006
NOx scrubber	10.9	2/2/2006	8.8	2/1/2006

ii. NOx scrubber highest and lowest ORP values

Highest	Date	Lowest	Date
-42	4/15/2006	-342	5/17/2006

iii. Summary of exceedances of the normal ranges established for scrubber operations

The NOx ORP was low 5 times in February. The ORP probe was cleaned and calibrated. There was foaming in one of the tanks which was controlled with Anti-foam. The control logic was researched for the cause of the low ORP readings. Determined the low readings may be due to over-feeding of treatment chemical. Tested system for balance of chemical feed rates. Adjusted pH settings to better control chemical feed. Emissions were also normal during this period.

The pH of 3.1 on 5/8/06 for the HPM scrubber was due to running out of treatment chemical. Secured additional treatment chemical.

The low NOx scrubber ORP value of -342 on 5/17/06 and other low readings from 5/21/06 to 5/24/06 were due to over-feeding of treatment chemical. The controls and feed rate were researched and adjusted. Emissions were also normal during this period.

A low NOX scrubber ORP reading was observed on 9/10/06. No explanation for variance. Readings before and after were normal. Emissions were also normal during this period.

iv. Estimated percentage of natural gas combusted attributable to the NSPS boilers

58.7%

b. Summary of annual pollutant emissions determined each month

Please see attached table.

SCOEPA00025278

c. Records of all planned and unplanned excess emission events

On 6/18/06 a visible orange plume from the NOx scrubber was observed. Opacity was not determined. This observation was reported to DEQ on 6/18/06.

On 7/14/06 the NOx scrubber emitted an opaque plume due to a process upset. This excess emission was reported to DEQ on 7/14/06.

On 10/17/06 the sodium sulfide pump on the NOx scrubber failed. As a result, a visible but faint plume from the NOx scrubber was observed. This pump was replaced. This observation was reported to DEQ on 10/17/06.

d. Summary of complaints relating to air quality received by the permittee during the year

The above NOx scrubber excess emission which was reported to DEQ on 7/14/06 was also reported by a member of the public to DEQ. DEQ subsequently reported this public report to Siltronic.

e. Permanent changes made in plant process, production levels, and pollution control equipment which affected air contaminant emissions

During 2006, 2 scrubbers discontinued operation. One of the scrubbers serviced a reactor (NC No. 020662) which has been removed from the site. The other scrubber was shutdown due to the elimination of the scrubbed chemical (acetic acid). In adition, 4 epitaxial scrubbers were replaced. (NC No. 021650)

f. Major maintenance performed on pollution control equipment

NOx scrubber:
5/31/06 Cleaned stack flow sensor.
6/7/06 Cleaned columns 1 and 2.
7/24/06 Unplugged duct pressure fitting.
9/28/06 Replaced bearings and belts on Fan A.
9/29/06 Cleaned stack flow sensor.
10/12/06 Cleaned pressure sensing ports.
11/20/06 Cleaned stack flow sensor.
12/13/06 Replaced Fan A, bearings, sheaves and belts.

SCOEPA00025279

2006 Summary of Annual Pollutant Emissions*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PM	1.1	1.1	1.1	1.1	1.1	1.2	1.2	1.1	1.0	1.0	1.0	**1.0**
PM_{10}	1.1	1.1	1.1	1.1	1.1	1.2	1.2	1.1	1.0	1.0	1.0	**1.0**
NOx	15.9	16.0	16.1	16.4	16.9	17.5	18.2	16.8	16.9	17.0	17.1	**16.9**
CO	3.9	3.8	3.9	3.9	3.9	4.1	4.2	3.8	3.8	3.8	3.8	**3.7**
VOC	12.8	12.6	12.5	12.4	12.3	13.0	13.1	13.5	13.6	13.6	14.1	**13.4**
												CY 2006 Annual Totals

*Each number is the annualized emissions, in tons, computed for the 12-consecutive calendar month period ending with the indicated month.

PERMITTEE NAME/ADDRESS (Include Facility Name/Location/Different)

NAME Siltronic Corporation Site ID 93450

ADDRESS 7200 NW Front Ave.
Portland, OR 97210-3676

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16)	(17-19)
101128	Outfall 001
PERMIT NUMBER	DISCHARGE NUMBER

Form Approved.
OMB No. 2040-0004
Approval expires 10-31-94

MONITORING PERIOD

FROM YEAR	MO	DAY	TO YEAR	MO	DAY
2006	12	1	2006	12	31
(20-21)	(22-23)	(24-25)	(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Process Waste Water Flow	SAMPLE MEASUREMENT	3,457	4,013	M^3/day	--	--	--	--		Continuous totalizing recorder	
	PERMIT REQUIREMENT	--	--		--	--	--				
BOD	SAMPLE MEASUREMENT	23.3	29.4	Kg/day	--	7.1	9.0	mg/l		1/ 7	24HC
	PERMIT REQUIREMENT	154	342		--	15	30				
TSS	SAMPLE MEASUREMENT	15.3	18.9	Kg/day	--	4.6	5.7	mg/l		1/ 7	24HC
	PERMIT REQUIREMENT	236	695		--	23	61				
Cr^{+6} (1)	SAMPLE MEASUREMENT			Kg/day	--			mg/l			
	PERMIT REQUIREMENT	0.05	0.12		--	0.02	0.05				
Cr^{Total}	SAMPLE MEASUREMENT	0.004	0.008	Kg/day	--	0.001	0.002	mg/l		1/ 7	24HC
	PERMIT REQUIREMENT	0.2	0.6		--	0.3	1.0				
Fluoride	SAMPLE MEASUREMENT	22.3	25.7	Kg/day	--	6.8	7.9	mg/l		1/ 7	24HC
	PERMIT REQUIREMENT	178	365		--	17.4	32				
Total Phosphate	SAMPLE MEASUREMENT	--	--	--	--	0.2	0.2	mg/l		1/ 7	24HC
	PERMIT REQUIREMENT	--	--		--	10	15				

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Tom McCue
Environmental Manager

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319 (Penalties under these statutes may include fines up to $10,000 and/or imprisonment of between 6 months and 5 years)

Siltronic Corp. By: Koren Jadfe Siltroni

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE AREA CODE	NUMBER	DATE YEAR	MO	DAY
503	243-2020	07	1	10

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) Chrome batches are no longer being treated on site. pH Excursion: None

KLL:004

EPA Form 3320-1 (Rev. 8-88) Previous editions may be used. (REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.)

SCOEPA00025281

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME: Siltronic Corporation Site ID 93450

ADDRESS: 7200 NW Front Ave.
Portland, OR 97210-3676

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-16) PERMIT NUMBER	(17-18) DISCHARGE NUMBER
101128	Outfall 001

MONITORING PERIOD

	YEAR (19-21)	MO (22-23)	DAY (24-25)		YEAR (26-27)	MO (28-29)	DAY (30-31)
FROM	2006	12	1	TO	2006	12	31

Form Approved.
OMB No. 2040-0004
Approval expires 10-31-94

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING			(4 Card Only) QUALITY OR CONCENTRATION				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE (46-53)	MAXIMUM (54-61)	UNITS	MINIMUM (38-45)	AVERAGE (46-53)	MAXIMUM (54-61)	UNITS			
TTO	SAMPLE MEASUREMENT	--	--	Kg/day	--	--	<0.02	mg/l		1/ 30	Grab
	PERMIT REQUIREMENT	--	--		--	--	1.37				
Turbidity	SAMPLE MEASUREMENT					1.9	3.6	NTC		6/1	Grab
	PERMIT REQUIREMENT									One sample every 4 hours	
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Tom McCue
Environmental Manager

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 [illegible]

Siltronic Corp by:

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 503 | NUMBER 243-2020

DATE: YEAR 07 | MO 1 | DAY 10

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

SCOEPA00025282

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)
NAME Siltronic Corporation Site ID 93450
ADDRESS 7200 NW Front Ave.
Portland, OR 97210-3676
FACILITY
LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16) PERMIT NUMBER: 101128
(17-19) DISCHARGE NUMBER: Outfall 002

MONITORING PERIOD
FROM YEAR 2006 MO 12 DAY 1 (20-21) (22-23) (24-25)
TO YEAR 2006 MO 12 DAY 31 (26-27) (28-29) (30-31)

Form Approved.
OMB No. 2040-0004
Approval expires 10-31-94

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
MV-3 Flow	SAMPLE MEASUREMENT	190	625	M^3/day	--	--	--	--		Continuous	
	PERMIT REQUIREMENT	--	--		--	--	--				
MV-3 Total phosphates	SAMPLE MEASUREMENT	--	--	--	--	0.3	0.4	mg/l		1/ 7	Grab
	PERMIT REQUIREMENT	--	--		--	10	15				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
Tom McCue
Environmental Manager
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC 1 001 AND 33 USC 1319 (Penalties under these statutes may include fines up to $10,000 per violation, imprisonment of between 6 months and 5 years,

Siltronic Corp. by
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 503 NUMBER 243-2020

DATE: YEAR 07 MO 1 DAY 10

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

SCOEPA00025283

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)
NAME Siltronic Corporation Site ID 93450
ADDRESS 7200 NW Front Ave.
Portland, OR 97210-3676
FACILITY
LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16) PERMIT NUMBER	(17-18) DISCHARGE NUMBER
101128	Outfall 003

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	2006	12	1	TO	2006	12	31
	(19-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

Form Approved.
OMB No. 2040-0004
Approval expires 10-31-94

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	AVERAGE	MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Outfall flow	SAMPLE MEASUREMENT	3,647	4,202	M^3/day	--	--	--	--		Continuous	
	PERMIT REQUIREMENT	--	--		--	--	--				
Outfall temperature	SAMPLE MEASUREMENT	--	--	--	--	--	74.0	°F		1/ 7	Grab
	PERMIT REQUIREMENT	--	--		--	--	85				
Outfall pH	SAMPLE MEASUREMENT	--	--	--	6.34	7.51	8.09			Continuous	
	PERMIT REQUIREMENT	--	--		6.0	--	9.0				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
Tom McCue
Environmental Manager
TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC 1001 AND 33 USC 1319 (Penalties under these statutes may include fines up to $10,000 per violation, imprisonment of between 6 months and 5 years, or both.)

Siltronic Corp. by:
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 503 NUMBER 243-2020

DATE: YEAR 07 MO 1 DAY 10

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

EPA Form 3320-1 (Rev. 8-83) Previous editions may be used. (REPLACES EPA FORM T-49 WHICH MAY NOT BE USED.)

SCOEPA00025284

siltronic
perfect silicon solutions

Koreen Lail
Environmental Engineer

Siltronic Corporation
7200 NW Front Avenue,
M/S 30
Portland OR 97210-3676,
Tel. 503-219-7994
Fax 503-219-7599
koreen.lail@siltronic.com

Brian Laurent
Bureau of Environmental Services
City of Portland
6543 N. Burlington Avenue
Portland, Oregon 97203-5452

ER: 003.KLL

2007-January-10

December 2006 Industrial Discharge Report

Dear Mr. Laurent,

Enclosed are the December 2006 monthly Industrial Discharge Reports for Siltronic Corporation Municipal Discharge Permit Number 469.001. Also enclosed are the quarterly Industrial Discharge Reports for Siltronic Corporation Municipal Discharge Permit Number 469.001. Siltronic has operated in compliance with the Permit for this reporting period.

Also enclosed you will find the requested report for the higher solids discharge that only occurred on January 1st. (We were planning on discharging for a more extended time but additional totes arrived.) The TSS number for that day's discharge was 319.5 mg/L which was within our permit limits. You will also notice we had an erroneousness result on December 23rd. We were not discharging the higher solids during that time and believe that this higher number was due to a build-up of solids over time on the sample tap. Therefore, we do not believe that his sample is representative of the actual TSS in our discharge at that time.

If you have any questions, please contact Koreen Lail.

Regards,
Siltronic Corporation

Koreen Lail
Environmental Engineer

Enclosures:
Special Account Meter Report Document
Industrial Wastewater Discharge Self-Monitoring Report
OWW Sampling Report

cc: Tom Rothschild
POTW-IDR File

OWW Sampling Report

OWW			
Day	Flow MGD	TSS, mg/L	Type of Sample
12/23/06	0.609	4,692.0	grab
12/24/06	0.579	299.5	grab
12/25/06	0.612	260.5	grab
12/26/06	0.468	282.0	grab
01/02/07	0.570	319.5	composite
01/03/07	0.594	85.0	composite
01/05/07	0.615	103.0	grab (sampler)
01/05/07	0.615	1,079.0	grab (pipe)
01/09/07	0.576	88.0	grab (sampler)
01/09/07	0.576	1,274.0	grab (pipe)

As per our 12/22/06 conversation with Miguel Santana grab samples were initially taken for TSS.
The initial grab samples were taken by a facility operator at a sample tap on the OWW effluent pipe. This sample tap is rarely used and it we believe that the high TSS on 12/23/06 was due to a build up of solids over time in the sample tap.

In order to verify this belief the facilities laboratory has completed two other side by side grab samples. They have found that the pipe sample point has higher TSS results than the sampler grab point. Again, we believe that this higher TSS from the pipe sample point is due to the accumulation of solids at the bottom of the pipe where the sample tap is located.

CITY OF PORTLAND
INDUSTRIAL WASTEWATER DISCHARGE
SELF-MONITORING REPORT

INDUSTRY NAME: Siltronic Corporation

PERMIT NUMBER: 469.001

REPORT DUE DATE: 15 January 2007

SAMPLING PERIOD: December 2006

For Industrial Source Control Division Use Only

Date Postmarked/Received **Date Entered**

Entered By:

Comments:

SAMPLE DATE	POINT OF COMPLIANCE	SAMPLE TYPE
6 December 2006	#1B (Fab 2)	GRAB

PARAMETER	ANALYSIS METHOD	REPORTED CONCENTRATION	MDL	LIMITS DAILY	LIMITS MONTHLY	COMMENTS
TTOs (Volatiles)	EPA 608, 624, 625	<0.02 mg/L	0.02 mg/L	1.37 mg/L	N/A	SEE CERTIFICATION STATEMENT BELOW

SAMPLE DATE	POINT OF COMPLIANCE	SAMPLE TYPE
6 December 2006	#1B (Fab 2)	COMPOSITE

PARAMETER	ANALYSIS METHOD	REPORTED CONCENTRATION	MDL	LIMITS DAILY	LIMITS MONTHLY	COMMENTS
Arsenic (Total)	EPA 200.8	0.005 mg/L	0.001 mg/L	0.2 mg/L	0.83 mg/L	
Total Suspended Solids	SM 2540D	228 mg/L	0.1 mg/L	N/A	N/A	

Based on my inquiry of the person or persons directly responsible for managing compliance with the pretreatment standard for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to the control authority.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: Karen Said for Siltronic

Date: 1/10/07

SCOEPA00025287

CITY OF PORTLAND
INDUSTRIAL WASTEWATER DISCHARGE
SELF-MONITORING REPORT

INDUSTRY NAME: Siltronic Corporation

PERMIT NUMBER: 469.001

REPORT DUE DATE: 15 January 2007

SAMPLING PERIOD: December 2006

For Industrial Source Control Division Use Only	
Date Postmarked/Received	Date Entered
	Entered By:
Comments:	

pH GRAB SAMPLE - EPA METHOD 150.1

POINT OF COMPLIANCE		pH METER BRAND			pH METER MODEL		pH Discharge Limits
#1B (Fab 2)		Orion			720A		5.0 - 11.5 S.U.
Date of Sample	Time of Sample	Reported pH Value	Violation? (circle one)		pH Meter Calibration Date	pH Meter Calibration Buffer used	COMMENTS
13 Dec 2006	0600	10.0 SU	YES	NO	8 Dec 2006	7.0 and 10.0	

CONTINUOUSLY MONITORED pH - EPA METHOD 150.2

POINT OF COMPLIANCE	pH METER BRAND	pH METER MODEL	pH Limit
#1B (Fab 2)	Foxboro	873	5.0 - 11.5 S.U.

DATE	STARTING TIME (military time)	MOST EXTREME pH EXCURSION	DURATION (minutes)	VIOLATION? (circle one)		COMMENTS
No Excursions				YES	NO	
				YES	NO	
				YES	NO	
				YES	NO	

Instructions: Industrial Source Control Division (ISCD) must be notified of all discharge violations within 24 hours of your knowledge of the violation. Report all pH excursions on this form and circle YES if they are a violation. Include any appropriate comments in the Comment column regarding the nature of the excursion. Attach supporting data or explanations to this report. You are also required to document corrective actions you have taken in response to the excursion.

Violations:
1. pH excursions outside the range of 5.0 - 11.5 SU for a total duration of more than 15 minutes in any 24 hour period.
2. pH excursions less than or equal to 4.5 SU or greater than or equal to 12.5 SU regardless of duration.

Non-Violations: You may contend an excursion does not represent a pH discharge violation if it does not meet the criteria listed above. Circle NO in the VIOLATION? Column and include a copy of the pH log or pH chart recording showing the excursion. The final violation status of the excursion will be determined by the ISCD.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: Karen Gaulke for Siltronic Date: 1/10/07

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4640175004
SUSC SILTRONICS OWW & MV2
C. Justin Darr
243-2020 x7131

Siltronic Corporation
PO Box 83180
Portland, Oregon 97283-0180

SPECIAL ACCOUNT METER REPORT DOCUMENT

December-06

1. OWW DISCHARGE

ACTUAL READINGS

	FAB 1	FAB 2	
PAST READING	109367	607,727	100s of GALLONS)
CURRENT READING	109367	784,591	100s of GALLONS)
CONSUMPTION	0	176,864	100s of GALLONS)
TOTAL THROUGH OVERFLOW LINE	0		(100s of GALLONS)
TOTAL CONSUMPTION	1,768,640		10s of GALLONS)

READINGS CONVERTED TO CUBIC FEET

CONSUMPTION	1,768,640	* 10 GAL / 7.48 GAL/CF =	2,364,492	CF
TOTAL THROUGH OVERFL(	0	* 10 GAL / 7.48 GAL/CF =	0	CF
TOTAL CONSUMPTION			2,364,492	CF

2. METER VAULT #2 (Sanitary)

ACTUAL READINGS

PAST READING	2,251,889	(10s of GALLONS)
CURRENT READING	2,311,756	(10s of GALLONS)
CONSUMPTION	59,867	(10s of GALLONS)

READINGS CONVERTED TO CUBIC FEET

CONSUMPTION	59,867	* 10 GAL / 7.48 GAL/CF=	80,036	CF

This meter reading was reported by: C. Justin Darr on 1-5-07
C. Justin Darr date

Sent to: Bureau of Enviromental Services City of Portland
Water Pollution Control Lab, Attn: Brian Laurent
Portland, Oregon 97203-5452

SCOEPA00025289

BENCHSHEET

TOTAL SUSPENDED SOLIDS (TSS)

Sample Date: 12-06-06 Oven Temp: 104 C Analyst: DI

Date In: 12-6-06 Time In/Out: 1020 / 1300

Tin #	Sample	Vol, ml	Gross Wt, g	Tare Wt, g	TSS, mg/L
1	Blank	NA	0.0906	0.0906	
2	CE	500	0.0916	0.0894	4.4
3	CE	500	0.0927	0.0906	4.2
				Average CE TSS	4.3
4	OWW	100	0.1135	0.0914	221
5	OWW	100	0.1146	0.0912	234
				Average OWW TSS	227.5
				Average TSS	
				Average TSS	

Comments: _____

Calculation: TSS, mg/L = $\frac{\text{(Gross Wt, g - Tare Wt, g) X 1,000,000}}{\text{Volume of Sample, ml}}$

Note: NPDES permit: monthly avg. 23 mg/L, daily max. 61 mg/L.
POTW permit: daily max 350 mg/L.

Reference: 1. Standard Methods for the Examination of Water and Wastewater, 1998, 20th Edition, Section 2540 D, page 2-57.
2. National Pollution Discharge Elimination System Permit #101128.

TJR 21 Mar 1987
DEI 19 Oct 2005 Revised

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TestAmerica
ANALYTICAL TESTING CORPORATION

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244 425-420-9200 FAX 420-9210
11922 E. First Ave, Spokane, WA 99206-5302 509-924-9200 FAX 924-9290
9405 SW Nimbus Ave, Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: PPL0184

CLIENT: Siltronic

INVOICE TO: Accts. Payable

REPORT TO: Tom Rothschild
ADDRESS: 7200 NW Front Ave
Portland, OR
PHONE: 503 219-7324 FAX: 503 219-7114

P.O. NUMBER: 4500186654

PROJECT NAME: Monthly
PROJECT NUMBER: 110 ~ 113
SAMPLED BY: Dianne Irish

TURNAROUND REQUEST in Business Days *
Organic & Inorganic Analyses: [10 STD] 7 5 4 3 2 1 <1
Petroleum Hydrocarbon Analyses: [5 STD.] 4 3 2 1 <1
OTHER Specify:
* Turnaround Requests less than standard may incur Rush Charges.

PRESERVATIVE

REQUESTED ANALYSES

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	BOD	Cr (T)	608	624 A+A	625	IPA	As (T)	MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	TA WO ID
1	06-110-GE-C	12-6-06	X	X						W	2		
2	06-111-GE-S	12-6-06			X	X	X			W	5		
3	06-112-OWD-C	12-6-06							X	W	1		
4	06-113-OWM-S	12-6-06			X	X	X	X		W	5		
5													
6													
7													
8													
9													
10													

RELEASED BY: Dianne Irish DATE: 12-6-06
PRINT NAME: Dianne Irish FIRM: Siltronic TIME: 12:45

RECEIVED BY: [signature] DATE: 12/6/06
PRINT NAME: Bob T FIRM: TAP TIME: 12:45

RELEASED BY: DATE:
PRINT NAME: FIRM: TIME:

RECEIVED BY: DATE:
PRINT NAME: FIRM: lab 14:45 TIME:

ADDITIONAL REMARKS:

TEMP: 4.5

COC REV 05 2006

PAGE OF

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and for any additional analyses performed on this project.
Payment for services is due within 30 days from the date of invoice unless otherwise contracted. Sample(s) will be disposed of after 30 days unless otherwise contracted.

SCOEPA00025291

TestAmerica
ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

December 28, 2006

Thomas Rothschild
Siltronic
7200 N.W. Front Ave
Portland, OR 97210

RE: Monthly

Enclosed are the results of analyses for samples received by the laboratory on 12/06/06 14:45. The following list is a summary of the Work Orders contained in this report, generated on 12/28/06 08:22.

If you have any questions concerning this report, please feel free to contact me.

Work Order	Project	ProjectNumber
PPL0184	Monthly	PO# 4500186654

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Brian Cone, Industrial Services Manager

SCOEPA00025292

TestAmerica
ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	12/28/06 08:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
06-110-CE-C	PPL0184-01	Water	12/06/06 12:00	12/06/06 14:45
06-111-CE-g	PPL0184-02	Water	12/06/06 12:00	12/06/06 14:45
06-112-OWW-C	PPL0184-03	Water	12/06/06 12:00	12/06/06 14:45
06-113-OWW-g	PPL0184-04	Water	12/06/06 12:00	12/06/06 14:45

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Brian Cone, Industrial Services Manager

SCOEPA00025293

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ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	12/28/06 08:22

Total Metals per EPA 200 Series Methods

TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PPL0184-01 (06-110-CE-C)		**Water**				**Sampled: 12/06/06 12:00**				
Chromium	EPA 200.8	ND	-----	0.00100	mg/l	1x	6120308	12/08/06 12:54	12/09/06 20:44	
PPL0184-03 (06-112-OWW-C)		**Water**				**Sampled: 12/06/06 12:00**				
Arsenic	EPA 200.8	**0.00459**	-----	0.00100	mg/l	1x	6120308	12/08/06 12:54	12/09/06 20:50	

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Brian Cone, Industrial Services Manager

SCOEPA00025294

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ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	12/28/06 08:22

Organochlorine Pesticides and PCBs per EPA Method 608

TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PPL0184-02 (06-111-CE-g)		**Water**			**Sampled: 12/06/06 12:00**					
Aldrin	EPA 608	ND	-----	0.0952	ug/l	1x	6120381	12/11/06 15:45	12/12/06 13:10	
alpha-BHC	"	ND	-----	0.0952	"	"	"	"	"	
beta-BHC	"	ND	-----	0.0952	"	"	"	"	"	
delta-BHC	"	ND	-----	0.0952	"	"	"	"	"	
gamma-BHC (Lindane)	"	ND	-----	0.0952	"	"	"	"	"	
Chlordane (tech)	"	ND	-----	4.76	"	"	"	"	"	
alpha-Chlordane	"	ND	-----	0.0952	"	"	"	"	"	
gamma-Chlordane	"	ND	-----	0.0952	"	"	"	"	"	
4,4'-DDD	"	ND	-----	0.0952	"	"	"	"	"	
4,4'-DDE	"	ND	-----	0.0952	"	"	"	"	"	
4,4'-DDT	"	ND	-----	0.0952	"	"	"	"	"	
Dieldrin	"	ND	-----	0.0952	"	"	"	"	"	
Endosulfan I	"	ND	-----	0.0952	"	"	"	"	"	
Endosulfan II	"	ND	-----	0.0952	"	"	"	"	"	
Endosulfan sulfate	"	ND	-----	0.0952	"	"	"	"	"	
Endrin	"	ND	-----	0.0952	"	"	"	"	"	
Endrin aldehyde	"	ND	-----	0.0952	"	"	"	"	"	
Heptachlor	"	ND	-----	0.0952	"	"	"	"	"	
Heptachlor epoxide	"	ND	-----	0.0952	"	"	"	"	"	
Methoxychlor	"	ND	-----	0.0952	"	"	"	"	"	
Toxaphene	"	ND	-----	4.76	"	"	"	"	"	
Aroclor 1016	"	ND	-----	0.476	"	"	"	"	12/12/06 15:15	
Aroclor 1221	"	ND	-----	0.952	"	"	"	"	"	
Aroclor 1232	"	ND	-----	0.476	"	"	"	"	"	
Aroclor 1242	"	ND	-----	0.476	"	"	"	"	"	
Aroclor 1248	"	ND	-----	0.476	"	"	"	"	"	
Aroclor 1254	"	ND	-----	0.476	"	"	"	"	"	
Aroclor 1260	"	ND	-----	0.476	"	"	"	"	"	
Surrogate(s):	*2,4,5,6-Tetrachloro-m-xylene*		*83.4%*		*16 - 137 %*	"			*12/12/06 13:10*	
	Decachlorobiphenyl		*48.7%*		*12 - 130 %*	"			*12/12/06 15:15*	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Brian Cone, Industrial Services Manager

SCOEPA00025295

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ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	12/28/06 08:22

Organochlorine Pesticides and PCBs per EPA Method 608

TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PPL0184-04 (06-113-OWW-g)		**Water**			**Sampled: 12/06/06 12:00**					
Aldrin	EPA 608	ND	-----	0.0962	ug/l	1x	6120381	12/11/06 15:45	12/12/06 13:53	
alpha-BHC	"	ND	-----	0.0962	"	"	"	"	"	
beta-BHC	"	ND	-----	0.0962	"	"	"	"	"	
delta-BHC	"	ND	-----	0.0962	"	"	"	"	"	
gamma-BHC (Lindane)	"	ND	-----	0.0962	"	"	"	"	"	
Chlordane (tech)	"	ND	-----	4.81	"	"	"	"	"	
alpha-Chlordane	"	ND	-----	0.0962	"	"	"	"	"	
gamma-Chlordane	"	ND	-----	0.0962	"	"	"	"	"	
4,4'-DDD	"	ND	-----	0.0962	"	"	"	"	"	
4,4'-DDE	"	ND	-----	0.0962	"	"	"	"	"	
4,4'-DDT	"	ND	-----	0.0962	"	"	"	"	"	
Dieldrin	"	ND	-----	0.0962	"	"	"	"	"	
Endosulfan I	"	ND	-----	0.0962	"	"	"	"	"	
Endosulfan II	"	ND	-----	0.0962	"	"	"	"	"	
Endosulfan sulfate	"	ND	-----	0.0962	"	"	"	"	"	
Endrin	"	ND	-----	0.0962	"	"	"	"	"	
Endrin aldehyde	"	ND	-----	0.0962	"	"	"	"	"	
Heptachlor	"	ND	-----	0.0962	"	"	"	"	"	
Heptachlor epoxide	"	ND	-----	0.0962	"	"	"	"	"	
Methoxychlor	"	ND	-----	0.0962	"	"	"	"	"	
Toxaphene	"	ND	-----	4.81	"	"	"	"	"	
Aroclor 1016	"	ND	-----	0.481	"	"	"	"	12/12/06 15:34	
Aroclor 1221	"	ND	-----	0.962	"	"	"	"	"	
Aroclor 1232	"	ND	-----	0.481	"	"	"	"	"	
Aroclor 1242	"	ND	-----	0.481	"	"	"	"	"	
Aroclor 1248	"	ND	-----	0.481	"	"	"	"	"	
Aroclor 1254	"	ND	-----	0.481	"	"	"	"	"	
Aroclor 1260	"	ND	-----	0.481	"	"	"	"	"	
Surrogate(s): 2,4,5,6-Tetrachloro-m-xylene			*25.8%*		*16 - 137 %*	"			*12/12/06 13:53*	
Decachlorobiphenyl			*4.64%*		*12 - 130 %*	"			*12/12/06 15:34*	*Z6*

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Brian Cone, Industrial Services Manager

SCOEPA00025296

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ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name: **Monthly**	
7200 N.W. Front Ave	Project Number: PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager: Thomas Rothschild	12/28/06 08:22

Purgeables per EPA Method 624 Modified

TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PPL0184-02 (06-111-CE-g)		**Water**			**Sampled: 12/06/06 12:00**					
Acrolein	EPA 624	ND	-----	10.0	ug/l	1x	6120274	12/08/06 09:45	12/09/06 03:03	
Acrylonitrile	"	ND	-----	6.00	"	"	"	"	"	
Benzene	"	ND	-----	1.00	"	"	"	"	"	
Bromodichloromethane	"	ND	-----	1.00	"	"	"	"	"	
Bromoform	"	ND	-----	1.00	"	"	"	"	"	
Bromomethane	"	ND	-----	5.00	"	"	"	"	"	
Carbon tetrachloride	"	ND	-----	1.00	"	"	"	"	"	
Chlorobenzene	"	ND	-----	1.00	"	"	"	"	"	
Chloroethane	"	ND	-----	5.00	"	"	"	"	"	
Chloroform	"	**7.89**	-----	1.00	"	"	"	"	"	
Chloromethane	"	ND	-----	5.00	"	"	"	"	"	
Dibromochloromethane	"	ND	-----	1.00	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	-----	1.00	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	-----	1.00	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	-----	1.00	"	"	"	"	"	
1,1-Dichloroethane	"	ND	-----	1.00	"	"	"	"	"	
1,2-Dichloroethane	"	ND	-----	1.00	"	"	"	"	"	
1,1-Dichloroethene	"	ND	-----	1.00	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	-----	1.00	"	"	"	"	"	
1,2-Dichloropropane	"	ND	-----	1.00	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	-----	1.00	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	-----	1.00	"	"	"	"	"	
Ethylbenzene	"	ND	-----	1.00	"	"	"	"	"	
Methylene chloride	"	ND	-----	5.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	-----	1.00	"	"	"	"	"	
Tetrachloroethene	"	ND	-----	1.00	"	"	"	"	"	
Toluene	"	ND	-----	1.00	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	-----	1.00	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	-----	1.00	"	"	"	"	"	
Trichloroethene	"	ND	-----	1.00	"	"	"	"	"	
Trichlorofluoromethane	"	ND	-----	1.00	"	"	"	"	"	
Vinyl chloride	"	ND	-----	1.00	"	"	"	"	"	
Surrogate(s):	*4-BFB*		*102%*		*75 - 120 %*	"			"	
	1,2-DCA-d4		*99.0%*		*77 - 129 %*	"			"	
	Dibromofluoromethane		*98.5%*		*80 - 121 %*	"			"	
	Toluene-d8		*100%*		*80 - 120 %*	"			"	

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Brian Cone, Industrial Services Manager

SCOEPA00025297

TestAmerica
ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	12/28/06 08:22

Purgeables per EPA Method 624 Modified

TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PPL0184-04 (06-113-OWW-g)		**Water**			**Sampled: 12/06/06 12:00**					
Acrolein	EPA 624	ND	-----	10.0	ug/l	1x	6120274	12/08/06 09:45	12/09/06 03:30	
Acrylonitrile	"	ND	-----	6.00	"	"	"	"	"	
Benzene	"	ND	-----	1.00	"	"	"	"	"	
Bromodichloromethane	"	ND	-----	1.00	"	"	"	"	"	
Bromoform	"	ND	-----	1.00	"	"	"	"	"	
Bromomethane	"	ND	-----	5.00	"	"	"	"	"	
Carbon tetrachloride	"	ND	-----	1.00	"	"	"	"	"	
Chlorobenzene	"	ND	-----	1.00	"	"	"	"	"	
Chloroethane	"	ND	-----	5.00	"	"	"	"	"	
Chloroform	"	**4.20**	-----	1.00	"	"	"	"	"	
Chloromethane	"	ND	-----	5.00	"	"	"	"	"	
Dibromochloromethane	"	ND	-----	1.00	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	-----	1.00	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	-----	1.00	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	-----	1.00	"	"	"	"	"	
1,1-Dichloroethane	"	ND	-----	1.00	"	"	"	"	"	
1,2-Dichloroethane	"	ND	-----	1.00	"	"	"	"	"	
1,1-Dichloroethene	"	ND	-----	1.00	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	-----	1.00	"	"	"	"	"	
1,2-Dichloropropane	"	ND	-----	1.00	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	-----	1.00	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	-----	1.00	"	"	"	"	"	
Ethylbenzene	"	ND	-----	1.00	"	"	"	"	"	
Methylene chloride	"	ND	-----	5.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	-----	1.00	"	"	"	"	"	
Tetrachloroethene	"	ND	-----	1.00	"	"	"	"	"	
Toluene	"	ND	-----	1.00	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	-----	1.00	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	-----	1.00	"	"	"	"	"	
Trichloroethene	"	ND	-----	1.00	"	"	"	"	"	
Trichlorofluoromethane	"	ND	-----	1.00	"	"	"	"	"	
Vinyl chloride	"	ND	-----	1.00	"	"	"	"	"	
Surrogate(s): 4-BFB		*104%*			*75 - 120 %*	"			"	
1,2-DCA-d4		*101%*			*77 - 129 %*	"			"	
Dibromofluoromethane		*101%*			*80 - 121 %*	"			"	
Toluene-d8		*101%*			*80 - 120 %*	"			"	

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Brian Cone, Industrial Services Manager

SCOEPA00025298

TestAmerica
ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	12/28/06 08:22

Acid and Base/Neutral Extractables per EPA Method 625

TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PPL0184-02 (06-111-CE-g)		**Water**			**Sampled: 12/06/06 12:00**					
Acenaphthene	EPA 625	ND	-----	4.90	ug/l	1x	6120409	12/12/06 09:01	12/15/06 10:41	
Acenaphthylene	"	ND	-----	4.90	"	"	"	"	"	
Anthracene	"	ND	-----	4.90	"	"	"	"	"	
Benzidine	"	ND	-----	58.8	"	"	"	"	"	
Benzo (a) anthracene	"	ND	-----	4.90	"	"	"	"	"	
Benzo (a) pyrene	"	ND	-----	4.90	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	-----	4.90	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	-----	4.90	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	-----	4.90	"	"	"	"	"	
4-Bromophenyl phenyl ether	"	ND	-----	4.90	"	"	"	"	"	
Butyl benzyl phthalate	"	ND	-----	4.90	"	"	"	"	"	
4-Chloro-3-methylphenol	"	ND	-----	4.90	"	"	"	"	"	
Bis(2-chloroethoxy)methane	"	ND	-----	9.80	"	"	"	"	"	
Bis(2-chloroethyl)ether	"	ND	-----	4.90	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	"	ND	-----	9.80	"	"	"	"	"	
2-Chloronaphthalene	"	ND	-----	4.90	"	"	"	"	"	
2-Chlorophenol	"	ND	-----	4.90	"	"	"	"	"	
4-Chlorophenyl phenyl ether	"	ND	-----	4.90	"	"	"	"	"	
Chrysene	"	ND	-----	4.90	"	"	"	"	"	
Di-n-butyl phthalate	"	ND	-----	4.90	"	"	"	"	"	
Di-n-octyl phthalate	"	ND	-----	4.90	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND	-----	4.90	"	"	"	"	"	
1,2 Diphenylhydrazine (as Azobenzene)	"	ND	-----	4.90	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	-----	4.90	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	-----	4.90	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	-----	4.90	"	"	"	"	"	
3,3'-Dichlorobenzidine	"	ND	-----	4.90	"	"	"	"	"	
2,4-Dichlorophenol	"	ND	-----	4.90	"	"	"	"	"	
Diethyl phthalate	"	ND	-----	4.90	"	"	"	"	"	
2,4-Dimethylphenol	"	ND	-----	9.80	"	"	"	"	"	
Dimethyl phthalate	"	ND	-----	4.90	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	"	ND	-----	9.80	"	"	"	"	"	
2,4-Dinitrophenol	"	ND	-----	24.5	"	"	"	"	"	
2,4-Dinitrotoluene	"	ND	-----	4.90	"	"	"	"	"	
2,6-Dinitrotoluene	"	ND	-----	4.90	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	"	ND	-----	9.80	"	"	"	"	"	
Fluoranthene	"	ND	-----	4.90	"	"	"	"	"	
Fluorene	"	ND	-----	4.90	"	"	"	"	"	
Hexachlorobenzene	"	ND	-----	4.90	"	"	"	"	"	
Hexachlorobutadiene	"	ND	-----	9.80	"	"	"	"	"	
Hexachlorocyclopentadiene	"	ND	-----	9.80	"	"	"	"	"	
Hexachloroethane	"	ND	-----	9.80	"	"	"	"	"	

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Brian Cone, Industrial Services Manager

SCOEPA00025299

TestAmerica
ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	12/28/06 08:22

Acid and Base/Neutral Extractables per EPA Method 625

TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PPL0184-02 (06-111-CE-g)		**Water**			**Sampled: 12/06/06 12:00**					
Indeno (1,2,3-cd) pyrene	EPA 625	ND	-----	4.90	ug/l	1x	6120409	12/12/06 09:01	12/15/06 10:41	
Isophorone	"	ND	-----	4.90	"	"	"	"	"	
Naphthalene	"	ND	-----	4.90	"	"	"	"	"	
Nitrobenzene	"	ND	-----	4.90	"	"	"	"	"	
2-Nitrophenol	"	ND	-----	4.90	"	"	"	"	"	
4-Nitrophenol	"	ND	-----	24.5	"	"	"	"	"	
N-Nitrosodimethylamine	"	ND	-----	4.90	"	"	"	"	"	
N-Nitrosodi-n-propylamine	"	ND	-----	9.80	"	"	"	"	"	
N-Nitrosodiphenylamine	"	ND	-----	4.90	"	"	"	"	"	
Pentachlorophenol	"	ND	-----	9.80	"	"	"	"	"	
Phenanthrene	"	ND	-----	4.90	"	"	"	"	"	
Phenol	"	ND	-----	4.90	"	"	"	"	"	
Pyrene	"	ND	-----	4.90	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	-----	4.90	"	"	"	"	"	
2,4,6-Trichlorophenol	"	ND	-----	4.90	"	"	"	"	"	
Surrogate(s): 2-Fluorobiphenyl			*67.3%*		*22 - 120 %*	"			"	
2-Fluorophenol			*58.5%*		*5 - 120 %*	"			"	
Nitrobenzene-d5			*68.3%*		*26 - 127 %*	"			"	
Phenol-d6			*63.8%*		*4 - 121 %*	"			"	
p-Terphenyl-d14			*90.3%*		*37 - 130 %*	"			"	
2,4,6-Tribromophenol			*91.8%*		*21 - 129 %*	"			"	
PPL0184-04 (06-113-OWW-g)		**Water**			**Sampled: 12/06/06 12:00**					
Acenaphthene	EPA 625	ND	-----	4.81	ug/l	1x	6120409	12/12/06 09:01	12/18/06 20:45	
Acenaphthylene	"	ND	-----	4.81	"	"	"	"	"	
Anthracene	"	ND	-----	4.81	"	"	"	"	"	
Benzidine	"	ND	-----	57.7	"	"	"	"	"	
Benzo (a) anthracene	"	ND	-----	4.81	"	"	"	"	"	
Benzo (a) pyrene	"	ND	-----	4.81	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	-----	4.81	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	-----	4.81	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	-----	4.81	"	"	"	"	"	
4-Bromophenyl phenyl ether	"	ND	-----	4.81	"	"	"	"	"	
Butyl benzyl phthalate	"	ND	-----	4.81	"	"	"	"	"	
4-Chloro-3-methylphenol	"	ND	-----	4.81	"	"	"	"	"	
Bis(2-chloroethoxy)methane	"	ND	-----	9.62	"	"	"	"	"	
Bis(2-chloroethyl)ether	"	ND	-----	4.81	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	"	ND	-----	9.62	"	"	"	"	"	
2-Chloronaphthalene	"	ND	-----	4.81	"	"	"	"	"	
2-Chlorophenol	"	ND	-----	4.81	"	"	"	"	"	
4-Chlorophenyl phenyl ether	"	ND	-----	4.81	"	"	"	"	"	
Chrysene	"	ND	-----	4.81	"	"	"	"	"	

TestAmerica - Portland, OR

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Brian Cone, Industrial Services Manager

SCOEPA00025300

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ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	12/28/06 08:22

Acid and Base/Neutral Extractables per EPA Method 625

TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PPL0184-04 (06-113-OWW-g)		**Water**			**Sampled: 12/06/06 12:00**					
Di-n-butyl phthalate	EPA 625	ND	-----	4.81	ug/l	1x	6120409	12/12/06 09:01	12/18/06 20:45	
Di-n-octyl phthalate	"	ND	-----	4.81	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND	-----	4.81	"	"	"	"	"	
1,2 Diphenylhydrazine (as Azobenzene)	"	ND	-----	4.81	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	-----	4.81	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	-----	4.81	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	-----	4.81	"	"	"	"	"	
3,3'-Dichlorobenzidine	"	ND	-----	4.81	"	"	"	"	"	
2,4-Dichlorophenol	"	ND	-----	4.81	"	"	"	"	"	
Diethyl phthalate	"	ND	-----	4.81	"	"	"	"	"	
2,4-Dimethylphenol	"	ND	-----	9.62	"	"	"	"	"	
Dimethyl phthalate	"	ND	-----	4.81	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	"	ND	-----	9.62	"	"	"	"	"	
2,4-Dinitrophenol	"	ND	-----	24.0	"	"	"	"	"	
2,4-Dinitrotoluene	"	ND	-----	4.81	"	"	"	"	"	
2,6-Dinitrotoluene	"	ND	-----	4.81	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	"	ND	-----	9.62	"	"	"	"	"	
Fluoranthene	"	ND	-----	4.81	"	"	"	"	"	
Fluorene	"	ND	-----	4.81	"	"	"	"	"	
Hexachlorobenzene	"	ND	-----	4.81	"	"	"	"	"	
Hexachlorobutadiene	"	ND	-----	9.62	"	"	"	"	"	
Hexachlorocyclopentadiene	"	ND	-----	9.62	"	"	"	"	"	
Hexachloroethane	"	ND	-----	9.62	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	-----	4.81	"	"	"	"	"	
Isophorone	"	ND	-----	4.81	"	"	"	"	"	
Naphthalene	"	ND	-----	4.81	"	"	"	"	"	
Nitrobenzene	"	ND	-----	4.81	"	"	"	"	"	
2-Nitrophenol	"	ND	-----	4.81	"	"	"	"	"	
4-Nitrophenol	"	ND	-----	24.0	"	"	"	"	"	
N-Nitrosodimethylamine	"	ND	-----	4.81	"	"	"	"	"	
N-Nitrosodi-n-propylamine	"	ND	-----	9.62	"	"	"	"	"	
N-Nitrosodiphenylamine	"	ND	-----	4.81	"	"	"	"	"	
Pentachlorophenol	"	ND	-----	9.62	"	"	"	"	"	
Phenanthrene	"	ND	-----	4.81	"	"	"	"	"	
Phenol	"	ND	-----	4.81	"	"	"	"	"	
Pyrene	"	ND	-----	4.81	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	-----	4.81	"	"	"	"	"	
2,4,6-Trichlorophenol	"	ND	-----	4.81	"	"	"	"	"	
Surrogate(s): *2-Fluorobiphenyl*			*66.4%*		*22 - 120 %*	"			"	
2-Fluorophenol			*60.8%*		*5 - 120 %*	"			"	
Nitrobenzene-d5			*76.0%*		*26 - 127 %*	"			"	
Phenol-d6			*61.6%*		*4 - 121 %*	"			"	

TestAmerica - Portland, OR

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Brian Cone, Industrial Services Manager

SCOEPA00025301

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ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
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ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	12/28/06 08:22

Acid and Base/Neutral Extractables per EPA Method 625

TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PPL0184-04 (06-113-OWW-g)		**Water**			**Sampled: 12/06/06 12:00**					
p-Terphenyl-d14		*78.8%*			*37 - 130 %*	*1x*			*12/18/06 20:45*	
2,4,6-Tribromophenol		*64.3%*			*21 - 129 %*	*"*			*"*	

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Brian Cone, Industrial Services Manager

SCOEPA00025302

TestAmerica
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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
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ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	12/28/06 08:22

Conventional Chemistry Parameters per APHA/EPA Methods

TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PPL0184-01 (06-110-CE-C)		**Water**			**Sampled: 12/06/06 12:00**					
Biochemical Oxygen Demand	EPA 405.1	**8.98**	-----	4.00	mg/l	1x	6120235	12/07/06 09:20	12/12/06 12:39	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Brian Cone, Industrial Services Manager

SCOEPA00025303

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ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	12/28/06 08:22

Total Metals per EPA 200 Series Methods - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 6120308 **Water Preparation Method: EPA 200/3005**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6120308-BLK1)								Extracted: 12/08/06 12:54						
Arsenic	EPA 200.8	ND	---	0.00100	mg/l	1x	--	--	--	--	--	--	12/09/06 20:02	
Chromium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
LCS (6120308-BS1)								Extracted: 12/08/06 12:54						
Arsenic	EPA 200.8	0.0866	---	0.00100	mg/l	1x	--	0.100	86.6%	(85-115)	--	--	12/09/06 20:08	
Chromium	"	0.0922	---	0.00100	"	"	--	"	92.2%	"	--	--	"	
Duplicate (6120308-DUP1)				QC Source: PPL0200-01				Extracted: 12/08/06 12:54						
Arsenic	EPA 200.8	0.00242	---	0.00100	mg/l	1x	0.00240	--	--	--	0.830%	(20)	12/09/06 21:26	
Chromium	"	ND	---	0.00100	"	"	ND	--	--	--	NR	"	"	
Matrix Spike (6120308-MS1)				QC Source: PPL0200-01				Extracted: 12/08/06 12:54						
Arsenic	EPA 200.8	0.0902	---	0.00100	mg/l	1x	0.00240	0.100	87.8%	(70-130)	--	--	12/09/06 21:38	
Chromium	"	0.0901	---	0.00100	"	"	ND	"	90.1%	(75-125)	--	--	"	

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Brian Cone, Industrial Services Manager

SCOEPA00025304

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ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	12/28/06 08:22

Organochlorine Pesticides and PCBs per EPA Method 608 - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 6120381 **Water Preparation Method: EPA 3510/600 Series**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6120381-BLK1)								Extracted: 12/11/06 15:45						
Aldrin	EPA 608	ND	---	0.100	ug/l	1x	--	--	--	--	--	--	12/12/06 11:42	
alpha-BHC	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
beta-BHC	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
delta-BHC	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
gamma-BHC (Lindane)	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Chlordane (tech)	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
alpha-Chlordane	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
gamma-Chlordane	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
4,4'-DDD	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
4,4'-DDE	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
4,4'-DDT	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Dieldrin	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Endosulfan I	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Endosulfan II	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Endosulfan sulfate	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Endrin	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Endrin aldehyde	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Heptachlor	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Heptachlor epoxide	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Methoxychlor	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Toxaphene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Aroclor 1016	"	ND	---	0.500	"	"	--	--	--	--	--	--	12/12/06 16:12	
Aroclor 1221	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Aroclor 1232	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1242	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1248	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1254	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1260	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Surrogate(s): 2,4,5,6-Tetrachloro-m-xylene		*Recovery: 77.8%*			*Limits: 16-137%*	"							*12/12/06 11:42*	
Decachlorobiphenyl		*68.6%*			*12-130%*	"							*12/12/06 16:12*	

TestAmerica - Portland, OR

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Brian Cone, Industrial Services Manager

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BEAVERTON, OR 97008-7132
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Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	12/28/06 08:22

Organochlorine Pesticides and PCBs per EPA Method 608 - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 6120381 **Water Preparation Method: EPA 3510/600 Series**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (6120381-BS1)								Extracted: 12/11/06 15:45						
Aldrin	EPA 608	0.447	---	0.100	ug/l	1x	--	0.500	89.4%	(42-122)	--	--	12/12/06 12:03	
gamma-BHC (Lindane)	"	0.443	---	0.100	"	"	--	"	88.6%	(32-127)	--	--	"	
4,4'-DDT	"	0.452	---	0.100	"	"	--	"	90.4%	(25-160)	--	--	"	
Dieldrin	"	0.465	---	0.100	"	"	--	"	93.0%	(36-146)	--	--	"	
Endrin	"	0.470	---	0.100	"	"	--	"	94.0%	(30-147)	--	--	"	
Heptachlor	"	0.462	---	0.100	"	"	--	"	92.4%	(34-111)	--	--	"	
Surrogate(s): 2,4,5,6-Tetrachloro-m-xylene		*Recovery: 86.0%*			*Limits: 16-137%*	"							*12/12/06 12:03*	
LCS (6120381-BS2)								Extracted: 12/11/06 15:45						
Aroclor 1016	EPA 608	3.78	---	0.500	ug/l	1x	--	5.00	75.6%	(50-114)	--	--	12/12/06 15:53	
Aroclor 1260	"	3.64	---	0.500	"	"	--	"	72.8%	(8-127)	--	--	"	
Surrogate(s): Decachlorobiphenyl		*Recovery: 64.4%*			*Limits: 12-130%*	"							*12/12/06 15:53*	
LCS Dup (6120381-BSD1)								Extracted: 12/11/06 15:45						
Aldrin	EPA 608	0.482	---	0.100	ug/l	1x	--	0.500	96.4%	(42-122)	7.53%	(22)	12/12/06 12:25	
gamma-BHC (Lindane)	"	0.469	---	0.100	"	"	--	"	93.8%	(32-127)	5.70%	"	"	
4,4'-DDT	"	0.472	---	0.100	"	"	--	"	94.4%	(25-160)	4.33%	"	"	
Dieldrin	"	0.489	---	0.100	"	"	--	"	97.8%	(36-146)	5.03%	"	"	
Endrin	"	0.494	---	0.100	"	"	--	"	98.8%	(30-147)	4.98%	"	"	
Heptachlor	"	0.483	---	0.100	"	"	--	"	96.6%	(34-111)	4.44%	"	"	
Surrogate(s): 2,4,5,6-Tetrachloro-m-xylene		*Recovery: 90.0%*			*Limits: 16-137%*	"							*12/12/06 12:25*	

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Brian Cone, Industrial Services Manager

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BEAVERTON, OR 97008-7132
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Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	12/28/06 08:22

Purgeables per EPA Method 624 Modified - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 6120274 **Water Preparation Method: EPA 5030B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6120274-BLK1)								Extracted: 12/08/06 09:45						
Acrolein	EPA 624	ND	---	10.0	ug/l	1x	--	--	--	--	--	--	12/08/06 18:32	
Acrylonitrile	"	ND	---	6.00	"	"	--	--	--	--	--	--	"	
Benzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Surrogate(s):	*4-BFB*	*Recovery:*	*106%*		*Limits:*	*75-120%*	"						*12/08/06 18:32*	
	1,2-DCA-d4		*102%*			*77-129%*	"						"	
	Dibromofluoromethane		*104%*			*80-121%*	"						"	
	Toluene-d8		*104%*			*80-120%*	"						"	

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Brian L Cone

Brian Cone, Industrial Services Manager

SCOEPA00025307

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Monthly**
7200 N.W. Front Ave	Project Number:	PO# 4500186654
Portland, OR 97210	Project Manager:	Thomas Rothschild
		Report Created: 12/28/06 08:22

Purgeables per EPA Method 624 Modified - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 6120274 **Water Preparation Method: EPA 5030B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (6120274-BS1)									Extracted: 12/08/06 09:45					
Benzene	EPA 624	17.8	---	1.00	ug/l	1x	--	20.0	89.0%	(80-120)	--	--	12/08/06 16:45	
Chlorobenzene	"	17.2	---	1.00	"	"	--	"	86.0%	"	--	--	"	
1,1-Dichloroethene	"	17.4	---	1.00	"	"	--	"	87.0%	"	--	--	"	
Toluene	"	17.6	---	1.00	"	"	--	"	88.0%	"	--	--	"	
Trichloroethene	"	18.9	---	1.00	"	"	--	"	94.5%	(80-124)	--	--	"	
Surrogate(s):	*4-BFB*	*Recovery:*	*104%*		*Limits:*	*75-120%*	"						*12/08/06 16:45*	
	1,2-DCA-d4		*101%*			*77-129%*	"						"	
	Dibromofluoromethane		*104%*			*80-121%*	"						"	
	Toluene-d8		*100%*			*80-120%*	"						"	
Matrix Spike (6120274-MS1)							QC Source: PPL0213-03		Extracted: 12/08/06 09:45					
Benzene	EPA 624	17.2	---	1.00	ug/l	1x	ND	20.0	86.0%	(80-124)	--	--	12/08/06 17:12	
Chlorobenzene	"	17.3	---	1.00	"	"	ND	"	86.5%	(72.9-134)	--	--	"	
1,1-Dichloroethene	"	17.7	---	1.00	"	"	ND	"	88.5%	(79.3-127)	--	--	"	
Toluene	"	17.1	---	1.00	"	"	ND	"	85.5%	(79.7-131)	--	--	"	
Trichloroethene	"	17.2	---	1.00	"	"	ND	"	86.0%	(68.4-130)	--	--	"	
Surrogate(s):	*4-BFB*	*Recovery:*	*98.0%*		*Limits:*	*75-120%*	"						*12/08/06 17:12*	
	1,2-DCA-d4		*95.5%*			*77-129%*	"						"	
	Dibromofluoromethane		*99.0%*			*80-121%*	"						"	
	Toluene-d8		*95.0%*			*80-120%*	"						"	
Matrix Spike Dup (6120274-MSD1)							QC Source: PPL0213-03		Extracted: 12/08/06 09:45					
Benzene	EPA 624	18.0	---	1.00	ug/l	1x	ND	20.0	90.0%	(80-124)	4.55%	(19.7)	12/08/06 17:39	
Chlorobenzene	"	18.4	---	1.00	"	"	ND	"	92.0%	(72.9-134)	6.16%	(22.1)	"	
1,1-Dichloroethene	"	18.8	---	1.00	"	"	ND	"	94.0%	(79.3-127)	6.03%	(20.4)	"	
Toluene	"	18.3	---	1.00	"	"	ND	"	91.5%	(79.7-131)	6.78%	(25.7)	"	
Trichloroethene	"	18.3	---	1.00	"	"	ND	"	91.5%	(68.4-130)	6.20%	(21.4)	"	
Surrogate(s):	*4-BFB*	*Recovery:*	*97.0%*		*Limits:*	*75-120%*	"						*12/08/06 17:39*	
	1,2-DCA-d4		*96.0%*			*77-129%*	"						"	
	Dibromofluoromethane		*99.5%*			*80-121%*	"						"	
	Toluene-d8		*94.5%*			*80-120%*	"						"	

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Brian Cone, Industrial Services Manager

SCOEPA00025308

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BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	12/28/06 08:22

Acid and Base/Neutral Extractables per EPA Method 625 - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 6120409 **Water Preparation Method: 3520B Liq-Liq**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6120409-BLK1)								Extracted: 12/12/06 09:01						
Acenaphthene	EPA 625	ND	---	5.00	ug/l	1x	--	--	--	--	--	--	12/15/06 08:24	
Acenaphthylene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Anthracene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Benzidine	"	ND	---	60.0	"	"	--	--	--	--	--	--	"	
Benzo (a) anthracene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Benzo (a) pyrene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Benzo (b) fluoranthene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Benzo (ghi) perylene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Benzo (k) fluoranthene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4-Bromophenyl phenyl ether	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Butyl benzyl phthalate	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4-Chloro-3-methylphenol	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bis(2-chloroethoxy)methane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Bis(2-chloroethyl)ether	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bis(2-chloroisopropyl)ether	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2-Chloronaphthalene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2-Chlorophenol	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4-Chlorophenyl phenyl ether	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Chrysene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Di-n-butyl phthalate	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Di-n-octyl phthalate	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dibenzo (a,h) anthracene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2 Diphenylhydrazine (as Azobenzene)	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
3,3'-Dichlorobenzidine	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2,4-Dichlorophenol	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Diethyl phthalate	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2,4-Dimethylphenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Dimethyl phthalate	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4,6-Dinitro-2-methylphenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2,4-Dinitrophenol	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
2,4-Dinitrotoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2,6-Dinitrotoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bis(2-ethylhexyl)phthalate	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Fluoranthene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Fluorene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Hexachlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	

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Brian Cone, Industrial Services Manager

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Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	12/28/06 08:22

Acid and Base/Neutral Extractables per EPA Method 625 - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 6120409 **Water Preparation Method: 3520B Liq-Liq**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6120409-BLK1)								Extracted: 12/12/06 09:01						
Hexachlorobutadiene	EPA 625	ND	---	10.0	ug/l	1x	--	--	--	--	--	--	12/15/06 08:24	
Hexachlorocyclopentadiene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Hexachloroethane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Indeno (1,2,3-cd) pyrene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Isophorone	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Nitrobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2-Nitrophenol	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4-Nitrophenol	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
N-Nitrosodimethylamine	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
N-Nitrosodi-n-propylamine	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
N-Nitrosodiphenylamine	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Pentachlorophenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Phenanthrene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Phenol	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Pyrene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2,4,6-Trichlorophenol	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Surrogate(s): 2-Fluorobiphenyl		*Recovery: 74.7%*			*Limits: 22-120%*	"							*12/15/06 08:24*	
2-Fluorophenol		*79.3%*			*5-120%*	"							"	
Nitrobenzene-d5		*85.3%*			*26-127%*	"							"	
Phenol-d6		*81.3%*			*4-121%*	"							"	
p-Terphenyl-d14		*92.9%*			*37-130%*	"							"	
2,4,6-Tribromophenol		*88.0%*			*21-129%*	"							"	
LCS (6120409-BS1)								Extracted: 12/12/06 09:01						
Acenaphthene	EPA 625	43.9	---	5.00	ug/l	1x	--	50.0	87.8%	(45-145)	--	--	12/15/06 03:05	
Acenaphthylene	"	39.2	---	5.00	"	"	--	"	78.4%	(30-145)	--	--	"	
Anthracene	"	45.2	---	5.00	"	"	--	"	90.4%	(25-135)	--	--	"	
Benzidine	"	53.2	---	60.0	"	"	--	40.0	133%	(0-169)	--	--	"	L6
Benzo (a) anthracene	"	45.5	---	5.00	"	"	--	50.0	91.0%	(30-145)	--	--	"	
Benzo (a) pyrene	"	44.6	---	5.00	"	"	--	"	89.2%	(15-150)	--	--	"	
Benzo (b) fluoranthene	"	45.0	---	5.00	"	"	--	"	90.0%	(20-150)	--	--	"	
Benzo (ghi) perylene	"	46.5	---	5.00	"	"	--	"	93.0%	(10-150)	--	--	"	
Benzo (k) fluoranthene	"	46.7	---	5.00	"	"	--	"	93.4%	"	--	--	"	
4-Bromophenyl phenyl ether	"	43.8	---	5.00	"	"	--	"	87.6%	(50-130)	--	--	"	
Butyl benzyl phthalate	"	45.0	---	5.00	"	"	--	"	90.0%	(10-150)	--	--	"	
4-Chloro-3-methylphenol	"	43.4	---	5.00	"	"	--	"	86.8%	(20-150)	--	--	"	
Bis(2-chloroethoxy)methane	"	45.1	---	10.0	"	"	--	"	90.2%	(30-150)	--	--	"	
Bis(2-chloroethyl)ether	"	42.7	---	5.00	"	"	--	"	85.4%	(10-150)	--	--	"	

TestAmerica - Portland, OR

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Brian Cone, Industrial Services Manager

SCOEPA00025310

TestAmerica
ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	12/28/06 08:22

Acid and Base/Neutral Extractables per EPA Method 625 - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 6120409 **Water Preparation Method: 3520B Liq-Liq**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (6120409-BS1)								Extracted: 12/12/06 09:01						
Bis(2-chloroisopropyl)ether	EPA 625	43.4	---	10.0	ug/l	1x	--	50.0	86.8%	(35-150)	--	--	12/15/06 03:05	
2-Chloronaphthalene	"	39.0	---	5.00	"	"	--	"	78.0%	(60-120)	--	--	"	
2-Chlorophenol	"	44.2	---	5.00	"	"	--	"	88.4%	(20-135)	--	--	"	
4-Chlorophenyl phenyl ether	"	44.9	---	5.00	"	"	--	"	89.8%	(25-150)	--	--	"	
Chrysene	"	46.1	---	5.00	"	"	--	"	92.2%	(15-150)	--	--	"	
Di-n-butyl phthalate	"	46.1	---	5.00	"	"	--	"	92.2%	(10-120)	--	--	"	
Di-n-octyl phthalate	"	49.6	---	5.00	"	"	--	"	99.2%	(10-150)	--	--	"	
Dibenzo (a,h) anthracene	"	45.1	---	5.00	"	"	--	"	90.2%	"	--	--	"	
1,2 Diphenylhydrazine (as Azobenzene)	"	42.6	---	5.00	"	"	--	"	85.2%	"	--	--	"	
1,2-Dichlorobenzene	"	33.8	---	5.00	"	"	--	"	67.6%	(10-130)	--	--	"	
1,3-Dichlorobenzene	"	30.9	---	5.00	"	"	--	"	61.8%	(10-150)	--	--	"	
1,4-Dichlorobenzene	"	32.2	---	5.00	"	"	--	"	64.4%	(10-125)	--	--	"	
3,3'-Dichlorobenzidine	"	47.4	---	5.00	"	"	--	40.0	118%	(10-150)	--	--	"	
2,4-Dichlorophenol	"	42.5	---	5.00	"	"	--	50.0	85.0%	(35-135)	--	--	"	
Diethyl phthalate	"	44.5	---	5.00	"	"	--	"	89.0%	(10-115)	--	--	"	
2,4-Dimethylphenol	"	28.9	---	10.0	"	"	--	"	57.8%	(30-120)	--	--	"	
Dimethyl phthalate	"	45.0	---	5.00	"	"	--	"	90.0%	(10-115)	--	--	"	
4,6-Dinitro-2-methylphenol	"	44.0	---	10.0	"	"	--	"	88.0%	(10-150)	--	--	"	
2,4-Dinitrophenol	"	40.4	---	25.0	"	"	--	"	80.8%	"	--	--	"	
2,4-Dinitrotoluene	"	40.5	---	5.00	"	"	--	"	81.0%	(35-140)	--	--	"	
2,6-Dinitrotoluene	"	39.1	---	5.00	"	"	--	"	78.2%	(50-150)	--	--	"	
Bis(2-ethylhexyl)phthalate	"	47.0	---	10.0	"	"	--	"	94.0%	(10-150)	--	--	"	
Fluoranthene	"	45.9	---	5.00	"	"	--	"	91.8%	(25-140)	--	--	"	
Fluorene	"	45.6	---	5.00	"	"	--	"	91.2%	(55-125)	--	--	"	
Hexachlorobenzene	"	42.2	---	5.00	"	"	--	"	84.4%	(10-150)	--	--	"	
Hexachlorobutadiene	"	33.7	---	10.0	"	"	--	"	67.4%	(10-120)	--	--	"	
Hexachlorocyclopentadiene	"	17.0	---	10.0	"	"	--	"	34.0%	(10-150)	--	--	"	
Hexachloroethane	"	30.0	---	10.0	"	"	--	"	60.0%	(10-115)	--	--	"	
Indeno (1,2,3-cd) pyrene	"	47.0	---	5.00	"	"	--	"	94.0%	(10-150)	--	--	"	
Isophorone	"	38.7	---	5.00	"	"	--	"	77.4%	(20-150)	--	--	"	
Naphthalene	"	40.6	---	5.00	"	"	--	"	81.2%	(20-135)	--	--	"	
Nitrobenzene	"	38.7	---	5.00	"	"	--	"	77.4%	(35-150)	--	--	"	
2-Nitrophenol	"	41.6	---	5.00	"	"	--	"	83.2%	(25-150)	--	--	"	
4-Nitrophenol	"	40.7	---	25.0	"	"	--	"	81.4%	(10-135)	--	--	"	
N-Nitrosodimethylamine	"	42.5	---	5.00	"	"	--	"	85.0%	(10-150)	--	--	"	
N-Nitrosodi-n-propylamine	"	45.7	---	10.0	"	"	--	"	91.4%	"	--	--	"	
N-Nitrosodiphenylamine	"	44.3	---	5.00	"	"	--	"	88.6%	"	--	--	"	
Pentachlorophenol	"	44.1	---	10.0	"	"	--	"	88.2%	"	--	--	"	
Phenanthrene	"	44.8	---	5.00	"	"	--	"	89.6%	(50-120)	--	--	"	

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Brian Cone, Industrial Services Manager

SCOEPA00025311

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ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name: **Monthly**	
7200 N.W. Front Ave	Project Number: PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager: Thomas Rothschild	12/28/06 08:22

Acid and Base/Neutral Extractables per EPA Method 625 - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 6120409 **Water Preparation Method: 3520B Liq-Liq**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (6120409-BS1)									Extracted: 12/12/06 09:01					
Phenol	EPA 625	45.6	---	5.00	ug/l	1x	--	50.0	91.2%	(10-115)	--	--	12/15/06 03:05	
Pyrene	"	44.0	---	5.00	"	"	--	"	88.0%	(50-125)	--	--	"	
1,2,4-Trichlorobenzene	"	35.5	---	5.00	"	"	--	"	71.0%	(10-145)	--	--	"	
2,4,6-Trichlorophenol	"	43.8	---	5.00	"	"	--	"	87.6%	(35-145)	--	--	"	
Surrogate(s): 2-Fluorobiphenyl		*Recovery: 83.5%*			*Limits: 22-120%*	"							*12/15/06 03:05*	
2-Fluorophenol		*82.0%*			*5-120%*	"							"	
Nitrobenzene-d5		*86.9%*			*26-127%*	"							"	
Phenol-d6		*84.0%*			*4-121%*	"							"	
p-Terphenyl-d14		*93.5%*			*37-130%*	"							"	
2,4,6-Tribromophenol		*94.0%*			*21-129%*	"							"	
LCS Dup (6120409-BSD1)									Extracted: 12/12/06 09:01					
Acenaphthene	EPA 625	41.6	---	5.00	ug/l	1x	--	50.0	83.2%	(45-145)	5.38%	(50)	12/15/06 03:50	
Acenaphthylene	"	36.2	---	5.00	"	"	--	"	72.4%	(30-145)	7.96%	"	"	
Anthracene	"	43.8	---	5.00	"	"	--	"	87.6%	(25-135)	3.15%	"	"	
Benzidine	"	47.6	---	60.0	"	"	--	40.0	119%	(0-169)	11.1%	"	"	L6
Benzo (a) anthracene	"	40.9	---	5.00	"	"	--	50.0	81.8%	(30-145)	10.6%	"	"	
Benzo (a) pyrene	"	39.8	---	5.00	"	"	--	"	79.6%	(15-150)	11.4%	"	"	
Benzo (b) fluoranthene	"	40.9	---	5.00	"	"	--	"	81.8%	(20-150)	9.55%	"	"	
Benzo (ghi) perylene	"	43.6	---	5.00	"	"	--	"	87.2%	(10-150)	6.44%	"	"	
Benzo (k) fluoranthene	"	45.6	---	5.00	"	"	--	"	91.2%	"	2.38%	"	"	
4-Bromophenyl phenyl ether	"	41.4	---	5.00	"	"	--	"	82.8%	(50-130)	5.63%	"	"	
Butyl benzyl phthalate	"	41.6	---	5.00	"	"	--	"	83.2%	(10-150)	7.85%	"	"	
4-Chloro-3-methylphenol	"	39.6	---	5.00	"	"	--	"	79.2%	(20-150)	9.16%	"	"	
Bis(2-chloroethoxy)methane	"	41.4	---	10.0	"	"	--	"	82.8%	(30-150)	8.55%	"	"	
Bis(2-chloroethyl)ether	"	41.4	---	5.00	"	"	--	"	82.8%	(10-150)	3.09%	"	"	
Bis(2-chloroisopropyl)ether	"	41.1	---	10.0	"	"	--	"	82.2%	(35-150)	5.44%	"	"	
2-Chloronaphthalene	"	38.0	---	5.00	"	"	--	"	76.0%	(60-120)	2.60%	"	"	
2-Chlorophenol	"	42.9	---	5.00	"	"	--	"	85.8%	(20-135)	2.99%	"	"	
4-Chlorophenyl phenyl ether	"	43.0	---	5.00	"	"	--	"	86.0%	(25-150)	4.32%	"	"	
Chrysene	"	42.0	---	5.00	"	"	--	"	84.0%	(15-150)	9.31%	"	"	
Di-n-butyl phthalate	"	45.6	---	5.00	"	"	--	"	91.2%	(10-120)	1.09%	"	"	
Di-n-octyl phthalate	"	46.6	---	5.00	"	"	--	"	93.2%	(10-150)	6.24%	"	"	
Dibenzo (a,h) anthracene	"	42.5	---	5.00	"	"	--	"	85.0%	"	5.94%	"	"	
1,2 Diphenylhydrazine (as Azobenzene)	"	40.7	---	5.00	"	"	--	"	81.4%	"	4.56%	"	"	
1,2-Dichlorobenzene	"	31.3	---	5.00	"	"	--	"	62.6%	(10-130)	7.68%	"	"	
1,3-Dichlorobenzene	"	28.0	---	5.00	"	"	--	"	56.0%	(10-150)	9.85%	"	"	
1,4-Dichlorobenzene	"	29.0	---	5.00	"	"	--	"	58.0%	(10-125)	10.5%	"	"	
3,3'-Dichlorobenzidine	"	44.4	---	5.00	"	"	--	40.0	111%	(10-150)	6.54%	"	"	
2,4-Dichlorophenol	"	40.4	---	5.00	"	"	--	50.0	80.8%	(35-135)	5.07%	"	"	

TestAmerica - Portland, OR

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Brian Cone, Industrial Services Manager

SCOEPA00025312

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ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name: **Monthly**	
7200 N.W. Front Ave	Project Number: PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager: Thomas Rothschild	12/28/06 08:22

Acid and Base/Neutral Extractables per EPA Method 625 - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 6120409 **Water Preparation Method: 3520B Liq-Liq**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS Dup (6120409-BSD1)								Extracted: 12/12/06 09:01						
Diethyl phthalate	EPA 625	43.7	---	5.00	ug/l	1x	--	50.0	87.4%	(10-115)	1.81%	(50)	12/15/06 03:50	
2,4-Dimethylphenol	"	26.6	---	10.0	"	"	--	"	53.2%	(30-120)	8.29%	"	"	
Dimethyl phthalate	"	43.1	---	5.00	"	"	--	"	86.2%	(10-115)	4.31%	"	"	
4,6-Dinitro-2-methylphenol	"	42.3	---	10.0	"	"	--	"	84.6%	(10-150)	3.94%	"	"	
2,4-Dinitrophenol	"	38.7	---	25.0	"	"	--	"	77.4%	"	4.30%	"	"	
2,4-Dinitrotoluene	"	39.2	---	5.00	"	"	--	"	78.4%	(35-140)	3.26%	"	"	
2,6-Dinitrotoluene	"	39.1	---	5.00	"	"	--	"	78.2%	(50-150)	0.00%	"	"	
Bis(2-ethylhexyl)phthalate	"	43.4	---	10.0	"	"	--	"	86.8%	(10-150)	7.96%	"	"	
Fluoranthene	"	43.3	---	5.00	"	"	--	"	86.6%	(25-140)	5.83%	"	"	
Fluorene	"	43.8	---	5.00	"	"	--	"	87.6%	(55-125)	4.03%	"	"	
Hexachlorobenzene	"	41.0	---	5.00	"	"	--	"	82.0%	(10-150)	2.88%	"	"	
Hexachlorobutadiene	"	33.2	---	10.0	"	"	--	"	66.4%	(10-120)	1.49%	"	"	
Hexachlorocyclopentadiene	"	15.4	---	10.0	"	"	--	"	30.8%	(10-150)	9.88%	"	"	
Hexachloroethane	"	28.1	---	10.0	"	"	--	"	56.2%	(10-115)	6.54%	"	"	
Indeno (1,2,3-cd) pyrene	"	43.6	---	5.00	"	"	--	"	87.2%	(10-150)	7.51%	"	"	
Isophorone	"	37.4	---	5.00	"	"	--	"	74.8%	(20-150)	3.42%	"	"	
Naphthalene	"	38.0	---	5.00	"	"	--	"	76.0%	(20-135)	6.62%	"	"	
Nitrobenzene	"	35.8	---	5.00	"	"	--	"	71.6%	(35-150)	7.79%	"	"	
2-Nitrophenol	"	38.0	---	5.00	"	"	--	"	76.0%	(25-150)	9.05%	"	"	
4-Nitrophenol	"	41.0	---	25.0	"	"	--	"	82.0%	(10-135)	0.734%	"	"	
N-Nitrosodimethylamine	"	41.6	---	5.00	"	"	--	"	83.2%	(10-150)	2.14%	"	"	
N-Nitrosodi-n-propylamine	"	44.6	---	10.0	"	"	--	"	89.2%	"	2.44%	"	"	
N-Nitrosodiphenylamine	"	41.2	---	5.00	"	"	--	"	82.4%	"	7.25%	"	"	
Pentachlorophenol	"	41.6	---	10.0	"	"	--	"	83.2%	"	5.83%	"	"	
Phenanthrene	"	44.2	---	5.00	"	"	--	"	88.4%	(50-120)	1.35%	"	"	
Phenol	"	42.7	---	5.00	"	"	--	"	85.4%	(10-115)	6.57%	"	"	
Pyrene	"	41.0	---	5.00	"	"	--	"	82.0%	(50-125)	7.06%	"	"	
1,2,4-Trichlorobenzene	"	33.2	---	5.00	"	"	--	"	66.4%	(10-145)	6.70%	"	"	
2,4,6-Trichlorophenol	"	40.7	---	5.00	"	"	--	"	81.4%	(35-145)	7.34%	"	"	
Surrogate(s):	*2-Fluorobiphenyl*	*Recovery:*	*74.9%*		*Limits:*	*22-120%*	"						*12/15/06 03:50*	
	2-Fluorophenol		*78.0%*			*5-120%*	"						"	
	Nitrobenzene-d5		*82.7%*			*26-127%*	"						"	
	Phenol-d6		*80.0%*			*4-121%*	"						"	
	p-Terphenyl-d14		*86.5%*			*37-130%*	"						"	
	2,4,6-Tribromophenol		*89.3%*			*21-129%*	"						"	

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Brian Cone, Industrial Services Manager

SCOEPA00025313

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ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Monthly**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	12/28/06 08:22

Conventional Chemistry Parameters per APHA/EPA Methods - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 6120235 **Water Preparation Method: General Preparation**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6120235-BLK1)								Extracted: 12/07/06 09:20						
Biochemical Oxygen Demand	EPA 405.1	ND	---	4.00	mg/l	1x	--	--	--	--	--	--	12/12/06 12:39	
LCS (6120235-BS1)								Extracted: 12/07/06 09:20						
Biochemical Oxygen Demand	EPA 405.1	187	---	4.00	mg/l	1x	--	198	94.4%	(80-130)	--	--	12/12/06 12:39	
Duplicate (6120235-DUP1)						QC Source: PPL0167-01		Extracted: 12/07/06 09:20						
Biochemical Oxygen Demand	EPA 405.1	73.4	---	4.00	mg/l	1x	74.2	--	--	--	1.08%	(40)	12/12/06 12:39	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Brian Cone, Industrial Services Manager

SCOEPA00025314

TestAmerica
ANALYTICAL TESTING CORPORATION

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BEAVERTON, OR 97008-7132
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Portland, OR 97210	Project Manager:	Thomas Rothschild	12/28/06 08:22

Notes and Definitions

Report Specific Notes:

L6 - Per the EPA methods, benzidine is known to be subject to oxidative losses during solvent concentration.

Z6 - Surrogate recovery was below acceptance limits.

Laboratory Reporting Conventions:

DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.

ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).

NR/NA - Not Reported / Not Available

dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.

wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.

RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).

MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.

MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.

Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.

Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.

Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy.* Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Brian Cone, Industrial Services Manager

SCOEPA00025315

Monitoring Well Water Levels - 1986

Well	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	9.06	—	5.38	8.25	10.17	11.85	12.85	—	14.13	14.90	15.04	10.22
2	6.40	—	3.25	8.83	10.27	11.44	12.23	—	11.60	13.75	14.13	12.52
3	14.50	—	11.89	13.50	14.25	15.00	15.54	—	16.10	16.42	16.44	15.27
4	12.78	—	7.00	10.00	11.63	13.08	14.10	—	15.18	15.88	16.17	12.79
5	5.30	—	7.22	10.13	11.92	13.42	14.35	—	15.42	16.21	16.46	15.38
6	14.68	—	10.63	13.17	14.08	11.10	15.46	—	16.25	16.42	16.50	15.38
7	15.68	—	12.04	13.88	14.94	14.96	17.00	—	18.08	18.25	18.17	16.31
B-105	—	—	—	—	—	—	—	—	—	—	20.65	19.73
B-108	—	—	17.77	20.50	20.17	21.90	22.50	—	24.63	24.54	23.75	22.44

2-25-86
JJR

SCOEPA00025316

Monitoring Well Water Levels - 1987

Well	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	7.75	3.71	3.16	5.58	9.67	—	13.02	13.62	14.71	—	15.54	17.17
2	5.46	2.25	2.81	4.29	10.88	—	13.33	13.92	15.00	—	15.85	14.25
3	14.06	10.63	10.63	12.23	14.23	—	15.79	16.38	16.62	—	16.96	13.02
4	10.56	6.50	6.27	8.42	11.29	—	14.40	15.00	15.96	—	16.88	10.77
5	12.96	6.13	5.81	7.75	11.04	—	14.38	15.04	14.46	—	16.75	16.29
6	14.46	10.52	11.94	11.52	13.88	—	15.65	16.08	18.79	—	17.00	16.17
7	15.43	10.92	11.02	12.33	14.85	—	17.40	18.17	16.76	—	19.29	16.33
B105	18.42	18.04	18.13	19.79	18.54	—	20.90	21.62	22.12	—	22.77	19.73
B108	21.42	20.65	20.69	21.67	21.33	—	23.81	19.67	25.04	—	25.46	22.88

2-25-88
JJR

SCOEPA00025317

MONITORING WELLS BENCHSHEET

1. Measured By: T. J. Rothschild / Justin Darr

2. Date: 19 Jan 88

3. River Levels: High Level (last 24 hours): 8.8 Feet at Time: 6:00 PM

   Low Level (last 24 hours) : 7.1 Feet at Time: 5:00 AM

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1450 Ending Time: 1545

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	6' 0"	6.00
2	4' 6 1/2"	4.54
3	14" 5 1/4"	14.44
4	8' 3 1/2"	8.29
5	14' 4 1/2"	14.38
6	14" 11"	14.92
7	15' 8"	15.67
B105	18' 5"	18.42
B108	21' 6"	21.5

Comments: _____

TJR 11-19-87
12-15-87 Rev

SCOEPA00025318

MONITORING WELLS BENCHSHEET

1. Measured By: Tom Rothschild / Tom Bently

2. Date: 2-24-88

3. River Levels: High Level (last 24 hours): 5.8 Feet at Time: 10:00 AM 2-23-88

   Low Level (last 24 hours) : 3.5 Feet at Time: 6:00 AM 2-24-88

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1420 Ending Time: 1455

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	7' 7"	7.60
2	11' 4 1/2"	11.38
3	14' 7 3/4"	14.65
4	9' 6 1/2"	9.54
5	12' 5 1/2"	12.46
6	14' 4 1/4"	14.35
7	15' 11 1/4"	15.94
B105	19' 10 3/4"	19.90
B108	22' 11 3/4"	22.98

Comments: _____

TJR 11-19-87
12-15-87 Rev

SCOEPA00025319

MONITORING WELLS BENCHSHEET

1. Measured By: T. J. Rothschild / Pat Tapley

2. Date: 3-31-88

3. River Levels: High Level (last 24 hours): 6.8 Feet at Time: 5 Pm wed

   Low Level (last 24 hours) : 5.0 Feet at Time: 2 Am Thurs

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 13:55 Ending Time: 14:45

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	7' 6"	7.50
2	5' 7"	5.58
3	14' 8"	14.67
4	13' 2' 1/4"	13.19
5	12' 7"	12.58
6	14' 5 1/2"	14.46
7	15' 11 3/4"	15.98
B105		19.65
B108	19' 7 3/4" / 22' 6"	22.50

Comments: _____

TJR 11-19-87
12-15-87 Rev

SCOEPA00025320

MONITORING WELLS BENCHSHEET

1. Measured By: T. J. Rothschild / Ron Lewis
2. Date: 27 Apr 88
3. River Levels: High Level (last 24 hours): 5.3 Feet at Time: 4:00 AM
   Low Level (last 24 hours) : 3.4 Feet at Time: 12 midnight
4. Measuring Point: Top of Standpipe.
5. Measurements: Starting Time: 1510 Ending Time: 1610

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	7' 5 1/2"	7.46
2	5' 10 1/2"	5.89
3	14' 3 1/2"	14.30
4	10' 11"	10.92
5	11' 4"	11.33
6	14' 1 1/2"	14.12
7	15' 7 1/2"	15.62
B105	19' 8"	19.67
B108	22' 6 1/2"	22.54

Comments: _____

TJR 11-19-87
12-15-87Rev

SCOEPA00025321

MONITORING WELLS BENCHSHEET

1. Measured By: T. J. Bothschild / Ben Lewis

2. Date: 5-25-88

3. River Levels: High Level (last 24 hours): 5.9 Feet at Time: 3:00 AM

Low Level (last 24 hours) : 4.3 Feet at Time: 9:00 PM

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1440 Ending Time: 1540

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	~~14' 7 1/2"~~ 8' 10"	8.83
2	11' 11"	11.92
3	14' 7 1/2"	14.62
4	11' 7 1/2"	11.62
5	11' 10"	11.83
6	12' 8"	12.67
7	15' 6 3/4"	15.56
B105	19' 1/4"	19.02
B108	21' 11 1/2"	21.96

Comments: _____

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TJR 11-19-87
12-15-87 Rev

SCOEPA00025322

MONITORING WELLS BENCHSHEET

1. Measured By: T.J. Rothschild / —

2. Date: 6-15-88

3. River Levels: High Level (last 24 hours): 5.9 Feet at Time: 7:00 AM

Low Level (last 24 hours) : 2.8 Feet at Time: 2:00 PM 6-14-88

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1020 Ending Time: 1100

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	7' 8 1/2"	7.71
2	12' 7 3/4" ~~14' 9 3/4"~~	12.65
3	14' 9 3/4"	14.81
4	12' 4"	12.33
5	12' 9 3/4"	12.81
6	14' 6 1/2"	14.54
7	15' 11"	15.92
B105	19' 3 1/2"	19.29
B108	22' 4"	22.33

Comments: _____

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TJR 11-19-87
12-15-87 Rev

SCOEPA00025323

MONITORING WELLS BENCHSHEET

1. Measured By: T. J. Rothschild /_____

2. Date: 20 July 88

3. River Levels: High Level (last 24 hours): 4.0 Feet at Time: 11:00 PM

   Low Level (last 24 hours) : 0.5 Feet at Time: 6:00 PM

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 0730 Ending Time: 0830

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	12' 8 1/2"	12.71
2	13' 7 1/4"	13.60
3	15' 5"	15.42
4	10' 9 1/4"	10.77
5	11' 1 1/2"	11.13
6	15' 3 1/4"	15.27
7	17' 1/2"	17.04
B105	19' 9 1/2"	19.79
B108	24' 1/4"	24.02

Comments: _____

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TJR 11-19-87
12-15-87 Rev

SCOEPA00025324

MONITORING WELLS BENCHSHEET

1. Measured By: T. J. Rothschild / —
2. Date: 15 Aug 88
3. River Levels: High Level (last 24 hours): 4.0 Feet at Time: 10:00 PM
   Low Level (last 24 hours) : 0.8 Feet at Time: 5:00 PM
4. Measuring Point: Top of Standpipe.
5. Measurements: Starting Time: 10:45 AM Ending Time: 11:40 AM

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	13' 8 1/2"	13.71
2	14' 3 1/2"	14.29
3	15' 11 1/2"	15.96
4	14' 8 1/2"	14.71
5	14' 9 3/4"	14.81
6	15' 9 3/4"	15.81
7	17' 11 3/4"	17.98
B105	20' 2 1/4"	20.19
B108	24' 6 1/4"	24.52

Comments: _____

TJR 11-19-87
12-15-87 Rev

SCOEPA00025325

MONITORING WELLS BENCHSHEET

1. Measured By: T. J. Rothschild /

2. Date: 9-14-88

3. River Levels: High Level (last 24 hours): 4.9 Feet at Time: 8:00 PM

Low Level (last 24 hours) : 1.81.7 Feet at Time: 5:00 AM

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1545 Ending Time: 1640

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	14' 5"	14.42
~~32~~	16' 5 1/4	16.44
~~23~~	15' 0"	15.06
4	15' 6 1/4"	15.52
5	15' 5 1/2"	15.46
6	16' 3 3/4"	16.31
7	18' 8"	18.67
B105	20' 5 1/2" +15"	21.71
B108	25' 3/4" +15"	26.31

Comments: B105 and B108 standpipes broken. ∴ Add ~15"

TJR 11-19-87
12-15-87 Rev

SCOEPA00025326

MONITORING WELLS BENCHSHEET

1. Measured By: Thomas J. Rothschild
2. Date: 10-19-88
3. River Levels: High Level (last 24 hours): 4.3 Feet at Time: 11:00 PM
   Low Level (last 24 hours) : 1.7 Feet at Time: 10:30 AM
4. Measuring Point: Top of Standpipe.
5. Measurements: Starting Time: 1255 Ending Time: 1350

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	15' 1 1/4"	15.10
2	15' 8 1/2"	15.71
3	16' 9 1/2"	16.79
4	16' 1 1/2"	16.13
5	16' 1 3/4"	16.15
6	16' 8 3/4"	16.73
7	19' 1"	19.08
B105	21' 9 1/4"	21.77
B108	24' 6 1/4"	24.52

Comments: _____

TJR 11-19-87
12-15-87 Rev

SCOEPA00025327

T. J. Rothschild

11-17-88

5.4 feet at 10:00 PM

4.0 7:00 AM

0955 1055

1	7' 1½"	7.13
2	15' 9¾"	15.81
	16' 10"	16.83
	16' 5"	16.42
	16' 5"	16.42
	16' 6¼"	16.52
	18' 8¼"	18.69
	20' 9¾"	20.81
	23' 7¼"	23.60

SCOEPA00025328

MONITORING WELLS BENCHSHEET

1. Measured By: T. J. Rothschild / ~

2. Date: 12-27-88

3. River Levels: High Level (last 24 hours): 5.4 Feet at Time: 8:00PM

   Low Level (last 24 hours) : 3.4 Feet at Time: 5:00Am

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1430 Ending Time: 1525

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	8' 1/2"	8.04
2	6' 4 1/2	6.38
3	15' 7 1/4	15.60
4	8' 3 1/2	8.29
5	15' 6 1/4	15.52
6	15' 9 1/2"	15.79
7	17' 4"	17.33
B105	19' 8 1/2"	19.71
B108	22' 2 1/2	22.21

Comments: _____

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TJR 11-19-87
12-15-87 Rev

SCOEPA00025329

MONITORING WELLS BENCHSHEET

1. Measured By: T. J. Rothschild /

2. Date: 19 Jan 89

3. River Levels: High Level (last 24 hours): 8.0 Feet at Time: 4:00 PM

Low Level (last 24 hours) : 6.8 Feet at Time: 2:00 AM

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1310 Ending Time: 1400

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	6' 10"	6.83
2	6' 0"	6.00
3	14' 8 3/4"	14.73
4	8' 10"	8.83
5	13' 5 1/4"	13.44
6	15' 0"	15.00
7	15' 11"	15.92
B105	17' 11 1/2"	17.94
B108	20' 8 1/4"	20.69

Comments: _____

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TJR 11-19-87
12-15-87Rev

SCOEPA00025330

MONITORING WELLS BENCHSHEET

1. Measured By: Tom Rothschild / _____

2. Date: 20 Mar 89

3. River Levels: High Level (last 24 hours): 7.0 Feet at Time: 4:00PM

   Low Level (last 24 hours) : 6.1 Feet at Time: 1:00AM

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 10:50 Ending Time: 11:45

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	4' 3 1/4"	4.26
2	3' 3 1/2"	3.28
3	12' 5 1/4"	12.42
4	7' 8"	7.67
5	7' 10 1/4"	7.82
6	12' 2"	12.16
7	13' 6"	13.5
B105	17' 7"	17.56
B108	20' 1 3/4"	20.14

Comments: _____

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TJR 11-19-87
12-15-87Rev

SCOEPA00025331

MONITORING WELLS BENCHSHEET

1. Measured By: T.J. Rothschild / —

2. Date: 4-20-89

3. River Levels: High Level (last 24 hours): 7.9 Feet at Time: 7:00AM

   Low Level (last 24 hours) : 6.6 Feet at Time: 3:00Pm

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1430 Ending Time: 1530

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	6' 1"	6.08
2	5' 1/2"	5.04
3	12' 1"	12.08
4	8' 9 1/2"	8.79
5	8' 7 3/4"	8.65
6	12' 3/4"	12.06
7	13' 3/4"	13.06
B105	17' 1 3/4"	17.15
B108	19' 8 1/2"	19.71

Comments: _____

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TJR 11-19-87
12-15-87Rev

SCOEPA00025332

MONITORING WELLS BENCHSHEET

1. Measured By: T. J. Rothschild / Jerry Linden

2. Date: 5-24-89

3. River Levels: High Level (last 24 hours): 7.3 Feet at Time: 11:00 PM

Low Level (last 24 hours) : 6.4 Feet at Time: 6:00 PM

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1310 Ending Time: 1410

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	10' 1/2"	10.04
2	12' -	12.00
3	14' 2"	14.17
4	9' 7"	9.58
5	11' 2"	11.17
6	13' 6"	13.50
7	14' 9"	14.75
B105	17' 6'	17.50
B108	20' 2"	20.17

Comments: _____

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TJR 11-19-87
12-15-87 Rev

SCOEPA00025333

MONITORING WELLS BENCHSHEET

1. Measured By: Thomas J. Rothschild

2. Date: 6-13-89

3. River Levels: High Level (last 24 hours): 6.6 Feet at Time: 0200 AM

   Low Level (last 24 hours) : 4.6 Feet at Time: 1000 AM

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1245 Ending Time: 1345

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	11' 4 1/2"	11.38
2	12' 5 3/4"	15.48
3	14' 8"	14.67
4	~~##~~ 12' 3 1/2"	12.29
5	12' 6"	12.50
6	14' 3 3/4"	14.31
7	15' 7"	15.58
B105	18' 2 3/4"	18.23
B108	20' 11 1/2"	20.96

Comments: _____

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TJR 11-19-87
12-15-87Rev

SCOEPA00025334

MONITORING WELLS BENCHSHEET

1. Measured By: Thomas J. Rothschild

2. Date: 7-26-89

3. River Levels: High Level (last 24 hours): 4.5 Feet at Time: 1:00 AM

   Low Level (last 24 hours) : 0.5 Feet at Time: 7:00 PM

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1350 Ending Time: 1445

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	13' 3"	13.25
2	10' 11¼"	10.94
3	15' 8"	15.67
4	14' 5½"	14.46
5	14' 3¼"	14.27
6	15' 5¾"	15.48
7	17' 6½"	17.54
B105	20' 11½"	20.96
B108	23' 4"	23.33

Comments: _____

TJR 11-19-87
12-15-87Rev

SCOEPA00025335

MONITORING WELLS BENCHSHEET

1. Measured By: T.J. Rothschild / —

2. Date: 8-24-89

3. River Levels: High Level (last 24 hours): 4.8 Feet at Time: 1200 midnight

   Low Level (last 24 hours) : 1.1 Feet at Time: 7:00pm

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1230 Ending Time: 1320

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	14' 1 3/4"	14.15
2	14' 8 1/4"	14.69
3	16' 1/2"	16.04
4	15' 3"	15.25
5	15' 0"	15.00
6	16' 1/2"	16.04
7	18' 1"	18.08
B105	21' 4 3/4"	21.40
B108	23' 9 3/4"	23.81

Comments: _____

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TJR 11-19-87
12-15-87Rev

SCOEPA00025336

MONITORING WELLS BENCHSHEET

1. Measured By: Thomas J. Rothschild

2. Date: 9-25-89

3. River Levels: High Level (last 24 hours): 4.4 Feet at Time: 3:00 AM

   Low Level (last 24 hours) : 0.6 Feet at Time: 11:00 AM

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1310 Ending Time: 1405

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	14' 9 1/2"	14.79
2	15' 1 3/4"	15.15
3	16' 4"	16.33
4	15* 11"	15.92
5	15' 7 1/4"	15.60
6	16' 3 1/2"	16.29
7	18' 8"	18.67
B105	21' 5"	21.52
B108	24' 7"	24.58

Comments: _____

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TJR 11-19-87
12-15-87 Rev

SCOEPA00025337

MONITORING WELLS BENCHSHEET

1. Measured By: T. J. Rothschild /

2. Date: 10-19-89

3. River Levels: High Level (last 24 hours): 5.5 Feet at Time: 9:00 PM

   Low Level (last 24 hours) : 1.5 Feet at Time: 7:00 AM

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: _____ Ending Time: _____

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	15' 2 1/4"	15.19
2	15' 3 3/4"	15.31
3	16' 6 3/4"	16.56
4	16' 3 3/4"	16.31
5	15' 11"	15.92
6	16' 6" ~~18' 10"~~	16.5
7	18' 10"	18.83
B105	21' 6 1/4"	21.52
B108	24' 0"	24.0

Comments: _____

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TJR 11-19-87
12-15-87 Rev

SCOEPA00025338

MONITORING WELLS BENCHSHEET

1. Measured By: T. J. Rothschild / —

2. Date: 27 Nov 89

3. River Levels: High Level (last 24 hours): 5.8 Feet at Time: 4:00PM

   Low Level (last 24 hours) : 2.8 Feet at Time: 11:00AM

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1050 Ending Time: 1140

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	10' 11 3/4"	10.98
2	16' 1"	16.08
3	16' 7 1/4"	16.60
4	16' 8 3/4"	16.73
5	16' 4 3/4"	16.40
6	16' 6 3/4"	16.56
7	18' 6 3/4"	18.56
B105	20' 9 1/4"	20.77
B108	23' 5"	23.42

Comments: _____

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TJR 11-19-87
12-15-87 Rev

SCOEPA00025339

MONITORING WELLS BENCHSHEET

1. Measured By: T.J. Rothschild / —

2. Date: 12-27-88

3. River Levels: High Level (last 24 hours): 4.7 Feet at Time: 5:00 PM

Low Level (last 24 hours) : 1.3 Feet at Time: 3:00 AM

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1330 Ending Time: 1415

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	14' 9½"	14.79
2	15' 4¾"	15.40
3	16' 1¼"	16.10
4	12' 6¼"	12.52
5	15' 11½"	15.96
6	16' 1¾"	16.15
7	18' 0½"	18.04
B105	20' 10½"	20.85
B108	23' 3¾"	23.31

Comments: Paths looked newly mowed. Car parked with engine running at well #3 at ~1400 (older Toyota or Datsun, Oregon)

TJR 11-19-87
12-15-87 Rev

SCOEPA00025340

MONITORING WELLS BENCHSHEET

1. Measured By: T. J. Rothschild / —

2. Date: 1-24-90

3. River Levels: High Level (last 24 hours): 6.1 Feet at Time: 3:05 PM

   Low Level (last 24 hours) : 3.9 Feet at Time: 12:00

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1505 Ending Time: 1545

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	7' 10½"	7.88
2	6' 4½"	6.38
3	14' 11¼"	14.94
4	7' 7½"	7.63
5	13' 9¼"	13.77
6	15' ¼"	15.02
7	16' 5"	16.42
B105	19' 4½"	19.38
B108	21' 10½"	21.88

Comments: _____

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TJR 11-19-87
12-15-87Rev

SCOEPA00025341

MONITORING WELLS BENCHSHEET

1. Measured By: Tom Rothschild / ~

2. Date: 2-26-90

3. River Levels: High Level (last 24 hours): 7.0 Feet at Time: 0700

Low Level (last 24 hours) : 5.2 Feet at Time: 1400 PM

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1345 Ending Time: 1436

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	4' 1/4"	4.02
2	2' 9 1/2"	2.79
3	11' 4"	11.33
4	6' 1/4"	6.02
5	6' 7"	6.58
6	10' 8 1/2"	10.71
7	11' 2 1/2"	11.21
B105	17' 3 1/4"	17.27
B108	19' 8 3/4"	19.73

Comments: _____

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TJR 11-19-87
12-15-87 Rev

SCOEPA00025342

MONITORING WELLS BENCHSHEET

1. Measured By: T. J. Rothschild / —

2. Date: 3-28-90

3. River Levels: High Level (last 24 hours): 8.1 Feet at Time: 6:00 PM

Low Level (last 24 hours) : 6.6 Feet at Time: 3:00 AM

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1315 Ending Time: 1400

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	5' 5½"	5.46
2	4' 5¼"	4.44
3	12' 2"	12.17
4	6' 11¼"	6.94
5	8' 1"	8.08
6	11' 6¾"	11.56
7	12' 6½"	12.54
B105	17' ¼"	17.02
B108	19' 7¼"	19.60

Comments: _____

TJR 11-19-87
12-15-87Rev

SCOEPA00025343

MONITORING WELLS BENCHSHEET

1. Measured By: T.J. Rothschild /

2. Date: 4-18-90

3. River Levels: High Level (last 24 hours): 5.3 Feet at Time: 11:00AM

Low Level (last 24 hours) : 4.0 Feet at Time: 8:00pm

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1345 Ending Time: 1430

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	7' 3/4"	7.06
2	7' 11 1/4"	7.94
3	13' 3"	13.25
4	8" 10 1/4"	8.85
5	9' 11"	9.92
6	12' 7 3/4"	12.65
7	13' 11"	13.92
B105	18' 7"	18.58
B108	21' 0"	21.0

Comments: _____

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TJR 11-19-87
12-15-87 Rev

SCOEPA00025344

MONITORING WELLS BENCHSHEET

1. Measured By: Tom Rothschild / —

2. Date: 30 May 90

3. River Levels: High Level (last 24 hours): 7.0 Feet at Time: 10:00AM

Low Level (last 24 hours) : 5.4 Feet at Time: 8:00PM

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 0850 Ending Time: 0950

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	7' 10 3/4"	7.90
2	12' 5 1/2"	12.46
3	14' 4"	14.33
4	12' 5"	12.42
5	12' 7 1/2"	12.63
6	14' 1/2"	14.04
7	15' 4 1/2"	15.38
B105	18' 1 1/2"	18.13
B108	20' 8 3/4"	20.73

Comments: Weeds not cut down for MW-5 and MW-4

TJR 11-19-87
12-15-87Rev

SCOEPA00025345

MONITORING WELLS BENCHSHEET

1. Measured By: T. J. Rothschild / —

2. Date: 6-25-90

3. River Levels: High Level (last 24 hours): 8.4 Feet at Time: 10:00 PM

Low Level (last 24 hours) : 7.4 Feet at Time: 5:00 AM

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1340 Ending Time: 1440

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	12' 1/2"	12.04
2	13' 1 3/4"	13.15
3	See Note	—
4	13' 1 3/4"	13.15
5	13' 6"	13.5
6	14' 3 3/4"	14.31
7	15' 7 1/4"	15.60
B105	17' 1 1/4"	17.10
B108	19' 11 3/4"	19.98

Comments: Well #4: Could not take reading because work crew digging another well within 4 feet.

TJR 11-19-87
12-15-87 Rev

SCOEPA00025346

MONITORING WELLS BENCHSHEET

1. Measured By: Tom Rothschild / —
2. Date: 8-18-90
3. River Levels: High Level (last 24 hours): 6.3 Feet at Time: 2:00 AM
   Low Level (last 24 hours) : 3.0 Feet at Time: 9:00 PM
4. Measuring Point: Top of Standpipe.
5. Measurements: Starting Time: 1405 Ending Time: 1505

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	12' 10 1/4"	12.85
2	13' 6 3/4"	13.56
3	15'	15.00
4	14'. 1/4"	14.02
5	13'. 11 3/4"	13.98
6	14' 9 3/4"	14.81
7	16' 4 3/4"	16.70
B105	19' 7 1/4"	19.60
B108	21' 9"	21.75

Comments: _____

TJR 11-19-87
12-15-87 Rev

SCOEPA00025347

MONITORING WELLS BENCHSHEET

1. Measured By: Tom Rothschild / —

2. Date: 8-24-90

3. River Levels: High Level (last 24 hours): 5.7 Feet at Time: 8:00Pm

   Low Level (last 24 hours) : 2.3 Feet at Time: 5:00Pm

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1240 Ending Time: 1320

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	13' 11 3/4"	13.98
2	14' 6 1/4"	14.52
3	15' 8"	15.67
4	15' 1 3/4	15.15
5	14' 10"	14.83
6	15' 6 1/2	15.54
7	17' 6 1/2"	17.54
B105	20' 5 1/2"	20.46
B108	22' 9"	22.75

Comments: _____

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TJR 11-19-87
12-15-87Rev

SCOEPA00025348

MONITORING WELLS BENCHSHEET

1. Measured By: Tom Rothschild / —

2. Date: 9-20-90

3. River Levels: High Level (last 24 hours): 5.7 Feet at Time: 7:00 PM

Low Level (last 24 hours) : 2.2 Feet at Time: 3.00 PM

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1320 Ending Time: 1405

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	14' 7 1/4"	14.60
2	15' 2"	15.17
3	16' 3/4"	16.06
4	15' 9 1/4"	15.77
5	15' 4"	15.33
6	15' 11 3/4"	15.98
7	18' 1 1/4"	18.10
B105	20' 9 1/2"	20.79
B108	23' 4 1/4"	23.35

Comments: Environmental Monitoring Service readings were within ~ 0.1 inch of mine.

TJR 11-19-87
12-15-87 Rev

SCOEPA00025349

MONITORING WELLS BENCHSHEET

1. Measured By: Tom Rothschild / —

2. Date: 10-25-90

3. River Levels: High Level (last 24 hours): 4.7 Feet at Time: 10:00 PM

Low Level (last 24 hours) : 2.0 Feet at Time: 7:00 AM

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1320 Ending Time: 1400

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	15' 1/2"	15.04
2	15' 6"	15.50
3	16' 3 3/4	16.31
4	16' 4"	16.33
5	15' 10 1/2"	15.88
6	16' 3 3/4"	16.31
7	18' 4 1/2	18.38
B105	21' 1 1/4"	21.10
B108	23' 5 3/4"	23.48

Comments: _____

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TJR 11-19-87
12-15-87 Rev

SCOEPA00025350

MONITORING WELLS BENCHSHEET

1. Measured By: Tom Rothschild / —

2. Date: 14 Nov 90

3. River Levels: High Level (last 24 hours): 6.3 Feet at Time: 3 PM

Low Level (last 24 hours) : 4.5 Feet at Time: 11 AM

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1310 Ending Time: 1355

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	8" 1"	8.08
2	15' 8½"	15.71
3	16' 0"	16.00
4	16' 4¾"	16.40
5	16' ¼"	16.02
6	16' ¾"	16.06
7	17' 11"	17.92
B105	19' 10½"	19.88
B108	22' 6"	22.50

Comments: Party sunny; grass very wet.
Environmental Monitoring Service's readings were very close to mine

TJR 11-19-87
12-15-87 Rev

Wells 14 Nov 90 3pd

12·00 +M
0· *
1· ÷
12·00 ◊M
12·00 = *
0·08
8·5 ÷
12·00 ◊M
12·00 = *
0·71
4·75 ÷
12·00 ◊M
12·00 =

SCOEPA00025351

MONITORING WELLS BENCHSHEET

1. Measured By: Tom Rothschild / —

2. Date: 12-27-90

3. River Levels: High Level (last 24 hours): 6.1 Feet at Time: 1:00 PM 12-26-90

   Low Level (last 24 hours) : 3.5 Feet at Time: 7:00 AM

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1300 Ending Time: 1400

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	11' 6"	11.50
2	14' 3 1/4"	14.27
3	15' 3 1/2"	15.29
4	8' 3 1/2	8.29
5	15' 2 1/2"	15.21
6	15' 4 1/2"	15.38
7	16' 7"	16.58
B105	19' 2 1/4"	19.19
B108	21' 7 3/4"	21.65

Comments: Very wet; drizzle

TJR 11-19-87
12-15-87 Rev

SCOEPA00025352

MONITORING WELLS BENCHSHEET

1. Measured By: T. J. Rothschild /

2. Date: 1-30-91

3. River Levels: High Level (last 24 hours): 8.5 Feet at Time: 5:00 PM

   Low Level (last 24 hours) : 7.1 Feet at Time: 8:00 AM

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1205 Ending Time: 1250

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	7' 11 1/4"	7.94
2	13' 1"	13.08
3	14' 9"	14.75
4	8' 1 1/2"	8.13
5	13' 5 1/2"	13.46
6	14' 9 1/2	14.79
7	16' 1 1/4"	16.10
B105	17' 10 1/2"	17.88
B108	20' 5 3/4"	20.48

Comments: Cold (~35°F); Partly Sunny

TJR 11-19-87
12-15-87 Rev

SCOEPA00025353

MONITORING WELLS BENCHSHEET

1. Measured By: Tom Rothschild / —

2. Date: 2-27-91

3. River Levels: High Level (last 24 hours): 7.5 Feet at Time: 4:00 Pm

Low Level (last 24 hours) : 6.2 Feet at Time: 2:00 Am

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1315 Ending Time: 1355

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	6' 1"	6.08
2	6' 1/4"	6.02
3	13' 9"	13.75
4	6' 11 1/2"	6.96
5	10' 8 3/4"	10.73
6	13' 8 1/2"	13.71
7	15' 1/4"	15.02
B105	~~16~~ 17' 8"	17.67
B108	20' 1"	20.08

Comments: _____

TJR 11-19-87

Monitoring Wells 2-27-91

12.00 +M
0. *
1. ÷ 12.00 ◊M
12.00 = 0.08 *
0.25 ÷ 12.00 ◊M
12.00 = 0.02 *
11.5 ÷ 12.00 ◊M
12.00 = 0.96 *
8.75 ÷ 12.00 ◊M
12.00 = 0.73 *
8.5 ÷ 12.00 ◊M
12.00 = 0.71 *

SCOEPA00025354

MONITORING WELLS BENCHSHEET

1. Measured By: Tom Rothschild / —

2. Date: 3-29-91

3. River Levels: High Level (last 24 hours): 7.4 Feet at Time: 6:00 AM

Low Level (last 24 hours) : 6.0 Feet at Time: 1:00 AM

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1410 Ending Time: 1450

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	6' 2¼"	6.19
2	6' 6¼"	6.52
3	13' 3"	13.25
4	6' 10"	6.83
5	9' 6¼"	9.52
6	12' 9½"	12.79
7	13' 10"	13.83
B105	17' 6¼"	17.52
B108	19' 11¼"	19.94

Comments: _____

TJR 11-19-87

3-29-91
monitoring wells
TJR

12.000 +M
0. *
2.25 ÷
12.000 ◊M
12.000 =
0.188 *
6.25 ÷
12.000 ◊M
12.000 =
0.52 *
10. ÷
12.000 ◊M
12.000 =
0.83 *
9.5 ÷
12.000 ◊M
12.000 =
0.79 *
11.25 ÷
12.000 ◊M
12.000 =
0.94 *

SCOEPA00025355

MONITORING WELLS BENCHSHEET

1. Measured By: Tom Rothschild / —

2. Date: 4-19-91

3. River Levels: High Level (last 24 hours): 8.7 Feet at Time: 8:00 AM 4-18-91

Low Level (last 24 hours) : 7.0 Feet at Time: 7:00 AM 4-19-91

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1000 Ending Time: 1100

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	5' 4"	5.33
2	5' 4"	5.33
3	12' 3 1/4"	12.27
4	6' 4 3/4"	6.40
5	8' 1 1/2"	8.13
6	10' 8 3/4"	10.73
7	12' 7 1/2"	12.63
B105	~~15~~ 16 3 1/2"	16.29
B108	19' 1 1/2"	19.13

Comments: _____

TJR 11-19-87
12-15-87 Rev

Monitoring Wells 4-19-91 TJR

12.00 +M
0. *
3.25 ÷
12.00 ◊M
12.00 =
0.27 *
4.75 ÷
12.00 ◊M
12.00 =
0.40 *
1.5 ÷
12.00 ◊M

SCOEPA00025356

MONITORING WELLS BENCHSHEET

1. Measured By: Tom Rothschild / —

2. Date: 5-30-91

3. River Levels: High Level (last 24 hours): 10.1 Feet at Time: 7:00 AM

   Low Level (last 24 hours) : 9.3 Feet at Time: 5:00 PM (5-29-91)

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1325 Ending Time: 1415

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	6' 9 1/4"	6.77
2	10' 11"	10.92
3	13' 6 1/2"	13.54
4	8' 4 1/4"	8.35
5	10' 8"	10.67
6	13' 1 1/2"	13.13
7	14' 1 3/4"	14.15
B105	15' 3 1/2"	15.29
B108	18' 4 1/4"	18.35

Comments: _____

TJR 11-19-87
12-15-87 Rev

SCOEPA00025357

MONITORING WELLS BENCHSHEET

1. Measured By: Tom Rothschild / —
2. Date: 6-25-91
3. River Levels: High Level (last 24 hours): 6.9 Feet at Time: 5:00 AM

   Low Level (last 24 hours) : 4.2 Feet at Time: 1:00 AM
4. Measuring Point: Top of Standpipe.
5. Measurements: Starting Time: 1126 Ending Time: 1205

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	10' 10½"	10.88
2	12' 1¼"	12.10
3	14' 1¾"	14.15
4	11' 6¾"	11.56
5	12' ¾"	12.06
6	13' 10"	13.83
7	15' 1"	15.08
B105	17' 5¼"	17.44
B108	20' 4½"	20.38

Comments: Cloudy, but dry. Lots of ants.

T.JR 11-19-87
12-15-87 Rev

Monitoring Wells
6-25-91
SAR
12•00 +M
0• *
10•5 ÷
12•00 ◊M
12•00 =
0•88 *
1•25 ÷
12•00 ◊M
12•00 =
0•10 *
1•75 ÷
12•00 ◊M
12•00 =
0•15 *
6•75 ÷
12•00 ◊M
12•00 =
0•56 *

MONITORING WELLS BENCHSHEET

1. Measured By: Tom Rothschild / —

2. Date: 7-~~27~~ 25-91

3. River Levels: High Level (last 24 hours): 6.0 Feet at Time: 5:00 AM

   Low Level (last 24 hours) : 3.6 Feet at Time: 3:00 PM

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1400 Ending Time: 1450

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	12' 6 1/4"	12.52
2	13' 2 1/2"	13.21
3	14' 9 3/4"	14.81
4	13' 5 3/4"	13.48
5	13' 2 1/4"	13.19
6	14' 7"	14.58
7	16' 1"	16.01
B105	18' 9"	18.75
B108	21' 6 1/2"	21.54

Comments: _____

Rev

Monitoring Wells 7-25-91 3/8

0. *
12.00 +M
6.25 ÷
12.00 ◊M
12.00 =
0.52 *
2.5 ÷
12.00 ◊M
12.00 =
0.21 *
9.75 ÷
12.00 ◊M
12.00 =
0.81 *
5.75 ÷
12.00 ◊M

SCOEPA00025359

MONITORING WELLS BENCHSHEET

1. Measured By: Tom Rothschild / —

2. Date: 8-29-91

3. River Levels: High Level (last 24 hours): 6.1 Feet at Time: 8:00 PM

   Low Level (last 24 hours) : 2.8 Feet at Time: 5:00 PM

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1315 Ending Time: 1400

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	13' 8 1/4"	13.69
2	14' 1 1/2"	14.13
3	15' 5 1/2"	15.46
4	14' 9"	14.75
5	14' 2 3/4"	14.23
6	15' 3 3/4"	15.31
7	17' 1 1/4"	17.10
B105	19' 5 1/4"	19.44
B108	22' 4"	22.33

Comments: Cloudy, humid

TJR 11-19-87
12-15-87 Rev

SCOEPA00025360

MONITORING WELLS BENCHSHEET

1. Measured By: Tom Rothschild / —

2. Date: 9-27-91

3. River Levels: High Level (last 24 hours): 6.3 Feet at Time: 8:60 PM 9-26-91

Low Level (last 24 hours) : 2.7 Feet at Time: 4:00 PM

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1250 Ending Time: 1330

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	14' 5"	14.42
2	14' 8 3/4"	14.73
3	15' 10 1/4"	15.85
4	15' 6 1/4"	15.52
5	14' 10 1/4"	14.85
6	15' 9"	15.75
7	17' 10 1/2"	17.88
B105	20' 1"	20.08
B108	22' 11"	22.92

Comments: _____

TJR 11-19-87
12-15-87 Rev

SCOEPA00025361

MONITORING WELLS BENCHSHEET

1. Measured By: Tom Rothschild
2. Date: 10-24-91
3. River Levels: High Level (last 24 hours): 5.5 Feet at Time: 6:00 PM
   Low Level (last 24 hours) : 2.2 Feet at Time: 4:00 AM
4. Measuring Point: Top of Standpipe.
5. Measurements: Starting Time: 1405 Ending Time: 1446

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	14' 10 3/4"	14.90
2	15' 2"	15.17
3	16' 2"	16.17
4	16' 1/2"	16.04
5	15' 3 1/2"	15.29
6	16' 1 1/4"	16.10
7	18' 5"	18.42
B105	20' 4"	20.33
B108	23' 4 1/2"	23.35

Comments: Cloudy

TJR 11-19-87
12-15-87 Rev

SCOEPA00025362

MONITORING WELLS BENCHSHEET

1. Measured By: Tom Rothschild/ —

2. Date: 22 Nov 91

3. River Levels: High Level (last 24 hours): 8.0 Feet at Time: 5:00PM

Low Level (last 24 hours) : 6.0 Feet at Time: 3:00AM

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1320 Ending Time: 1400

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	15' 2 3/4"	15.23
2	15' 6 3/4"	15.56
3	15' 10"	15.83
4	16' 5"	16.42
5	15' 7 3/4"	15.65
6	(1)	—
7	17' 10 1/2"	17.88
B105	19' ~~18'~~ 1/2"	19.04
B108	22' ~~21' 10 1/2"~~ 1/2"	22.04

Comments: (1) Took reading, but did not write it down.
Partly sunny.

TJR 11-19-87
12-15-87 Rev

SCOEPA00025363

MONITORING WELLS BENCHSHEET

1. Measured By: T. J. Rothschild / —

2. Date: 30 Dec 91

3. River Levels: High Level (last 24 hours): 6.0 Feet at Time: 12:00 Noon

Low Level (last 24 hours) : 2.8 Feet at Time: 7:00 AM

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1310 Ending Time: 1355

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	8' 7 1/2"	8.63
2	13' 3 3/4"	13.31
3	14' 8 3/4"	14.73
4	6' 11 1/2"	6.96
5	14' 4 1/2"	14.38
6	14' 10 3/4"	14.90
7	16' 6 3/4"	16.56
B105	19' 4 3/4"	19.40
B108	21' 11 1/4"	21.94

Comments: Partly Sunny; ~ 50° F

-87
-87Rev

Monitoring Wells 30 Dec 91 JR

0. ◊M
12.00 +M
0. *
7.5 ÷
12.00 ◊M
12.00 =
0.63 *
3.75 ÷
12.00 ◊M
12.00 =
0.31 *
8.75 ÷
12.00 ◊M
12.00 =
0.73 *
11.5 ÷
12.00 ◊M
12.00 =
0.96 *

SCOEPA00025364

MONITORING WELLS BENCHSHEET

1. Measured By: Tom Rothschild / —

2. Date: 31 January 92

3. River Levels: High Level (last 24 hours): 6.7 Feet at Time: 2:00 Pm

   Low Level (last 24 hours) : 5.5 Feet at Time: 9:00 Am

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 0915 Ending Time: 1015

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	5' 4 3/4"	5.40
2	5' 11 1/2"	5.96
3	14' 1"	14.08
4	5' 11 1/2"	5.96
5	12' 11 1/4"	12.94
6	14' 3 1/4"	14.26
7	15' 10 1/2"	15.88
B105	17' 11 1/4"	17.94
B108	20' 8 3/4"	20.73

Comments: Drizzling

TJR 11-19-87
12-15-87 Rev

SCOEPA00025365

MONITORING WELLS BENCHSHEET

1. Measured By: Tom Rothschild / —

2. Date: 28 Feb 92

3. River Levels: High Level (last 24 hours): 5.3 Feet at Time: 1:00 PM

Low Level (last 24 hours) : 4.9 Feet at Time: 8:00 AM

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1310 Ending Time: 1345

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	5' 1½"	5.13
2	5' 2"	5.17
3	12' 4½"	8.38
4	6' 3/4"	6.06
5	8' 4¾"	8.40
6	12' 4"	12.33
7	13' 9½"	13.79
B105	18' 2½"	18.21
B108	20' 8"	20.67

Comments: ~65° F; cloudy

TJR 11-19-87
12-15-87 Rev

SCOEPA00025366

MONITORING WELLS BENCHSHEET

1. Measured By: Tom Rothschild

2. Date: 30 Mar 92

3. River Levels: High Level (last 24 hours): 4.3 Feet at Time: 4:08 AM

Low Level (last 24 hours) : 1.2 Feet at Time: 12:00 AM (midnit.

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1320 Ending Time: 1410

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	6' 10½"	6.88
2	9' 6"	9.50
3	13' 5½"	13.46
4	7' 7¼"	7.60
5	10' 3¼"	10.27
6	13' ½"	13.04
7	14' 5"	14.42
B105	19' 6"	19.50
B108	21' 11¾"	21.98

Comments: Sunny, ~ 65°F

TJR 11-19-87
12-15-87 Rev

SCOEPA00025367

MONITORING WELLS BENCHSHEET

1. Measured By: Tom Rothschild/ —

2. Date: 29 May 92

3. River Levels: High Level (last 24 hours): 6.3 Feet at Time: 5:00 am

Low Level (last 24 hours) : 4.2 Feet at Time: ~~1200~~ midnight

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1300 Ending Time: 1400

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	11' 11 1/4"	11.94
2	12' 9 1/2"	12.79
3	14' 8"	14.67
4	12' 4 3/4"	12.40
5	12' 7 1/2"	12.63
6	14' 5"	14.42
7	15' 11"	15.92
B105	19' 6 1/4"	19.52
B108	21' 10 1/2"	21.88

Comments: Sunny and dry. Christine Ramsey accompanied me

TJR 11-19-87
12-15-87 Rev

SCOEPA00025368

MONITORING WELLS BENCHSHEET

1. Measured By: Tom Rothschild
2. Date: 2 July 92
3. River Levels: High Level (last 24 hours): _____ Feet at Time: _____

   Low Level (last 24 hours) : _____ Feet at Time: _____
4. Measuring Point: Top of Standpipe.
5. Measurements: Starting Time: ? Ending Time: ?

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	—	—
2	13' 10"	13.83
3	15' 4"	15.33
4	14' 4 1/2"	14.38
5	13' 8 3/4"	13.73
6	15' 1 1/2"	15.13
7	16' 11 1/4"	16.94
B105	20' 2 1/4"	20.19
B108	22' 8"	22.67

Comments: Bee Hive in cover of #1.
National weather Service not called

TJR 11-19-87
12-15-87 Rev

SCOEPA00025369

MONITORING WELLS BENCHSHEET

1. Measured By: Tom Rothschild

2. Date: 31July92

3. River Levels: High Level (last 24 hours): 5.6 Feet at Time: 0700

Low Level (last 24 hours) : 2.2 Feet at Time: 1700

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 0740 Ending Time: 0820

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	14' 1¼"	14.10
2	14' 5¾"	14.45
3	15' 9¼"	15.77
4	15' 2½"	15.21
5	14' 5½"	14.46
6	15' 7½"	15.63
7	17' 10¼"	17.85
B105	20' 11½"	20.96
B108	23' 4¼"	23.35

Comments: Bee Hive in #1 Gone Sunny/clear

TJR 11-19-87
12-15-87Rev

SCOEPA00025370

MONITORING WELLS BENCHSHEET

1. Measured By: Tom Rothschild

2. Date: 27 Aug 92

3. River Levels: High Level (last 24 hours): 4.5 Feet at Time: 5:00 AM

Low Level (last 24 hours) : 0.4 Feet at Time: 2:00 PM

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 0940 Ending Time: 1020

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	14' 8½"	14.71
2	15' ½"	15.04
3	16' 2½"	16.21
4	15' 11¼"	15.94
5	15' ½"	15.04
6	16' ¾"	16.06
7	18' 6¾"	18.56
B105	21' 10¼"	21.85
B108	24' 4"	24.34

Comments: Quite warm.

TJR 11-19-87
12-15-87 Rev

SCOEPA00025371

MONITORING WELLS BENCHSHEET

1. Measured By: Tom Rothschild / —

2. Date: 28 Sep 92

3. River Levels: High Level (last 24 hours): 5.0 Feet at Time: 7:00 PM

Low Level (last 24 hours) : 1.3 Feet at Time: 4:00 AM

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1300 Ending Time: 1350

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	15' 2 1/2"	15.21
2	16' 6 3/4"	16.56
3	16' 6 1/4"	16.52
4	16' 5 1/2"	16.46
5	15' 6 1/4"	15.52
6	16' 6"	16.50
7	18' 11 1/2"	18.96
B105	21' 11 1/4"	21.94
B108	24' 6 3/4"	24.56

Comments: _____

TJR 11-19-87
12-15-87 Rev

SCOEPA00025372

MONITORING WELLS BENCHSHEET

1. Measured By: Thomas J. Bathesch
2. Date: 23 Oct 92
3. River Levels: High Level (last 24 hours): 4.3 Feet at Time: 4:00 PM
   Low Level (last 24 hours) : 0.8 Feet at Time: 11:00 AM
4. Measuring Point: Top of Standpipe.
5. Measurements: Starting Time: 1345 Ending Time: 1430

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	15' 8 1/2"	15.71
2	15' 11 3/4"	15.98
3	16' 8 3/4"	16.73
4	16' 11 1/2"	16.96
5	15' 10 1/2"	15.88
6	16' 9 1/2"	16.79
7	19' 2 3/4"	19.23
B105	22' 3 1/4"	22.27
B108	24' 11 1/4"	24.94

Comments: Sunny, warm

TJR 11-19-87
12-15-87Rev

SCOEPA00025373

MONITORING WELLS BENCHSHEET

1. Measured By: T. J. Rothschild / —

2. Date: 24 Nov 92

3. River Levels: High Level (last 24 hours): 7.7 Feet at Time: 5:00 PM

Low Level (last 24 hours) : 5.5 Feet at Time: 1:00 PM

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1310 Ending Time: 1355

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	15' 10½"	15.88
2	16' 1½"	16.13
3	16' 4½"	16.38
4	17' 2½"	17.21
5	16' 2¼"	16.19
6	16' 5¾"	16.48
7	18' 7½"	18.63
B105	20' 1¾"	20.15
B108	22' 10½"	22.88

Comments: Sunny, windy, cool.

TJR 11-19-87
12-15-87Rev

SCOEPA00025374

MONITORING WELLS BENCHSHEET

1. Measured By: T. J. Rothschild / -

2. Date: 28 Dec 92

3. River Levels: High Level (last 24 hours): _____ Feet at Time: _____

Low Level (last 24 hours) : _____ Feet at Time: _____

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1340 Ending Time: 1425

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	6' 9 3/4"	6.81
2	6' 10"	6.83
3	15' 3 3/4"	15.31
4	7' 0"	7.00
5	15' 3 1/4"	15.27
6	15' 5 1/2"	15.46
7	16' 9 1/2"	16.79
B105	20' 1"	20.08
B108	22' 6 3/4"	22.56

Comments: Could not get River Levels → busy signal for ~3 hours. Cool, windy, cloudy.

TJR 11-19-87
12-15-87 Rev

SCOEPA00025375

MONITORING WELLS BENCHSHEET

1. Measured By: T. J. Rothschild / —

2. Date: 29 Jan 93

3. River Levels: High Level (last 24 hours): ? Feet at Time: ?

Low Level (last 24 hours) : ? Feet at Time: ?

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: ? Ending Time: ?

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	6' 1 3/4"	6.15
2	5' 11 1/2"	5.96
3	14' 5 1/4"	14.44
4	6' 8 3/4"	6.73
5	12' 8 1/2"	12.71
6	14' 7 3/4"	14.65
7	16' 2 1/4"	16.19
B105	19' 7 3/4"	19.65
B108	22' 1/2"	22.04

Comments: Data recorded on benchsheet on 25 Feb 93 from notes.

TJR 11-19-87
12-15-87 Rev

SCOEPA00025376

MONITORING WELLS BENCHSHEET

1. Measured By: T. J. Rothschild
2. Date: 25 Feb 93
3. River Levels: High Level (last 24 hours): 5.4 Feet at Time: 8:00 PM
   Low Level (last 24 hours) : 3.5 Feet at Time: 4:00 AM
4. Measuring Point: Top of Standpipe.
5. Measurements: Starting Time: 1310 Ending Time: 1400

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	6' 11½"	6.96
2	12' 1¼"	12.10
3	14' 8¼"	14.69
4	8' ¾"	8.06
5	12' 2¾"	12.23
6	14' 6"	14.5
7	16' 1¾"	16.15
B105	19' 10"	19.83
B108	22' 3"	22.25

Comments: Sunny; ~ 50°

TJR 11-19-87
12-15-87 Rev

SCOEPA00025377

MONITORING WELLS BENCHSHEET

1. Measured By: Tom Rothschild / ~

2. Date: 5 Apr 93

3. River Levels: High Level (last 24 hours): 8.1 Feet at Time: 5:00 AM

Low Level (last 24 hours) : 6.4 Feet at Time: 2:00 PM

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: _____ Ending Time: _____

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1		
2		
3		
4		
5		
6		
7		
B105		
B108		

Comments: Do Not Accomplish. Insufficient Time.

TJR 11-19-87
12-15-87 Rev

SCOEPA00025378

MONITORING WELLS BENCHSHEET

1. Measured By: T. J. Rothschild / —

2. Date: 27 Apr 93

3. River Levels: High Level (last 24 hours): 6.7 Feet at Time: 11 PM

Low Level (last 24 hours) : 5.8 Feet at Time: 7 PM

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1320 Ending Time: 1400

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	5' 0"	5.00
2	4' 2¼"	4.19
3	12' 3½"	12.29
4	5' 7½	5.63
5	8' 1½"	8.13
6	11' 10¼"	11.85
7	12' 10¾"	12.90
B105	18' 2½"	18.21
B108	20' 6½"	20.54

Comments: Party cloudy. ~ 60°F

TJR 11-19-87
12-15-87 Rev

SCOEPA00025379

MONITORING WELLS BENCHSHEET

1. Measured By: Tom Rothschild / —

2. Date: 28 May 93

3. River Levels: High Level (last 24 hours): 10.6 Feet at Time: 12:00 Thurs

Low Level (last 24 hours) : 10.0 Feet at Time: 7:00 AM

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1305 Ending Time: 1345

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	6' 11¼	6.94
2	9' 8½"	9.71
3	13' 4¼"	13.35
4	8' 5¼"	8.44
5	9' 11¾"	9.98
6	12' 9¾"	12.81
7	13' 8½"	13.71
B105	16'.0"	16.00
B108	18' 9¼"	18.77

Comments: Partly cloudy, humid

Wells 28 May 93 JJR 0. ◊M

12.00 ÷M

11.25 ÷ 12.00 ◊M

12.00 = 0.94 *

8.5 ÷ 12.00 ◊M

12.00 = 0.71 *

4.25 ÷ 12.00 ◊M

12.00 = 0.35 *

5.25 ÷ 12.00 ◊M

12.00 = 0.44 *

11.75 ÷

MONITORING WELLS BENCHSHEET

1. Measured By: T. J. Rothschild

2. Date: 30 Jul 93

3. River Levels: High Level (last 24 hours): 6.2 Feet at Time: 3:00 Am

Low Level (last 24 hours) : 3.2 Feet at Time: 11:00 Am

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1310 Ending Time: 1355

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	12' 7 3/4"	12.65
2	12' 11 1/2"	12.96
3	14' 10 1/2"	14.88
4	13' 9"	13.75
5	13' 3/4"	13.06
6	14' 7 1/4"	14.60
7	16' 3"	16.25
B105	19' 9 1/4"	19.77
B108	22' 2 1/4"	22.19

Comments: Sunny; ~ 80° F; blackberries ripe; some paths from what looks like vegetation killer.

TJR 11-19-87
12-15-87Rev

SCOEPA00025381

MONITORING WELLS BENCHSHEET

1. Measured By: Thomas J. Rothschild

2. Date: 26 Aug 93

3. River Levels: High Level (last 24 hours): 4.7 Feet at Time: 0200

   Low Level (last 24 hours) : 1.0 Feet at Time: 1000

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1300 Ending Time: 1355

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	13' 7 1/4"	13.60
2	13' 9"	13.75
3	15' 3 3/4"	15.31
4	14' 8 1/4"	14.69
5	13' 10 1/4"	13.85
6	15' 1"	15.08
7	17' 1 3/4"	17.15
B105	21' 2 3/4"	21.23
B108	23' 6 1/2"	23.54

Comments: Sunny

TJR 11-19-87
12-15-87Rev

SCOEPA00025382

MONITORING WELLS BENCHSHEET

1. Measured By: Thomas J. Rothschild
2. Date: 29 Sep 93
3. River Levels: High Level (last 24 hours): 4.3 Feet at Time: 6:00 AM
   Low Level (last 24 hours) : 0.9 Feet at Time: 2:00 AM
4. Measuring Point: Top of Standpipe.
5. Measurements: Starting Time: 1320 Ending Time: 1405

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	14' 5"	14.42
2	14' 6 1/4"	14.52
3	15' 9 3/4"	15.81
4	15' 7 3/4"	15.65
5	14' 7 1/4"	14.60
6	15' 8"	15.67
7	18' 1"	18.08
B105	21' 8"	21.67
B108	24' 2"	24.17

Comments: _____

TJR 11-19-87
12-15-87Rev

SCOEPA00025383

MONITORING WELLS BENCHSHEET

1. Measured By: T. J. Rothschild / ~

2. Date: 30 Nov 93

3. River Levels: High Level (last 24 hours): 5.6 Feet at Time: 6:00 PM

   Low Level (last 24 hours) : 2.2 Feet at Time: 2:00 AM

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1310 Ending Time: 1400

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	15' 5 3/4"	15.48
2	15' 7 3/4"	15.65
3	16' 5 1/4"	16.44
4	16' 10 1/4"	16.85
5	15' 7 3/4"	15.65
6	16' 4 1/4"	16.35
7	18' 10 1/2"	18.88
B105	21' 8"	21.67
B108	24' 3 3/4"	24.31

Comments: Rainy

TJR 11-19-87
12-15-87 Rev

SCOEPA00025384

MONITORING WELLS BENCHSHEET

1. Measured By: T. J. Rothschild
2. Date: 28 Dec 93
3. River Levels: High Level (last 24 hours): 5.1 Feet at Time: 5:00 PM
   Low Level (last 24 hours) : 1.6 Feet at Time: 11:00 AM
4. Measuring Point: Top of Standpipe.
5. Measurements: Starting Time: 1250 Ending Time: 1335

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	15' 2"	15.17
2	15' 1 1/4"	15.10
3	15' 10 1/2"	15.88
4	16' 6 1/2"	16.54
5	15' 7 3/4"	15.65
6	15' 10 3/4"	15.90
7	17' 10 1/4"	17.85
B105	21' 5 1/2"	21.46
B108	23' 11"	23.92

Comments: _____

TJR 11-19-87
12-15-87 Rev

SCOEPA00025385

MONITORING WELLS BENCHSHEET

1. Measured By: Tom Rothschild/ —

2. Date: 25 Feb 94

3. River Levels: High Level (last 24 hours): _____ Feet at Time: _____

Low Level (last 24 hours) : _____ Feet at Time: _____

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1345 Ending Time: 1425

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	4' 7½"	4.62
2	3' 2½"	3.21
3	14' 6½"	14.54
4	6' 2¾"	6.23
5	13' 10½"	13.88
6	14' 7/10 ¾"	14.90
7	16' 7¾"	16.65
B105	18' 9½"	18.79
B108	21' 3¾"	21.31

Comments: Cool, cloudy, no rain.
Could not reach National weather Service

TJR 11-19-87
12-15-87Rev

SCOEPA00025386

MONITORING WELLS BENCHSHEET

1. Measured By: T. J. Rothschild
2. Date: 29 Mar 94
3. River Levels: High Level (last 24 hours): 6.5 Feet at Time: 0600
   Low Level (last 24 hours) : 3.0 Feet at Time: 1500
4. Measuring Point: Top of Standpipe.
5. Measurements: Starting Time: 1400 Ending Time: 1440

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	6' 1 3/4"	6.15
2	5' 6 1/4"	5.52
3	13' 7"	13.58
4	5' 10 1/4"	5.85
5	10' 0"	10.00
6	13' 2 3/4"	13.23
7	14' 7 1/2"	14.63
B105	19' 6 1/4"	19.54
B108	21' 11 1/2"	21.96

Comments: Sunny ; ~ 70°F

TJR 11-19-87
12-15-87Rev

SCOEPA00025387

MONITORING WELLS BENCHSHEET

1. Measured By: Tom Rothschild

2. Date: 30 Jun 94

3. River Levels: High Level (last 24 hours): 4.8 Feet at Time: 1200 AM

Low Level (last 24 hours) : 2.1 Feet at Time: 800 PM

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1405 Ending Time: 1450

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	13' 3"	13.25
2	14' 0"	14.00
3	15' 5½"	15.46
4	14' 4½"	14.38
5	13' 8¾"	13.73
6	15' 2½	15.21
7	16' 11½"	16.96
B105	20' 6¾"	20.56
B108	22' 11½"	22.96

Comments:

TJR 11-19-87

Monitoring wells 30 Jun 94 TJR

0. *
12.00 +M
5.5 ÷ 12.00 ◊M
12.00 = 0.46 *
4.5 ÷ 12.00 ◊M
12.00 = 0.38 *
8.75 ÷ 12.00 ◊M
12.00 = 0.73 *
2.5 ÷ 12.00 ◊M
12.00 = 0.21 *
11.5 ÷ 12.00 ◊M
12.00 = 0.96 *
6.75 ÷ 12.00 ◊M
12.00 = 0.56 *

MONITORING WELLS BENCHSHEET

1. Measured By: T. J. Rothschild
2. Date: 29 July 94
3. River Levels: High Level (last 24 hours): 5.1 Feet at Time: 10:00 PM
   Low Level (last 24 hours) : 2.1 Feet at Time: 6:00 PM
4. Measuring Point: Top of Standpipe.
5. Measurements: Starting Time: 1405 Ending Time: 1450

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	14' 1 3/4"	14.15
2	14' 8 1/2"	14.71
3	15' 10 1/2"	15.88
4	15' 3"	15.25
5	14' 5 3/4"	14.48
6	15' 8 1/2"	15.71
7	17' 10 3/4"	17.90
B105	21' 2 1/4"	21.21
B108	23' 9"	23.75

Comments: _____

TJR 11-19-87
12-15-87 Rev

SCOEPA00025389

MONITORING WELLS BENCHSHEET

1. Measured By: Thomas J. Rothschild

2. Date: 30 Aug 94

3. River Levels: High Level (last 24 hours): 3.5 Feet at Time: 12:00 AM

Low Level (last 24 hours) : 0.5 Feet at Time: 9:00 AM

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1310 Ending Time: 1355

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	14' 10 1/4"	14.85
2	14' 1/4"	14.02
3	16' 3"	16.25
4	16' 1 1/4"	16.10
5	15' 1"	15.08
6	16' 2 1/4"	16.19
7	18' 9 1/4"	18.77
B105	22' 5 3/4"	22.48
B108	24' 11 1/2"	24.96

Comments: Sunny; ~ 80°F

TJR 11-19-87
12-15-87 Rev

SCOEPA00025390

MONITORING WELLS BENCHSHEET

1. Measured By: Thomas J. Rothschild

2. Date: 30 Sep 94

3. River Levels: High Level (last 24 hours): 3.4 Feet at Time: 0100

Low Level (last 24 hours) : 0.2 Feet at Time: 0900

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1304 Ending Time: 1341

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	15' 4 3/4"	15.40
2	15' 7"	15.58
3	16' 6 1/2"	15.54
4	16' 8 1/4"	16.69
5	15' 7 1/4"	15.60
6	16' 5 3/4"	16.48
7	19' 2 1/2"	19.21
B105	22' 9"	22.75
B108	25' 4 1/2"	25.38

Comments: _____

TJR 11-19-87
12-15-87 Rev

SCOEPA00025391

MONITORING WELLS BENCHSHEET

1. Measured By: Thomas J. Rothschild

2. Date: 21 Oct 94

3. River Levels: High Level (last 24 hours): 4.8 Feet at Time: 2000 20 Oct 94

Low Level (last 24 hours) : 1.4 Feet at Time: 1400 ↓

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1320 Ending Time: 1405

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	15' 6½"	15.54
2	15' 10¾"	15.90
3	16' 8"	16.67
4	*	
5	15' 10½"	15.88
6	16' 7¾" ~~15' 10½"~~ ~~19' 5"~~	16.65
7	19' 5"	19.42
B105	**	
B108	**	

Comments: * Could not locate well point #4. Steve B. said it should be in raised dirt area.
** B105 / B108 well points are gone

TJR 11-19-87
12-15-87 Rev

SCOEPA00025392

MONITORING WELLS BENCHSHEET

1. Measured By: T. J. Rothschild / Chip Blomer
2. Date: 28 ~~NOV~~ 94
3. River Levels: High Level (last 24 hours): 5.3 Feet at Time: 1300
   Low Level (last 24 hours) : 2.8 Feet at Time: 0700
4. Measuring Point: Top of Standpipe.
5. Measurements: Starting Time: 1045 Ending Time: 1115

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	5' 7½"	5.62
2	6' 4¾"	6.40
3	15' 5¼"	15.44
4	1	
5	14' 6"	14.50
6	15' 6¾"	15.56
7	16' 11¾"	16.98
B105	—	—
B108	—	—

Comments: _____

TJR 11-19-87
12-15-87 Rev

SCOEPA00025393

MONITORING WELLS BENCHSHEET

1. Measured By: Thomas J. Rothschild

2. Date: 23 Dec 94

3. River Levels: High Level (last 24 hours): 7.3 Feet at Time: 2100

Low Level (last 24 hours) : 6.1 Feet at Time: 0500

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1250 Ending Time: 1330

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	3' 8½"	3.71
2	3' 7½"	3.62
3	13' 9¼"	13.79
4 (1)	14' 1"	14.08
5	9' 8½"	9.71
6	13' 7"	13.58
7	14' 11¾"	14.98
B105		
B108		

Comments: (1) Top of standpipe is 4' 8" above gravel.

TJR 11-19-87
12-15-87 Rev

SCOEPA00025394

MONITORING WELLS BENCHSHEET

1. Measured By: Thomas J. Rothschild

2. Date: 30Jan95

3. River Levels: High Level (last 24 hours): 8.5 Feet at Time: 1400

   Low Level (last 24 hours) : 4.8 Feet at Time: 1100

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1320 Ending Time: 1420

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	3' 2"	3.17
2	3' 3½"	3.29
3	11' 2¼"	11.19
4	13' 11½"	13.96
5	3' 10"	3.83
6	10' 4¼"	10.35
7	11' 1½"	11.13
B105		
B108		

Comments: Extremely muddy around well #5

TJR 11-19-87
12-15-87Rev

SCOEPA00025395

MONITORING WELLS BENCHSHEET

1. Measured By: Thomas J. Rothschild

2. Date: 20 March 1995

3. River Levels: High Level (last 24 hours): 8.6 Feet at Time: 0700

Low Level (last 24 hours) : 5.9 Feet at Time: 1600

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1100 Ending Time: 1210

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	3' 1"	3.08
2	3' 0"	3.00
3	10' 2 3/4"	10.23
4	13' 5 3/4"	13.48
5	(1)	
6	9' 6"	9.50
7	10' 1 1/4"	10.10
B105	—	—
B108	—	—

Comments: Woodward Clyde Consultants: #3 → 10' 2 1/2"; ~~10'~~ #7 → 10' 1"; #3 Total Depth = 32.4 ft; #7 Total Depth = 31.1 ft. to bottom of wd

(1) Could not locate.

TJR 11-19-87
12-15-87 Rev

Monitoring Wells
20 March 95
3JR

12.00 +M
1. ÷
12.00 ◇M

12.00 =
0.08 *

2.75 ÷
12.00 ◇M

12.00 =
0.23 *

5.75 ÷
12.00 ◇M

12.00 =
0.48 *

1.25 ÷
12.00 ◇M

12.00 =
0.10 *

SCOEPA00025396

MONITORING WELLS BENCHSHEET

1. Measured By: Thomas J. Rothschild / —

2. Date: 12 May 1995

3. River Levels: High Level (last 24 hours): 9.7 Feet at Time: 0600

   Low Level (last 24 hours) : 8.4 Feet at Time: 2200

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 0920 Ending Time: 1020

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	5' 2"	5.17
2	5' 11 3/4"	5.98
3	12' 9 1/4"	12.77
4	9' 11 1/4"	9.94
5	9' 4 1/4"	9.35
6	12' 1 1/4"	12.10
7	13' 0"	13.00
B105	NA	—
B108	NA	—

Comments: Well Point #5 cut flush to gravel road ~ 1.5ft from a trailor.

TJR 11-19-87
12-15-87 Rev

SCOEPA00025397

MONITORING WELLS BENCHSHEET

1. Measured By: Thomas J. Rothschild

2. Date: 12 Jun 95

3. River Levels: High Level (last 24 hours): 9.3 Feet at Time: 0600

Low Level (last 24 hours) : 7.9 Feet at Time: 0100

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 0930 Ending Time: 1030

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	9' 2¼"	9.19
2	10' 1"	10.08
3S Wacker's	13' 10¼"	13.85
4	12' 7"	12.58
5	11' 5½"	11.46
6	13' 3⅜"	13.31
7	14' 3½"	14.29
B105	—	
B108	—	

Comments: #7 Total Depth = 30' 8"

#3S Total Depth = 31' 7½"

#3I Not Wacker's: 18' 2½" (18.21ft); Total Depth = ~65ft

TJR 11-19-87
12-15-87 Rev

SCOEPA00025398

MONITORING WELLS BENCHSHEET

1. Measured By: Thomas J. Rothschild

2. Date: 12 Jul 95

3. River Levels: High Level (last 24 hours): 8.0 Feet at Time: 0600

Low Level (last 24 hours) : 5.4 Feet at Time: 1400

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1320 Ending Time: 1410

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	10' 7 1/4"	10.60
2	10' 11"	10.92
S 3 D	14' 6 3/4" / 18' 9"	14.54 / 18.75
4	15' 2 3/4"	15.23
5 (1)	18' 2"	18.17
6	14' 1 1/4"	14.10
S 7 D	15' 4 1/4"	15.35
B105	—	—
B108	—	—

Comments: (1) New tubing extension adds 5 feet to previous level

TJR 11-19-87
12-15-87 Rev

SCOEPA00025399

MONITORING WELLS BENCHSHEET

1. Measured By: T. J. Rothschild / —

2. Date: 11 Aug 95

3. River Levels: High Level (last 24 hours): 6.8 Feet at Time: 0600

Low Level (last 24 hours) : 3.3 Feet at Time: 0200

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1320 Ending Time: 1410

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	12' $\frac{3}{4}$"	12.06
2	11' 8$\frac{3}{4}$"	11.73
3 Shallow	15' 1$\frac{1}{2}$"	15.13
4	17' 1"	17.08
5	18' 11"	18.92
6	14' 9$\frac{3}{4}$"	14.81
7	16' ~~18~~ 8$\frac{1}{4}$"	16.69
~~B105~~ 3 Deep	19' 1$\frac{1}{4}$"	19.94
~~B108~~	—	—

Comments: _____

TJR 11-19-87
12-15-87 Rev

SCOEPA00025400

MONITORING WELLS BENCHSHEET

1. Measured By: Thomas J. Rothschild
2. Date: 12 Sep 95
3. River Levels: High Level (last 24 hours): 5.1 Feet at Time: 2000
   Low Level (last 24 hours) : 1.4 Feet at Time: 1500
4. Measuring Point: Top of Standpipe.
5. Measurements: Starting Time: 0940 Ending Time: 1030

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	~~18'~~ 13' 3/4"	13.06
2	12' 4"	12.33
3(S)	15' 7 3/4"	15.65
4	18' 3 1/2"	18.29
5	19' 7 1/2"	19.62
6	15' 3 3/4"	15.31
7	17' 7 1/2"	19.62
B105	—	
B108	—	

Comments: 3(D): 20' 10 1/4" → 20.85

TJR 11-19-87
12-15-87Rev

SCOEPA00025401

MONITORING WELLS BENCHSHEET

1. Measured By: Thomas J. Rothschild

2. Date: 13 Oct 95

3. River Levels: High Level (last 24 hours): 5.8 Feet at Time: 2000

   Low Level (last 24 hours) : 3.2 Feet at Time: 0700

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1330 Ending Time: 1405

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	7' 0"	7.00
2	12' 10"	12.83
3 S	15' 11 3/4"	15.98
4	18' 11 1/4"	18.94
5	20' 4 1/2"	20.38
6	15' 8 1/4"	15.69
7	17' 10"	17.83
~~B105~~ 3 I	21' 1"	21.08
~~B108~~ .	—	—

Comments: Sunny, ~ 65°F

TJR 11-19-87
12-15-87 Rev

SCOEPA00025402

MONITORING WELLS BENCHSHEET

1. Measured By: Thomas J. Rothschild

2. Date: 13 Nov 95

3. River Levels: High Level (last 24 hours): 9.5 Feet at Time: 2100

Low Level (last 24 hours) : 8.4 Feet at Time: 0700

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1325 Ending Time: 1410

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	3' 7"	3.58
2	4' 8 1/4	4.69
3-S	15' 2"	15.17
4	12' 2 1/2"	12.21
5	12' 8 1/2"	12.71
6	15' 1 1/4"	15.10
7	15' 2"	15.17
~~B105~~ 3-I	- 20' 5 3/4"	- ~~20.7~~ 20.48
B108	-	-

Comments: _____

TJR 11-19-87
12-15-87Rev

SCOEPA00025403

MONITORING WELLS BENCHSHEET

1. Measured By: Thomas J. Rothschild
2. Date: 29 Dec 95
3. River Levels: High Level (last 24 hours): 7.8 Feet at Time: 1200
   Low Level (last 24 hours) : 6.6 Feet at Time: 0700
4. Measuring Point: Top of Standpipe.
5. Measurements: Starting Time: 1330 Ending Time: 1430

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	3' 1½"	3.12
2	3' 5"	~~3.41~~ 3.42
3 (Shallow)	11' ¾"	11.06
4	(1)	-
5	13' 3¼"	13.27
6	10' 6¼"	10.52
7	11' 7"	11.58
~~B105~~ 3 (Intermediate)	16' 3¾"	16.31
~~B108~~		

Comments: Drizzling.

(1) Standpipe in middle of puddle. Did not sample
Notified Jerry Linden

TJR 11-19-87
12-15-87 Rev

MONITORING WELLS BENCHSHEET

1. Measured By: Thomas J. Rothschild/ –

2. Date: 16 Jan 96

3. River Levels: High Level (last 24 hours): 11.0 Feet at Time: 0700

   Low Level (last 24 hours) : 9.9 Feet at Time: 0900

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1300 Ending Time: 1350

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	~~(1)~~ 2' 11"	2.92
2	2' 5 3/4"	2.48
3 (S)	10' 9 1/4"	10.77
4	(1)	–
5	11' 6 3/4"	~~8~~ 11.48
6	10' 1 3/4"	10.15
7	11' 1 3/4"	11.15
~~B105~~ 3 (I)	– 16' 2 1/4"	16.25
B108	–	

Comments: Cloudy

(1) Standpipe submerged in puddle; Notified Jerry Linden. Called Woodward Clyde with data

TJR 11-19-87
12-15-87 Rev

SCOEPA00025405

MONITORING WELLS BENCHSHEET

1. Measured By: Thomas J. Rothschild

2. Date: 13 Feb 96

3. River Levels: High Level (last 24 hours): 23.4 Feet at Time: 0900 12 Feb 96

Low Level (last 24 hours) : 20.8 Feet at Time: 0800 13 Feb 96

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1300 Ending Time: 1345

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	2' 9 3/4"	2.81
2	(1)	—
3S	5' 1 3/4"	5.15
4	13' 3/4" 8 1/4"	13.69
5	10' 8 1/2"	10.71
6	4' 8 3/4"	4.73
7	6' 6"	6.50
~~B105~~ 3I	13' 8 1/4" 3/4"	13.06
B108	—	—

Comments: (1) Area around well flooded

Sunny; ~ 60° F

Called numbers into Woodward, Clyde / James Kessi

TJR 11-19-87
12-15-87 Rev

SCOEPA00025406

MONITORING WELLS BENCHSHEET

1. Measured By: Dawnie Mallan / Tom Rothschild

2. Date: 3-14-96

3. River Levels: High Level (last 24 hours): 11.8 Feet at Time: 0700 3-14-96

   Low Level (last 24 hours) : 11.4 Feet at Time: 2100 3-13-96

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1345 Ending Time: 1415

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	3' 1/2"	~~3.50~~ 3.04
2	2' 7"	2.58
3 S	9' 7"	9.58
4	8' 10 1/2"	8.86
5	11' 1 1/2"	11.13
6	9'	9.0
7	10' 3"	10.25
~~B105~~ 3I	14' 1"	14.08
B108		

Comments: Sunny ~65° F.

TJR 11-19-87
12-15-87 Rev

SCOEPA00025407

MONITORING WELLS BENCHSHEET

1. Measured By: TJ Rothschild / ~

2. Date: 18 Apr 96

3. River Levels: High Level (last 24 hours): 11.9 Feet at Time: 0800

   Low Level (last 24 hours) : 11.2 Feet at Time: 1500

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1300 Ending Time: 1345

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	3' 5 1/4"	3.38
2	4' 8 1/2"	4.71
3(shallow)	12' 3 1/2"	12.29
4	(1)	—
5	11' 11 1/4"	11.94
6	11' 6 3/4"	11.56
7	12' 3"	12.25
~~B105~~ 3(intermediate)	16' 1/4"	16.02
~~B108~~		

Comments: Drizzling

(1) Pipe opening in pool of water.

TJR 11-19-87
12-15-87 Rev

SCOEPA00025408

MONITORING WELLS BENCHSHEET

1. Measured By: T. J. Rothschild

2. Date: 31 May 1996

3. River Levels: High Level (last 24 hours): 13.8 Feet at Time: 0500

Low Level (last 24 hours) : 13.4 Feet at Time: 1300

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1355 Ending Time: 1440

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	4" 1½	4.12
2	5' 0"	5.00
3 Shallow	12' 1¼"	12.10
4	9' 10½"	9.88
5	13' 11¾"	13.98
6	11' 6¼"	11.52
7	12' 0"	12.00
~~B105~~ 3 Intermediate	14' 11"	14.92
B108	—	(

Comments: Party sunny; ~ 75°F

TJR 11-19-87
12-15-87 Rev

SCOEPA00025409

MONITORING WELLS BENCHSHEET

1. Measured By: Thomas J. Rothschild

2. Date: 15 Aug 96

3. River Levels: High Level (last 24 hours): 6.4 Feet at Time: 0700

   Low Level (last 24 hours) : 4.4 Feet at Time: 1600

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1355 Ending Time: 1500

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	11' 10 3/4"	11.90
2	11' 11 1/4"	11.94
3S	14' 11 1/4"	14.94
4	16' 5 1/4"	16.44
5	19' 11"	19.92
6	15' 5 1/2"	15.46
7	15' 7 1/4"	15.60
~~B105~~ 3I	19' 2 1/2"	19.21
B108.	~	

Comments: Sunny and hot.
Forgot keys. Had to walk back

TJR 11-19-87
12-15-87Rev

SCOEPA00025410

MONITORING WELLS BENCHSHEET

1. Measured By: Thomas J. Rothschild

2. Date: 23 Sep 96

3. River Levels: High Level (last 24 hours): 3.4 Feet at Time: 1400

Low Level (last 24 hours) : 1.3 Feet at Time: 0900

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1350 Ending Time: 1430

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	11' 4 3/4"	11.40
2	12' 7 1/2"	12.63
3S	15' 7 1/2"	15.63
4	17' 11 1/2"	17.95
5	20' 10"	20.83
6	15' 4 1/4"	15.35
7	16' 9"	16.75
~~B105~~ 3I	20' 4 1/4"	20.35
B108.		

Comments: _____

_____

_____

TJR 11-19-87
12-15-87 Rev

MONITORING WELLS BENCHSHEET

1. Measured By: T. J. Rothschild
2. Date: 1 Nov 96
3. River Levels: High Level (last 24 hours): 4.8 Feet at Time: 2100
   Low Level (last 24 hours) : 2.8 Feet at Time: 0600
4. Measuring Point: Top of Standpipe.
5. Measurements: Starting Time: 1340 Ending Time: 1420

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	5' 5 3/4"	5.48
2	12' 8"	12.67
3(S)	15' 8 1/2"	15.71
4	16' 9 3/4"	16.81
5	18' 1/4"	18.10
6	16' 5 3/4"	~~5~~ 16.48
7	16' 5 1/2"	16.46
~~B105~~ 3I	20' 3 1/4"	20.27
B108	—	—

Comments: Sunny; ~ 65° F

TJR 11-19-87
12-15-87 Rev

MONITORING WELLS BENCHSHEET

1. Measured By: Thomas J. Rothschild –

2. Date: 10 Jan 97

3. River Levels: High Level (last 24 hours): 14.0 Feet at Time: 1900

Low Level (last 24 hours) : 13.4 Feet at Time: 0300

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1400 Ending Time: 1450

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	2' 8 3/4"	2.73
2	(1)	
3 S	7' 1 3/4"	7.15
4	9' 5 1/4"	9.44
5	11' 5 3/4"	11.48
6	7' 1"	7.08
7	8' 6"	8.50
~~B105~~ 3I	13' 10"	13.83
B108	–	–

Comments: (1) Swamp around well.

TJR 11-19-87
12-15-87Rev

SCOEPA00025413

MONITORING WELLS BENCHSHEET

1. Measured By: Thomas J. Rothschild

2. Date: 28 Feb 97

3. River Levels: High Level (last 24 hours): 9.1 Feet at Time: 0600

   Low Level (last 24 hours) : 8.1 Feet at Time: 1800

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1340 Ending Time: 1430

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	3' 4½"	3.38
2	4' 1½"	4.12
~~3S~~	11' 7"	11.58
4	9' 3"	9.25
5	11' 10"	11.83
6	10' 10¾"	10.90
7	11' 2½"	11.21
~~B105~~ 3I	15' 7½"	15.62
B108	—	—

Comments: Cloudy

TJR 11-19-87
12-15-87 Rev

SCOEPA00025414

MONITORING WELLS BENCHSHEET

1. Measured By: T. J. Rothschild / Gerry Manroe

2. Date: 2 Apr 97

3. River Levels: High Level (last 24 hours): 11.5 Feet at Time: 1400

Low Level (last 24 hours) : 10.7 Feet at Time: 0700

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1255 Ending Time: 1345

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	3' 5 3/4"	3.48
2	3' 10 1/2"	3.88
3S	10' 10 3/4"	10.90
4	9' 8 3/4"	9.73
5	12' 10"	12.83
6	10' 4"	10.33
7	10' 7"	10.58
~~B105~~ 3I	14' 10 3/4"	14.90
~~B108~~		

Comments: Sunny

3I Total Depth ~ 64 feet

TJR 11-19-87
12-15-87 Rev

SCOEPA00025415

MONITORING WELLS BENCHSHEET

1. Measured By: Thomas J Rothschild Gerry Manroe
2. Date: 16 June 1997
3. River Levels: High Level (last 24 hours): 19.4 Feet at Time: 3pm Thurs 6/5
   Low Level (last 24 hours) : 17.9 Feet at Time: 1pm Friday 6/6
4. Measuring Point: Top of Standpipe.
5. Measurements: Starting Time: 1410 Ending Time: 1455

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	4'	4.00
2	6' 1.25"	6.10
3s	13' 4"	13.33
4	11' 4.25"	11.35
5	11' 7⅛"	11.60
6	12' 10.25"	12.85
7	12' 10¾"	12.90
~~B105~~		
~~B108~~		
Comments: 3si	14'	14.00

TJR 11-19-87
12-15-87 Rev

SCOEPA00025416

MONITORING WELLS BENCHSHEET

1. Measured By: Gary Munroe /
2. Date: 7/16/87
3. River Levels: High Level (last 24 hours): 7.9 Feet at Time: 4pm 7/16
   Low Level (last 24 hours) : 6.4 Feet at Time: 12pm Tuesday. 7/15.
4. Measuring Point: Top of Standpipe.
5. Measurements: Starting Time: 13:30 Ending Time: 14:30

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	11' 7"	11.6
2	9' 8½"	9.7
3S	14' 2"	14.2
4	13' 10½"	13.9
5	18' 4¼"	18.4
6	13' 9¾"	13.8
7	14' 8½"	14.7
~~B105~~		
~~B108~~		

Comments: 3: 16' 10" 16.8

TJR 11-19-87
12-15-87Rev

SCOEPA00025417

MONITORING WELLS BENCHSHEET

1. Measured By: Gerry Munroe
2. Date: 9/5/97
3. River Levels: High Level (last 24 hours): 5.6 Feet at Time: 8:45 9/4
   Low Level (last 24 hours) : 2.5 Feet at Time: 3pm 9/4.
4. Measuring Point: Top of Standpipe.
5. Measurements: Starting Time: 13:30 Ending Time: 14:30

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	12' 2 3/4"	12.23
2	12' 1 1/2"	12.125
3	15' 4"	15.333
4	17' 3"	17.25
5	~~17' 2 3/4"~~ 20' 2 1/2"	20.21
6	15'	15
7	16' 3"	16.25
B105		
B108		

Comments:

MW-3I 19' 5 1/2" 19.46

TJR 11-19-87
12-15-87Rev

SCOEPA00025418

MONITORING WELLS BENCHSHEET

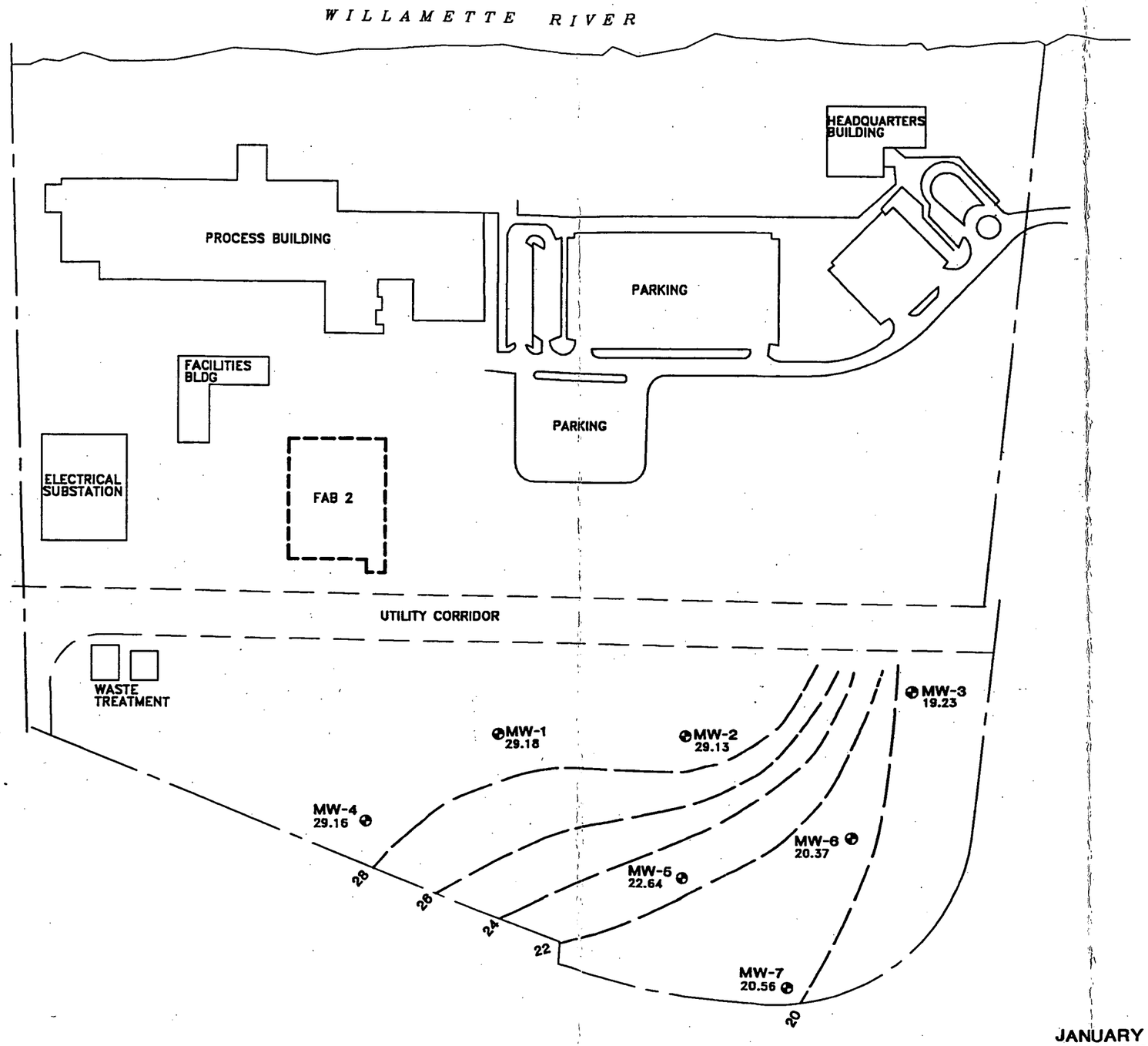
1. Measured By: G Munroe /
2. Date: 10/15/97
3. River Levels: High Level (last 24 hours): 8.2 Feet at Time: 7pm
   Low Level (last 24 hours) : 5.9 Feet at Time: 2pm
4. Measuring Point: Top of Standpipe.
5. Measurements: Starting Time: 14:00 Ending Time: 15:00

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	5' 11½"	5.96
2	12' 5"	12.42
3S	15' 6½"	15.54
4	17' 5"	17.42
5	18' 3½"	18.29
6	15' 5¼"	15.44
7	16' 2¾"	16.23
~~B105~~ 31	19' 7¾"	19.65
B108		

Comments: _____

TJR 11-19-87
12-15-87Rev

SCOEPA00025419



N

0 100 200

SCALE IN FEET

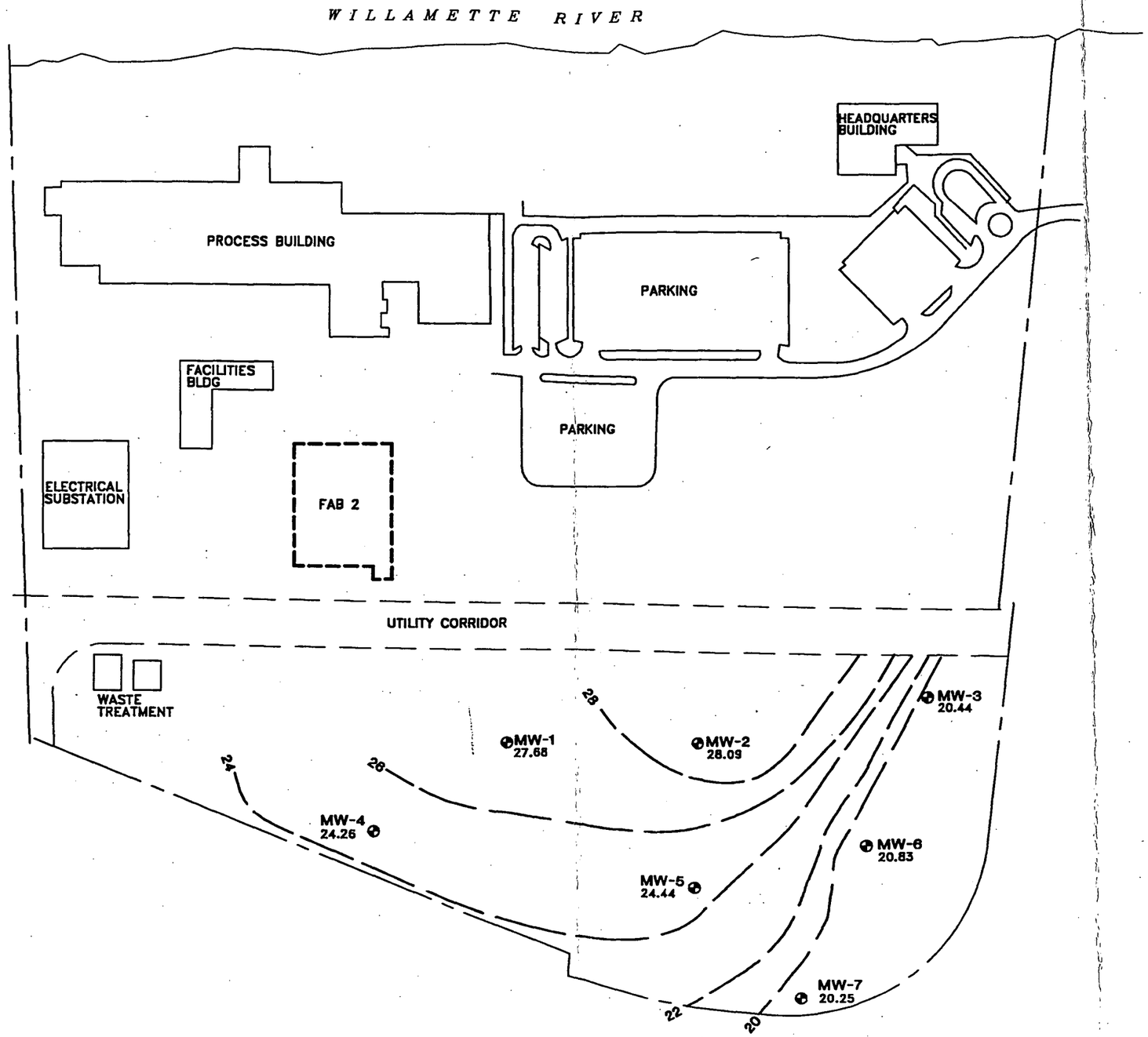
LEGEND

- EXISTING FACILITY
- PROPOSED STRUCTURES
- APPROXIMATE MONITORING WELL LOCATION
- MW-3 — MONITORING WELL NUMBER
- 19.23 — MEASURED WATER LEVEL ELEVATION
- GROUNDWATER ELEVATION CONTOUR LINE

JANUARY 1988
GROUNDWATER ELEVATION CONTOURS
WACKER SILTRONIC CORPORATION
PORTLAND, OREGON

CH2MHILL

SCOEPA00025420



N

0 100 200

SCALE IN FEET

LEGEND

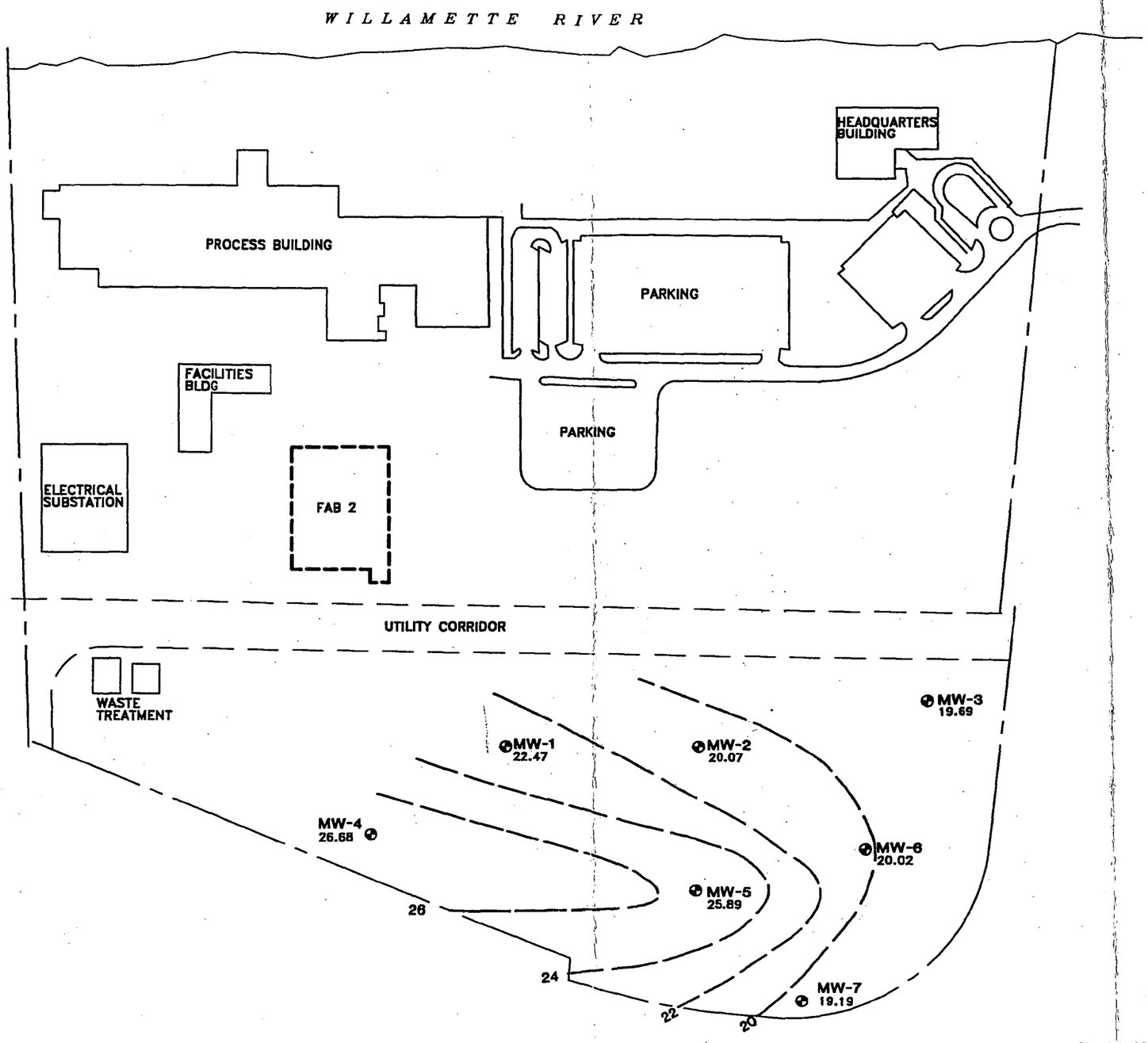
- EXISTING FACILITY
- PROPOSED STRUCTURES
- APPROXIMATE MONITORING WELL LOCATION
- MW-3 — MONITORING WELL NUMBER
- 20.44 — MEASURED WATER LEVEL ELEVATION
- GROUNDWATER ELEVATION CONTOUR LINE

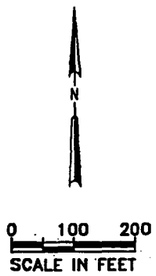
MARCH 1988
GROUNDWATER ELEVATION CONTOURS
WACKER SILTRONIC CORPORATION
PORTLAND, OREGON

CH2MHILL

0452G6.DWG

SCOEPA00025421





LEGEND

- EXISTING FACILITY
- PROPOSED STRUCTURES
- APPROXIMATE MONITORING WELL LOCATION
- MW-3 / 19.69 — MONITORING WELL NUMBER / MEASURED WATER LEVEL ELEVATION
- GROUNDWATER ELEVATION CONTOUR LINE

JULY 1988
GROUNDWATER ELEVATION CONTOURS
WACKER SILTRONIC CORPORATION
PORTLAND, OREGON

CH2M HILL

52G7.DWG

WILLAMETTE RIVER

HEADQUARTERS BUILDING

PROCESS BUILDING

PARKING

FACILITIES BLDG

PARKING

ELECTRICAL SUBSTATION

FAB 2

UTILITY CORRIDOR

WASTE TREATMENT

MW-1 20.28

MW-2 19.92

MW-3 18.69

MW-4 21.57

MW-5 20.81

MW-6 18.87

MW-7 17.98

21

20

19

18

N

0 100 200

SCALE IN FEET

LEGEND

- EXISTING FACILITY
- PROPOSED STRUCTURES
- APPROXIMATE MONITORING WELL LOCATION
- MW-3 — MONITORING WELL NUMBER
- 18.69 — MEASURED WATER LEVEL ELEVATION
- GROUNDWATER ELEVATION CONTOUR LINE

OCTOBER 1986
GROUNDWATER ELEVATION CONTOURS
WACKER SILTRONIC CORPORATION
PORTLAND, OREGON

CH2MHILL

SCOEPA00025423

	Elevation	Backsight	Height of Instrument	Foresight
Monument #3	*100.55	5.18	105.73	5.33
T.P. #1	100.40	2.33	102.73	2.55
** Well #1	100.18	2.95	103.13	0.68
** Well #4	102.45	1.78	104.23	4.20
T.P. #2	100.03	5.14	105.17	3.15
** Well #5	102.02	1.35	103.37	4.70
** Well #2	98.67	4.30	102.97	4.47
T.P. #3	98.50	5.19	103.69	3.58
** Well #3	100.11	2.64	102.75	2.46
** Well #6	100.29	3.72	104.01	2.71
T.P. #4	101.30	4.62	105.92	4.69
** Well #7	101.23	3.76	104.99	5.15
T.P. #5	99.84	3.35	103.19	6.15
T.P. #6	97.04	5.19	102.23	3.13
T.P. #7	99.10	5.51	104.61	0.74
T.P. #8	103.87	1.44	105.31	4.79
Monument 3	100.52			

* Elevation of Monument #3 per Drawing 1C1 dated 11/26/80. Note: El 100.00 ft. Corresponds to U.S.G.S. El 35.00 ft.

** Elevation measured at top of ~~steel~~ PVC well casing. (Cap removed).

JRG
5/5/86

SCOEPA00025424

	ELEVATION	BACKSIGHT	HEIGHT OF INSTRUMENT HI	FORESIGHT	EL.
MONUMENT #3	* 100.55	5.18	105.73	5.33	100.40
T.P. #1	100.40	2.33	102.73	2.55	100.18
** WELL #1 ~~(fence corner)~~	100.18	2.95	103.13	0.68	102.45
** WELL #4 ~~(SW of well pressures)~~	102.45	1.78	104.23	4.20	100.03
T.P. #2	100.03	5.14	105.17	3.15	102.02
** WELL #5 ~~[illegible]~~	102.02	1.35	103.37	4.70	98.67
** WELL #2 ~~[illegible]~~	98.67	4.30	102.97	4.47	98.50
T.P. #3	98.50	5.19	103.69	3.58	100.11
** WELL #3	100.11	2.64	102.75	2.46	100.29
** WELL #6	100.29	3.72	104.01	2.71	101.30
TP #4	101.30	4.62	105.92	4.69	101.23
** WELL #7	101.23	3.76	104.99	5.15	99.84
T.P #5	99.84	3.35	103.19	6.15	97.04
T.P. #6	97.04	5.19	102.23	3.13	99.10
T.P. #7	99.10	5.51	104.61	0.74	103.87
T.P. #8	103.87	1.44	105.31	4.79	100.52
MONUMENT 3	100.52				

* ELEVATION OF MONUMENT #3 PER DRAWING 1C1 DATED 11-26-80. NOTE: EL. 100.00 FT. CORRESPONDS TO U.S.G.S. EL. 35.00 FT.

** ELEVATION MEASURED AT TOP OF ~~STEEL~~ WELL CASING. (CAP REMOVED).
PVC
JRE

	Elevation	Backsight	Height of Instrument	Foresight
Monument #3	*100.55	5.18	105.73	5.33
T.P. #1	100.40	2.33	102.73	2.55
** Well #1	100.18	2.95	103.13	0.68
** Well #4	102.45	1.78	104.23	4.20
T.P. #2	100.03	5.14	105.17	3.15
** Well #5	102.02	1.35	103.37	4.70
** Well #2	98.67	4.30	102.97	4.47
T.P. #3	98.50	5.19	103.69	3.58
** Well #3	100.11	2.64	102.75	2.46
** Well #6	100.29	3.72	104.01	2.71
T.P. #4	101.30	4.62	105.92	4.69
** Well #7	101.23	3.76	104.99	5.15
T.P. #5	99.84	3.35	103.19	6.15
T.P. #6	97.04	5.19	102.23	3.13
T.P. #7	99.10	5.51	104.61	0.74
T.P. #8	103.87	1.44	105.31	4.79
Monument 3	100.52			

* Elevation of Monument #3 per Drawing 1C1 dated 11/26/80. Note: El 100.00 ft. Corresponds to U.S.G.S. El 35.00 ft.

** Elevation measured at top of ~~steel~~ well casing. (Cap removed).

PVC
JRE
5/5/86

SCOEPA00025426

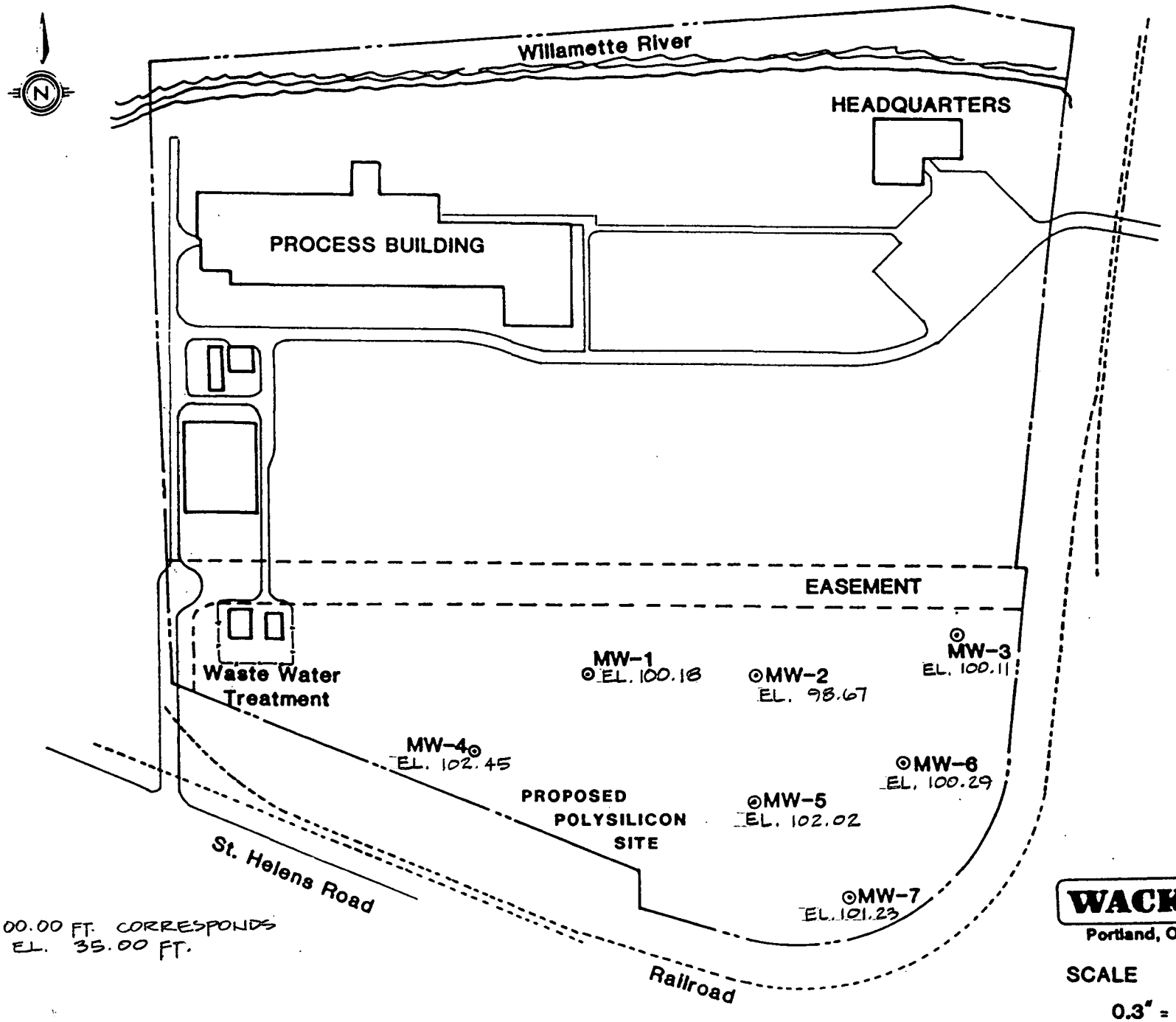
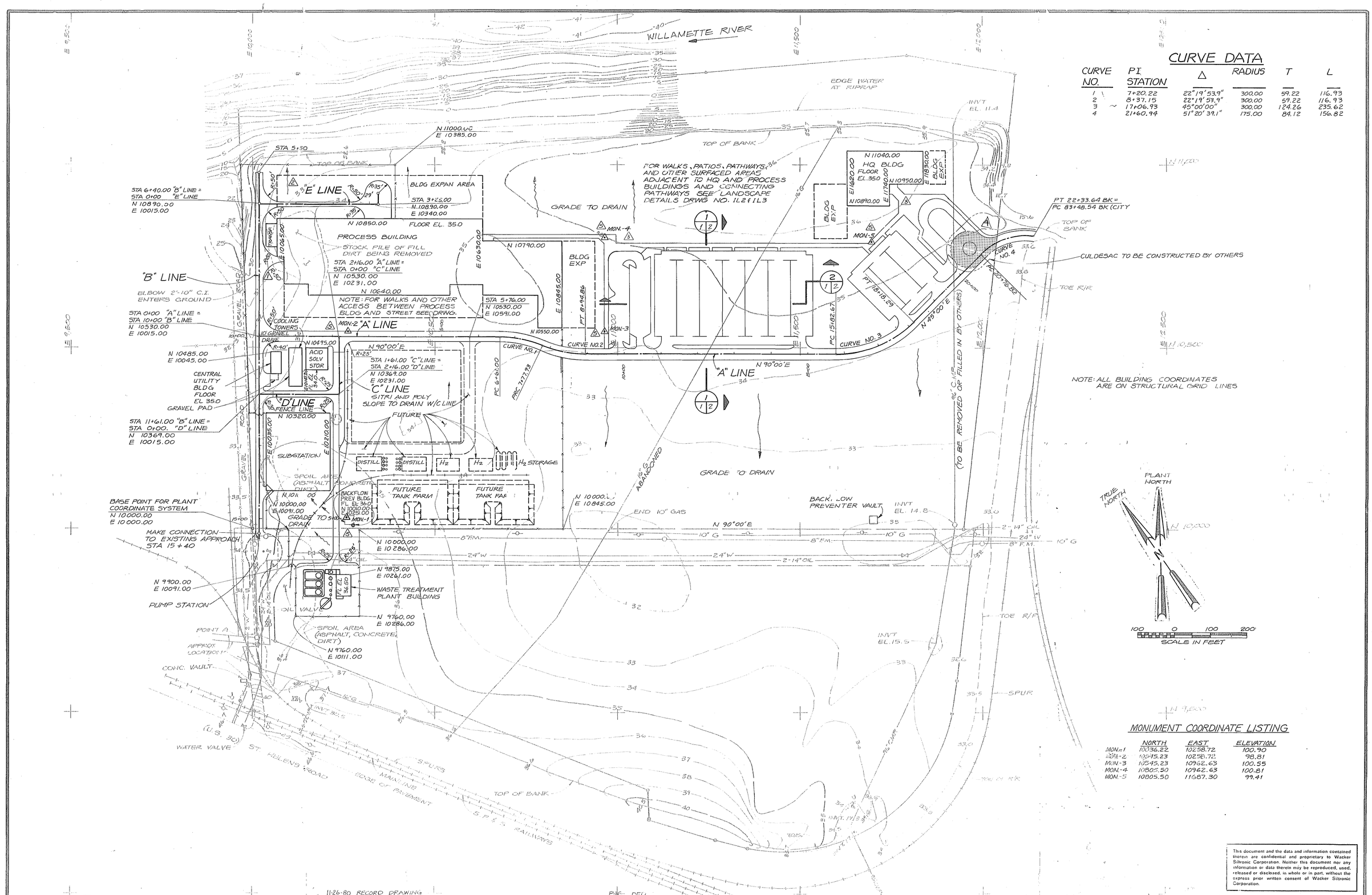


Figure 1 - MONITORING WELL LOCATIONS ON PROPOSED POLYSILICON SITE

SCOEPA00025427



CURVE DATA

CURVE NO.	PI STATION	Δ	RADIUS	T	L
1	7+20.22	22°19'53.9"	300.00	59.22	116.93
2	8+37.15	22°19'53.9"	300.00	59.22	116.93
3	17+06.93	45°00'00"	300.00	124.26	235.62
4	21+60.94	51°20'39.1"	175.00	84.12	156.82

MONUMENT COORDINATE LISTING

	NORTH	EAST	ELEVATION
MON.-1	10036.22	10258.72	100.90
MON.-2	10545.23	10258.72	98.81
MON.-3	10545.23	10962.63	100.55
MON.-4	10805.50	10962.63	100.81
MON.-5	10805.50	11687.30	99.41

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11-26-80 RECORD DRAWING PJC DFD

NO.	DATE	REVISIONS	BY	APPD.
5	4-30-80	ADDITION OF MONUMENTS & COORDINATES LISTING	DLG	REM
4	6 Jan 79	REVISED CUL-DE-SAC F.O. 202.	MD	MD
3	16 JAN 79	TITLE BLOCK CHANGE, CHANGED WALKS TO COINCIDE WITH ARCH. SHTS.	PJC	DFD
2		REVISED "B" & "E" LINES AND ADJACENT FENCE	MD	MD
1	7 NOV 78	REVISED BLDG ACCESS & "E" LINE CUL-DE-SAC	MD	MD

CH2M HILL

DES. MD
DR. PJC
CHK. MD
APPD.

WACKER SILTRONIC PLANT
PORTLAND, OREGON

SITE
CIVIL
PLAN

SHEET 1C1
16 OF 431
DATE DEC. 1978
DWG. NO. P11054.A1

SCOEPA00025428

MONITORING WELLS BENCHSHEET

1. Measured By: Tom Rothschild / Gary Kent
2. Date: 12-15-87
3. River Levels: High Level (last 24 hours): 6.8 Feet at Time: 1410
   Low Level (last 24 hours) : 5.5 Feet at Time: 0700
4. Measuring Point: Top of Standpipe.
5. Measurements: Starting Time: 1415 Ending Time: 1450

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	17' 2"	17.17
2	14' 3"	14.25
3	13' 1/4"	13.02
4	10' 9 1/4"	10.77
5	16' 3 1/2"	16.29
6	16' 2"	16.17
7	16' 4"	16.33
B105	19' 8 3/4"	19.73
B108	22' 10 1/2"	22.88

Comments: _____

TJR 11-19-87
12-15-87 Rev

SCOEPA00025429

MONITORING WELLS BENCHSHEET

1. Measured By: T. J. Rothschild / Gary Kent

2. Date: 11-16-87

3. River Levels: High Level (last 24 hours): _____ Feet at Time: _____

   Low Level (last 24 hours) : _____ Feet at Time: _____

4. Measuring Point: Top of Standpipe.

5. Measurements:

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1 (1443)	15' 6 1/2"	15.54
2 (1433)	15' 10 1/4"	15.85
3 (1427)	16' 11 1/2"	16.96
4 (1449)	16' 11"	16.88
5 (1458)	16' 9"	16.75
6 (1559)	17' 0"	17.00
7 (1551)	19." 3 1/2"	19.29
B105 (1440)	22' 9 1/4"	22.77
B108 (1455)	25' 5 1/2"	25.46

Comments: _____

_____

_____

TJR 11-19-87

SCOEPA00025430

WACKER SILTRONIC POLY SITE MONITORING WELL WATER LEVELS

DATE: 9-29-87 | DELTA LINE LENGTH: _____ | RIVER LEVEL: _____

WELL	TIME	DEPTH TO WATER (FEET)	MEASURING POINT	MEASURED BY (SIGNATURE)	COMMENTS
1	11:32	14.71	Top of PVC Pipe	JJR	
2	11:26	15.00			
3	11:20	16.62			
4	11:36	15.96			
5	11:51	14.46			
6	12:02	18.79			
7	12:07	16.46			
B-105	11:45	22.12			
B-108	11:57	25.04			

DATE: _____ | DELTA LINE LENGTH: _____ | RIVER LEVEL: _____

WELL	TIME	DEPTH TO WATER (FEET)	MEASURING POINT	MEASURED BY (SIGNATURE)	COMMENTS
1					
2					
3					
4					
5					
6					
7					

DATE: _____ | DELTA LINE LENGTH: _____ | RIVER LEVEL: _____

WELL	TIME	DEPTH TO WATER (FEET)	MEASURING POINT	MEASURED BY (SIGNATURE)	COMMENTS
1					
2					
3					
4					
5					
6					
7					

WACKER SILTRONIC POLY SITE MONITORING WELL WATER LEVELS

DATE: 5/21/87 | DELTA LINE LENGTH: — | RIVER LEVEL: 6.0 Ft.

WELL	TIME	DEPTH TO WATER (FEET)	MEASURING POINT	MEASURED BY (SIGNATURE)	COMMENTS
1	14:10	9.67	Top of PVC Pipe		clear, sunny, 70°F
2	13:55	10.88	" "		
3	13:45	14.23	" "		
4	14:20	11.29	" "		
5	14:30	11.04	" "		
6	14:45	13.88	" "		
7	14:35	14.85	" "		
B-105	14:00	18.54	" "		
B-107	14:25	21.33	" "		

DATE: 7-22-87 | DELTA LINE LENGTH: _____ | RIVER LEVEL: _____

WELL	TIME	DEPTH TO WATER (FEET)	MEASURING POINT	MEASURED BY (SIGNATURE)	COMMENTS
1	0930	13.02	Top of PVC pipe		overcast, 68°F
2	0918	13.33	" "		
3	0911	15.79	" "		
4	0937	14.40	" "		
5	0951	14.38	" "		
6	1011	15.65	" "		
7	0026	17.40	" "		
B-105	0923	20.90	" "		
B-107	0945	23.81	" "		

DATE: 8-21-87 | DELTA LINE LENGTH: _____ | RIVER LEVEL: _____

WELL	TIME	DEPTH TO WATER (FEET)	MEASURING POINT	MEASURED BY (SIGNATURE)	COMMENTS
1	1444	13.62	Top of PVC Pipe	J. J. Rothwell	clear 75°F
2	1432	13.92			
3	1421	16.38			
4	1449	15.00			
5	1530	15.04			
6	1603	16.08			
7	1557	18.17			
B105	1459	21.62			
B108	1457	19.67			

WACKER SILTRONIC POLY SITE MONITORING WELL WATER LEVELS

DATE: 2/10/87 | DELTA LINE LENGTH: _____ | RIVER LEVEL: 4.7 Ft

WELL	TIME	DEPTH TO WATER (FEET)	MEASURING POINT	MEASURED BY (SIGNATURE)	COMMENTS
1	14:16	3.71	AT BLACK MARK - TOP OF PVC PIPE		OVERCAST, 63°F
2	14:07	2.25	"		" "
3	14:00	10.63	"		" "
4	14:20	6.50	"		" "
5	14:28	6.13	"		" "
6	14:36	10.52	"		" "
7	14:32	10.92	"		" "
B-105	14:13	18.04	"		" "
B-108	14:26	20.65	"		" "

DATE: 3/10/87 | DELTA LINE LENGTH: _____ | RIVER LEVEL: 4.2 Ft.

WELL	TIME	DEPTH TO WATER (FEET)	MEASURING POINT	MEASURED BY (SIGNATURE)	COMMENTS
1	14:06	3.16	TOP OF PVC PIPE		SLIGHT OVERCAST, 60°F
2	13:59	2.81	" "		" "
3	13:54	10.63	" "		" "
4	14:29	6.27	" "		" "
5	14:17	5.81	" "		" "
6	14:44	11.94	" "		" "
7	14:44	11.02	" "		" "
B-105	14:25	18.13	" "		" "
B-108	14:38	20.69	" "		" "

DATE: 4/9/87 | DELTA LINE LENGTH: _____ | RIVER LEVEL: 3.8 Ft

WELL	TIME	DEPTH TO WATER (FEET)	MEASURING POINT	MEASURED BY (SIGNATURE)	COMMENTS
1	1300	5.58	AT BLACK MARK TOP OF PVC PIPE		SLIGHTLY OVERCAST, 63°F
2	12:48	4.29	" "		" "
3	12:43	12.23	" "		" "
4	13:06	8.42	" "		" "
5	13:23	7.75	" "		" "
6	13:38	11.52	" "		" "
7	13:33	12.33	" "		" "
B-105	12:56	19.79	" "		" "
B-106	13:19	21.67	" "		" "

WACKER SILTRONIC POLY SITE MONITORING WELL WATER LEVELS

DATE: 12-8-86 | DELTA LINE LENGTH: ϕ | RIVER LEVEL: see attached

WELL	TIME	DEPTH TO WATER (FEET)	MEASURING POINT	MEASURED BY (SIGNATURE)	COMMENTS
1	1327	10.22	At Black mark -top of PVC pipe	Don Barckley	Clear, 45°F
2	1317	12.52	"	Don Barckley	" "
3	1312	15.27	"	Don Barckley	" "
4	1332	12.79	"	Don Barckley	" "
5	1344	15.38	"	Don Barckley	" "
6	1356	15.38	"	J.R. Ellis	" "
7	1352	16.31	"	Don Barckley	" "
B-105	1322	19.73	"	Don Barckley	" "
B-108	1337	22.44	"	Don Barckley	" "

DATE: 1-8-87 | DELTA LINE LENGTH: _____ | RIVER LEVEL: _____

WELL	TIME	DEPTH TO WATER (FEET)	MEASURING POINT	MEASURED BY (SIGNATURE)	COMMENTS
1	09:22	7.75	At Black Mark -Top of PVC Pipe	Don Barckley	Clear, 42°F.
2	0915	5.46	"	Don Barckley	" "
3	0908	14.06	"	Don Barckley	" "
4	0926	10.56	"	Don Barckley	" "
5	0934	12.96	"	Don Barckley	" "
6	0954	14.46	"	Don Barckley	" "
7	0939	15.43	"	Don Barckley	" "
B105	0918	18.42	"	Don Barckley	" "
B108	0931	21.42	"	Don Barckley	" "

DATE: 2-10-87 | DELTA LINE LENGTH: ϕ | RIVER LEVEL: _____

WELL	TIME	DEPTH TO WATER (FEET)	MEASURING POINT	MEASURED BY (SIGNATURE)	COMMENTS
1	14:16	3'-8½"			
2	14:07	2'-3"			
3	14:00	10'6¾"			
4	14:20	6'-6"			
5	14:28	6'-½"			
6	14:36 ~~14:32~~	~~1'-11"~~ 10'-6¼"			
7	14:33	10'-11"			

B-105 - 14:13 18'-½"
B-108 - 14:36 20'-7¾"

SCOEPA00025434

WACKER SILTRONIC POLY SITE MONITORING WELL WATER LEVELS

DATE: 9-2-86 | DELTA LINE LENGTH: ϕ | RIVER LEVEL: see attached

WELL	TIME	DEPTH TO WATER (FEET)	MEASURING POINT	MEASURED BY (SIGNATURE)	COMMENTS
1	1356	14.18'	At Black Mark Top of PVC	D. Barckley	Clear, 85°F. no rain
2	1350	11.60'	At Black Mark Top of PVC	D. Barckley	Clear, 85°F. no rain.
3	1343	16.10'	At Black Mark Top of PVC	D. Barckley	Clear, 85°F. no rain
4	1402	15.18'	At Black Mark Top of PVC	D. Barckley	Clear, 85°F no rain
5	1418	15.42'	At Black Mark Top of PVC	D. Barckley	Clear, 85°F. no rain
6	1429	16.25'	At Black Mark Top of PVC	D. Barckley	Clear, 85°F. no rain
7	1425	18.08'	At Black Mark Top of PVC	D. Barckley	Clear, 85°F no rain.
B-108	1413	24.63'	Top of Pipe	D. Barckley	Clear 85°F no rain c

DATE: 10-13-86 | DELTA LINE LENGTH: ϕ | RIVER LEVEL: see attached

WELL	TIME	DEPTH TO WATER (FEET)	MEASURING POINT	MEASURED BY (SIGNATURE)	COMMENTS
1	1349	14.90'	At Black Mark Top of PVC	D. Barckley	Clear, 70°F no rain
2	1342	13.75'	At Black Mark Top of PVC	D. Barckley	Clear, 70°F. no rain
3	1336	16.42'	At Black Mark Top of PVC	D. Barckley	Clear, 70°F. no rain
4	1353	15.88'	At Black Mark Top of PVC	D. Barckley	Clear, 70°F. no rain
5	1400	16.21'	At Black Mark Top of PVC	D. Barckley	Clear, 70°F. no rain
6	1414	16.42'	At Black Mark Top of PVC	D. Barckley	Clear, 70°F. no rain
7	1409	18.25'	At Black Mark Top of PVC	D. Barckley	Clear, 70°F no rain
B108	1404	24.54'	Top of Pipe		

DATE: 11-5-86 | DELTA LINE LENGTH: ϕ | RIVER LEVEL: (see attached)

WELL	TIME	DEPTH TO WATER (FEET)	MEASURING POINT	MEASURED BY (SIGNATURE)	COMMENTS
1	1438	15.04'	At Black Mark Top of PVC Pipe	D. Barckley	Cloudy, 60°+ no rain
2	1430	14.13'	" "	D. Barckley	" " "
3	1422	16.44'	" "	D. Barckley	" " "
4	1443	16.17'	" "	D. Barckley	" " "
5	1454	16.46'	" "	D. Barckley	" " "
6	1505	16.50'	" "	D. Barckley	" " "
7	1501	18.17'	" "	D. Barckley	" " "
B105	1433	20.65'	Top of Pipe	D. Barckley	" " "
B109	1450	23.75'	Top of Pipe	D. Barckley	" " "

WACKER SILTRONIC POLY SITE MONITORING WELL WATER LEVELS

DATE: 5/22/86 | DELTA LINE LENGTH: 0.00 ft. | RIVER LEVEL: see addl data sheet

WELL	TIME	DEPTH TO WATER (FEET)	MEASURING POINT	MEASURED BY (SIGNATURE)	COMMENTS
1	1437	10.17'	At Black Mark-top of PVC	J. Ellis	Perfect day no rain ~75°F.
2	1431	10.27'	At Black Mark-top of PVC	J. Ellis	"
3	1423	14.25'	At Black Mark-top of PVC	J. Ellis	"
4	1444	11.63'	At Black Mark-top of PVC	J. Ellis	"
5	1452	11.92'	At Black Mark-top of PVC	J. Ellis	"
6	1511	14.08'	At Black Mark-top of PVC	D. Barckley	"
7	1500	14.94'	At Black Mark-top of PVC	D. Barckley	"
B108	1505	20.17'	—	D. Barckley	"

DATE: 6/27/86 | DELTA LINE LENGTH: 0 | RIVER LEVEL: see addl data sheet

WELL	TIME	DEPTH TO WATER (FEET)	MEASURING POINT	MEASURED BY (SIGNATURE)	COMMENTS
1	1338	11.85'	At Black Mark Top of PVC	D. Barckley	Cloudy ~85°F. -humid
2	1329	11.44'	At Black Mark Top of PVC	D. Barckley	"
3	1318	15.00'	At Black Mark Top of PVC	D. Barckley	"
4	1345	13.08'	At Black Mark Top of PVC	D. Barckley	"
5	1400	13.42'	At Black Mark Top of PVC	D. Barckley	"
6	1407	11.10'	At Black Mark Top of PVC	D. Barckley	"
7	1412	14.96'	At Black Mark Top of PVC	D. Barckley	"
B-108	1352	21.90'	—	D. Barckley	"

DATE: 7/23/86 | DELTA LINE LENGTH: 0 | RIVER LEVEL: see addl data sheet

WELL	TIME	DEPTH TO WATER (FEET)	MEASURING POINT	MEASURED BY (SIGNATURE)	COMMENTS
1	0826	12.85	At Black Mark Top of PVC	D. Barckley	Overcast - no rain 65°F.
2	0821	12.23	At Black Mark Top of PVC	D. Barckley	" "
3	0815	15.54	At Black Mark Top of PVC	D. Barckley	" "
4	0832	14.10	At Black Mark Top of PVC	D. Barckley	" "
5	0840	14.35	At Black Mark Top of PVC	D. Barckley	" "
6	0856	15.46	At Black Mark Top of PVC	D. Barckley	" "
7	0850	17.00	At Black Mark Top of PVC	D. Barckley	" "
B-108	B-108	22.50	—	D. Barckley	" "

SCOEPA00025436

MONITORING WELL WATER LEVELS

MONITORING WELL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	AVG
MW-1	9.06	–	5.38	8.25	10.17	11.85	12.85	–	14.13	14.90	15.04	10.22	
MW-2	6.40	–	3.25	8.83	10.27	11.44	12.23	–	11.60	13.75	14.13	12.52	
MW-3	14.50	–	11.89	13.50	14.25	15.00	15.54	–	16.10	16.42	16.44	15.27	
MW-4	12.78	–	7.00	10.00	11.63	13.08	14.10	–	15.18	15.88	16.17	12.79	
MW-5	5.30	–	7.22	10.13	11.92	13.42	14.35	–	15.42	16.21	16.46	15.38	
MW-6	14.68	–	10.63	13.17	14.08	11.10	15.46	–	16.25	16.42	16.50	15.38	
MW-7	15.68	–	12.04	13.88	14.94	14.96	17.00	–	18.08	18.25	18.17	16.31	

~~1985~~ → 1986

JJR
2-24-88

SCOEPA0002543

CH2M HILL

PROJECT NUMBER	BORING NUMBER	
P19436.A2	MW-7	SHEET 1 OF 2

SOIL BORING RECORD DRAWING

PROJECT **WACKER SILTRONIC CORPORATION** LOCATION PORTLAND, OREGON

ELEVATION _____ DRILLING CONTRACTOR GEOTECH EXPLORATIONS, BEAVERTON, OREGON

DRILLING METHOD AND EQUIPMENT CME-55, 6" HS AUGERS

WATER LEVEL AND DATE _____ START _____ FINISH _____ LOGGER _____

ELEVATION	DEPTH BELOW SURFACE (FT.)	SAMPLE INTERVAL	SAMPLE TYPE AND NUMBER	SAMPLE RECOVERY	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: NAME, GRADATION OR PLASTICITY, PARTICLE SIZE DISTRIBUTION, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY, USCS GROUP SYMBOL	SYMBOLIC LOG	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
								Grout to surface
	5	5.0				Lower 6" - SILT, low plasticity, moist, gray, soft (ML).		5 1/2' top of bentonite
		6.5	S-1	12"	1-3-1 (4)	Upper 6" - SAND, poorly graded, fine sand, brown, wet, loose, (SP), fill.		Cavings around PVC 7-15'
	10	10.0						10' of top of screen
		11.5	S-2	14	5-9-11 (18)	SAND as in upper 6" of S-1, (SP), fill.		Driller notes water at ±12'
								15' section 10 slot PVC wells
	15	15.0				SAND, same as upper 6" of S-1 (SP), fill.		During well construction, drill hole walls began squeezing in at 5' up to 7', sand was packed in auger and walls apparently squeezed in faster than sand could drop out; tried twice unsuccessfully to jet-out sand.
		16.5	S-3	18	2-1-5			
	20	20.0				Upper 6" - sand as in upper 6" of S-1, (SP), fill; mild hydrocarbon odor.		Fill Native ±
		21.5	S-4	18	5-5-6 (11)	Lower 12" - SILT, low plasticity, medium brown with gray mottling, moist, firm, (ML); native soil.		
	25	25.0				Upper 9" - SILT, low plasticity, medium brown with gray mottling, moist, firm, (ML).		25' bottom screen
		26.5	S-5	18	4-3-4 (7)	Lower 9" - SAND, poorly graded, fine sand, medium gray, wet, loose, (SP), strong hydrocarbon odor, visible blotches of oil (?) in both silt and sand.		5'-4" Sump
								Bottom of Sump = 30'
	30	30.0						Driller notes heave at 30' ±4' of heave

REV 11/82 FORM D1556

SCOEPA00025438

CH2M HILL

PROJECT NUMBER	BORING NUMBER	
P19436.A2	MW-7	SHEET 2 OF 2

SOIL BORING RECORD DRAWING

PROJECT **WACKER SILTRONIC CORPORATION** LOCATION **PORTLAND, OREGON**

ELEVATION _____ DRILLING CONTRACTOR **GEOTECH EXPLORATIONS, BEAVERTON, OREGON**

DRILLING METHOD AND EQUIPMENT **CME-55, 6" HS AUGERS**

WATER LEVEL AND DATE _____ START _____ FINISH _____ LOGGER _____

ELEVATION / DEPTH BELOW SURFACE (FT)	SAMPLE: INTERVAL	SAMPLE: TYPE AND NUMBER	SAMPLE: RECOVERY	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: NAME, GRADATION OR PLASTICITY, PARTICLE SIZE DISTRIBUTION, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY, USCS GROUP SYMBOL	SYMBOLIC LOG	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	31.5	S-6	18	2-1-2 (3)	Lower 9" - SAND, poorly graded, fine, brown, wet, soft, (SP),. Upper 9" - SAND, very fine, brown, wet, loose, (SM); All has definite hydrocarbon (?) odor, not visible in soil, however. Sample may be distrubed, heave material.		Reamed out heaved area from 26 to 30' with wash water and tricone bit to clear auger. Backfill to 32'-4"
35	35.0						
	38.5	S-7	18	3-5-5 (10)	SANDY SILT, low plasticity, 20-30% fine sand, medium brown, moist, soft, (ML); noticeable hydrocarbon (?) odor.		
40	40.0				Upper 7" - SILT, low plasticity, brown, wet, firm, (ML).		
	41.5	S-8	14"	8-11-17 (28)	Lower 7" - SILTY SAND, fine sand, about 30% fine, brown, wet, compact, (SM); both silt and sand have noticeable hydrocarbon (?) odor, no visible traces. END MW at 41.5 feet		Sample choices (Ranked from worst) *S-5 S-6 S-7 - S-8 (about the same) *amount of odor

REV. 11-93 FORM D1556

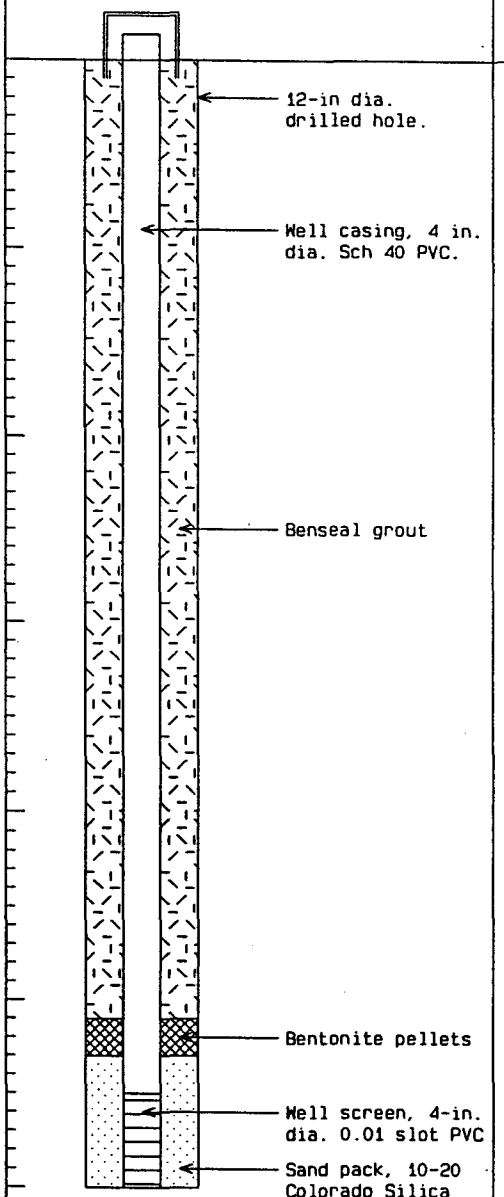
SCOEPA00025439

PROJECT NAME: DOANE LAKE HYDROGEOLOGICAL INVESTIGATION
PROJECT NO: WA103.01

LOG OF MW-3I

CLIENT NAME: INDUSTRIAL GROUP
PROJECT LOCATION: PORTLAND, OREGON
DATE STARTED: 25-JUNE-90
DATE COMPLETED: 25-JUNE-90
LOGGED BY: A. RIPLEY
CHECKED BY: A. RIPLEY

SURFACE ELEV: 33.39 feet
DATUM: MEAN SEA LEVEL
DRILL COMPANY: GEO-TECH EXPLORATIONS
DRILLER: MIKE PETERSEN
DRILL METHOD: HOLLOW STEM AUGER
SAMPLING METHOD: SPT SPLIT SPOON



DEPTH (feet)	BLOWS PER SIX IN.	MATERIALS DESCRIPTION
		Surface silty sand with gravel.
	6 5 8	SILTY SAND with some clay - Dark brown, moist, medium dense, medium-grained sand, some organic fragments (roots), minor clay fraction. (SM)
10	6 7 8	POORLY-GRADED SAND with silt - Brown, moist, medium dense, medium-grained sand, trace silt (<5%). (SP-SM)
		Water level taken 7/18/90
	3 4 4	As above - Saturated.
20	5 4 11	POORLY-GRADED SAND - Brown to grey, saturated, medium dense, medium to coarse-grained sand. (SP-SM)
		SANDY SILT - Dark grey, wet, stiff to very stiff, fine-grained sand, abundant organic fragments. (ML)
		Heaving sands at 25 feet, no sample taken.
30	0/6" 1 1	POORLY-GRADED SAND with silt - Dark grey, saturated, very loose, medium-grained sand grades to SANDY SILT in bottom 6" of sampler. (SP-SM)
	3 3 6	SANDY SILT - Grey, wet to moist, stiff, very fine-grained sand, some mica flakes and organic fragments. (ML)
40	1 2 3	SILT with clay - Dark grey, moist, soft to medium stiff, plastic clay. (MH)
	6 2 3	As above - Large wood fragment in sampler, abundant organic fragments. (MH)
50	2 3 2	SILT with clay - As above. (MH)
60	1 2 3	SILT with clay - As above. (MH)
		Borehole terminated at 61.5 feet.
70		

GERAGHTY & MILLER, INC.

FIGURE A-11

SCOEPA00025440

CH2M HILL

PROJECT NUMBER	BORING NUMBER	
P19436.A2	MW-1	SHEET 1 OF 2

SOIL BORING RECORD DRAWING

PROJECT WACKER SILTRONIC CORPORATION LOCATION PORTLAND, OREGON

ELEVATION _____ DRILLING CONTRACTOR GEOTECH EXPLORATIONS, BEAVERTON, OREGON

DRILLING METHOD AND EQUIPMENT CME-55, 6" HS AUGERS

WATER LEVEL AND DATE _____ START _____ FINISH _____ LOGGER _____

ELEVATION	DEPTH BELOW SURFACE (FT.)	SAMPLE INTERVAL	SAMPLE TYPE AND NUMBER	SAMPLE RECOVERY	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: NAME, GRADATION OR PLASTICITY, PARTICLE SIZE DISTRIBUTION, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY, USCS GROUP SYMBOL	SYMBOLIC LOG	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
								Grout to surface
								Top of bentonite at 2 1/2"
	5	5.0				SILT, low plasticity, medium gray with brown mottling, moist, soft (ML), fill.		Top of gravel at 5'
		6.5	S-1	18	1-1-1 (2)			Screen top at 7'
								Driller notes water at ±9';
	10	10.0				Upper 10" - SILT, same as S-1, some hydrocarbon odor (Jar 1 of 2), fill.		
		11.5	S-2	0	4-4-5 (9)	Lower 8" - SAND, poorly graded, fine sand, dark gray, wet compact (SP), heavily saturated with oil, strong odor (Jar 2 of 2), fill.		Prominent oily sheen and odor to cuttings between 10' and 15'
	15	15.0				SAND, poorly graded, fine sand, dark gray, wet, compact (SP), heavily saturated with oil, fill.		
		16.5	S-3	18	3-4-5 (9)			
	20	20.0				SAND, same as S-3, heavily saturated with oil, fill.		
		21.5	S-4	18	4-3-4 (7)			Screen bottom at 22'
								Driller notes 3 feet of heave at 25', had to wash out hole to clean out heave
	25	25.0				Upper 14" - SAND as in S-3 (SP), mild hydrocarbon odor, probably is slough from washing out heave and not representative.		Fill Native ±21'
		26.5	S.5	18	3-3-4	Lower 4" - SILT, low plasticity, medium brownish gray, moist, firm (ML), no noticeable hydrocarbon odor, probably native soil.		Sump bottom at 27'

REV. 11-82 FORM D1586

SCOEPA00025441

CH2M HILL

PROJECT NUMBER	BORING NUMBER	
P19436.A2	MW-1	SHEET 2 OF 2

SOIL BORING RECORD DRAWING

PROJECT WACKER SILTRONIC CORPORATION LOCATION PORTLAND, OREGON

ELEVATION _____ DRILLING CONTRACTOR GEOTECH EXPLORATIONS, BEAVERTON, OREGON

DRILLING METHOD AND EQUIPMENT CME-55, 6" HS AUGERS

WATER LEVEL AND DATE _____ START _____ FINISH _____ LOGGER _____

ELEVATION / DEPTH BELOW SURFACE (FT.)	SAMPLE: INTERVAL	SAMPLE: TYPE AND NUMBER	SAMPLE: RECOVERY	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: NAME, GRADATION OR PLASTICITY, PARTICLE SIZE DISTRIBUTION, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY, USCS GROUP SYMBOL	SYMBOLIC LOG	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
30	30.0						
	31.5	S-6	18	4-4-5 (9)	SILT, low plasticity, medium brownish gray, moist to wet, includes some sandy silt in upper 6", firm (ML), no noticeable hydrocarbon odor, native soil.		Bottom gravel at 31.5'
					END MW at 31.5 feet.		
							Worst samples
							S-2, Jar 2 of 2 and S-3 are equally bad, more sample in S-3 for testing.

REV. 11-82 FORM D-1586

SCOEPA00025442

CH2M HILL

PROJECT NUMBER	BORING NUMBER	
P19436.A2	MW-2	SHEET 1 OF 2

SOIL BORING RECORD DRAWING

PROJECT WACKER SILTRONIC CORPORATION LOCATION PORTLAND, OREGON

ELEVATION _____ DRILLING CONTRACTOR GEOTECH EXPLORATIONS, BEAVERTON, OREGON

DRILLING METHOD AND EQUIPMENT CME-55, 6" HS AUGERS

WATER LEVEL AND DATE _____ START _____ FINISH _____ LOGGER _____

ELEVATION	DEPTH BELOW SURFACE (FT.)	SAMPLE INTERVAL	SAMPLE TYPE AND NUMBER	SAMPLE RECOVERY	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: NAME GRADATION OR PLASTICITY PARTICLE SIZE DISTRIBUTION. COLOR MOISTURE CONTENT RELATIVE DENSITY OR CONSISTENCY SOIL STRUCTURE. MINERALOGY USCS GROUP SYMBOL	SYMBOLIC LOG	COMMENTS: DEPTH OF CASING. DRILLING RATE. DRILLING FLUID LOSS. TESTS AND INSTRUMENTATION
	5	5.0						Grout to surface
								Top of bentonite at 3'
								Top of gravel at 4 1/2'
		6.5	S-1	18	1-2-3 (5)	SAND, poorly graded, fine sand, brown, moist, loose (SP), fill.		
								Screen top at 7 1/2'
								Driller notes water at ±8';
	10	10.0						
		11.5	S-2	0	1-4-5	NO RECOVERY; sample tube came up oily, strong hydrocarbon odor, sandy material on outside of sampler.		
								15' screen 2" schedule 40 10 slot PVC
	15	15.0						
		16.5	S-3	18	1-1-2 (3)	SAND, poorly graded, fine sand, chalk gray, wet, loose (SP), some lenses of silt; strong hydrocarbon odor, oily material observed on sample fill.		
								Driller notes considerabe degree of oiliness to cutting from 15'-25', more than in MW-1
	20	20.0						
		21.5	S-4	18	5-6-6 (12)	SANDY SILT, non-plastic, ~30% fill sand, medium to dark gray, wet, firm, (ML), strong hydrocarbon odor, noticeable oil in sample fill?		
								Screen bottom at 22'
								5' sump
	25	25.0						
		26.5	S-5	18	3-5-5 (10)	Upper 14" - SAND, as in S-3, includes strong hydrocarbon odor and visible oil in sample, material may be slough from drilling and washing out heaved zone, may not be representative of 25'-26.5' interval.		Driller notes 2' heave at 25', had to wash out hole
						Lower 4" - SILT, low plasticity, medium grayish brown, firm, moist (ML), no apparent hydrocarbon, native.		Sump bottom at 27' 4"

REV. 11/82 FORM D1586

SCOEPA00025443

CH2M HILL

PROJECT NUMBER	BORING NUMBER	
P19436.A2	MW-2	SHEET 2 OF 2

SOIL BORING RECORD DRAWING

PROJECT WACKER SILTRONIC CORPORATION LOCATION PORTLAND, OREGON

ELEVATION _____ DRILLING CONTRACTOR GEOTECH EXPLORATIONS, BEAVERTON, OREGON

DRILLING METHOD AND EQUIPMENT CME-55, 6" HS AUGERS

WATER LEVEL AND DATE _____ START _____ FINISH _____ LOGGER _____

ELEVATION	DEPTH BELOW SURFACE (FT.)	SAMPLE INTERVAL	SAMPLE TYPE AND NUMBER	SAMPLE RECOVERY	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: NAME, GRADATION OR PLASTICITY, PARTICLE SIZE DISTRIBUTION, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY, USCS GROUP SYMBOL	SYMBOLIC LOG	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	30	31.5	S-6	18	3-3-4 (7)	SILT, low plasticity, grayish brown, moist, firm (ML), no noticeable hydrocarbon odor, native soil.		
						END MW at 31.5 feet		
								Worst sample
								S-3, S-4 - about the same

REV. 11-83 FORM D1586

SCOEPA00025444

CH2M HILL

PROJECT NUMBER	BORING NUMBER	SHEET 1 OF 2
P19436.A2	MW-3	

SOIL BORING RECORD DRAWING

PROJECT **WACKER SILTRONIC CORPORATION** LOCATION **PORTLAND, OREGON**

ELEVATION _____ DRILLING CONTRACTOR **GEOTECH EXPLORATIONS, BEAVERTON, OREGON**

DRILLING METHOD AND EQUIPMENT **CME-55, 6" HS AUGERS**

WATER LEVEL AND DATE _____ START _____ FINISH _____ LOGGER _____

ELEVATION / DEPTH BELOW SURFACE (FT.)	SAMPLE: INTERVAL	SAMPLE: TYPE AND NUMBER	SAMPLE: RECOVERY	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: NAME, GRADATION OR PLASTICITY, PARTICLE SIZE DISTRIBUTION, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY, USCS GROUP SYMBOL	SYMBOLIC LOG	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
5	5.0						Silty topsoil, then sandy cuttings to 5'
	6.5	S-1	18	7-6-2 (8)	SAND, poorly graded, fine sand, ~15% fine, but some interlayers of silt, medium dense, dry, light brown, (SP), fill.		Grout to surface
							Cuttins change to dark gray silt at ±7'
							7' top of bentonite soil
10	10.0						Top of sand pace 8 1/2'
	11.5	S-2	18	2-2-7 (9)	Interbedded silt and sand, sand same as above (SP), except gray, SILT, low plasticity, 10-15% sand, odor, light gray, moist, firm (ML), fill.		
							Screen top 12'
15	15.0						Driller notes H_2O at ±15'
	16.5	S-3	18	1-4-10 (14)	SAND, poorly graded, same as S-1, except strong hydrocarbon odor. (SP), fill.		First notice hydrocarbon odor in cutting at 15'
20	20.0						15' schedule 40 2" 10 slot PVC screen
	21.5	S-4	18	4-4-7 (11)	Interbedded silt and sand, same as S-2, except includes partially decomposed wood fragments and mild to strong hydrocarbon odor, wet, gray, fill.		
25	25.0						
	26.5	S-5	18	5-6-6 (12)	SAND, poorly graded, fine sand, less than 10% fine, wet, medium to dark gray, compact (SP), strong hydrocarbon odor, fill.		Screen bottom 27'
							5'- 4" Sump
30	30.0						

REV. 11-82 FORM D1886

SCOEPA00025445

CH2M HILL

PROJECT NUMBER	BORING NUMBER	
P19436.A2	MW-3	SHEET 2 OF 2

SOIL BORING RECORD DRAWING

PROJECT WACKER SILTRONIC CORPORATION LOCATION PORTLAND, OREGON

ELEVATION _____ DRILLING CONTRACTOR GEOTECH EXPLORATIONS, BEAVERTON, OREGON

DRILLING METHOD AND EQUIPMENT CME-55, 6" HS AUGERS

WATER LEVEL AND DATE _____ START _____ FINISH _____ LOGGER _____

ELEVATION / DEPTH BELOW SURFACE (FT.)	SAMPLE: INTERVAL	SAMPLE: TYPE AND NUMBER	SAMPLE: RECOVERY	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: NAME, GRADATION OR PLASTICITY, PARTICLE SIZE DISTRIBUTION, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY, USCS GROUP SYMBOL	SYMBOLIC LOG	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	31.5	S-6	18	4-5-5 (10)	SAND, poorly graded, fine sand, some interbedded silt in lower 2-4", medium gray, wet, medium dense, strong hydrocarbon odor, fill.		Sump bottom at 32'- 4"
35	35.0						Bottom of fill at ±34 1/2'
	36.5	S-7	18	8-6-6 (12)	Upper 14" - mixture of sand and silt, probably washed cavings. Lower 4" - SILT, low plasticity, medium to dark gray, moist, firm (ML), slight hydrocarbon odor in upper 12", not noticeable in lower 6", sand and silt were mixed together in jar, silt is probably native soil.		Augered to 35' and driller notes 3' of heave; opted to remove check ball from sampler and jet it to sample position in hopes of getting recovery; sample may be disturbed; pumped fresh water into hole (sample of water taken).
40	40.0						
	41.5	S-8	6"	3-3-3 (9)	Upper 12" - sand as in S-6, but is washed, probably is heaved material, discarded. Lower 6" - SILT, low plasticity, medium to dark gray, moist, firm (ML), probably native soil, no noticeable hydrocarbon odor.		Worst samples Sample choices, any of S-3, S-4, S-5, S-6.

REV. 11-83 FORM D1696

SCOEPA00025446

CH2M HILL

PROJECT NUMBER	BORING NUMBER	
P19436.A2	MW-4	SHEET 1 OF 2

SOIL BORING RECORD DRAWING

PROJECT **WACKER SILTRONIC CORPORATION** LOCATION **PORTLAND, OREGON**

ELEVATION _____ DRILLING CONTRACTOR **GEOTECH EXPLORATIONS, BEAVERTON, OREGON**

DRILLING METHOD AND EQUIPMENT **CME-55, 6" HS AUGERS**

WATER LEVEL AND DATE _____ START _____ FINISH _____ LOGGER _____

ELEVATION	DEPTH BELOW SURFACE (FT.)	SAMPLE INTERVAL	SAMPLE TYPE AND NUMBER	SAMPLE RECOVERY	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: NAME, GRADATION OR PLASTICITY, PARTICLE SIZE DISTRIBUTION, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY, USCS GROUP SYMBOL	SYMBOLIC LOG	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
								Hole is within 20' of abandoned natural gas line
								Grout 5' to surface
	5	5.0				Upper 9" - SAND, poorly graded, fine sand, brown, moist to wet, loose (SP).		Bentonite from 5'-6'
		6.5	S-1	18	5-1-2 (3)	Lower 9" - SILT, non-plastic, 10-20% fine sand, dark gray, moist, soft (ML), fill.		Screen top at 6 1/2'
								Some gravel - like material at 8'
								Driller notes water at ±8';
	10	10.0				Upper 6" - SAND, same as S-1, maybe slough.		
		11.5	S-2	18	11-13-11 (24)	Lower 12" - SILT, same as above.		15' screen 10 slot 2" schedule 40 PVC
	15	15.0				SAND, poorly graded, fine sand, saturated, loose, (SP), maybe slough, possible mild odor of hydrocarbon.		
		16.5	S-3	6"	3-3-4 (7)			Piece wood jammed into end of shoe
	20	20.0				SILT, low plasticity, brownish gray, moist, firm, (ML), native soil; included pieces of wille, probably dragged into sample.		Fill ±20' Native
		21.5	S-4	18	1-4-4 (8)			Screen bottom at 21 1/2'
								5'- 4" Sump
	25	25.0				SILT, same as above.		
		26.5	S.5	12	4-4-4 (8)			Tailpiece bottom at 27'
								Bentonite from 27-28'
								Gravel to 41 1/2'
	30	30.0						

CH2M HILL

PROJECT NUMBER	BORING NUMBER	
P19436.A2	MW-4	SHEET 2 OF 2

SOIL BORING RECORD DRAWING

PROJECT **WACKER SILTRONIC CORPORATION** LOCATION **PORTLAND, OREGON**

ELEVATION _____ DRILLING CONTRACTOR **GEOTECH EXPLORATIONS, BEAVERTON, OREGON**

DRILLING METHOD AND EQUIPMENT **CME-55, 6" HS AUGERS**

WATER LEVEL AND DATE _____ START _____ FINISH _____ LOGGER _____

ELEVATION / DEPTH BELOW SURFACE (FT.)	SAMPLE INTERVAL	SAMPLE TYPE AND NUMBER	SAMPLE RECOVERY	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: NAME, GRADATION OR PLASTICITY, PARTICLE SIZE DISTRIBUTION, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY, USCS GROUP SYMBOL	SYMBOLIC LOG	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	31.5	S-6	18	4-5-4 (9)	SILT, low plasticity, gray with brown mottling, moist, firm (ML), includes some decomposed plant fragments.		
35	35.0						
	36.5	S-7	8	2-3-8 (11)	SANDY SILT, non-plastic, 30-50% fine sand, brown, moist, firm (ML).		Gravel to 41 1/2'
40	40.0						
	41.5	S-8	8		END MW at 41.5'		

Worst samples

None - all have clean appearance

REV. 11-82 FORM D-1886

SCOEPA00025448

CH2M HILL

PROJECT NUMBER	BORING NUMBER	
P19436.A2	MW-5	SHEET 1 OF 2

SOIL BORING RECORD DRAWING

PROJECT **WACKER SILTRONIC CORPORATION** LOCATION **PORTLAND, OREGON**

ELEVATION _____ DRILLING CONTRACTOR **GEOTECH EXPLORATIONS, BEAVERTON, OREGON**

DRILLING METHOD AND EQUIPMENT **CME-55, 6" HS AUGERS**

WATER LEVEL AND DATE _____ START _____ FINISH _____ LOGGER _____

ELEVATION / DEPTH BELOW SURFACE (FT.)	SAMPLE: INTERVAL	SAMPLE: TYPE AND NUMBER	SAMPLE: RECOVERY	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: NAME, GRADATION OR PLASTICITY, PARTICLE SIZE DISTRIBUTION, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY, USCS GROUP SYMBOL	SYMBOLIC LOG	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
5	5.0						Grout to surface Top of bentonite seals = 2' Top of sand at 4' Screen top at 5'
	6.5	S-1	18	4-4-8 (12)	SAND, poorly graded, fine sands, brown and gray, some 1/2" silt lenses, moist, loose; includes some oil sheen and odor.		Dark gray sandy material in cuttings from 5'-10', noticeable oily smell and sheen
10	10.0						Driller notes water 5'-10'
	11.5	S-2	18	6-6-8 (14)	SAND, poorly graded, fine sand, dark gray, wet, loose to compact, (SP), fill, saturated with oil (split samples taken, Jar 1 and Jar 2).		
15	15.0						
	16.5	S-3	18		SAND, same as S-2, except only has oily odor and occassional sheen in soil.		
20	20.0						Screen bottom at 20'
	21.5	S-4	18	3-4-5 (9)	SAND, same as S-2, excet has mild odor of oil; silt in top.		Silt in tip of sampler, for S-4 fill ±21 Native
25	25.0						Sump bottom at 25' Tailpiece bottom at 25' - 4"
	26.5	S-5	9	3-5-10 (15)	SILT, low plasticity, 10-15% fine sand, medium gray with brown, yellow and reddish mottling, slightly moist, very stiff (ML), no noticeable hydrocarbon odor.		
30	30.0						NOTE: Driller lost steel weight for tape in hole at 30 feet, not recovered.

REV. 11-83 FORM CH56

SCOEPA00025449

CH2M HILL

PROJECT NUMBER	BORING NUMBER	SHEET 2 OF 2
P19436.A2	MW-5	

SOIL BORING RECORD DRAWING

PROJECT **WACKER SILTRONIC CORPORATION** LOCATION PORTLAND, OREGON

ELEVATION _____ DRILLING CONTRACTOR GEOTECH EXPLORATIONS, BEAVERTON, OREGON

DRILLING METHOD AND EQUIPMENT CME-55, 6" HS AUGERS

WATER LEVEL AND DATE _____ START _____ FINISH _____ LOGGER _____

ELEVATION / DEPTH BELOW SURFACE (FT.)	SAMPLE: INTERVAL	SAMPLE: TYPE AND NUMBER	SAMPLE: RECOVERY	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: NAME, GRADATION OR PLASTICITY, PARTICLE SIZE DISTRIBUTION, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY, USCS GROUP SYMBOL	SYMBOLIC LOG	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	31.5	S-6	18	4-5-5 (10)	**SILT, low plasticity, about 10% fine sand, gray with brown mottling, moist, stiff (ML), no noticeable hydrocarbon odor.**		
					END MW at 31.5 feet.		

Worst samples

S-2 = worst
S-3

REV. 11 82 FORM CH686

SCOEPA00025450

CH2M HILL

PROJECT NUMBER	BORING NUMBER	
P19436.A2	MW-6	SHEET 1 OF 2

SOIL BORING RECORD DRAWING

PROJECT **WACKER SILTRONIC CORPORATION** LOCATION **PORTLAND, OREGON**

ELEVATION _____ DRILLING CONTRACTOR **GEOTECH EXPLORATIONS, BEAVERTON, OREGON**

DRILLING METHOD AND EQUIPMENT **CME-55, 6" HS AUGERS**

WATER LEVEL AND DATE _____ START _____ FINISH _____ LOGGER _____

ELEVATION	DEPTH BELOW SURFACE (FT.)	SAMPLE INTERVAL	SAMPLE TYPE AND NUMBER	SAMPLE RECOVERY	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: NAME, GRADATION OR PLASTICITY, PARTICLE SIZE DISTRIBUTION, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY, USCS GROUP SYMBOL	SYMBOLIC LOG	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
								Grout to surface
	5	5.0						
		6.5	S-1	18	3-8-11 (19)	SAND, poorly graded, fine sand, less than 10% fine, brown, moist, compact (SP), fill.		Bentonite to 6 1/2'
								Sand to 7 1/2'
								Top of screen at 9'
	10	10.0						
		11.5	S-2	18	10-10-11 (21)	Primarily sand, as in S-1, but with several 1-inch silt layers; lower 6" of sample has strong hydrocarbon odor to it.		
								Driller notes water at ±12', coincident with appearance of "oily" odor from cuttings while drilling from 10-15'
	15	15.0						
		16.5	S-3	18	1-1-2 (3)	SAND, as in S-1, except lower 6" have blackish discoloration and strong hydrocarbon odor; small oily splotches noticeable in soil.		
	20	20.0						
		21.5	S-4	18	3-3-5 (8)	Upper 6" - SAND as in S-1, have blackish discoloration and hydrocarbon odor, fill. Lower 12" - SILT, low plasticity, gray with brown mottling, firm (ML), hydrocarbon odor not noticeable.		A-rods came out of hold with unusual yellow discoloration from water at 20-25'
								Bottom of screen at 24'
	25	25.0						
		26.5	S-5	18	9-26-26 (52)	SAND, as in S-1, but dark gray with mild hydrocarbon odor, material might be heaved sands and not representative of in-situ soil at 25'.		Driller notes 4' of heave after drilling to 25'; also, chain fell in hole, but was able to recover by retracting augers from hole; Augers moved during SPT from S-5, driller says no contact with sampler; why so high of an N value?
								Sump to 29 1/2'
	30	30.0						

REV. 11/82 FORM D1586

SCOEPA00025451

CH2M HILL

PROJECT NUMBER	BORING NUMBER	
P19436.A2	MW-6	SHEET 2 OF 2

SOIL BORING RECORD DRAWING

PROJECT WACKER SILTRONIC CORPORATION LOCATION PORTLAND, OREGON

ELEVATION _____ DRILLING CONTRACTOR GEOTECH EXPLORATIONS, BEAVERTON, OREGON

DRILLING METHOD AND EQUIPMENT CME-55, 6" HS AUGERS

WATER LEVEL AND DATE _____ START _____ FINISH _____ LOGGER _____

ELEVATION	DEPTH BELOW SURFACE (FT.)	SAMPLE INTERVAL	SAMPLE TYPE AND NUMBER	SAMPLE RECOVERY	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: NAME, GRADATION OR PLASTICITY, PARTICLE SIZE DISTRIBUTION, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY, USCS GROUP SYMBOL	SYMBOLIC LOG	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
		31.5	S-6	18	5-7-12 (19)	All 18" of soil in barrel is SAND, poorly graded, fine sand, less than 10% fine, medium to dark gray, wet, compact, (SP), probably heave or disturbed soil, not representative of 30' depth; mild hydrocarbon odor. 2" of soil in shoe of sampler is SANDY SILT, non-plastic, 30-50% fine sand, medium gray, wet, firm, (ML); no noticeable hydrocarbon odor, sandy silt is probably representative of in-situ soil.		Driller notes 3' of heave from 30-29' prior to sampling S-6; had to drill/wash out heave
								Sample choices S-3

REV 11/82 FORM D1556

SCOEPA00025452

CH2M HILL

PROJECT NUMBER	BORING NUMBER	
P19436.A2	MW-1	SHEET 1 OF 2

SOIL BORING RECORD DRAWING

PROJECT **WACKER SILTRONIC CORPORATION** LOCATION **PORTLAND, OREGON**

ELEVATION _____ DRILLING CONTRACTOR **GEOTECH EXPLORATIONS, BEAVERTON, OREGON**

DRILLING METHOD AND EQUIPMENT **CME-55, 6" HS AUGERS**

WATER LEVEL AND DATE _____ START _____ FINISH _____ LOGGER _____

ELEVATION	DEPTH BELOW SURFACE (FT.)	SAMPLE INTERVAL	SAMPLE TYPE AND NUMBER	SAMPLE RECOVERY	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: NAME, GRADATION OR PLASTICITY, PARTICLE SIZE DISTRIBUTION, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY, USCS GROUP SYMBOL	SYMBOLIC LOG	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
								Grout to surface
								Top of bentonite at 2 1/2"
	5	5.0				SILT, low plasticity, medium gray with brown mottling, moist, soft (ML), fill.		Top of gravel at 5'
		6.5	S-1	18	1-1-1 (2)			Screen top at 7'
								Driller notes water at ±9';
	10	10.0				Upper 10" - SILT, same as S-1, some hydrocarbon odor (Jar 1 of 2), fill.		
		11.5	S-2	0	4-4-5 (9)	Lower 8" - SAND, poorly graded, fine sand, dark gray, wet compact (SP), heavily saturated with oil, strong odor (Jar 2 of 2), fill.		Prominent oily sheen and odor to cuttings between 10' and 15'
	15	15.0				SAND, poorly graded, fine sand, dark gray, wet, compact (SP), heavily saturated with oil, fill.		
		16.5	S-3	18	3-4-5 (9)			
	20	20.0				SAND, same as S-3, heavily saturated with oil, fill.		
		21.5	S-4	18	4-3-4 (7)			Screen bottom at 22'
								Driller notes 3 feet of heave at 25', had to wash out hole to clean out heave
	25	25.0				Upper 14" - SAND as in S-3 (SP), mild hydrocarbon odor, probably is slough from washing out heave and not representative.		Fill Native ±21'
		26.5	S.5	18	3-3-4	Lower 4" - SILT, low plasticity, medium brownish gray, moist, firm (ML), no noticeable hydrocarbon odor, probably native soil.		Sump bottom at 27'

CH2M HILL

PROJECT NUMBER	BORING NUMBER	SHEET 2 OF 2
P19436.A2	MW-1	

SOIL BORING RECORD DRAWING

PROJECT **WACKER SILTRONIC CORPORATION** LOCATION **PORTLAND, OREGON**

ELEVATION _____ DRILLING CONTRACTOR **GEOTECH EXPLORATIONS, BEAVERTON, OREGON**

DRILLING METHOD AND EQUIPMENT **CME-55, 6" HS AUGERS**

WATER LEVEL AND DATE _____ START _____ FINISH _____ LOGGER _____

ELEVATION / DEPTH BELOW SURFACE (FT.)	SAMPLE: INTERVAL	SAMPLE: TYPE AND NUMBER	SAMPLE: RECOVERY	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: NAME, GRADATION OR PLASTICITY, PARTICLE SIZE DISTRIBUTION, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY, USCS GROUP SYMBOL	SYMBOLIC LOG	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
30	30.0						
	31.5	S-6	18	4-4-5 (9)	**SILT, low plasticity, medium brownish gray, moist to wet, includes some sandy silt in upper 6", firm (ML), no noticeable hydrocarbon odor, native soil.**		**Bottom gravel at 31.5'**
					END MW at 31.5 feet.		

Worst samples

S-2, Jar 2 of 2 and S-3 are equally bad, more sample in S-3 for testing.

REV. 11-82 FORM D-1586

SCOEPA00025454

CH2M HILL

PROJECT NUMBER	BORING NUMBER	
P19436.A2	MW-2	SHEET 1 OF 2

SOIL BORING RECORD DRAWING

PROJECT **WACKER SILTRONIC CORPORATION** LOCATION **PORTLAND, OREGON**

ELEVATION _____ DRILLING CONTRACTOR **GEOTECH EXPLORATIONS, BEAVERTON, OREGON**

DRILLING METHOD AND EQUIPMENT **CME-55, 6" HS AUGERS**

WATER LEVEL AND DATE _____ START _____ FINISH _____ LOGGER _____

ELEVATION	DEPTH BELOW SURFACE (FT.)	SAMPLE INTERVAL	SAMPLE TYPE AND NUMBER	SAMPLE RECOVERY	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: NAME GRADATION OR PLASTICITY PARTICLE SIZE DISTRIBUTION. COLOR MOISTURE CONTENT RELATIVE DENSITY OR CONSISTENCY SOIL STRUCTURE. MINERALOGY USCS GROUP SYMBOL	SYMBOLIC LOG	COMMENTS: DEPTH OF CASING. DRILLING RATE. DRILLING FLUID LOSS. TESTS AND INSTRUMENTATION
	5	5.0						Grout to surface
								Top of bentonite at 3'
								Top of gravel at 4 1/2'
		6.5	S-1	18	1-2-3 (5)	SAND, poorly graded, fine sand, brown, moist, loose (SP), fill.		
								Screen top at 7 1/2'
								Driller notes water at ±8';
	10	10.0						
		11.5	S-2	0	1-4-5	NO RECOVERY; sample tube came up oily, strong hydrocarbon odor, sandy material on outside of sampler.		
								15' screen 2" schedule 40 10 slot PVC
	15	15.0						
		16.5	S-3	18	1-1-2 (3)	SAND, poorly graded, fine sand, chalk gray, wet, loose (SP), some lenses of silt; strong hydrocarbon odor, oily material observed on sample fill.		
								Driller notes considerabe degree of oiliness to cutting from 15'-25', more than in MW-1
	20	20.0						
		21.5	S-4	18	5-6-6 (12)	SANDY SILT, non-plastic, ~30% fill sand, medium to dark gray, wet, firm, (ML), strong hydrocarbon odor, noticeable oil in sample fill?		
								Screen bottom at 22'
								5' sump
	25	25.0						
		26.5	S-5	18	3-5-5 (10)	Upper 14" - SAND, as in S-3, includes strong hydrocarbon odor and visible oil in sample, material may be slough from drilling and washing out heaved zone, may not be representative of 25'-26.5' interval.		Driller notes 2' heave at 25', had to wash out hole
						Lower 4" - SILT, low plasticity, medium grayish brown, firm, moist (ML), no apparent hydrocarbon, native.		Sump bottom at 27' 4"

REV. 11/82 FORM D1586

SCOEPA00025455

CH2M HILL

PROJECT NUMBER	BORING NUMBER	
P19436.A2	MW-2	SHEET 2 OF 2

SOIL BORING RECORD DRAWING

PROJECT WACKER SILTRONIC CORPORATION LOCATION PORTLAND, OREGON

ELEVATION _____ DRILLING CONTRACTOR GEOTECH EXPLORATIONS, BEAVERTON, OREGON

DRILLING METHOD AND EQUIPMENT CME-55, 6" HS AUGERS

WATER LEVEL AND DATE _____ START _____ FINISH _____ LOGGER _____

ELEVATION	DEPTH BELOW SURFACE (FT.)	SAMPLE INTERVAL	SAMPLE TYPE AND NUMBER	SAMPLE RECOVERY	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: NAME, GRADATION OR PLASTICITY, PARTICLE SIZE DISTRIBUTION, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY, USCS GROUP SYMBOL	SYMBOLIC LOG	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	30	31.5	S-6	18	3-3-4 (7)	SILT, low plasticity, grayish brown, moist, firm (ML), no noticeable hydrocarbon odor, native soil.		
						END MW at 31.5 feet		
								Worst sample
								S-3, S-4 - about the same

REV. 11-82 FORM D1586

SCOEPA00025456

CH2M HILL

PROJECT NUMBER	BORING NUMBER	
P19436.A2	MW-3	SHEET 1 OF 2

SOIL BORING RECORD DRAWING

PROJECT **WACKER SILTRONIC CORPORATION** LOCATION **PORTLAND, OREGON**

ELEVATION _____ DRILLING CONTRACTOR **GEOTECH EXPLORATIONS, BEAVERTON, OREGON**

DRILLING METHOD AND EQUIPMENT **CME-55, 6" HS AUGERS**

WATER LEVEL AND DATE _____ START _____ FINISH _____ LOGGER _____

ELEVATION / DEPTH BELOW SURFACE (FT)	SAMPLE INTERVAL	SAMPLE TYPE AND NUMBER	SAMPLE RECOVERY	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: NAME, GRADATION OR PLASTICITY, PARTICLE SIZE DISTRIBUTION, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY, USCS GROUP SYMBOL	SYMBOLIC LOG	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
5	5.0						Silty topsoil, then sandy cuttings to 5'
	6.5	S-1	18	7-6-2 (8)	SAND, poorly graded, fine sand, ~15% fine, but some interlayers of silt, medium dense, dry, light brown, (SP), fill.		Grout to surface
							Cuttins change to dark gray silt at ±7'
							7' top of bentonite soil
10	10.0						Top of sand pace 8 1/2'
	11.5	S-2	18	2-2-7 (9)	Interbedded silt and sand, sand same as above (SP), except gray, SILT, low plasticity, 10-15% sand, odor, light gray, moist, firm (ML), fill.		
							Screen top 12'
15	15.0						
	16.5	S-3	18	1-4-10 (14)	SAND, poorly graded, same as S-1, except strong hydrocarbon odor. (SP), fill.		Driller notes H_2O at ±15'
							First notice hydrocarbon odor in cutting at 15'
20	20.0						
	21.5	S-4	18	4-4-7 (11)	Interbedded silt and sand, same as S-2, except includes partially decomposed wood fragments and mild to strong hydrocarbon odor, wet, gray, fill.		15' schedule 40 2" 10 slot PVC screen
25	25.0						
	26.5	S-5	18	5-6-6 (12)	SAND, poorly graded, fine sand, less than 10% fine, wet, medium to dark gray, compact (SP), strong hydrocarbon odor, fill.		Screen bottom 27'
							5'- 4" Sump
30	30.0						

REV. 11-82 FORM D1886

SCOEPA00025457

CH2M HILL

PROJECT NUMBER	BORING NUMBER	
P19436.A2	MW-3	SHEET 2 OF 2

SOIL BORING RECORD DRAWING

PROJECT **WACKER SILTRONIC CORPORATION** LOCATION PORTLAND, OREGON

ELEVATION _____ DRILLING CONTRACTOR GEOTECH EXPLORATIONS, BEAVERTON, OREGON

DRILLING METHOD AND EQUIPMENT CME-55, 6" HS AUGERS

WATER LEVEL AND DATE _____ START _____ FINISH _____ LOGGER _____

ELEVATION	DEPTH BELOW SURFACE (FT.)	SAMPLE INTERVAL	SAMPLE TYPE AND NUMBER	SAMPLE RECOVERY	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: NAME, GRADATION OR PLASTICITY, PARTICLE SIZE DISTRIBUTION, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY, USCS GROUP SYMBOL	SYMBOLIC LOG	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
		31.5	S-6	18	4-5-5 (10)	SAND, poorly graded, fine sand, some interbedded silt in lower 2-4", medium gray, wet, medium dense, strong hydrocarbon odor, fill.		Sump bottom at 32'- 4"
								Bottom of fill at ±34 1/2'
	35	35.0				Upper 14" - mixture of sand and silt, probably washed cavings.		Augered to 35' and driller notes 3' of heave; opted to remove check ball from sampler and jet it to sample position in hopes of getting recovery; sample may be disturbed; pumped fresh water into hole (sample of water taken).
		36.5	S-7	18	8-6-6 (12)	Lower 4" - SILT, low plasticity, medium to dark gray, moist, firm (ML), slight hydrocarbon odor in upper 12", not noticeable in lower 6", sand and silt were mixed together in jar, silt is probably native soil.		
	40	40.0				Upper 12" - sand as in S-6, but is washed, probably is heaved material, discarded.		
		41.5	S-8	6"	3-3-3 (9)	Lower 6" - SILT, low plasticity, medium to dark gray, moist, firm (ML), probably native soil, no noticeable hydrocarbon odor.		
								Worst samples
								Sample choices, any of S-3, S-4, S-5, S-6.

REV. 11-83 FORM D1556

SCOEPA00025458

CH2M HILL

PROJECT NUMBER	BORING NUMBER	
P19436.A2	MW-4	SHEET 1 OF 2

SOIL BORING RECORD DRAWING

PROJECT **WACKER SILTRONIC CORPORATION** LOCATION **PORTLAND, OREGON**

ELEVATION _____ DRILLING CONTRACTOR **GEOTECH EXPLORATIONS, BEAVERTON, OREGON**

DRILLING METHOD AND EQUIPMENT **CME-55, 6" HS AUGERS**

WATER LEVEL AND DATE _____ START _____ FINISH _____ LOGGER _____

ELEVATION / DEPTH BELOW SURFACE (FT.)	SAMPLE: INTERVAL	SAMPLE: TYPE AND NUMBER	SAMPLE: RECOVERY	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: NAME, GRADATION OR PLASTICITY, PARTICLE SIZE DISTRIBUTION, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY, USCS GROUP SYMBOL	SYMBOLIC LOG	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
5	5.0				Upper 9" - SAND, poorly graded, fine sand, brown, moist to wet, loose (SP).		Hole is within 20' of abandoned natural gas line Grout 5' to surface Bentonite from 5-6'
	6.5	S-1	18	5-1-2 (3)	Lower 9" - SILT, non-plastic, 10-20% fine sand, dark gray, moist, soft (ML), fill.		Screen top at 6 1/2'
10	10.0				Upper 6" - SAND, same as S-1, maybe slough.		Some gravel - like material at 8' Driller notes water at ±8';
	11.5	S-2	18	11-13-11 (24)	Lower 12" - SILT, same as above.		15' screen 10 slot 2" schedule 40 PVC
15	15.0				SAND, poorly graded, fine sand, saturated, loose, (SP), maybe slough, possible mild odor of hydrocarbon.		Piece wood jammed into end of shoe
	16.5	S-3	6"	3-3-4 (7)			
20	20.0				SILT, low plasticity, brownish gray, moist, firm, (ML), native soil; included pieces of wire, probably dragged into sample.		Fill ±20' Native Screen bottom at 21 1/2'
	21.5	S-4	18	1-4-4 (8)			
25	25.0				SILT, same as above.		5'- 4" Sump
	26.5	S-5	12	4-4-4 (8)			Tailpiece bottom at 27'
30	30.0						Bentonite from 27-28' Gravel to 41 1/2'

REV. 11-82 FORM D-1556

SCOEPA00025459

CH2M HILL

PROJECT NUMBER	BORING NUMBER	
P19436.A2	MW-4	SHEET 2 OF 2

SOIL BORING RECORD DRAWING

PROJECT **WACKER SILTRONIC CORPORATION** LOCATION PORTLAND, OREGON

ELEVATION _____ DRILLING CONTRACTOR GEOTECH EXPLORATIONS, BEAVERTON, OREGON

DRILLING METHOD AND EQUIPMENT CME-55, 6" HS AUGERS

WATER LEVEL AND DATE _____ START _____ FINISH _____ LOGGER _____

ELEVATION / DEPTH BELOW SURFACE (FT.)	SAMPLE: INTERVAL	SAMPLE: TYPE AND NUMBER	SAMPLE: RECOVERY	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: NAME, GRADATION OR PLASTICITY, PARTICLE SIZE DISTRIBUTION, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY, USCS GROUP SYMBOL	SYMBOLIC LOG	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	31.5	S-6	18	4-5-4 (9)	SILT, low plasticity, gray with brown mottling, moist, firm (ML), includes some decomposed plant fragments.		
35	35.0						
	36.5	S-7	8	2-3-8 (11)	SANDY SILT, non-plastic, 30-50% fine sand, brown, moist, firm (ML).		Gravel to 41 1/2'
40	40.0						
	41.5	S-8	8		END MW at 41.5'		

Worst samples

None - all have clean appearance

REV. 11-82 FORM D-1555

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CH2M HILL

PROJECT NUMBER	BORING NUMBER	SHEET	OF
P19436.A2	MW-5	1	2

SOIL BORING RECORD DRAWING

PROJECT **WACKER SILTRONIC CORPORATION** LOCATION PORTLAND, OREGON

ELEVATION _____ DRILLING CONTRACTOR GEOTECH EXPLORATIONS, BEAVERTON, OREGON

DRILLING METHOD AND EQUIPMENT CME-55, 6" HS AUGERS

WATER LEVEL AND DATE _____ START _____ FINISH _____ LOGGER _____

ELEVATION / DEPTH BELOW SURFACE (FT.)	SAMPLE INTERVAL	SAMPLE TYPE AND NUMBER	SAMPLE RECOVERY	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: NAME, GRADATION OR PLASTICITY, PARTICLE SIZE DISTRIBUTION, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY, USCS GROUP SYMBOL	SYMBOLIC LOG	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
5	5.0						Grout to surface
							Top of bentonite seals = 2'
							Top of sand at 4'
							Screen top at 5'
	6.5	S-1	18	4-4-8 (12)	SAND, poorly graded, fine sands, brown and gray, some 1/2" silt lenses, moist, loose; includes some oil sheen and odor.		Dark gray sandy material in cuttings from 5'-10', noticeable oily smell and sheen
10	10.0						Driller notes water 5'-10'
	11.5	S-2	18	6-6-8 (14)	SAND, poorly graded, fine sand, dark gray, wet, loose to compact, (SP), fill, saturated with oil (split samples taken, Jar 1 and Jar 2).		
15	15.0						
	16.5	S-3	18		SAND, same as S-2, except only has oily odor and occassional sheen in soil.		
20	20.0						Screen bottom at 20'
	21.5	S-4	18	3-4-5 (9)	SAND, same as S-2, excet has mild odor of oil; silt in top.		Silt in tip of sampler, for S-4 fill ±21 Native
25	25.0						Sump bottom at 25'
	26.5	S-5	9	3-5-10 (15)	SILT, low plasticity, 10-15% fine sand, medium gray with brown, yellow and reddish mottling, slightly moist, very stiff (ML), no noticeable hydrocarbon odor.		Tailpiece bottom at 25' - 4"
30	30.0						NOTE: Driller lost steel weight for tape in hole at 30 feet, not recovered.

REV. 11-93 FORM D1586

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CH2M HILL

PROJECT NUMBER	BORING NUMBER	SHEET 2 OF 2
P19436.A2	MW-5	

SOIL BORING RECORD DRAWING

PROJECT **WACKER SILTRONIC CORPORATION** LOCATION PORTLAND, OREGON

ELEVATION _____ DRILLING CONTRACTOR GEOTECH EXPLORATIONS, BEAVERTON, OREGON

DRILLING METHOD AND EQUIPMENT CME-55, 6" HS AUGERS

WATER LEVEL AND DATE _____ START _____ FINISH _____ LOGGER _____

ELEVATION	DEPTH BELOW SURFACE (FT.)	SAMPLE: INTERVAL	SAMPLE: TYPE AND NUMBER	SAMPLE: RECOVERY	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: NAME, GRADATION OR PLASTICITY, PARTICLE SIZE DISTRIBUTION, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY, USCS GROUP SYMBOL	SYMBOLIC LOG	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	31.5	31.5	S-6	18	4-5-5 (10)	**SILT, low plasticity, about 10% fine sand, gray with brown mottling, moist, stiff (ML), no noticeable hydrocarbon odor.** **END MW at 31.5 feet.**		**Worst samples** **S-2 = worst** **S-3**

REV. 11-83 FORM D1586

SCOEPA00025462

CH2M HILL

PROJECT NUMBER	BORING NUMBER	
P19436.A2	MW-6	SHEET 1 OF 2

SOIL BORING RECORD DRAWING

PROJECT **WACKER SILTRONIC CORPORATION** LOCATION PORTLAND, OREGON

ELEVATION _____ DRILLING CONTRACTOR GEOTECH EXPLORATIONS, BEAVERTON, OREGON

DRILLING METHOD AND EQUIPMENT CME-55, 6" HS AUGERS

WATER LEVEL AND DATE _____ START _____ FINISH _____ LOGGER _____

ELEVATION	DEPTH BELOW SURFACE (FT.)	SAMPLE INTERVAL	SAMPLE TYPE AND NUMBER	SAMPLE RECOVERY	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: NAME, GRADATION OR PLASTICITY, PARTICLE SIZE DISTRIBUTION, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY, USCS GROUP SYMBOL	SYMBOLIC LOG	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
								Grout to surface
	5	5.0						
		6.5	S-1	18	3-8-11 (19)	SAND, poorly graded, fine sand, less than 10% fine, brown, moist, compact (SP), fill.		Bentonite to 6 1/2'
								Sand to 7 1/2'
								Top of screen at 9'
	10	10.0						
		11.5	S-2	18	10-10-11 (21)	Primarily sand, as in S-1, but with several 1-inch silt layers; lower 6" of sample has strong hydrocarbon odor to it.		
								Driller notes water at ±12', coincident with appearance of "oily" odor from cuttings while drilling from 10-15'
	15	15.0						
		16.5	S-3	18	1-1-2 (3)	SAND, as in S-1, except lower 6" have blackish discoloration and strong hydrocarbon odor; small oily splotches noticeable in soil.		
	20	20.0						
		21.5	S-4	18	3-3-5 (8)	Upper 6" - SAND as in S-1, have blackish discoloration and hydrocarbon odor, fill. Lower 12" - SILT, low plasticity, gray with brown mottling, firm (ML), hydrocarbon odor not noticeable.		A-rods came out of hold with unusual yellow discoloration from water at 20-25'
								Bottom of screen at 24'
	25	25.0						
		26.5	S-5	18	9-26-26 (52)	SAND, as in S-1, but dark gray with mild hydrocarbon odor, material might be heaved sands and not representative of in-situ soil at 25'.		Driller notes 4' of heave after drilling to 25'; also, chain fell in hole, but was able to recover by retracting augers from hole; Augers moved during SPT from S-5, driller says no contact with sampler; why so high of an N value?
								Sump to 29 1/2'
	30	30.0						

REV. 11-82 FORM D1586

SCOEPA00025463

CH2M HILL

PROJECT NUMBER	BORING NUMBER	
P19436.A2	MW-6	SHEET 2 OF 2

SOIL BORING RECORD DRAWING

PROJECT WACKER SILTRONIC CORPORATION LOCATION PORTLAND, OREGON

ELEVATION _____ DRILLING CONTRACTOR GEOTECH EXPLORATIONS, BEAVERTON, OREGON

DRILLING METHOD AND EQUIPMENT CME-55, 6" HS AUGERS

WATER LEVEL AND DATE _____ START _____ FINISH _____ LOGGER _____

ELEVATION	DEPTH BELOW SURFACE (FT.)	SAMPLE: INTERVAL	SAMPLE: TYPE AND NUMBER	SAMPLE: RECOVERY	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: NAME, GRADATION OR PLASTICITY, PARTICLE SIZE DISTRIBUTION, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY, USCS GROUP SYMBOL	SYMBOLIC LOG	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
		31.5	S-6	18	S-7-12 (19)	All 18" of soil in barrel is SAND, poorly graded, fine sand, less than 10% fine, medium to dark gray, wet, compact, (SP), probably heave or disturbed soil, not representative of 30' depth; mild hydrocarbon odor. 2" of soil in shoe of sampler is SANDY SILT, non-plastic, 30-50% fine sand, medium gray, wet, firm, (ML); no noticeable hydrocarbon odor, sandy silt is probably representative of in-situ soil.		Driller notes 3' of heave from 30-29' prior to sampling S-6; had to drill/wash out heave Sample choices S-3

REV. 11-82 FORM D1336

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CH2M HILL

PROJECT NUMBER	BORING NUMBER	SHEET 1 OF 2
P19436.A2	MW-7	

SOIL BORING RECORD DRAWING

PROJECT **WACKER SILTRONIC CORPORATION** LOCATION **PORTLAND, OREGON**

ELEVATION _____ DRILLING CONTRACTOR **GEOTECH EXPLORATIONS, BEAVERTON, OREGON**

DRILLING METHOD AND EQUIPMENT **CME-55, 6" HS AUGERS**

WATER LEVEL AND DATE _____ START _____ FINISH _____ LOGGER _____

ELEVATION / DEPTH BELOW SURFACE (FT.)	SAMPLE: INTERVAL	SAMPLE: TYPE AND NUMBER	SAMPLE: RECOVERY	STANDARD PENETRATION TEST RESULTS: 6"-6"-6" (N)	SOIL DESCRIPTION: NAME, GRADATION OR PLASTICITY, PARTICLE SIZE DISTRIBUTION, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY, USCS GROUP SYMBOL	SYMBOLIC LOG	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
5	5.0						Grout to surface
	6.5	S-1	12"	1-3-1 (4)	Lower 6" - SILT, low plasticity, moist, gray, soft (ML). Upper 6" - SAND, poorly graded, fine sand, brown, wet, loose, (SP), fill.		5 1/2' top of bentonite
10	10.0						Cavings around PVC 7-15'
	11.5	S-2	14	5-8-11 (18)	SAND as in upper 6" of S-1, (SP), fill.		10' of top of screen
							Driller notes water at ±12'
15	15.0						15' section 10 slot PVC wells
	16.5	S-3	18	2-1-5	SAND, same as upper 6" of S-1 (SP), fill.		During well construction, drill hole walls began squeezing in at 5' up to 7', sand was packed in auger and walls apparently squeezed in faster than sand could drop out; tried twice unsuccessfully to jet-out sand.
20	20.0						Fill ± / Native
	21.5	S-4	18	5-5-6 (11)	Upper 6" - sand as in upper 6" of S-1, (SP), fill; mild hydrocarbon odor. Lower 12" - SILT, low plasticity, medium brown with gray mottling, moist, firm, (ML); native soil.		
25	25.0						25' bottom screen
	26.5	S-5	18	4-3-4 (7)	Upper 9" - SILT, low plasticity, medium brown with gray mottling, moist, firm, (ML). Lower 9" - SAND, poorly graded, fine sand, medium gray, wet, loose, (SP), strong hydrocarbon odor, visible blotches of oil (?) in both silt and sand.		5'-4" Sump
30	30.0						Bottom of Sump = 30' Driller notes heave at 30' ±4' of heave

REV. 11-83 FORM D1556

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CH2M HILL

PROJECT NUMBER	BOR. NUMBER	
P19436.A2	MW-7	SHEET 2 OF 2

SOIL BORING RECORD DRAWING

PROJECT **WACKER SILTRONIC CORPORATION** LOCATION PORTLAND, OREGON

ELEVATION _____ DRILLING CONTRACTOR GEOTECH EXPLORATIONS, BEAVERTON, OREGON

DRILLING METHOD AND EQUIPMENT CME-55, 6" HS AUGERS

WATER LEVEL AND DATE _____ START _____ FINISH _____ LOGGER _____

ELEVATION / DEPTH BELOW SURFACE (FT.)	SAMPLE: INTERVAL	SAMPLE: TYPE AND NUMBER	SAMPLE: RECOVERY	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: NAME, GRADATION OR PLASTICITY, PARTICLE SIZE DISTRIBUTION, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY, USCS GROUP SYMBOL	SYMBOLIC LOG	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	31.5	S-6	18	2-1-2 (3)	Lower 9" - SAND, poorly graded, fine, brown, wet, soft, (SP),. Upper 9" - SAND, very fine, brown, wet, loose, (SM); All has definite hydrocarbon (?) odor, not visible in soil, however. Sample may be distrubed, heave material.		Reamed out heaved area from 26 to 30' with wash water and tricone bit to clear auger. Backfill to 32'-4"
35	35.0						
	36.5	S-7	18	3-5-5 (10)	SANDY SILT, low plasticity, 20-30% fine sand, medium brown, moist, soft, (ML); noticeable hydrocarbon (?) odor.		
40	40.0				Upper 7" - SILT, low plasticity, brown, wet, firm, (ML).		
	41.5	S-8	14"	8-11-17 (28)	Lower 7" - SILTY SAND, fine sand, about 30% fine, brown, wet, compact, (SM); both silt and sand have noticeable hydrocarbon (?) odor, no visible traces. END MW at 41.5 feet		Sample choices (Ranked from worst) *S-5 S-6 S-7 - S-8 (about the same) *amount of odor

REV. 11-83 FORM D1556

SCOEPA00025466

Engineers
Planners
Economists
Scientists

September 14, 1995

116112.CF.ZZ

Mr. Steve Beiswenger
Wacker Siltronic Corporation
P.O. Box 83180
Portland, OR 97283

Subject: Open Standpipe Piezometer Abandonment INSTALLED MARCH 1995

Purpose

The purpose of this letter is to document our September 1, 1995, observation of the abandonment of monitoring well SB-1-95 which was located at the Wacker Siltronic Corporation (WSC) facility in Portland, Oregon. The abandoned well was originally constructed as an open standpipe piezometer but was grandfathered into monitoring well status due to Oregon Department of Water Resources rule changes in July 1995.

Background

CH2M HILL was retained in 1995 to perform a geotechnical exploration for the proposed Forwarding Sump of the Central Facilities Expansion. As a portion of this exploration, two soil borings were advanced on March 18, 1995 to evaluate subsurface conditions. At the completion of boring advancement, the holes were filled with bentonite chips from the bottom of the hole to 25 feet below existing grade. An open standpipe piezometer was then constructed in each borehole to a maximum depth of 25 feet below grade for the purpose of observation of groundwater levels. The open standpipe piezometers were constructed by Geo-Tech Explorations, Inc. of Tualatin, Oregon. A site plan is attached that shows the approximate locations of the soil borings. Additionally, a copy of the actual field logs, the simplified subsurface conditions and the open standpipe piezometer construction log for boring SB-1-95 is attached.

Discussion

At the time of advancement, the soil borings were classified as geotechnical holes by Oregon Department of Water Resources regulations. The standard of practice for abandonment of a geotechnical hole at that time was to backfill the hole with bentonite chips. This procedure was performed in the lower portions of the holes between the maximum depth drilled and 25

SCOEPA00025467

feet below the existing ground surface, prior to construction of the open standpipe piezometers.

In August 1995, CH2M HILL was requested, by Wacker Siltronic Corporation, to perform site observation to allow documentation of proper abandonment of open standpipe piezometer SB-1-95. The abandonment of this open standpipe piezometer was regulated under the revised Oregon Department of Water Resources regulations for construction, maintenance and abandonment of monitoring wells and other holes (Chapter 690, Division 240) which became effective in July 1995. Under these revised regulations, the open standpipe piezometer which had been constructed in March 1995 was now classified as a monitoring well and its abandonment was subject to monitoring well regulations.

The abandonment of the now regulated groundwater monitoring well SB-1-95 as observed on September 1, 1995 was performed in accordance with these revised regulations, and is described below. Copies of pertinent sections of the applicable regulations are attached.

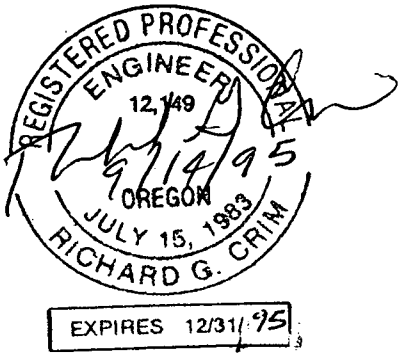
Abandonment of the monitoring well was performed by Geo-Tech Explorations, Inc., of Tualatin, Oregon using a Mobile Drill B-59 truck-mounted drill rig equipped with a hollow stem auger and a 12 inch diameter bit. Abandonment was accomplished by removing the flush mounted monitoring well case, overdrilling the monitoring well, and then sealing the borehole using course (3/4-inch minus) sodium bentonite chips. Bentonite chips were placed in the borehole through the annulus of the hollow stem auger as the auger was being removed. A metal weight attached to a tape measure was used to "sound" the placement of bentonite and insure that bridging was not occurring inside the auger and that bentonite was being placed continuously from the bottom to the top of the overdrilled hole. A total of 17, 50-pound bags of coarse bentonite chips were used to abandon the monitoring well. Bentonite was hydrated using water from the Geo-Tech Explorations drill rig.

If you have any questions or comments regarding this letter or, if we may be of further service, please do not hesitate to call me at (503) 235-5022 ext. 4496.

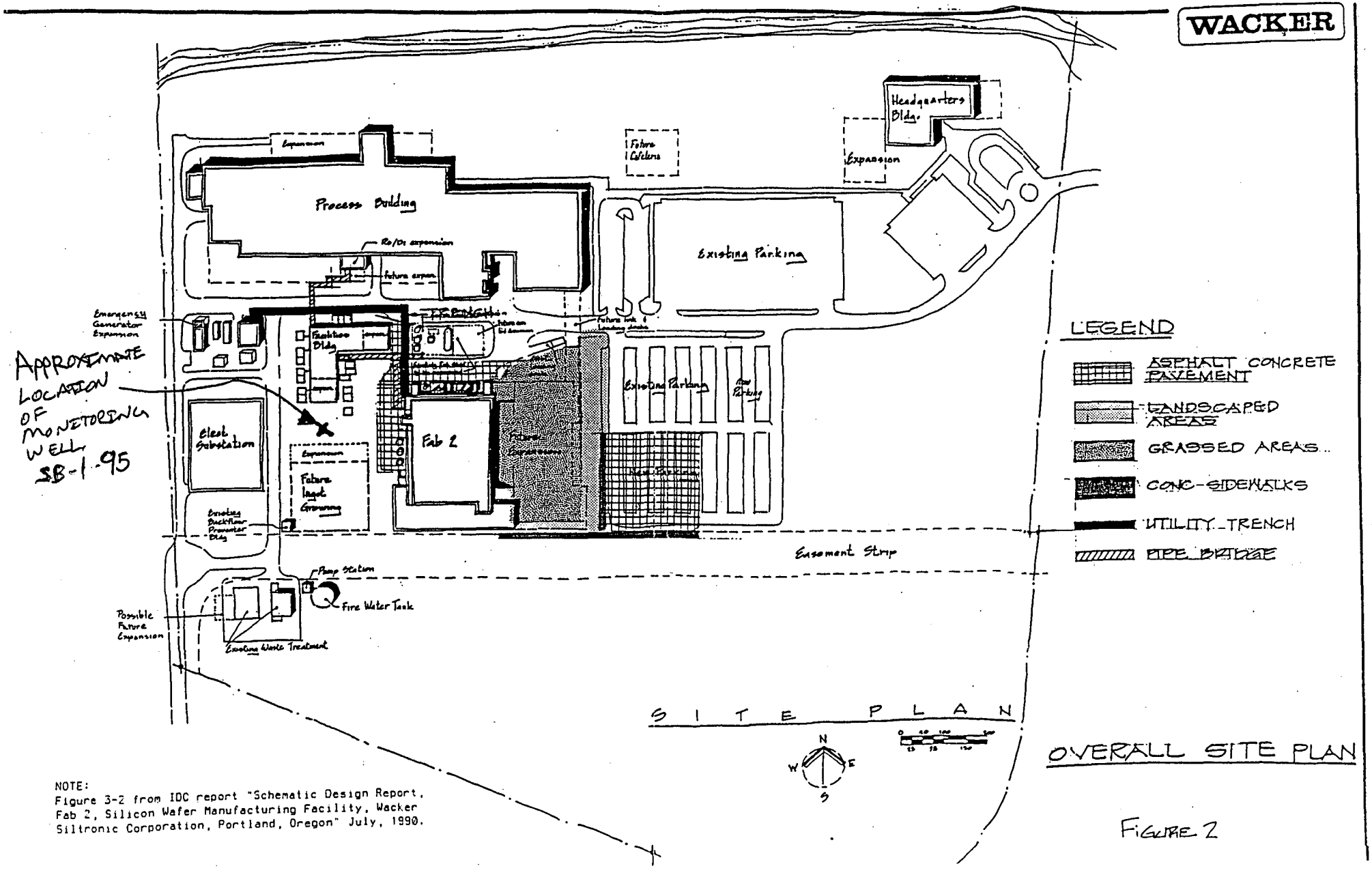
Sincerely,

CH2M HILL

Richard G. Crim, P.E.
Project Manager



c: Bill Matsukado/IDC
Chip Bloomer/WSC
Todd Cotten/CH2M HILL



NOTE:
Figure 3-2 from IDC report "Schematic Design Report, Fab 2, Silicon Wafer Manufacturing Facility, Wacker Siltronic Corporation, Portland, Oregon" July, 1990.

FIGURE 2

CH2MHILL

PROJECT NUMBER	BORING NUMBER	SHEET
OPE 39435.CF	S-B-1	1 OF 2

SOIL BORING LOG

PROJECT WACKER SILTRONIC CORP. SUMP LOCATION LOCATION 17' WEST OF WEST SUMP BOUNDARY.
ELEVATION ≈35' DRILLING CONTRACTOR GEO-TECH EXPLORATIONS, INC. ALATIN, OR
DRILLING METHOD AND EQUIPMENT MOBILE DRILL B-59 HOLOW STEM AUGER 4.25" ID 8" O.D.
WATER LEVELS ____ START 3/18/95 FINISH 3/18/95 LOGGER T. COTTEN

DEPTH BELOW SURFACE (FT)	SAMPLE INTERVAL	SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (FT)	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
						DRILLING @ 09:25 DRILLER NOTES GRAVEL TO 2'
5	5.0 6.5	1-S	1.4	2-9-12 (21)	POORLY GRADED SAND (SP) WITH TRACES OF SILT AND CLAY, BROWN TO BLACK, MOIST, MEDIUM, RELATIVELY UNIFORM SAND.	SMELLS OF DIESEL, TRACE OF OIL SHEEN. DRILLER NOTES SOFTER @ 2' OVM = 2 ppm in hole = 0 ppm in breathing zone (BZ) - SOFT PUSH 12' POORLY GRADED SAND.
10	10.0 12.0	2-ST	2.0		POORLY GRADED SAND (SP), DARK GRAY, MOIST, MEDIUM DENSE, TRACE OF SILT.	
	13.5	3-S	1.0	7-6-12 (18)	TOP 6" SAND POORLY GRADED SAND (SP) DARK GRAY, MOIST, MEDIUM, WOOD FIBERS BOTTOM SILT, (ML), DARK GRAY, MOIST SOFT,	TRACE OF SILT, NO ODOR DARK GRAY, MOIST DRILLER NOTES GRAVEL @ 13.5'
15	15.0 16.5	4-S	0	8-5-3 (8)	SILT (ML) DARK BROWN TO GRAY, MOIST TO WET, SOFT, TRACE OF GRAVEL GRAVEL AND SILT IN TIP,	HIT SOFT SOIL @ 15.6 INCHES FEET BLOW COUNT DROPPED DRAMATICALLY. WATER @ 15'
NEEDED MORE ROOM TO WORK	16.5 18.5	5-SI			SILT (ML) DARK GRAY, WET, OILY, TRACE OF GRAVEL MAY BE FROM SURFACE, ORGANICS	
15	15 16.5	4-S	0.8	PUSH	TIP - SANDY SILT WITH GRAVEL (ML) DARK BROWN, , WOOD CHIPS AND ORGANICS	TRY A RECOVER @ 15-16.5 USING 3" SPOON. PUSH SPOON. OR DRILLER NOTED ROCKS IN FIRST 6".
	16.5 18.5	5-ST	0.0		WITH SECTIONS OF POORLY GRADED SAND AND GRAVEL LARGE COBBLE (3" DIAMETER) DEBRIS - WIRE	STIFF PUSH. (VERY STIFF) PUSHED 1' OUT OF 2' BENT TUBE - TRASH IN TUBE RUBBER, ODOR
20	20.0 21.5	6-S	0	5-4-3 (7)	SMALL AMOUNT (1") OF SANDY SILT IN TIP (ML), DARK BROWN, WET, SAND COURSE ~ 10" SIEVE	- DRILLER NOTE STILL IN CRAPPY SOIL - RECOVERY MAY BE TOO
	23.5	7-ST	0		5" COBBLE AT TIP, TUBE BENT (DESTROYED) PRODUCT.	ODOR - DIESEL SLIGHT SHEEN 6" EASY - 18" VERY STIFF PUSH. OVM = 0.3 ppm in BZ
25						DRILLER NOTES - LITTLE SOFTER AT 24.5'

SCOEPA00025470

PROJECT NUMBER	BORING NUMBER	SHEET	OF
OPE 39435.CF	S-B-1	2	2

SOIL BORING LOG

PROJECT WACKER SILTRONIC CORP. LOCATION ≈10' WEST OF SUMP LOCATION BOUNDA

ELEVATION ≈35 DRILLING CONTRACTOR GEO-TECH EXPLORATIONS, TUALATIN, OR

DRILLING METHOD AND EQUIPMENT MOBILE DRILL B-59, 4.25" I.D. 8.0" O.D. HOLLOW STEM AUGER

WATER LEVELS _____ START 3/18/95 FINISH 3/18/95 LOGGER T. COTTEN

DEPTH BELOW SURFACE (FT)	SAMPLE INTERVAL	SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (FT)	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	26.5	S-5	1.1	1-2-3 (5)	SILT (ML), ~~OH~~ TO ~~CLAY~~ ELASTIC SILT (MH) DARK GRAY, MOIST, WOOD CHIP IN TIP, PRODUCT AT TIP.	DIESEL CONTAMINATION IN WATER at 24' HEAVY CONTAMINATION. OVM = 0.3 PPM IN BZ 1.2 PPM IN BH. PP = 0.95 TSF TV = 0.15 Kg/cm²
	28.5	9-ST	2.0		CLAYEY SILT (MH), GREEN GRAY, SL. MOIST, FIRM,	DRILLER NOTES IS' FIRM, LAYERS SOFT. PULLED UP LOTS OF PRODUCT.
30	30.0					OVM = 0.1 PPM BZ
	32.0	10-ST	2.0		SILT (MH) WITH TRACES OF CLAY, GRAY TO GREEN, MOIST, SOFT,	DRILLER NOTES SOFT PUSH LESS CLAY THAN 26.5'-28.5'
	33.5	11-S	1.5	2-2-4 (6)	SILT (ML) BROWN TO BROWN-GREEN, SL. MOIST, FIRM, LESS CLAY THAN ABOVE.	NO OVM = 0. PP = 1.5 TSF TV = 0.2 Kg/cm² NO VISIBLE CONTAMINATION IN SILT OVM = 0.0
35						
						OVM = 15 IN BH. 0.0 IN BZ.
40	40.0					SOFT PUSH
	42.0	12-ST	2.0	PUSH		PP = 0.75 TSF TV = 0.2 Kg/cm²
	43.5	13-S	1.5	2-1-2 (3)	SILT (ML), GRAY, MOIST, SOFT, PLANT ROOTS THRO-OUT SMALL WHITE SPECKS IN SILT.	PP = 0.75 TSF TV 0.25 Kg/cm2
45	45.0					
	46.5	14-S	1.5	2-2-2 (4)	SILT (ML) TRACE OF SAND, GRAY, MOIST, SOFT,	PP = 1.5 TV - NO READING,
						END OF BORE HOLE @ 46.5' 12:10. HOLE PLUG UP TO 25' 7 BAGS.
						13:30 - TAGGED WATER @ 8' DRILLER NOTES HOLE OPEN ONLY TO 15'
						WATER TAGGED @ 10.3' 3/19/95 08:35

SCOEPA00025471

CH2MHILL

PROJECT NUMBER	BORING NUMBER	SHEET	OF
OPE 39435.CF	S-B-1	1	2

SOIL BORING LOG WELL CONSTRUCTION

PROJECT WACKER SILTRONIC CORP. LOCATION 17' WEST OF WEST SUMP PILE BOUNDARY.

ELEVATION ≈35' DRILLING CONTRACTOR GEO-TECH EXP. TUALATIN, OR

DRILLING METHOD AND EQUIPMENT MOBILE DRILL B-59 8.25" ID 12" O.D HOLLOW STEM AUGER.

WATER LEVELS _____ START 3/18/95 FINISH _____ LOGGER T. COTTEN.

DEPTH BELOW SURFACE (FT)	SAMPLE: INTERVAL	SAMPLE: NUMBER AND TYPE	SAMPLE: RECOVERY (FT)	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
5						13:35, START DRILLING USING 8.25" I.D. 12" O.D. AUGER. DRILL DOWN TO 25' DRILLER NOTES UPPER 5' AS LOOSE MATERIALS. 5'-10' DRILLER STILL NOTES LOOSE DRILLING
10						11' DRILLER NOTES PIECE OF TRASH. AT 12' - GETTING INTO "CRAP"
15						13' - RIG CHATTERING 14' - HARD → CHATTER. ↳ OVM OF CUTTINGS = 300 PPM. 16.5, 17 ROCKS - CHATTER BROKE OUT OF ROCKS @ 17.5 EASIER FROM 17.5-20'
20						20.5' - ~~PIECE OF~~ HARD. DRILLER NOTED ALMOST SOUNDED LIKE CONCRETE. DRILLER NOTED FAIRLY SMOOTH FROM 22-25 EXCEPT FOR MAYBE A FEW PIECES OF GRAVEL. AT 24-25
25						LIQUID WITH PRODUCT CAME UP FROM 12' TO 25' AROUND AUGER.

SCOEPA00025472

CH2M HILL

PROJECT NUMBER	BORING NUMBER S-B-1 SHEET 2 OF 2

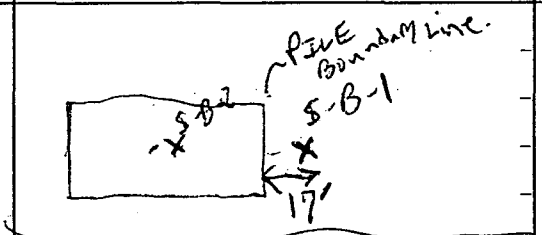
SOIL BORING LOG WELL CONSTRUCTION

PROJECT WACKER SILTRONIC. CORP LOCATION 17' WEST OF W. SUMP PILE BOUNDARY

ELEVATION ≈ 35' DRILLING CONTRACTOR GEOTECH EXPLORATIONS, TUALATIN, OR

DRILLING METHOD AND EQUIPMENT MOBILE DRILL B-59, 8.25" ID 12" O.D. HOLLOW STEM AUGER.

WATER LEVELS _____ START 3/18/95 FINISH _____ LOGGER T. COTTEN

DEPTH BELOW SURFACE (FT)	SAMPLE: INTERVAL	SAMPLE: NUMBER AND TYPE	SAMPLE: RECOVERY (FT)	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
						BUSTED PLUG OUT @ 14:15. @ 25' DRILLER CONCERNED WITH HEAVE INTO HOLE. DRILLER NOTED HEAVE OF 2' 14.45 WATER/LIQUID @ 16'2"
					Well: 2 FT TRAP, SOLID 10' Screen 10 SLOT 23'-13' (Bottom 2' of well-TRAP are in heave material.)	
					* DICK, RICK, DEAN, ANDREA, TODD: SHOULD COME TO SITE TO SEE ~~ENSI~~ PILE DRIVING. D. Crum	DRILLER NOTES AS PULLING AUGER GETTING MORE HEAVE. = 1' HEAVE ADDING WATER. AT 15:10. 6" of heave dropped back down, - therefore only 6" of Screen in heave material. ≈ 1'/bag of sand 8 bags Sand → Sand level @ 17' SAND TO 11'. 16 BAGS SAND. BENTONITE DRIDGED TOWARD TOP. MAY HAVE HAD CAVE MATERIAL 5 BAGS BENTONITE Pulled off Hole @ 15:45

(8.30)

SET MONUMENT REV 11/89 FORM D1586

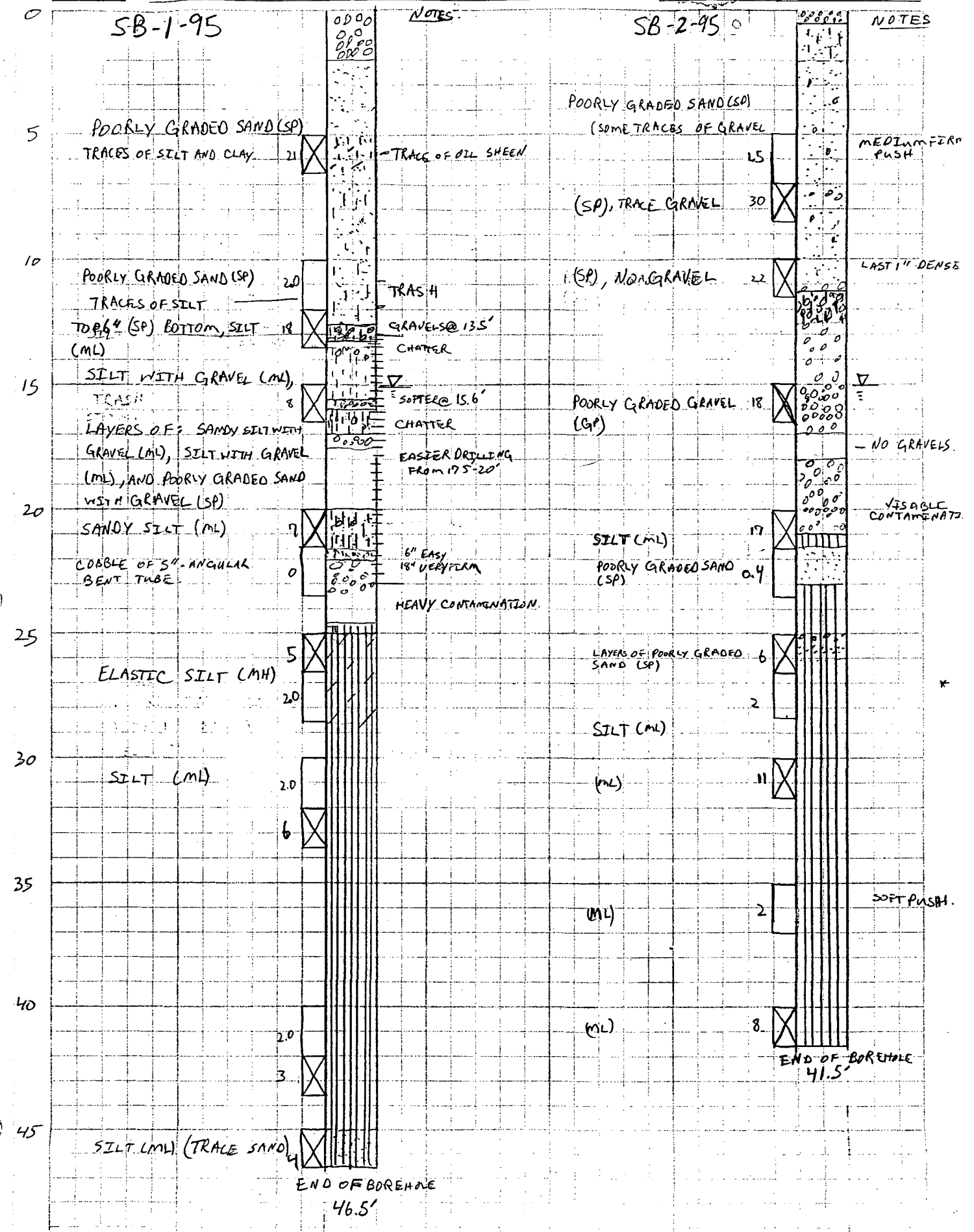
SCOEPA00025473

CH2M HILL

SUBJECT WACKER SILICONE CORP. BY T. COTTEN

SUMP BORE LOGS. SHEET NO. ___ of ___ DATE 3/18/95

PROJECT NO. POPE 9435.CF



REV 9/93 FORM 18

SCOEPA00025474

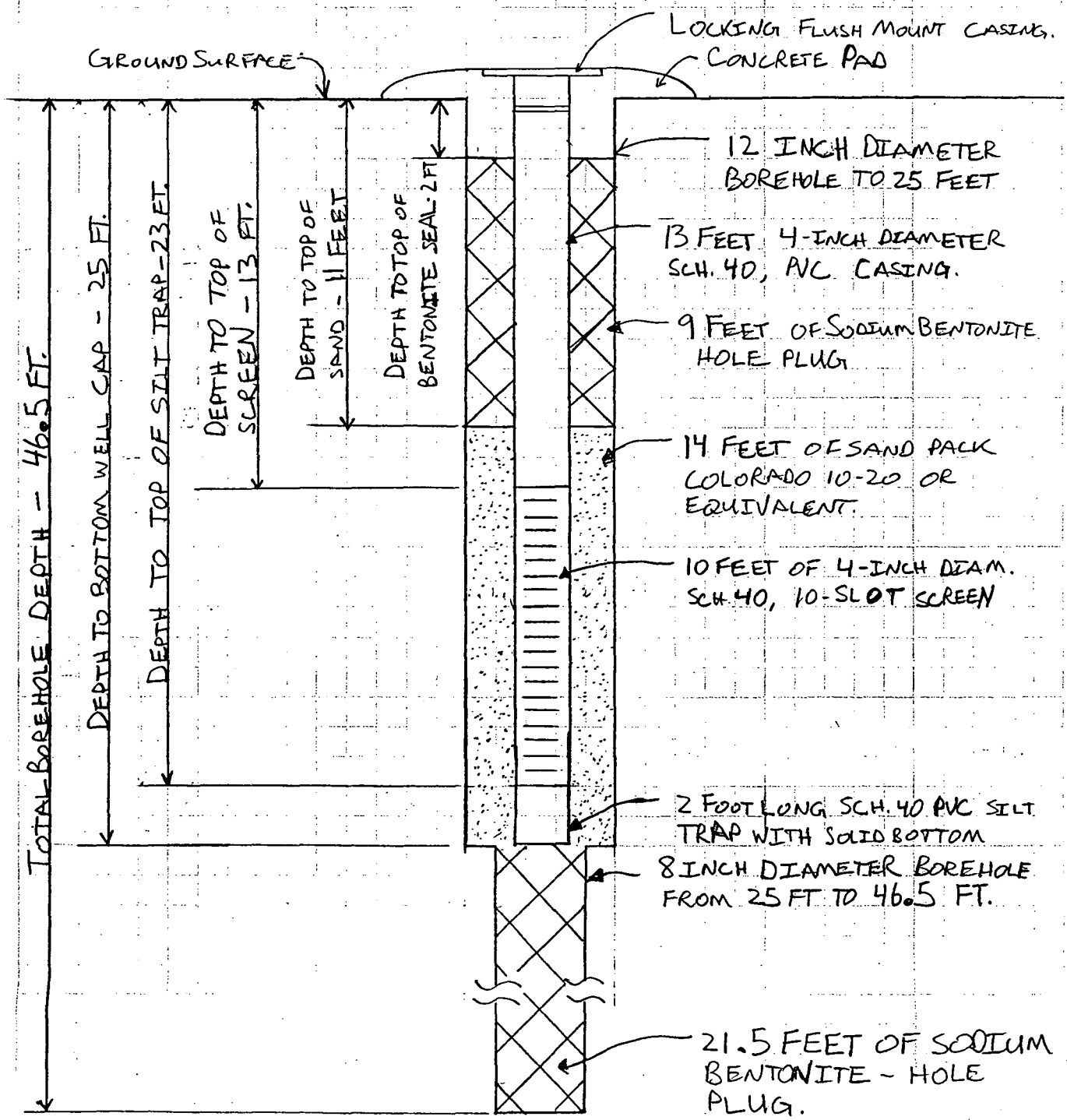
SUBJECT WACKER SILTRONIC, CORP. BY T.E. COTTEN
WELL CONSTRUCTION DIAGRAM SHEET NO. 1 of 1 DATE
PROJECT NO.

PROJECT NAME: WSC FORWARDING SUMP. WELL NUMBER: SB-1-95

PROJECT NO.: OPE39435.CF.ZZ INSTALLATION DATES: 3/18, 3/19 1995

OBSERVED BY: TODD COTTEN SITE LOCATION: ~20 FT WEST OF SUMP

DRILLING CONTRACTOR: GEOTECH EXPLORATIONS, INC., TUALATIN, OR.



REV 9/93: FORM 18

Todd Lo
T

ADMINISTRATIVE RULES FOR CONSTRUCTION, MAINTENANCE AND ABANDONMENT OF MONITORING WELLS AND OTHER HOLES IN OREGON

CHAPTER 690, DIVISION 240

JULY 1995

person who gives bid and performs ~~to~~ work must be bonded and licensed.

OREGON WATER RESOURCES DEPARTMENT
SALEM, OREGON

Juno Trump ext. 244
503-378-3739.
Chris Bird ~~X~~ 218
1-800-624-3199 TRACY - 226

(g) Type and amount of sealant used and measured weight of the grout slurry as required in OAR 690-240-130(1)(g);

(h) A map showing location of the monitoring well on site must be attached and shall include an approximate scale and north arrow;

(i) Such additional information as required by the department.

(6) The well abandonment shall be recorded and reported to the Department within thirty days of abandonment.

(7) When abandoning artesian monitoring wells, in addition to sections (1) - (6) of this rule, the flow shall be confined or restricted by cement grout applied under pressure, or by the use of a suitable well packer, or a plug placed at the bottom of the confining formation immediately above the artesian waterbearing zone. An approved sealant shall be used to fill the well to land surface as specified in OAR 690-240-130.

(8) Monitoring wells that were constructed under special standards will require the abandonment method to be approved by the Department.

Stat. Auth.: ORS 536.090 & 537.505 - 537.795
Hist.: WRD 14-1990, f. & cert. ef. 8-9-90; WRD 8-1993, f. 12-14-93, cert. ef. 1-1-94

Piezometers

690-240-137 (1) If a piezometer is constructed in an area of known or reasonably suspected contamination or if the purpose of the investigation is to assess water quality conditions, it shall be constructed to meet current monitoring well rules.
NOTE: The Water Resources Department and the Department of Environmental Quality have information sources to use in determining if contaminants are present. Customary drilling practice as conducted by licensed professional must be included as part of the appropriate inquiry to determine if contaminants are present or reasonably suspected.

(2) Piezometers shall be constructed to meet current monitoring well rules except for the following:

(a) Borehole size with depth requirements.

(I) For piezometers with a sealing depth less than 50 feet deep, the borehole diameter shall be at least two and one half inches (2.5") larger than the nominal casing diameter. If the piezometer is constructed using a hollow stem auger drilling machine, the inside diameter of the auger must be at least 2.5 inches larger than the nominal diameter of the casing to be installed.

(II) For piezometers with a sealing depth greater than 50 feet deep, the borehole diameter shall be at least three inches larger than the nominal casing diameter. If the piezometer is constructed using a hollow stem auger drilling machine, the inside diameter of the auger must be at least 3 inches larger than the nominal diameter of the casing to be installed.

(b) Surface Completion.

(I) If the piezometer is completed above ground, it shall have a minimum casing height of one foot above finished grade and a lockable cap shall be attached to the top of the casing. If vulnerable to damage, the piezometer shall be protected as described in OAR 690-240-110.

SCOEPA00025477

(C) Use of other protective measures as approved by the Water Resources Department.

Stat. Auth.: ORS 536.090 & 537.505 - 537.795
Hist.: WRD 14-1990, f. & cert. ef. 8-9-90; WRD 8-1993, f. 12-14-93, cert. ef. 1-1-94

Abandonment of Monitoring Wells

690-240-135 Proper abandonment of monitoring wells will prevent both vertical movement of water within the well bore and infiltration of surface water into the well:

(1) In areas where groundwater contamination has been identified, abandonment shall require the borehole to be completely redrilled to a minimum of the original diameter. All casing, screen, annular sealing material, drill cuttings, debris, and filter pack material shall be removed prior to sealing.

(2) In areas where groundwater contamination has not been identified, if it can be verified that the monitoring well was constructed in accordance with these rules, it shall be abandoned by filling the well from the bottom up with an approved sealant as described in OAR 690-240-130. The casing shall then be removed below grade, as compatible with local land use. The following are acceptable methods of original well construction verification:

(a) A well report in accordance with OAR 690-240-095;

(b) Well construction information submitted to the Oregon Department of Environmental Quality;

(c) Information obtained through down-hole geophysical logging; or

(d) Other information as approved by the Water Resources Department.

(3) In areas where groundwater contamination is not present, if the monitoring well construction cannot be verified by means listed in section (2) of this rule, the well shall be abandoned according to section (1) of this rule.

(4) Grout slurries shall be placed from the bottom up by a tremie tube to avoid segregation or dilution of the sealant. The discharge end of the tremie tube shall be submerged in the grout to avoid breaking the seal while filling the annular space. Grout slurries used to abandon monitoring wells shall conform to the requirements of OAR 690-240-130.

(5) The abandonment procedure shall be recorded on a form provided by or previously approved in writing by the Department. The form shall include, as a minimum, the following:

(a) Owner/Project name (as appropriate);

(b) Started/Completed date;

(c) Location of well by county, township, range, section and 1/4, 1/4 section and either tax lot or street address. If a global positioning system is used, the information must be converted to township, range, section and 1/4, 1/4 section and the latitude and longitude measurements included;

(d) Start card number (Well identification number);

(e) Type of work;

(f) Method of abandonment;

SCOEPA00025478

(d) In a dry sealing interval, bentonite shall be installed in individual lifts with a maximum thickness of two feet. Hydrate the dry bentonite in each lift with potable water to ensure activation.

(3) The estimated and actual volume of sealing material used shall be calculated and reported to the Department.

[**Publications:** The publication(s) referred to or incorporated by reference in this rule are available from the Water Resources Department.]

Stat. Auth.: ORS 536.090 & 537.505 - 537.795
Hist.: WRD 14-1990, f. & cert. ef. 8-9-90; WRD 8-1993, f. 12-14-93, cert. ef. 1-1-94

Monitoring Well Development

690-240-131 (1) The monitoring well development shall not affect the integrity of the casing or seal. Monitoring well development shall not occur prior to 24 hours after annular seal placement if cement grout or a bentonite grout slurry is used, or 12 hours after annular seal placement if dry bentonite is used.

(2) The monitoring well development should:

(a) Remove any water or drilling fluid introduced into the well during drilling;

(b) Stabilize the filter pack and formation materials opposite the well screen;

(c) Minimize the amount of fine-grained sediment entering the well; and

(d) Maximize well efficiency.

(3) As long as the well is not altered, the monitoring well development may be performed by other than a licensed and bonded monitoring well contractor.

Stat. Auth.: ORS 536.090 & 537.505 - 537.795
Hist.: WRD8-1993, f. 12-14-93, cert. ef. 1-1-94

Completion of Monitoring Wells

690-240-132 (1) A monitoring well constructor shall not remove the drilling machine from a monitoring well site, unless it is immediately replaced by another monitoring well drilling machine in operating condition, prior to completion or abandonment of the well in compliance with administrative rules OAR 690-240-005 through 690-240-140 and installation of a watertight seal, or threaded or welded cap on the well.

(2) Installation of the protective metal posts does not require a monitoring well constructor's license, providing the surface seal is not disturbed.

(3) Installation of the protective posts described in OAR 690-240-110 shall be completed within one week of placement of the seal.

(4) If installation of the protective measures as described in OAR 690-240-110 are not completed within 24 hours of seal placement, the monitoring well shall be marked using one of the following methods:

(a) Placement of three stakes around the well connected with fluorescent survey tape;

(b) Placement of construction barricades around the well; or

SCOEPA00025479

(a) Neat cement used for grouting shall be American Petroleum Institute Class A or B, or ASTM C-150 Type I or II neat cement with no additives, mixed in the proportion of 5.2 gallons of water per standard 94 pound sack and having a mud weight of approximately 15.6 pounds per gallon;

(b) Bentonite used as a slurry for grouting shall be a high solids granular sodium bentonite mixed according to the manufacturer's directions, having a minimum mud weight of at least 9.5 pounds per gallon, and containing at least 20 percent solids. Mixing methods should be used which prevent the slurry from being excessively lumpy;

(c) When a mixture of cement and bentonite is used as a slurry for grouting, the cement shall be American Petroleum Institute Class A or B, or ASTM C-150 Type I or II neat cement. The slurry shall be no more than five percent, by dry weight of cement, sodium bentonite gel powder (3.75 pounds of bentonite per sack of cement). For each pound of bentonite added, up to an additional 0.7 gallons of water shall be added to the original neat cement mix. The water and bentonite shall be mixed first, and the cement added to the bentonite slurry. The cement-bentonite mixture shall have a mud weight of approximately 14.1 pounds per gallon;

(d) Prior to placing grout in the annular space, the grout slurry weight shall be measured by ASTM Test Method D-4380-84. Grout slurry shall not be placed in the annular space until the grout slurry weight is within ten percent of the weight specified in subsection (1)(a), (b) or (c) of this rule;

(e) Grout slurries shall be placed from the bottom of the annular space upward in such a manner as to completely fill the sealing interval. Grout slurries shall begin at the top of the filter pack seal overlying the filter pack and extend to the bottom of the surface seal. If the grout slurry is intended to serve as the surface seal, it shall extend to land surface;

(f) Grout slurries shall be placed through a side discharge tremie pipe by gravity flow or by pumping to ensure positive placement without bridging or wash-out of previously placed annular materials. The discharge end of the tremie pipe shall remain submerged in the grout throughout the sealing operation;

(g) Prior to discontinuing placement of grout in the annular space, grout slurry returns from the annular space shall be measured by ASTM Test Method D-4380-84. Placement of grout slurry in the annular space shall continue until the returns are within ten percent of the weight specified in subsection (1)(a), (b) or (c) of this rule.

(2) Bentonite used in an unhydrated form shall be sodium bentonite granules, pellets or chips. The following procedures shall be followed if dry bentonite will be used for sealing:

(a) Dry, poured bentonite seals shall only be used if the depth to the bottom of the seal is less than fifty feet and the standing water column in the bore hole or annular space is less than twenty-five feet deep at the time of seal placement. Only sodium bentonite chips or pellets shall be used below the water level in the sealing interval;

(b) Pour rate shall be three minutes or slower per 50 pound sack in the water-filled portion of the annulus;

(c) A sounding or tamping tool shall be run in the bore hole or annular space during pouring to measure fill-up rate and to break up possible bridges or cake formation;

SCOEPA00025480

Repealed by WRD 8-1993,
f. 12-14-93, cert. ef. 1-1-94]

Monitoring Well Screen and Filter Pack

690-240-126 (1) The screen and filter pack, when properly designed and installed, allows a water quality sample to be collected that is representative of water in the formation.

(2) The well screen shall:

(a) Be commercially fabricated and constructed of material that is not knowingly readily reactive with the subsurface environment;

(b) Have a collapse strength great enough to withstand the pressures exerted during construction and development of the monitoring well;

(c) Be in new or like new condition, being free of pits or breaks;

(d) Be cleaned using methods outlined in OAR 690-240-120(3); and

(e) Be centered in the borehole.

(3) The use of lead packers with the screen sections is prohibited.

(4) A bottom cap or end plug shall be attached to each well casing.

(5) The filter pack shall:

(a) Consist of clean, chemically inert, well rounded material;

(b) Not extend more than three feet above the top or one foot below the bottom of the well screen; and

(c) Be placed in such a manner as to ensure placement opposite the well screen without bridging or size segregation.

(6) The filter pack seal shall consist of:

(a) A two foot thick layer of fine grained sand above the filter pack if a grout or grout slurry is used; and/or

(b) A minimum of a three foot thick layer of dry bentonite. If a grout slurry is to be used as the annular seal, the bentonite shall be adequately hydrated prior to placement of the annular seal to prevent grout infiltration into the filter pack.

Stat. Auth.: ORS 536.090 & 537.505 - 537.795
Hist.: WRD 8-1993, f. 12-14-93, cert. ef. 1-1-94

Well Seals

690-240-130 Proper seal placement is essential to minimize the potential for movement of water and contaminants from the surface, or other waterbearing zones, into the monitoring well. Appropriate sealing materials may vary depending on the site characteristics and the substances being monitored. Well seals shall consist of a physically and chemically stable hydrated grout slurry composed of either neat cement, sodium bentonite, or a cement-bentonite mixture containing no more than five percent bentonite by dry weight; or of sodium bentonite granules, pellets or chips placed in an unhydrated state, and subsequently hydrated downhole:

(1) Grout slurries shall be mixed in the proper proportions and placed in the bore hole in such a manner as to prevent excessive shrinkage, water loss, chemical breakdown, bridging or invasion into the filter pack. The following procedures shall be utilized if a grout slurry is to be the sealing material:

SCOEPA00025481

(2) "Artesian Monitoring Well" means a monitoring well in which groundwater is under sufficient pressure to rise above the level at which it was first encountered, whether or not the water flows at land surface. If the water level stands above land surface the well is a flowing artesian monitoring well.

(3) "Contamination" means any chemical, ion, radionuclide, synthetic organic compound, micro-organism, waste or other substance that does not occur naturally in groundwater or that occurs naturally but at a lower concentration.

(4) "Excavation" means a free-standing cavity with greater width than depth constructed in the earth's surface, with other than well drilling machines, which has a primary purpose other than water quality monitoring.

(5) "Geotechnical hole" means a hole greater than 10 feet in depth constructed to collect or evaluate subsurface data or information, or to stabilize or dewater landslide features. Geotechnical holes are not monitoring wells as defined in (8) below. Various classes and examples of geotechnical holes are listed in 690-240-035 (5-8).

(6) "Horizontal Well" means a well that intentionally deviates more than 20 degrees from true vertical.

(7) "Known or reasonably suspected contamination" means a site that is currently under investigation by the Oregon Department of Environmental Quality, US Environmental Protection Agency, or other state or federal agency for the presence of contaminants or a site where a prudent person would suspect contamination after conducting an appropriate inquiry consistent with good commercial or customary practice as to the nature of the property.

(8) "Monitoring Well" means any cased excavation or cased opening in the ground for determining the physical (including water level), chemical, biological, or radiological properties of ground water.

(9) "Monitoring Well Drilling Machine" means any driving, jetting, percussion, rotary, boring, auguring, or other equipment used in the construction, alteration, or abandonment of monitoring wells.

(10) "Other Hole" means a hole other than a water supply well, monitoring well, or geotechnical hole, however constructed, in naturally occurring or artificially emplaced earth materials through which groundwater can become contaminated. Holes constructed under ORS Chapters 517, 520, and 522 are not subject to these rules. Examples of other holes are listed in 690-240-030.

(11) "Piezometer" means a type of monitoring well designed to obtain groundwater levels in areas other than those of known or reasonably suspected contamination. This term is synonymous with observation well.

(12) "Professional" means any person licensed or registered by the State of Oregon to construct monitoring wells, water supply wells, or practice geology or civil engineering.

(13) "Responsible Party" means the person or agency that is in charge of construction or the landowner of record and is either in violation as specified in a notice of violation or who may benefit from that violation.

(14) "Remediation Well" means a well used for extracting contaminants. This term is synonymous with "extraction well".

SCOEPA00025482

September 18, 1995

116112.CF.ZZ

Mr. Steve Beiswenger
Wacker Siltronic Corporation
P.O. Box 83180
Portland, OR 97283

Subject: Open Standpipe Piezometer Abandonment (SB-2-95)

Purpose

The purpose of this letter is to document our understanding of the procedures used for abandonment of monitoring well SB-2-95 which was located at the Wacker Siltronic Corporation (WSC) facility in Portland, Oregon.

Background

CH2M HILL was retained in 1995 to perform a geotechnical exploration for the proposed Forwarding Sump of the Central Facilities Expansion. As a portion of this exploration, two soil borings were advanced on March 18, 1995 to evaluate subsurface conditions. At the completion of boring advancement, the holes were filled with bentonite chips from the bottom of the hole to 25 feet below existing grade. An open standpipe piezometer was then constructed in each borehole to a maximum depth of 25 feet below grade for the purpose of observation of groundwater levels. The open standpipe piezometers were constructed by Geo-Tech Explorations, Inc. of Tualatin, Oregon. A site plan is attached that shows the approximate locations of the soil borings. Additionally, a copy of the actual field logs, the simplified subsurface conditions and the open standpipe piezometer construction log for boring SB-2-95 is attached.

Discussion

At the time of advancement, the soil borings were classified as geotechnical holes by Oregon Department of Water Resources regulations. The standard of practice for abandonment of a geotechnical hole at that time was to backfill the hole with bentonite chips. This procedure was performed in the lower portions of the holes between the maximum depth drilled and 25 feet below the existing ground surface, prior to construction of the open standpipe piezometers.

RECEIVED
OCT 04 1994
WACKER SILTRONIC
Environmental Health & Safety

CABLE HUSTON BENEDICT
HAAGENSEN & FERRIS
ATTORNEYS AT LAW
SUITE 2000
1001 S.W. FIFTH AVENUE
PORTLAND, OREGON 97204-1136
TELEPHONE (503) 224-3092
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566 N.W. VAN BUREN
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TELEPHONE (503) 754-7477
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SEATTLE OFFICE
3080 WASHINGTON MUTUAL TOWER
1201 THIRD AVENUE
SEATTLE, WA 98101
TELEPHONE (206) 654-4160
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JAMES E. BENEDICT

September 30, 1994

Mr. Tom McCue
Engineer Manager
Environmental Department
Wacker Siltronic Corp.
P.O. Box 83180
Portland, Oregon 83180

Re: **Access for Groundwater Level Measurement**

Dear Mr. McCue:

As part of a continuing investigation of its property, under the direction of the Department of Environmental Quality, Rhône-Poulenc AG Company will begin a groundwater monitoring program this fall. The program will include measuring the groundwater level in select monitoring wells on Rhône-Poulenc's property and also on certain nearby properties. Monthly groundwater level measurements are planned for a period of 12 consecutive months. The groundwater level monitoring program is presently anticipated to commence in November 1994.

Rhône-Poulenc would like to include three of the monitoring wells on the Wacker Siltronic property in the groundwater level monitoring program. The wells of interest are located on the southern portion of the Wacker site,, and have been designated MW-3 (s), MW-3(i), and MW-7. I understand two of these wells were installed by CH2M Hill in 1985 and one was installed by Geraghty & Miller in 1990 [MW-3(i)]. The location and identification of the wells of interest are shown on the attached map.

The purpose of this letter is to request from Wacker access to the wells identified above for obtaining water level measurements. The measurements will be made by Rhône-Poulenc's consultant, Woodward-Clyde Consultants. Woodward-Clyde will coordinate scheduling the specific date and time of the measurement with your designated representative. Your representative is welcome to observe field activity if they desire. Rhône-Poulenc will provide the water level measurement data to you, if requested, as soon as it is available.

Printed on recycled paper.

I will follow this letter with a phone call in the next several days to determine what arrangements are necessary to obtain the access from your company. As a preliminary activity, Woodward-Clyde would like to conduct a brief site visit to inspect each of the wells to confirm suitability for groundwater level monitoring. Woodward-Clyde would like to conduct this reconnaissance activity during the week of October 10, 1994.

I look forward to discussing this with you further.

Very truly yours,

James E. Benedict

JEB/kma
Enclosure
cc: R.L. Ferguson, Rhône-Poulenc
Roger Gresh, Woodward-Clyde

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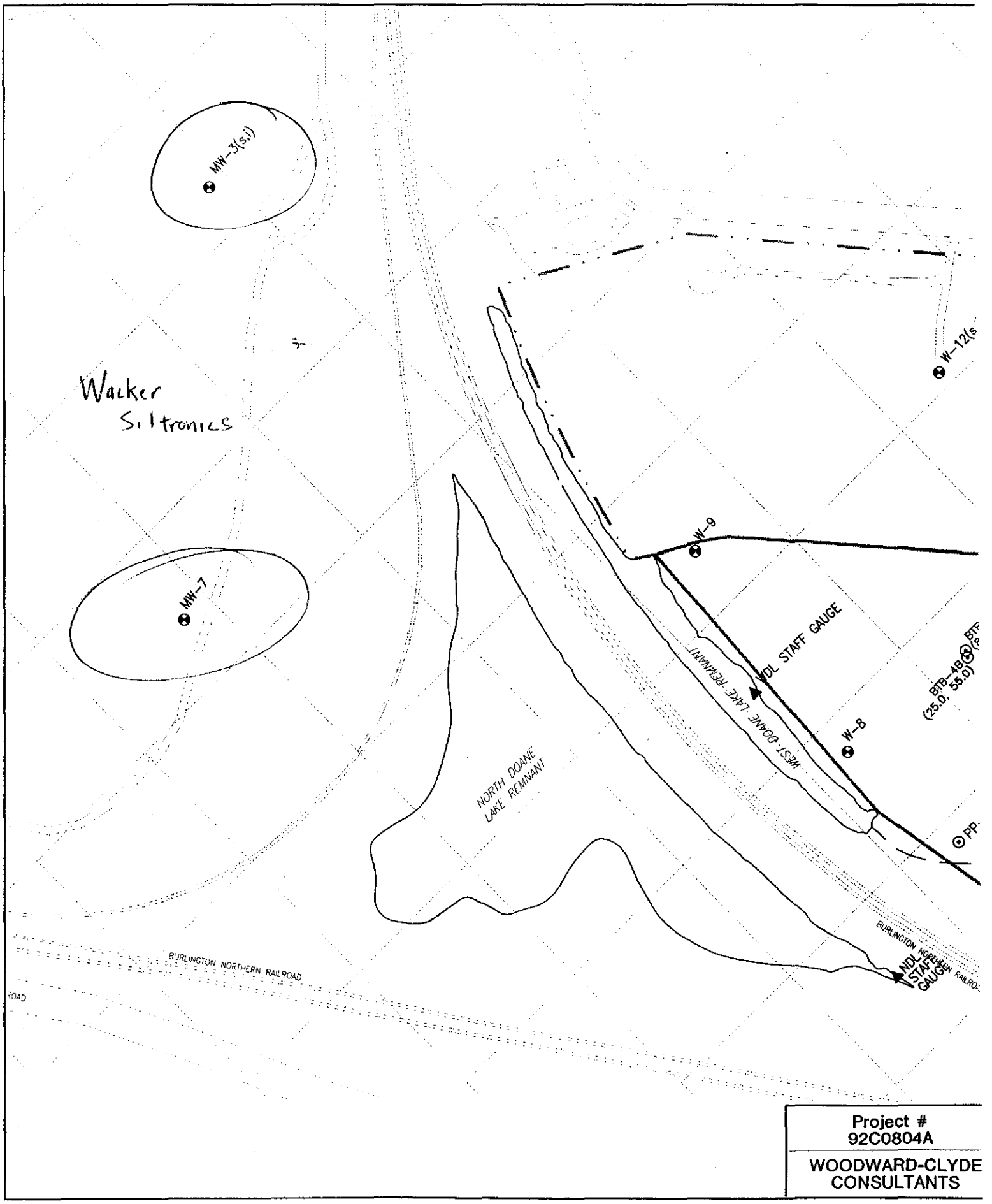

Project # 92C0804A
WOODWARD-CLYDE CONSULTANTS

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TELEPHONE (206) 654-4160
FAX (206) 654-4161

TELEFAX COVER LETTER

Date: October 6, 1995 Time: 10:45am

Please deliver the following 1 page(s), plus this cover sheet, to:

Name: Tom McCue

Company: Wacker Siltronic Corp.

Telefax No.: 241-7699

From: Jim Benedict

Original to follow in mail: Yes __ No X

If transmission is incomplete, please call Kathy at (503) 224-3092.

CABLE, HUSTON, BENEDICT & HAAGENSEN
Telefax Model: Canon FAX-770
(Automatic Day and Night)

(THIS SPACE TO BE USED FOR SUPPLEMENTAL MESSAGES)

Tom:

Attached is the well log for MW-3S that shows it is a screened monitoring well. I will send it by mail also because the fax may not be legible.

Jim

NOTICE: This message is intended only for the use of the individual or entity to which it is addressed, and may contain information that is privileged and confidential. If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering the message to the intended recipient, you are hereby notified not to read the communication and that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone (collect, if necessary), and return the original message to us at the above address via the U.S. Postal Service.

CH2M HILL

PROJECT NUMBER P19436.A2 | BORING NO. MW-3 | SHEET 1 OF 2

SOIL BORING RECORD DRAWING

PROJECT WACKER SILTRONIC CORPORATION LOCATION PORTLAND, OREGON

ELEVATION _____ DRILLING CONTRACTOR GEOTECH EXPLORATIONS, BEAVERTON, OREGON

DRILLING METHOD AND EQUIPMENT CME-55, 6" HS AUGERS

WATER LEVEL AND DATE _____ START _____ FINISH _____ LOGGER _____

ELEVATION (FT)	DEPTH BELOW SURFACE (FT)	SAMPLE INTERVAL	SAMPLE TYPE AND NUMBER	SAMPLE RECOVERY	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: NAME, GRADATION OR PLASTICITY, PARTICLE SIZE DISTRIBUTION, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY, USCS GROUP SYMBOL	SYMBOLIC LOG	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
	0	0.0						Silty topsoil, then sandy cuttings to 5'
								Grout to surface
5		5.0				SAND, poorly graded, fine sand, ~15% fines, trace interlayers of silt, medium dense, dry, light brown, (SP), fill.		
		6.5	S-1	18	7-8-8 (8)			Cuttings change to dark gray silt at ±7'
								7" top of bentonite soil
								Top of sand pack 8 1/2'
10		10.0				Interbedded silt and sand, sand same as above (SP), except gray, SILT, low plasticity, 10-15% sand, odor, light gray, moist, firm (ML), fill.		
		11.5	S-2	18	3-3-7 (9)			Screen top 12'
15		15.0				SAND, poorly graded, same as S-1, except strong hydrocarbon odor (SP), fill.		Driller notes H_2S at ±15'
		16.5	S-3	18	7-8-10 (14)			First notice hydrocarbon odor in cutting at 15'
20		20.0				Interbedded silt and sand, same as S-2, except includes partially decomposed wood fragments and mild to strong hydrocarbon odor, wet, gray, fill.		15' schedule 40 2" 10 slot PVC screen
		21.5	S-4	18	4-4-7 (11)			
25		25.0				SAND, poorly graded, fine sand, less than 10% fine, wet, medium to dark gray, compact (SP), strong hydrocarbon odor, fill.		
		26.5	S-5	18	5-5-8 (13)			Screen bottom 27'
								5'- 4" Sump
30		30.0						

10/06/96 10:59 ☎5032243092 CABLE HUSTON WOODWARD CLYDE 10/05/96 THU 12:53 FAX 002/002

1992 Water Level Data

Monitoring Point ID	Elevation[1]	31-Jan Water Level		28-Feb Water Level		30-Mar Water Level		29-May Water Level		2-Jul Water Level		31-Jul Water Level		27-Aug Water Level		28-Sep Water Level		23-Oct Water Level		24-Nov Water Level		28-Dec Water Level	
		Depth (feet)	Elevation[1]	Depth (feet)	Elevation[1]	Depth (feet)	Elevation[1]	Depth (feet)	Elevation[1]	Depth (feet)	Elevation[1]	Depth (feet)	Elevation[1]	Depth (feet)	Elevation[1]	Depth (feet)	Elevation[1]	Depth (feet)	Elevation[1]	Depth (feet)	Elevation[1]	Depth (feet)	Elevation[1]
MW-1	100.18	5.40	94.78	5.13	95.05	6.88	93.30	11.94	88.24	--	--	14.10	86.08	14.71	85.47	15.21	84.97	15.71	84.47	15.88	84.30	6.81	93.37
MW-2	98.67	5.96	92.71	5.17	93.50	9.50	89.17	12.79	85.88	13.83	84.84	14.45	84.22	15.04	83.63	16.56	82.11	15.98	82.69	16.13	82.54	6.83	91.84
MW-3	100.11	14.08	86.03	12.38	87.73	13.46	86.65	14.67	85.44	15.33	84.78	15.77	84.34	16.21	83.90	16.52	83.59	16.73	83.38	16.38	83.73	15.31	84.80
MW-4	102.45	5.96	96.49	6.06	96.39	7.60	94.85	12.40	90.05	14.38	88.07	15.21	87.24	15.94	86.51	16.46	85.99	16.96	85.49	17.21	85.24	7.00	95.45
MW-5	102.02	12.94	89.08	8.40	93.62	10.27	91.75	12.63	89.39	13.73	88.29	14.46	87.56	15.04	86.98	15.52	86.50	15.88	86.14	16.19	85.83	15.27	86.75
MW-6	100.29	14.26	86.03	12.33	87.96	13.04	87.25	14.42	85.87	15.13	85.16	15.63	84.66	16.06	84.23	16.50	83.79	16.79	83.50	16.48	83.81	15.46	84.83
MW-7	101.23	15.88	85.35	13.79	87.44	14.42	86.81	15.92	85.31	16.94	84.29	17.85	83.38	18.56	82.67	18.96	82.27	19.23	82.00	18.63	82.60	16.79	84.44
B-105[2]		17.94		18.21		19.50		19.52		20.19		20.96		21.85		21.94		22.27		20.15		20.08	
B-108[2]		20.73		20.67		21.98		21.88		22.67		23.35		24.34		24.56		24.94		22.88		22.56	

Notes:

[1]Elevation 100.00 feet corresponds to USGS Elevation 35.00 feet.

[2]Construction details and elevations for monitoring points B-105 and B-108 are unknown.

SCOEPA00025489

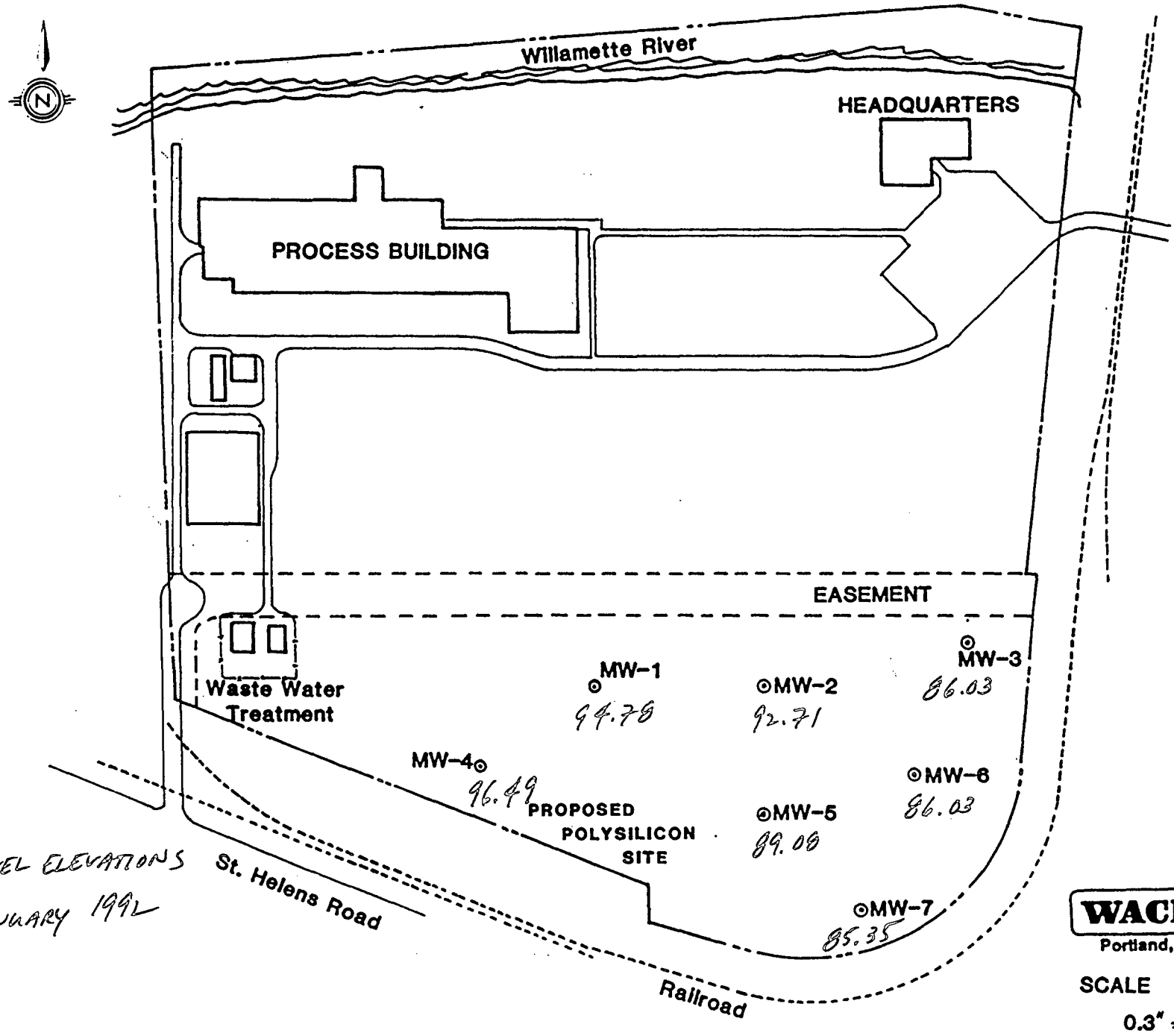

Figure 1 - MONITORING WELL LOCATIONS ON PROPOSED POLYSILICON SITE

SCOEPA00025490

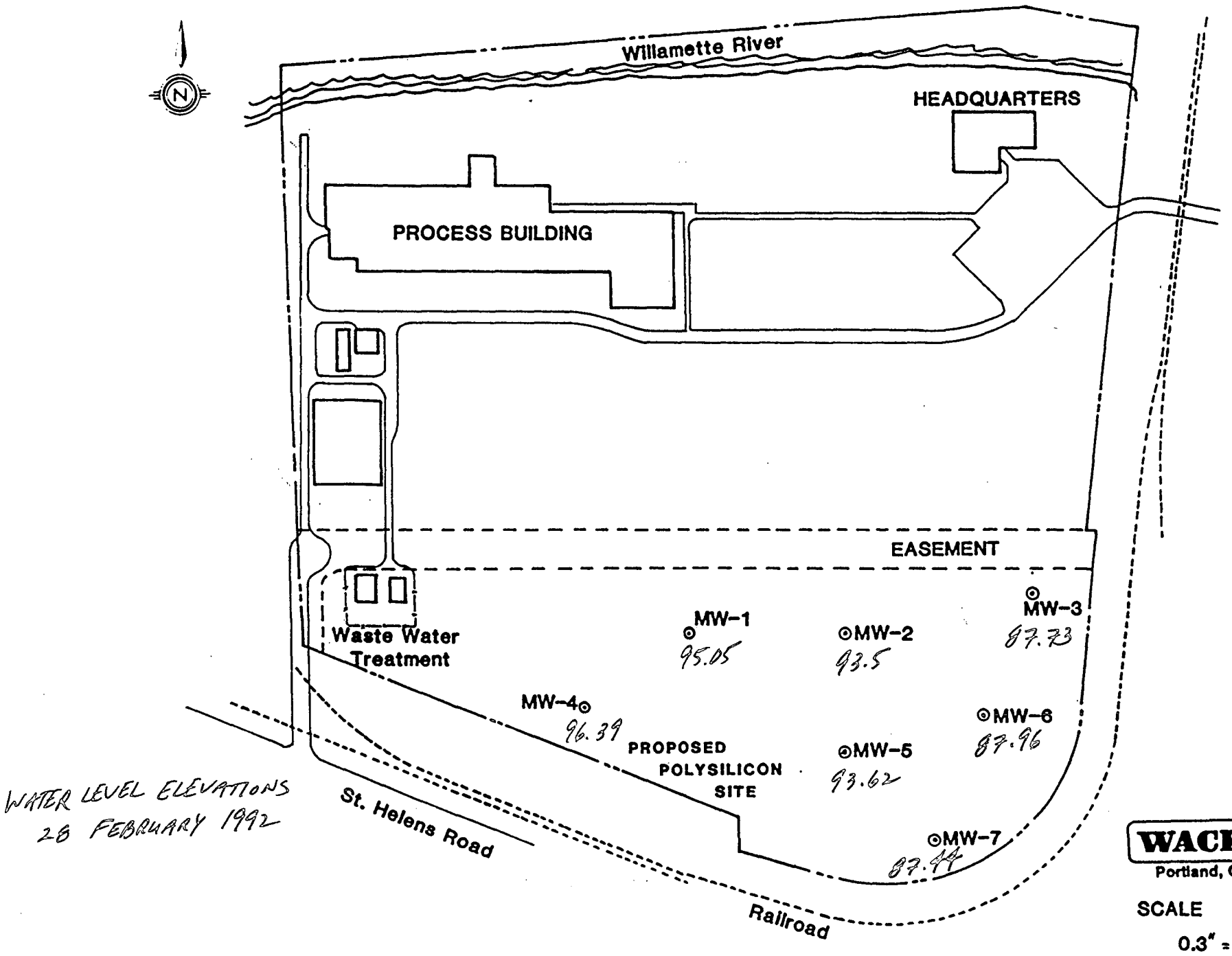

Figure 1 - MONITORING WELL LOCATIONS ON PROPOSED POLYSILICON SITE

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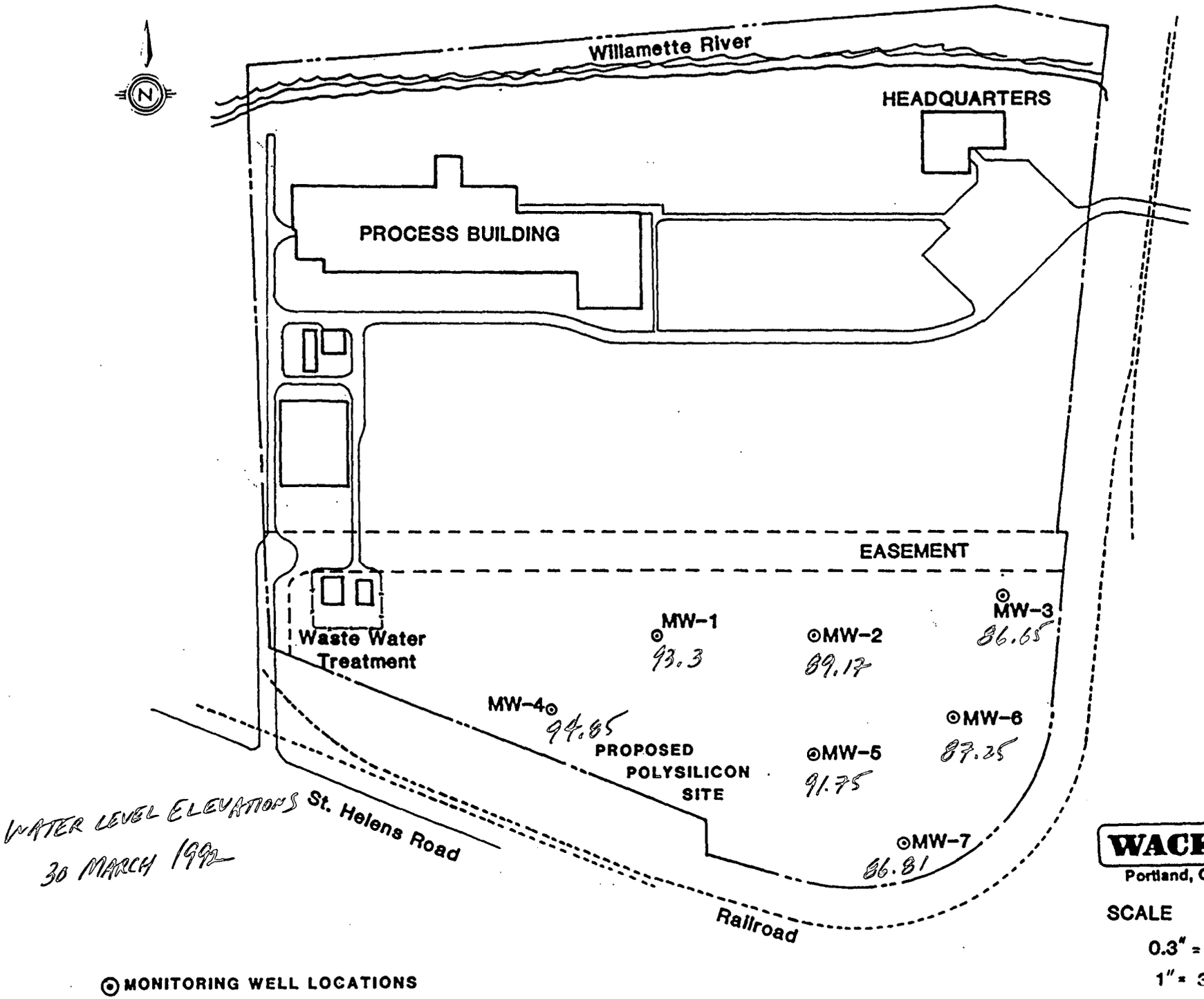

Figure 1 – MONITORING WELL LOCATIONS ON PROPOSED POLYSILICON SITE

SCOEPA00025492

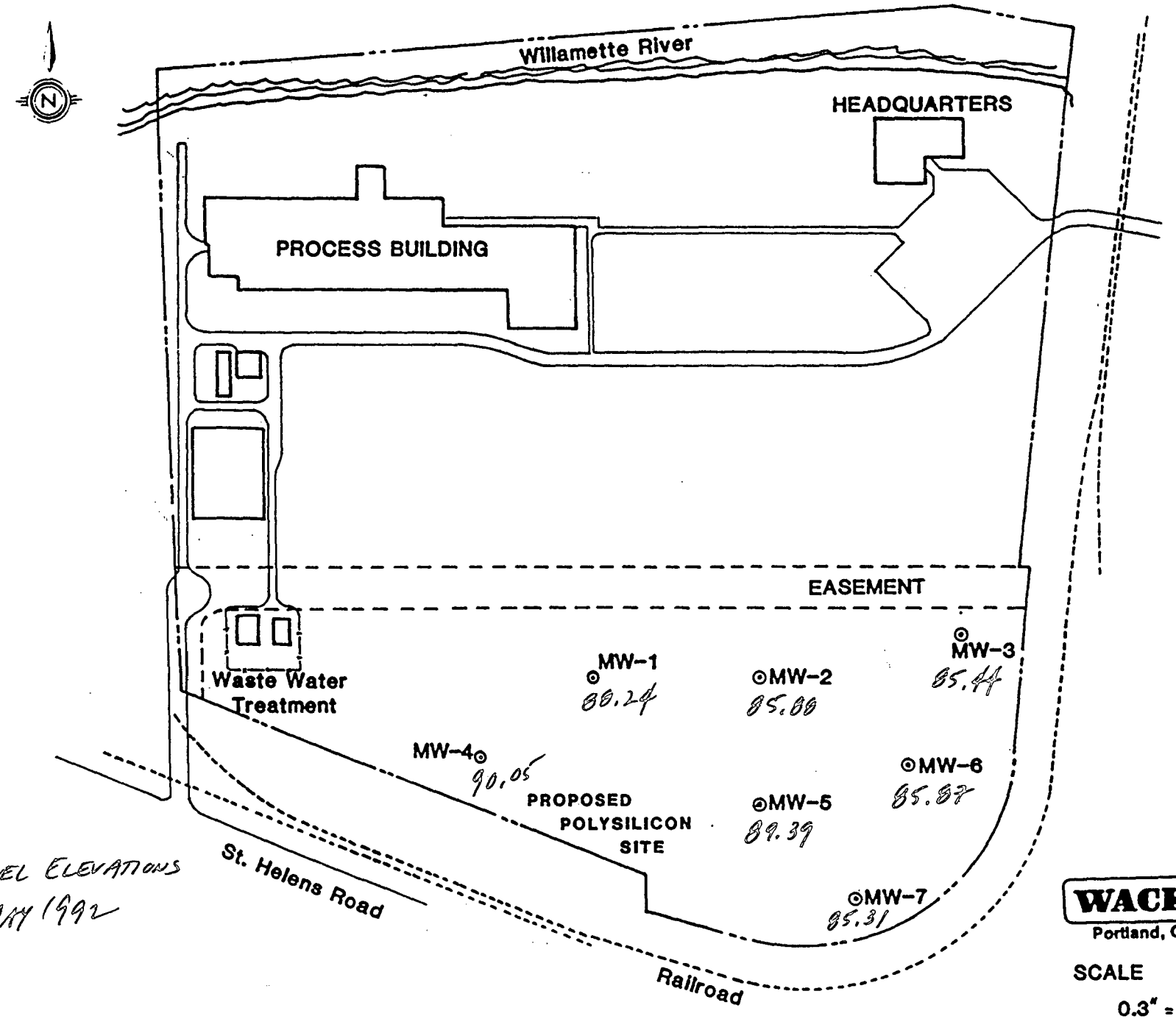

Figure 1 – MONITORING WELL LOCATIONS ON PROPOSED POLYSILICON SITE

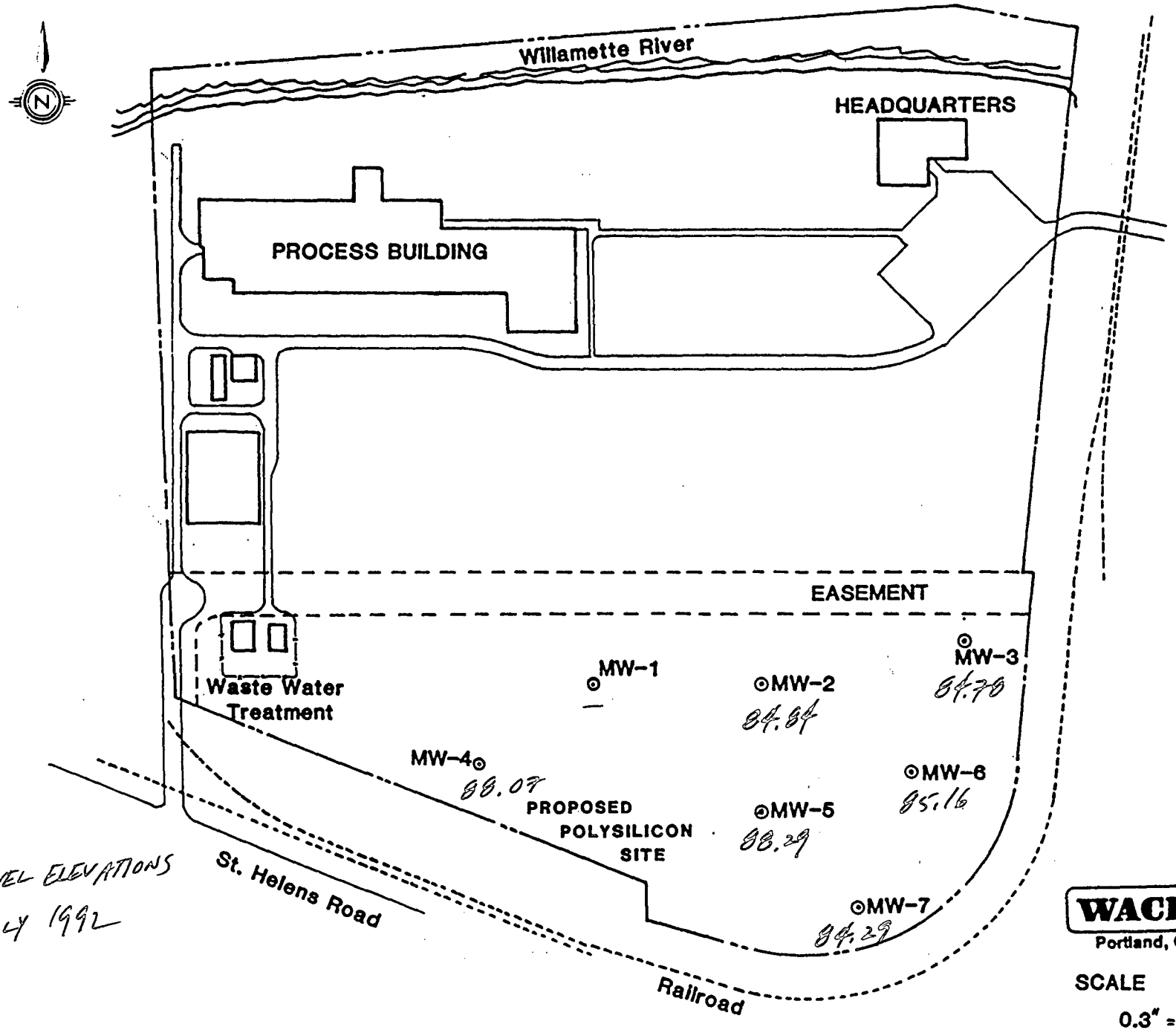

Figure 1 – MONITORING WELL LOCATIONS ON PROPOSED POLYSILICON SITE

SCOEPA00025494

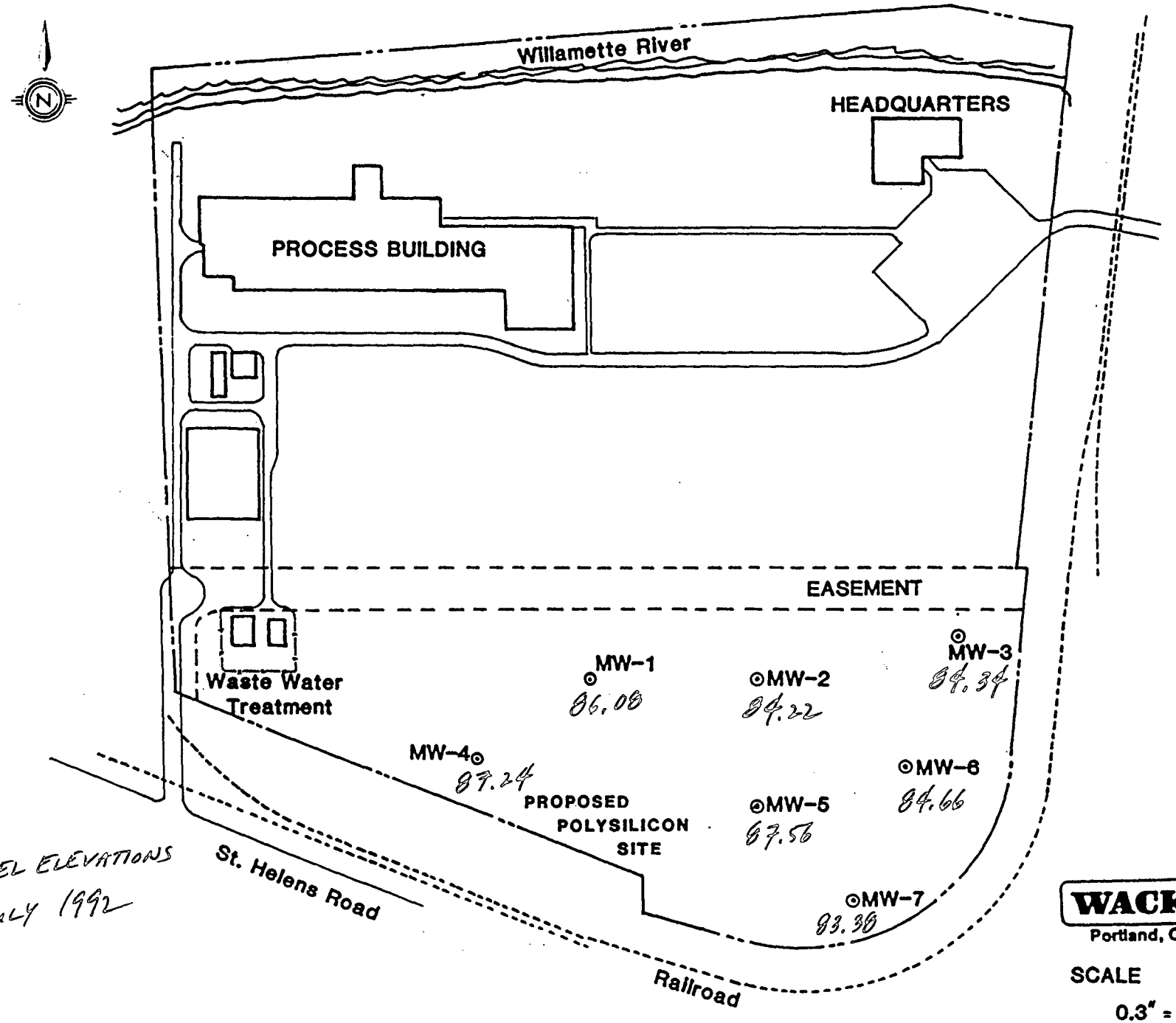

Figure 1 - MONITORING WELL LOCATIONS ON PROPOSED POLYSILICON SITE

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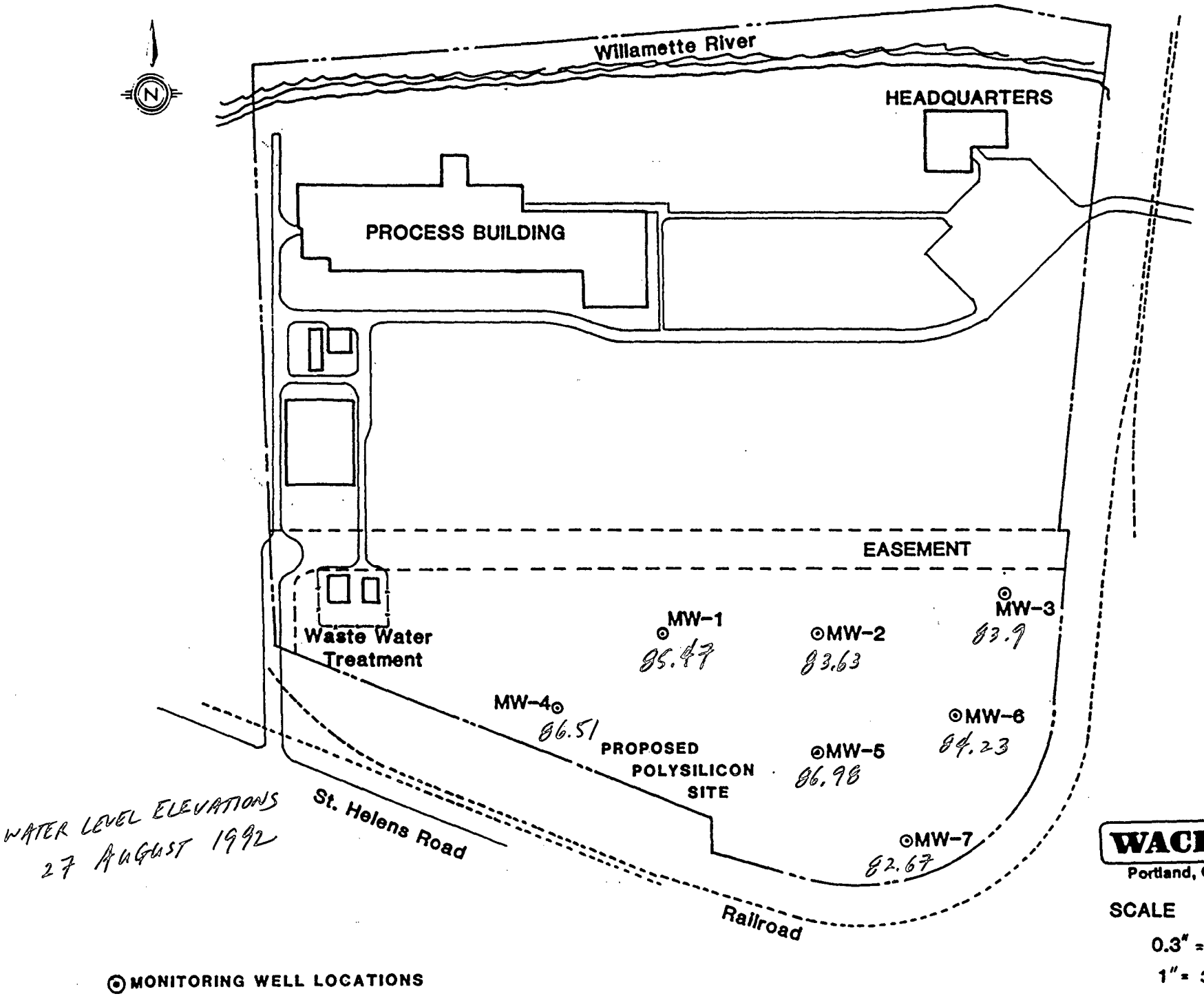

Figure 1 - MONITORING WELL LOCATIONS ON PROPOSED POLYSILICON SITE

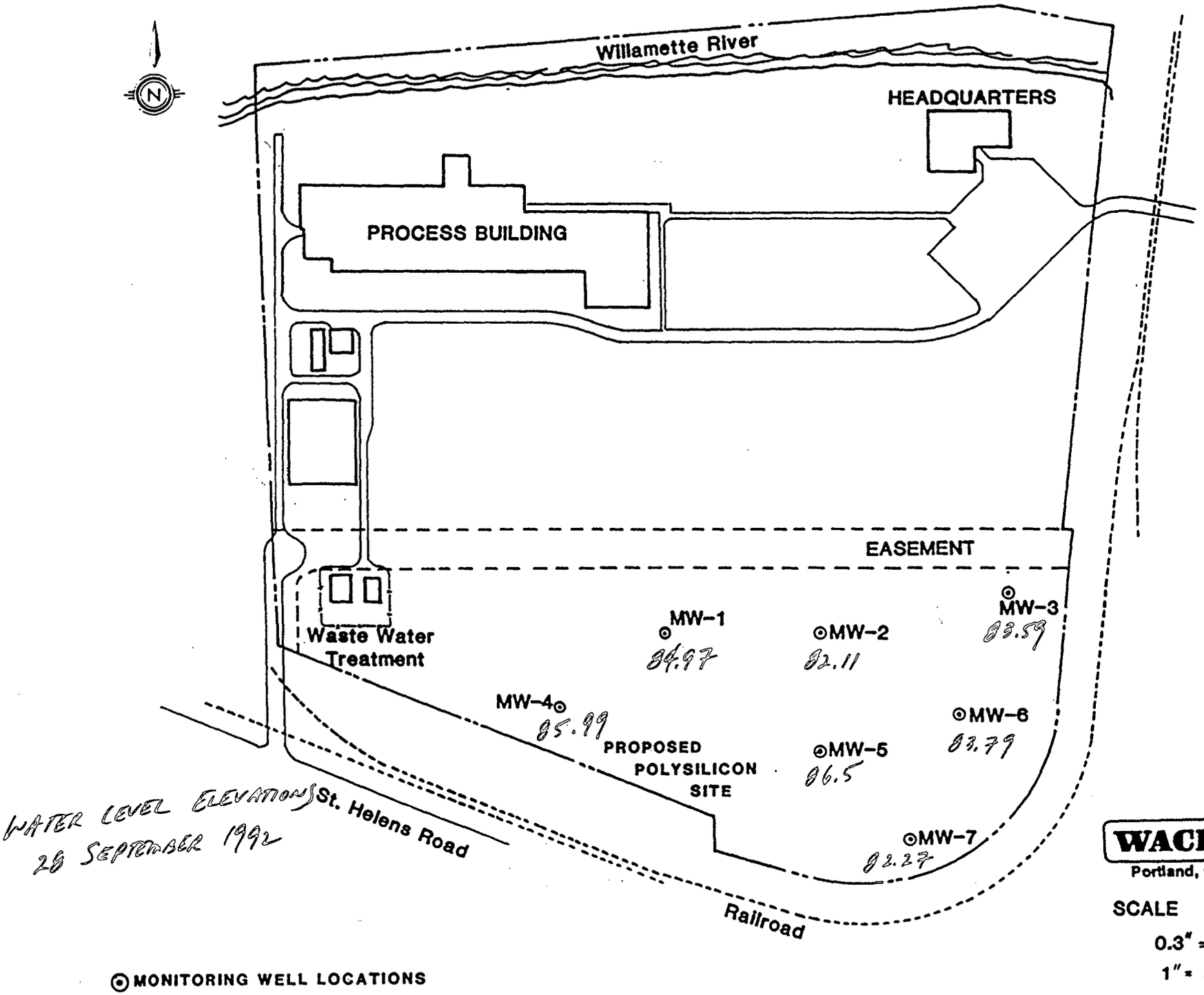

Figure 1 – MONITORING WELL LOCATIONS ON PROPOSED POLYSILICON SITE

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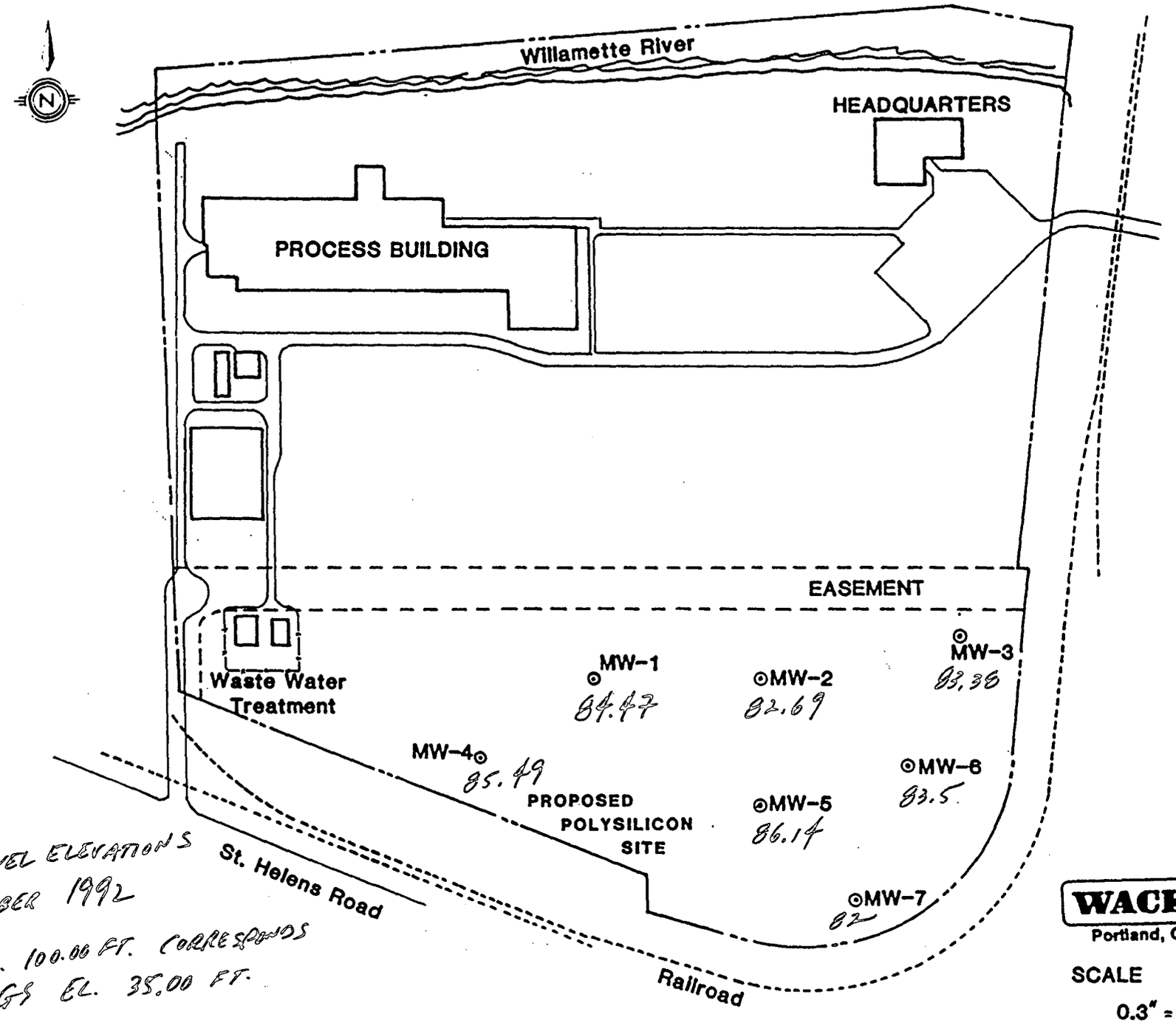


Figure 1 – MONITORING WELL LOCATIONS ON PROPOSED POLYSILICON SITE

SCOEPA00025498

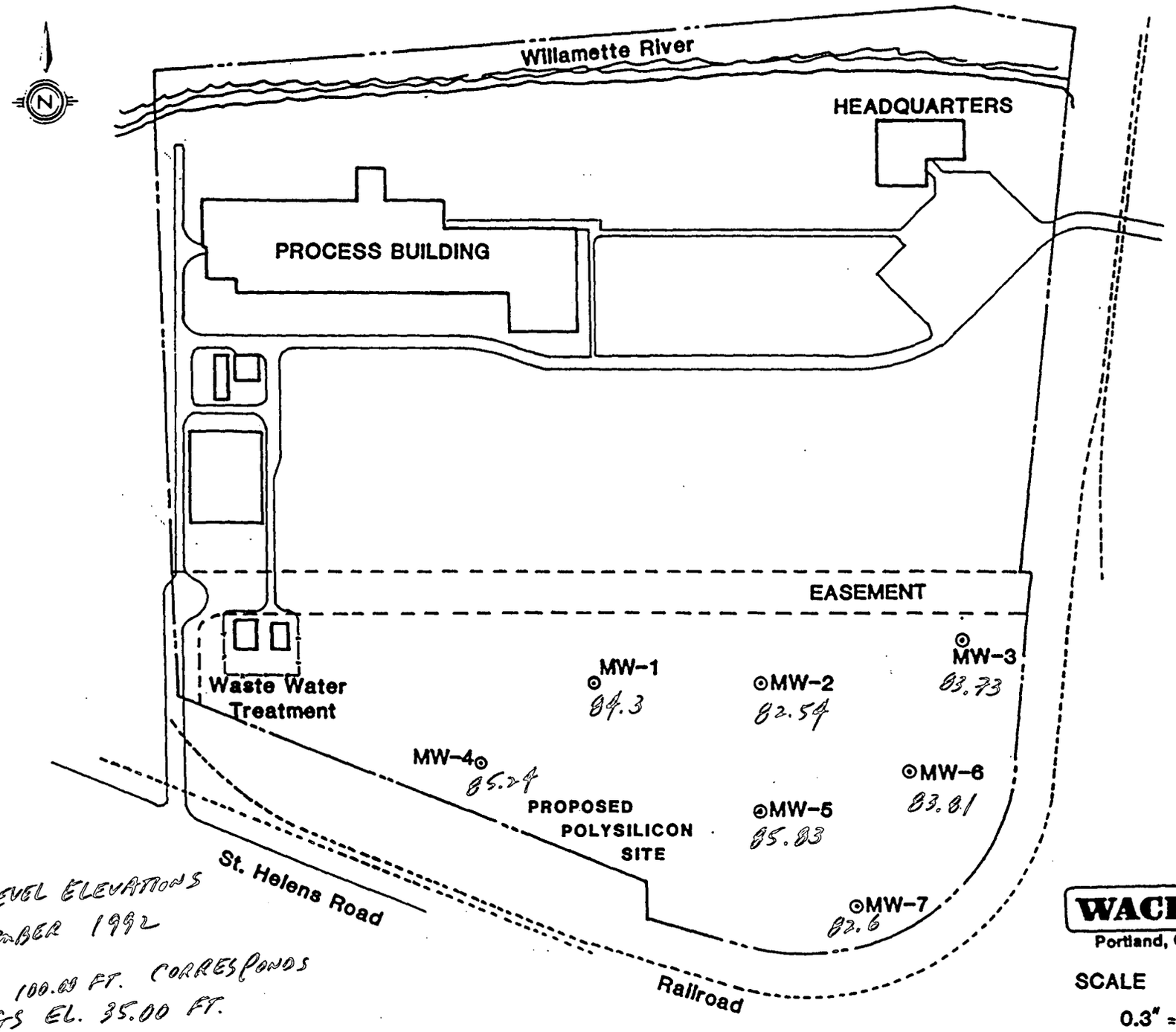


Figure 1 – MONITORING WELL LOCATIONS ON PROPOSED POLYSILICON SITE

SCOEPA00025499

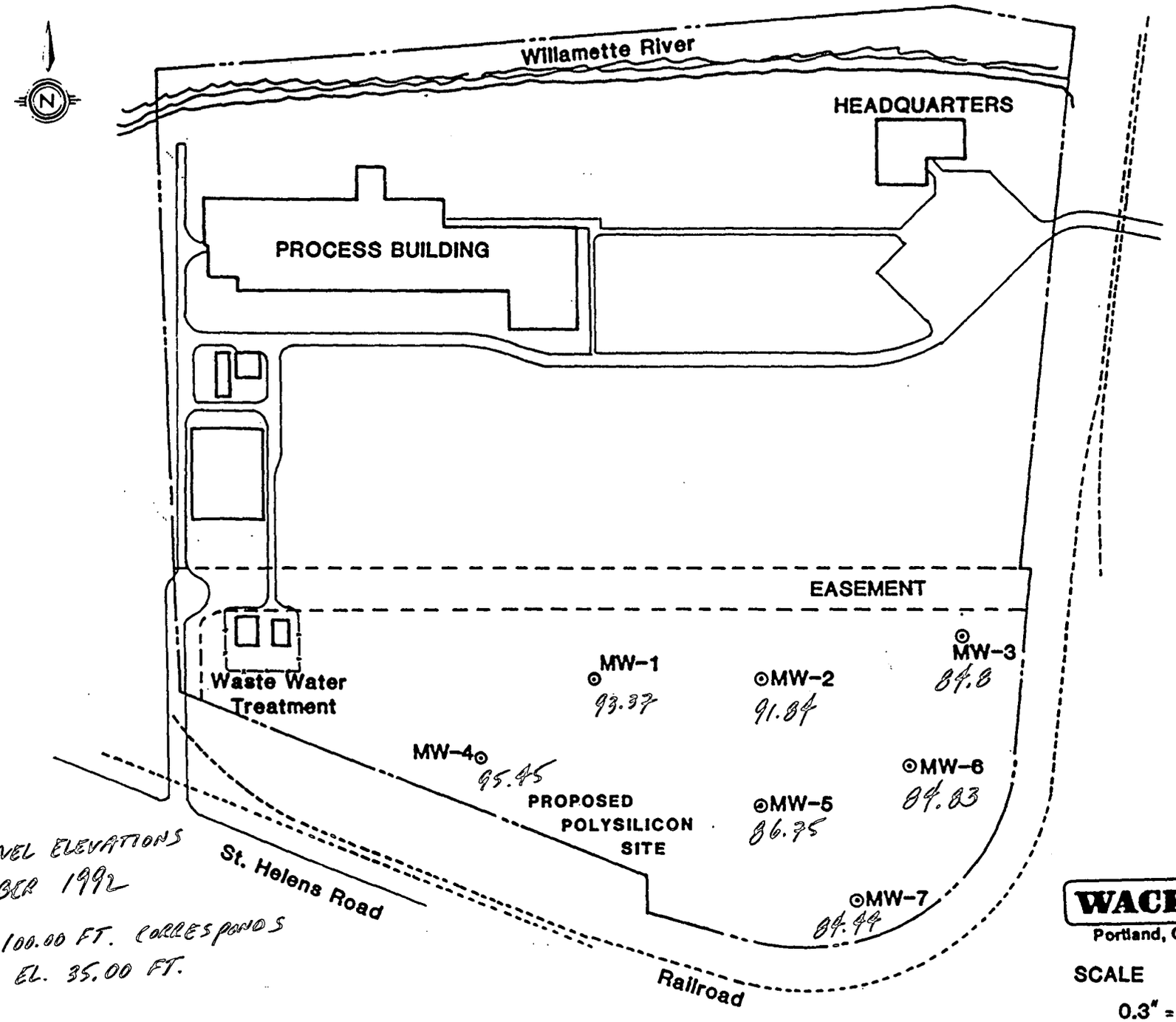


Figure 1 - MONITORING WELL LOCATIONS ON PROPOSED POLYSILICON SITE

MONITORING WELLS BENCHSHEET

1. Measured By: Thomas J. Rothschild

2. Date: 21 Oct 94

3. River Levels: High Level (last 24 hours): 4.8 Feet at Time: 2000 20 Oct 94

Low Level (last 24 hours) : 1.4 Feet at Time: @1400 ↓

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1320 Ending Time: 1405

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	15' 6½"	15.54
2	15' 10¾"	15.90
3	16' 8"	16.67
4	*	
5	15' 10½"	15.88
6	16' 7¾" ~~15' 10½" 19' 5"~~	16.65
7	19' 5"	19.42
B105	**	
B108	**	

Comments: * Could not locate well point #4. Steve B. said it should be in raised dirt area.
** B105/B108 well points are gone

TJR 11-19-87
12-15-87 Rev

SCOEPA00025501

MONITORING WELLS BENCHSHEET

1. Measured By: Thomas J. Rothschild

2. Date: 30 Sep 94

3. River Levels: High Level (last 24 hours): 3.4 Feet at Time: 0100

   Low Level (last 24 hours) : 0.2 Feet at Time: 0900

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1304 Ending Time: 1341

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	15' 4 3/4"	15.40
2	15' 7"	15.58
3	16' 6 1/2"	15.54
4	16' 8 1/4"	16.69
5	15' 7 1/4"	15.60
6	16' 5 3/4"	16.48
7	19' 2 1/2"	19.21
B105	22' 9"	22.75
B108	25' 4 1/2"	25.38

Comments: _____

TJR 11-19-87
12-15-87 Rev

SCOEPA00025502

MONITORING WELLS BENCHSHEET

1. Measured By: Thomas J. Rothschild

2. Date: 30 Aug 94

3. River Levels: High Level (last 24 hours): 3.5 Feet at Time: 12:00 AM

   Low Level (last 24 hours) : 0.5 Feet at Time: 9:00 AM

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1310 Ending Time: 1355

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	14' $10\frac{1}{4}$"	14.85
2	14' $\frac{1}{4}$"	14.02
3	16' 3"	16.25
4	16' $1\frac{1}{4}$"	16.10
5	15' 1"	15.08
6	16' $2\frac{1}{4}$"	16.19
7	18' $9\frac{1}{4}$"	18.77
B105	22' $5\frac{3}{4}$"	22.48
B108	24' $11\frac{1}{2}$"	24.96

Comments: Sunny; ~ 80°F

TJR 11-19-87
12-15-87 Rev

SCOEPA00025503

MONITORING WELLS BENCHSHEET

1. Measured By: T. J. Rothschild
2. Date: 29 July 94
3. River Levels: High Level (last 24 hours): 5.1 Feet at Time: 10:00 PM
   Low Level (last 24 hours) : 2.1 Feet at Time: 6:00 PM
4. Measuring Point: Top of Standpipe.
5. Measurements: Starting Time: 1405 Ending Time: 1450

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	14' 1 3/4"	14.15
2	14' 8 1/2"	14.71
3	15' 10 1/2"	15.88
4	15' 3"	15.25
5	14' 5 3/4"	14.48
6	15' 8 1/2"	15.71
7	17' 10 3/4"	17.90
B105	21' 2 1/4"	21.21
B108	23' 9"	23.75

Comments: _____

TJR 11-19-87
12-15-87 Rev

SCOEPA00025504

MONITORING WELLS BENCHSHEET

1. Measured By: Tom Rothschild

2. Date: 30 Jun 94

3. River Levels: High Level (last 24 hours): 4.8 Feet at Time: 1200 AM

   Low Level (last 24 hours) : 2.1 Feet at Time: 800 PM

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1405 Ending Time: 1450

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	13' 3"	13.25
2	14' 0"	14.00
3	15' 5 1/2"	15.46
4	14' 4 1/2"	14.38
5	13' 8 3/4"	13.73
6	15' 2 1/2"	15.21
7	16' 11 1/2"	16.96
B105	20' 6 3/4"	20.56
B108	22' 11 1/2"	22.96

Comments: _____

TJR 11-19-87

monitoring wells
30 Jun 94

12.00 +M
5.5 ÷
12.00 ◊M
0.46 *
12.00 =
4.5 ÷
12.00 ◊M
0.38 *
12.00 =
8.75 ÷
12.00 ◊M
0.73 *
12.00 =
2.5 ÷
12.00 ◊M
0.21 *
12.00 =
11.5 ÷
12.00 ◊M
0.96 *
12.00 =
6.75 ÷
12.00 ◊M
0.56 *
12.00 =
0 *

SCOEPA00025505

MONITORING WELLS BENCHSHEET

1. Measured By: T. J. Rothschild

2. Date: 29 Mar 94

3. River Levels: High Level (last 24 hours): 6.5 Feet at Time: 0600

Low Level (last 24 hours) : 3.0 Feet at Time: 1500

4. Measuring Point: Top of Standpipe.

5. Measurements: Starting Time: 1400 Ending Time: 1440

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	6' 1 3/4"	6.15
2	5' 6 1/4"	5.52
3	13' 7"	13.58
4	5' 10 1/4"	5.85
5	10' 0"	10.00
6	13' 2 3/4"	13.23
7	14' 7 1/2"	14.63
B105	19' 6 1/4"	19.54
B108	21' 11 1/2"	21.96

Comments: Sunny ; ~ 70°F

TJR 11-19-87
12-15-87Rev

SCOEPA00025506

MONITORING WELLS BENCHSHEET

1. Measured By: Tom Rothschild
2. Date: 25 Feb 94
3. River Levels: High Level (last 24 hours): _____ Feet at Time: _____

   Low Level (last 24 hours) : _____ Feet at Time: _____
4. Measuring Point: Top of Standpipe.
5. Measurements: Starting Time: 1345 Ending Time: 1425

Well Point	Depth to Water (Feet/Inches) (to nearest 1/4 inch)	Depth to Water (Feet) (Decimals)
1	4' 7½"	4.62
2	3' 2½"	3.21
3	14' 6½"	14.54
4	6' 2¾"	6.23
5	13' 10½"	13.88
6	14' 7/10 ¾"	14.90
7	16' 7¾"	16.65
B105	18' 9½"	18.79
B108	21' 3¾"	21.31

Comments: Cool, cloudy, no rain.
Could not reach National Weather Service

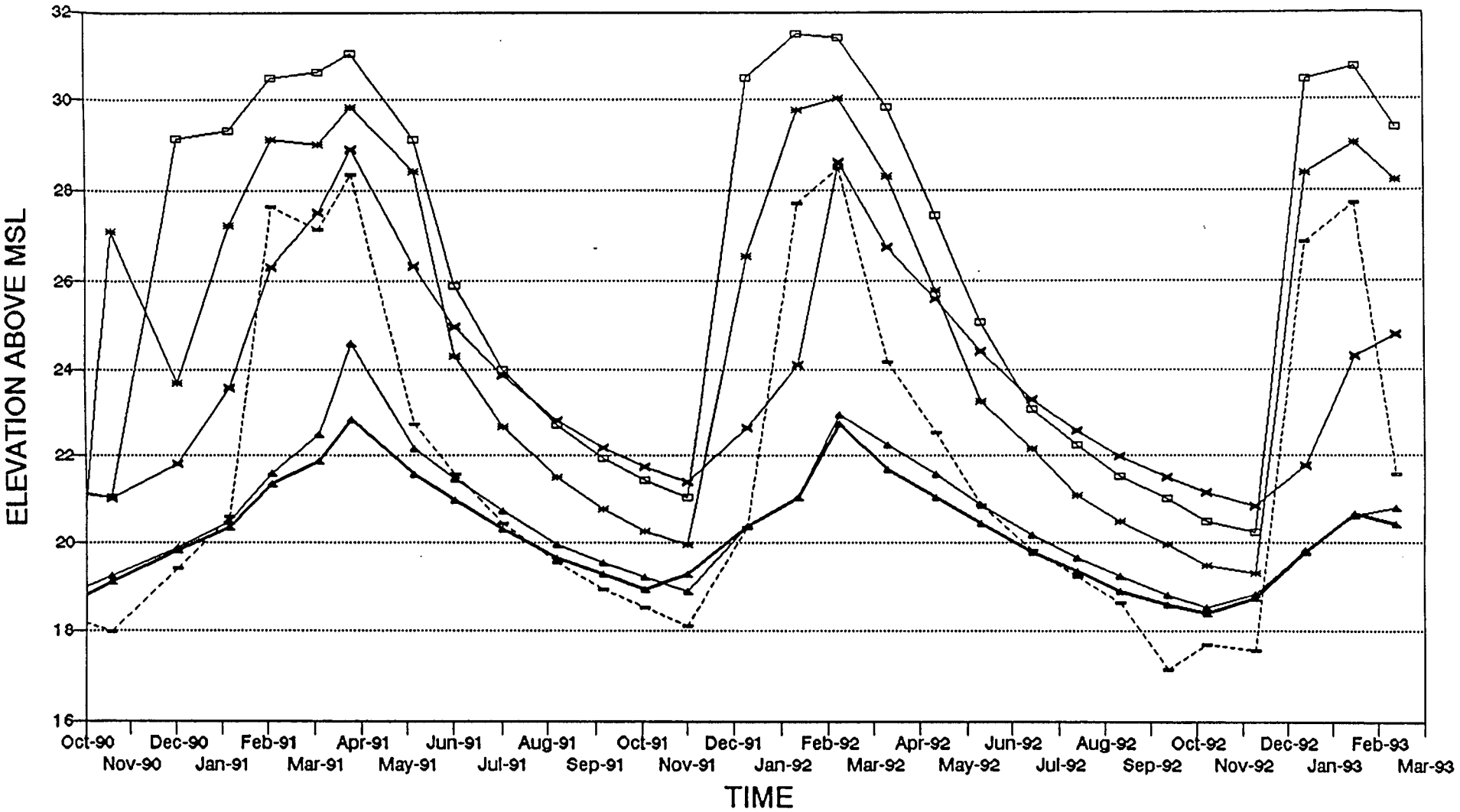
TJR 11-19-87
12-15-87Rev

SCOEPA00025507

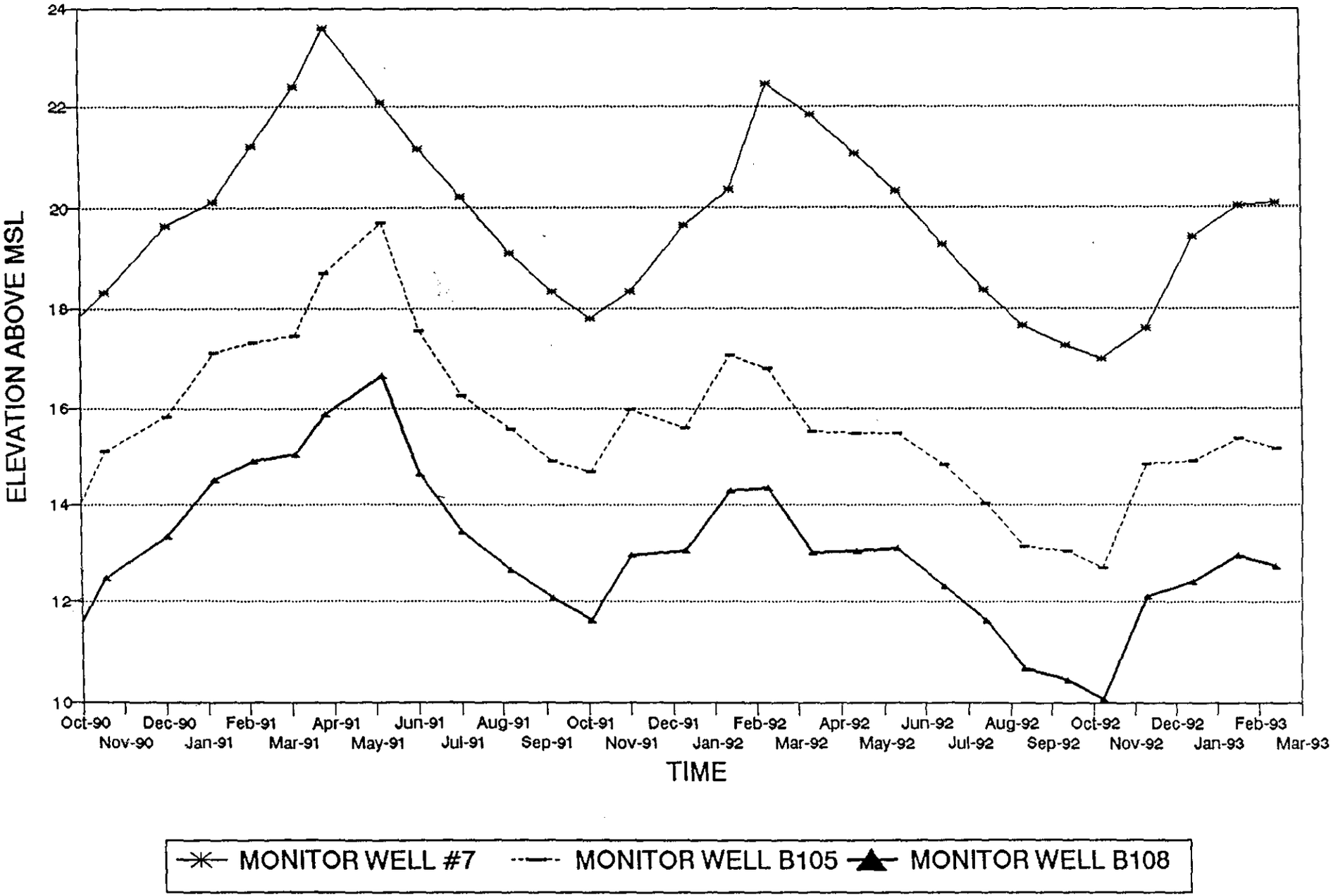
GROUNDWATER ELEVATION VS. TIME

REC'D MAR 32 1993
SDR

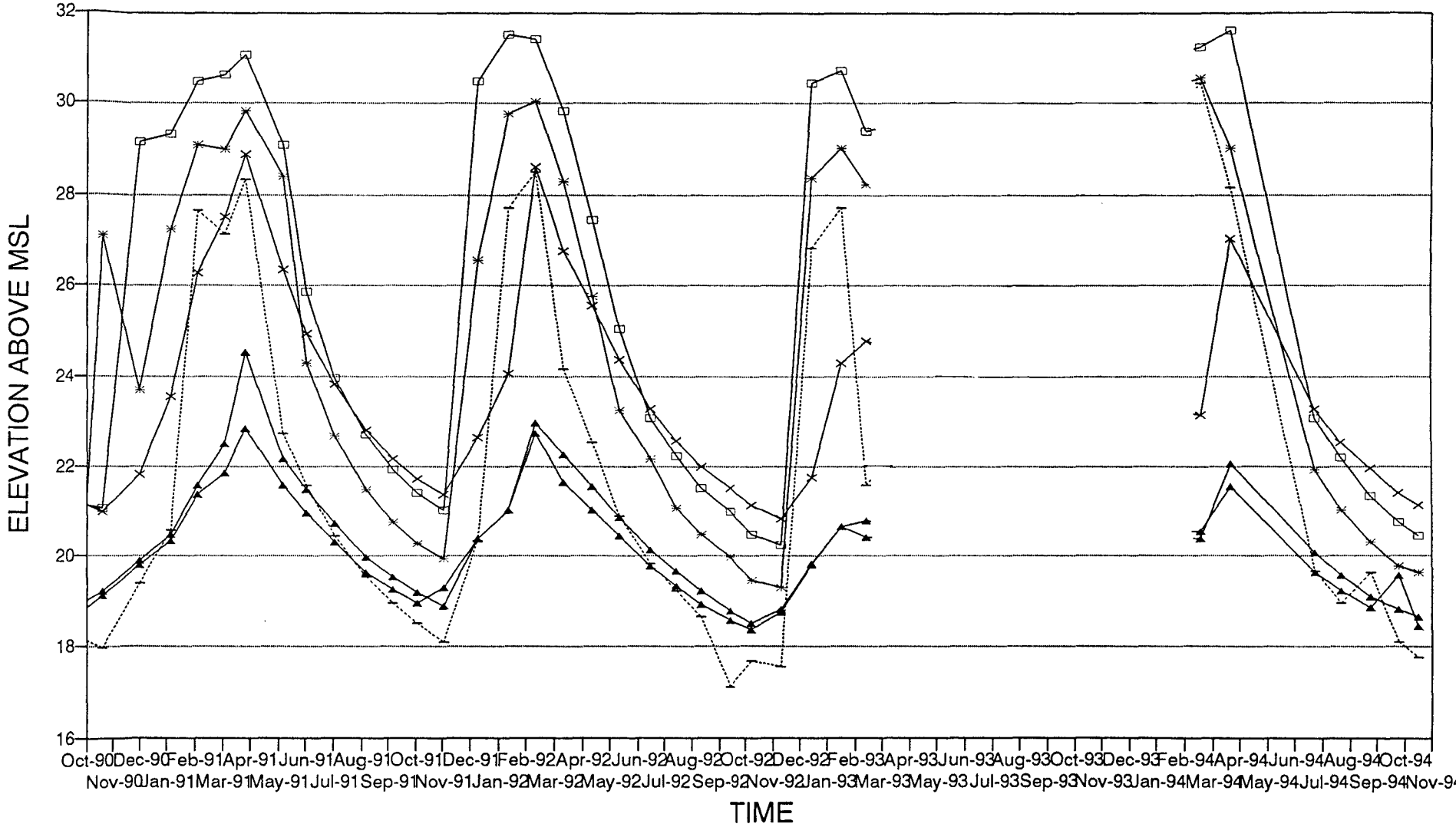
MONITORING WELLS #1-6



GROUNDWATER ELEVATION VS. TIME
MONITORING WELLS #7, B105, B108

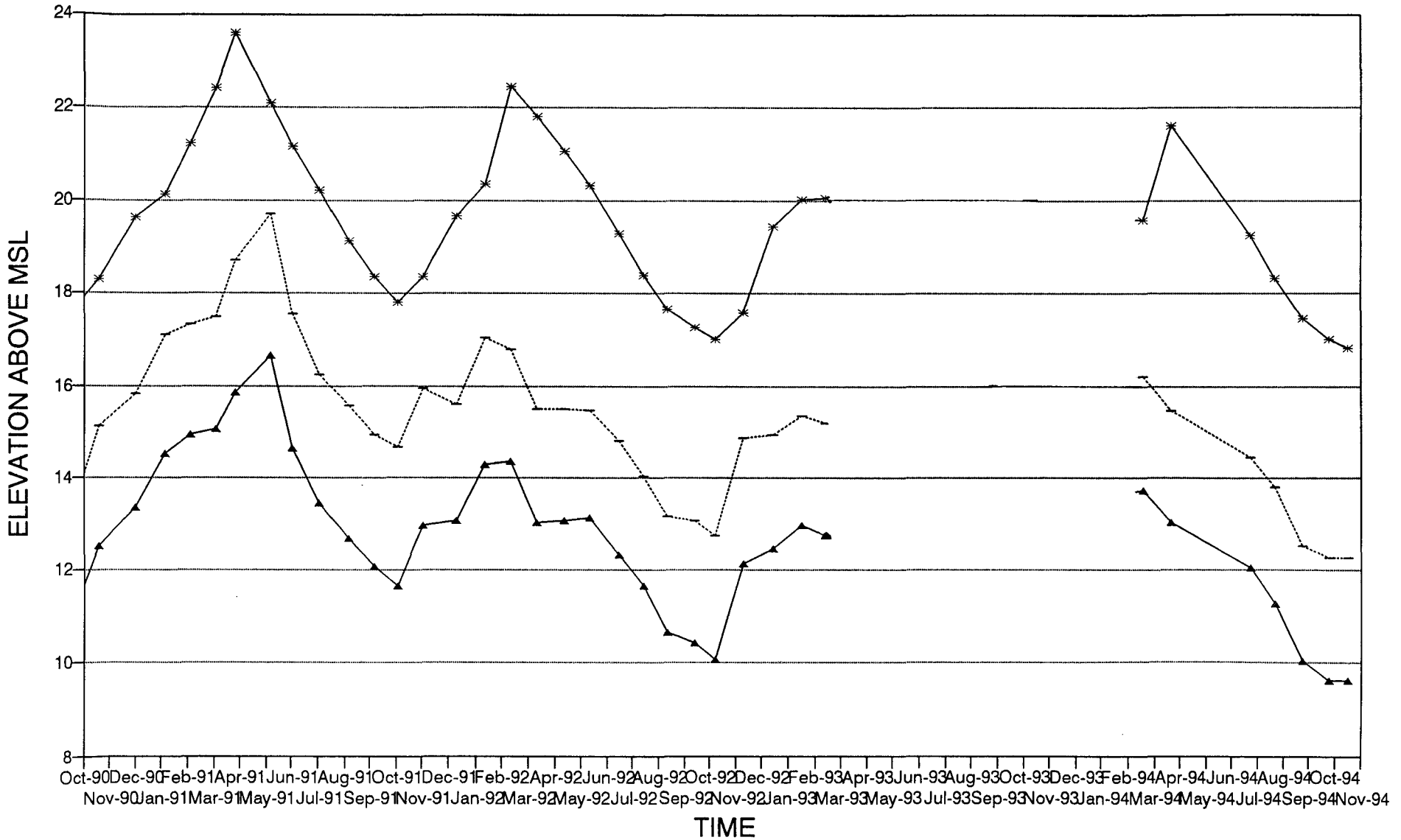


GROUNDWATER ELEVATION VS. TIME
MONITORING WELLS #1-6

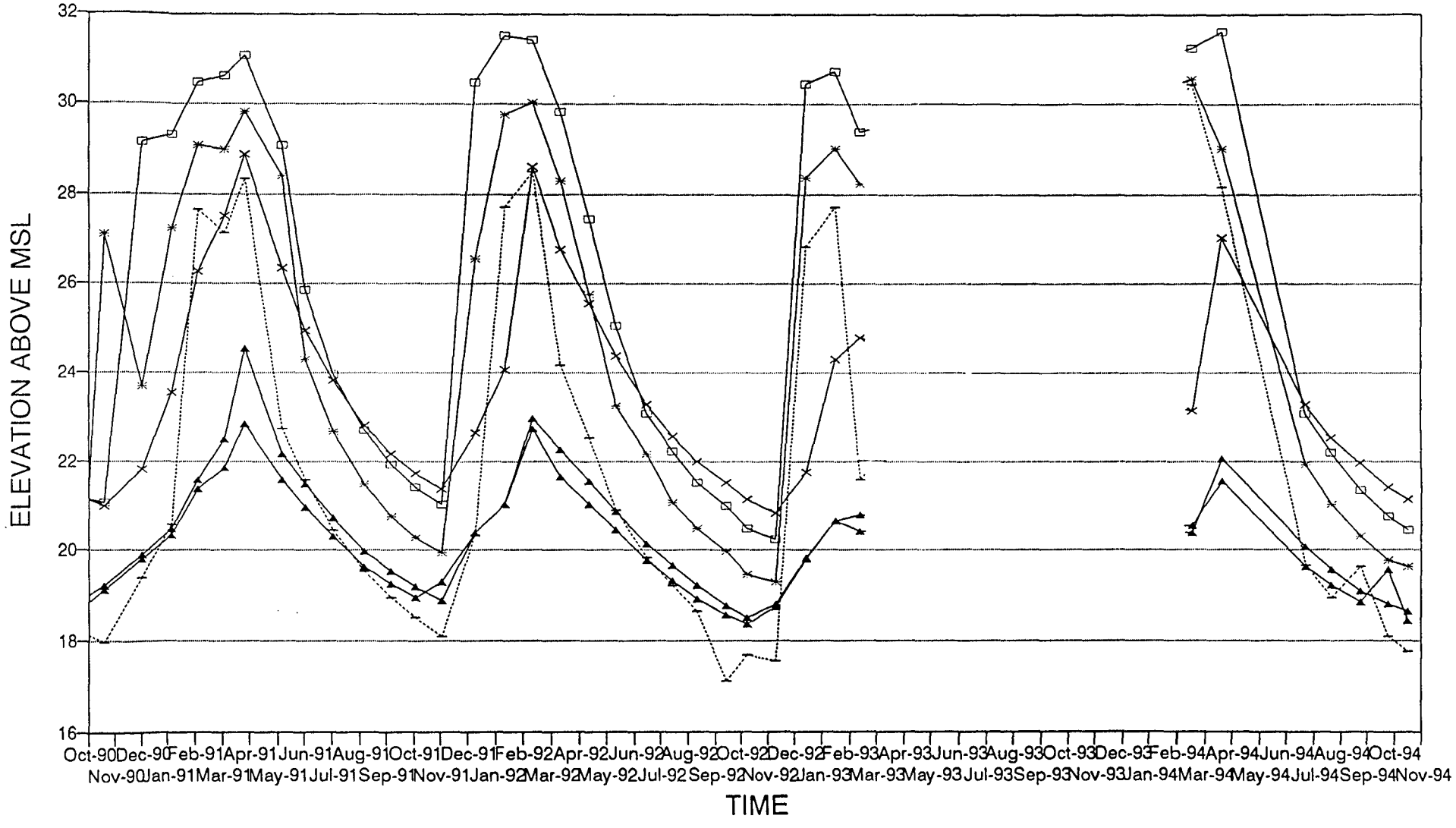


MONITORING WELL #1 — MONITORING WELL #2 — MONITORING WELL #3
MONITORING WELL #4 — MONITORING WELL #5 — MONITORING WELL #6

GROUNDWATER ELEVATION VS. TIME
MONITORING WELLS #7, B105, B108

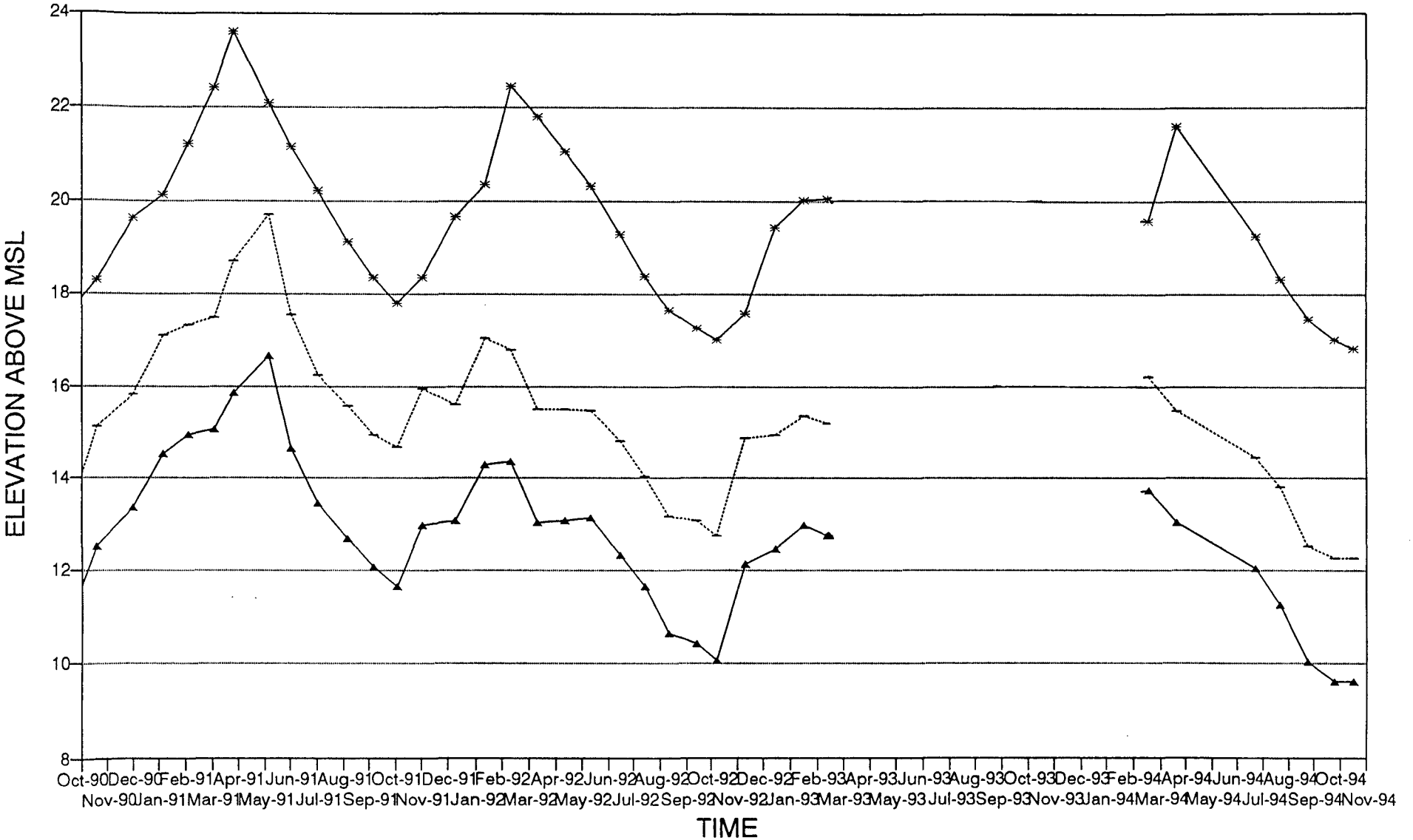


GROUNDWATER ELEVATION VS. TIME
MONITORING WELLS #1-6

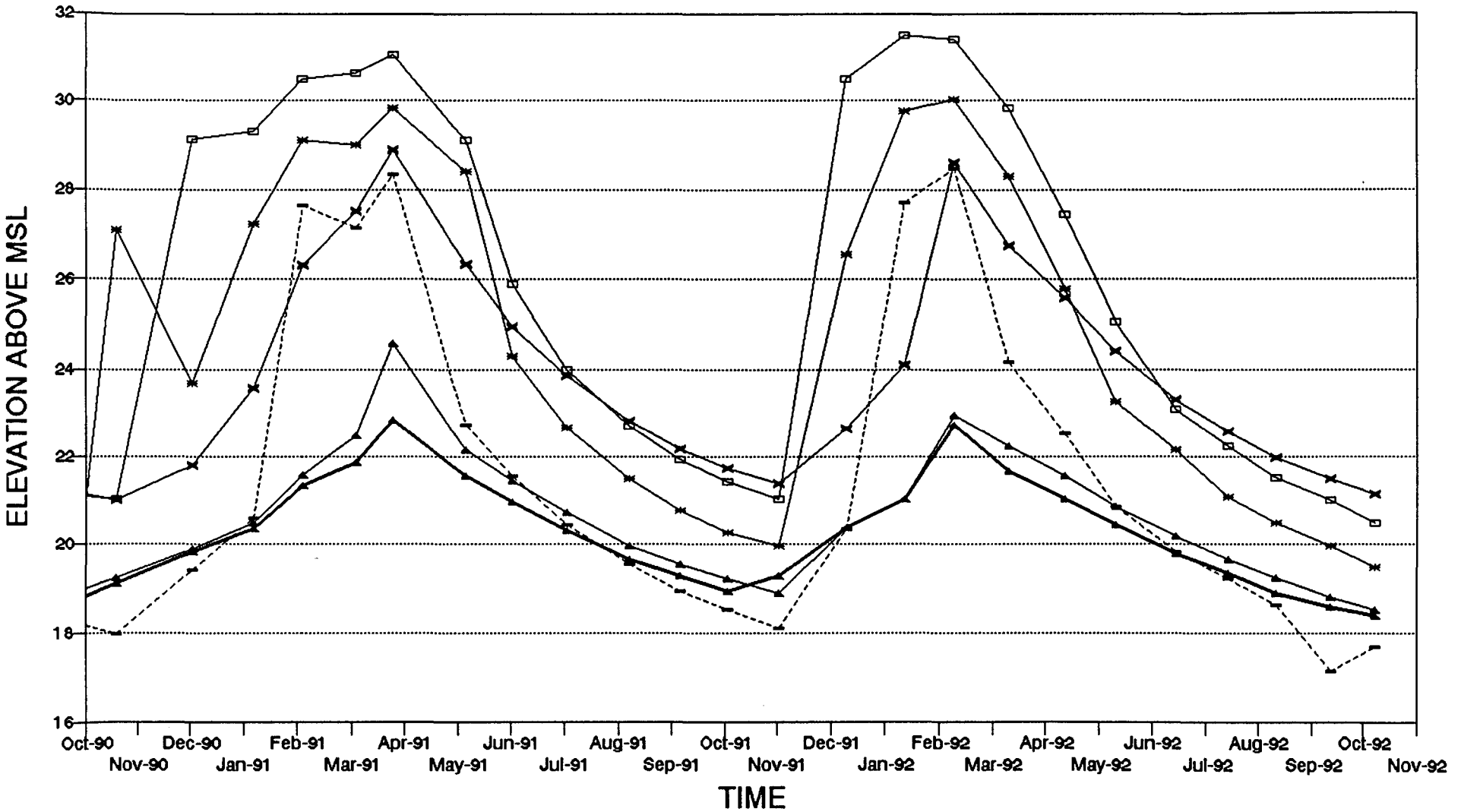


IDC

GROUNDWATER ELEVATION VS. TIME
MONITORING WELLS #7, B105, B108

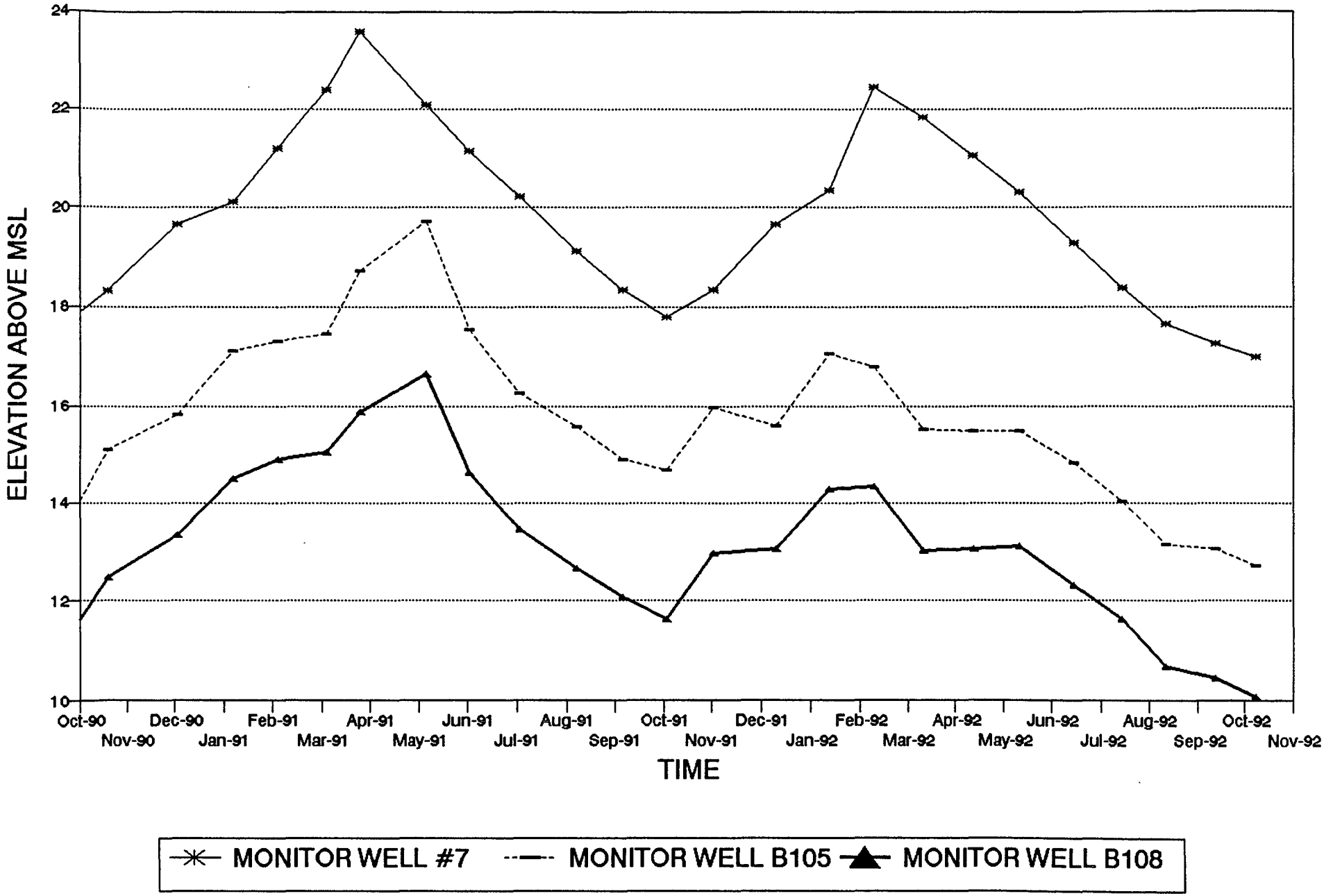


GROUNDWATER ELEVATION VS. TIME
MONITORING WELLS #1-6

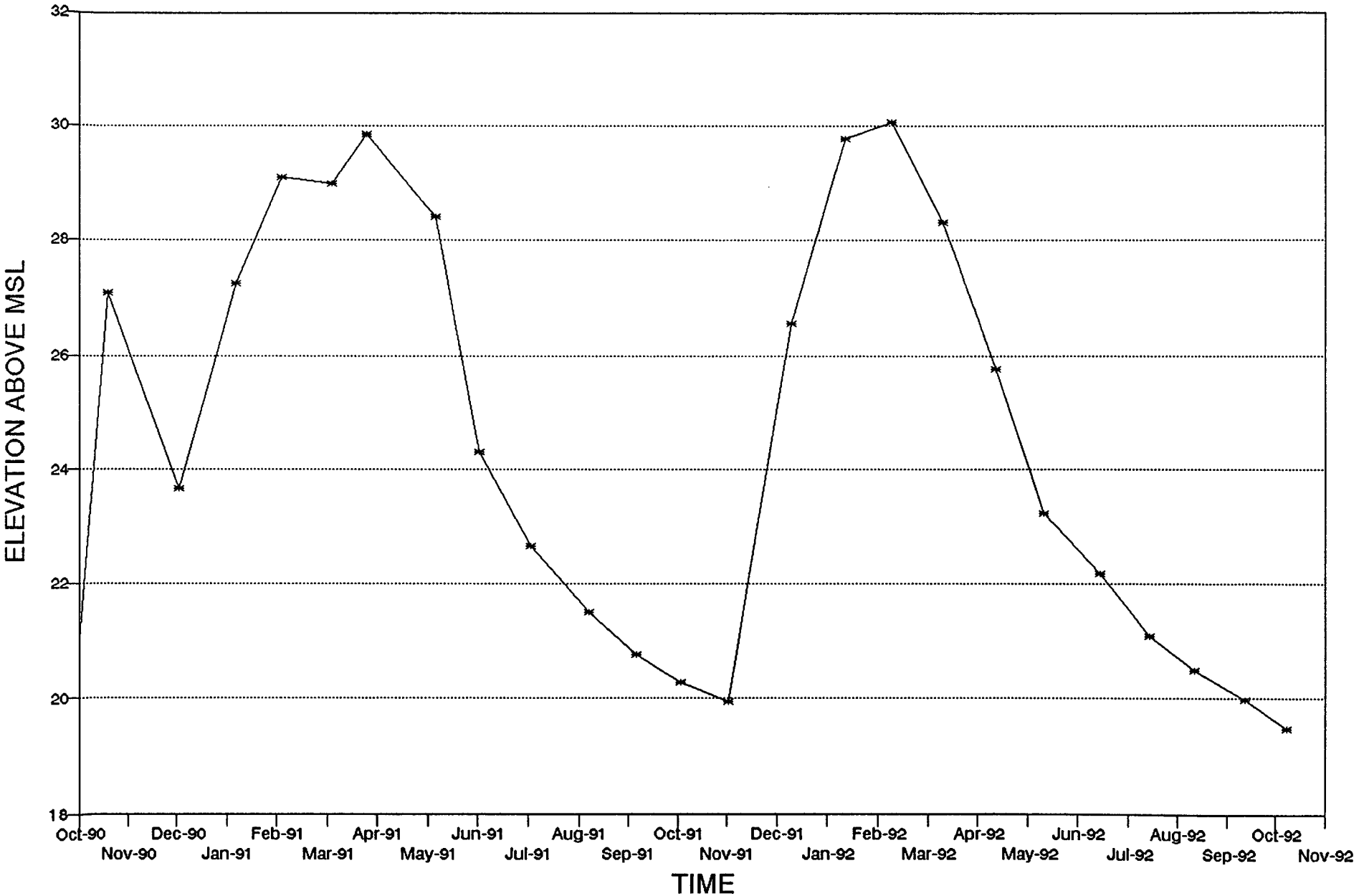


MONITORING WELL #1 — MONITORING WELL #2 — MONITORING WELL #3
MONITORING WELL #4 — MONITORING WELL #5 — MONITORING WELL #6

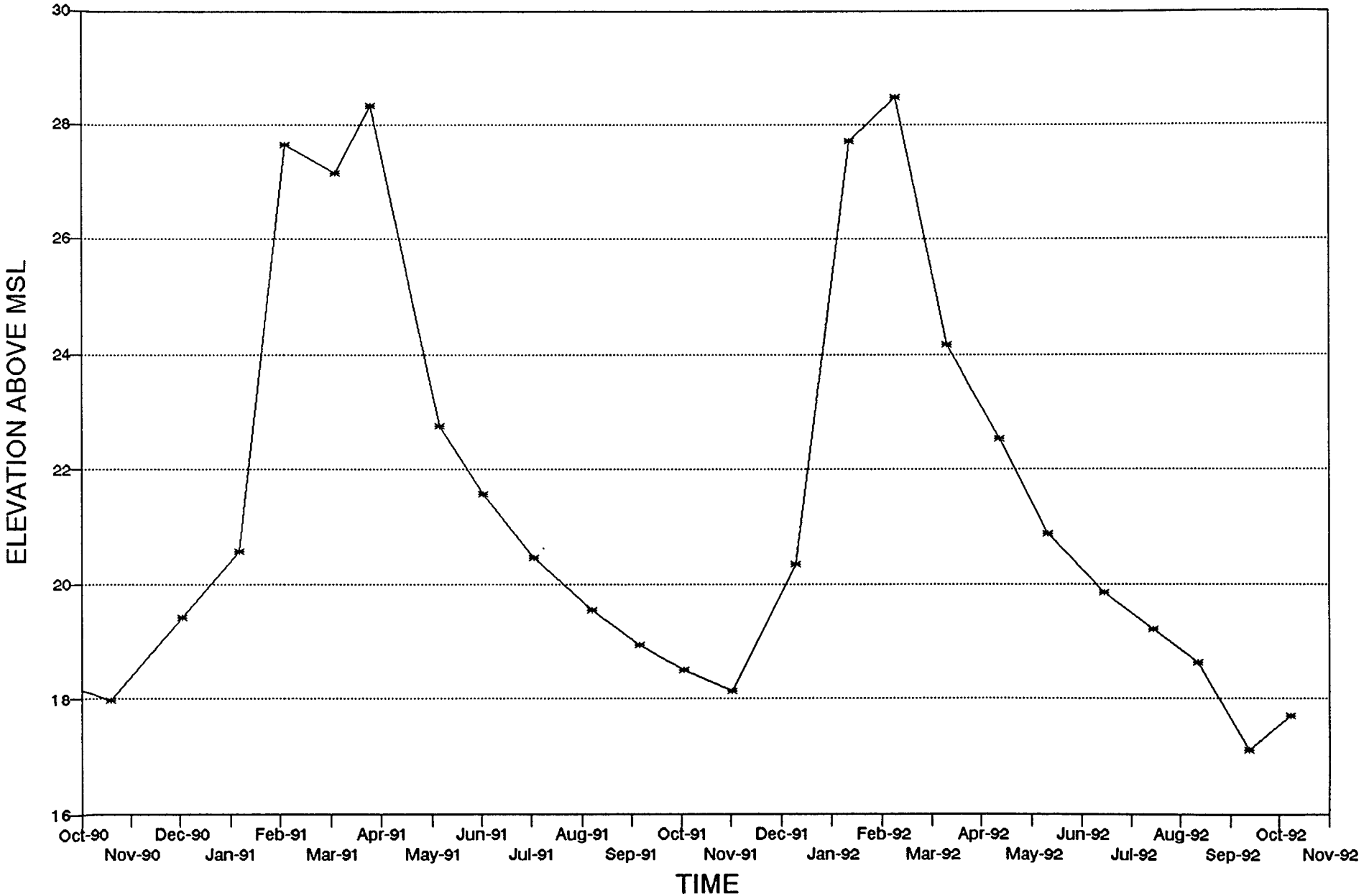
GROUNDWATER ELEVATION VS. TIME
MONITORING WELLS #7, B105, B108



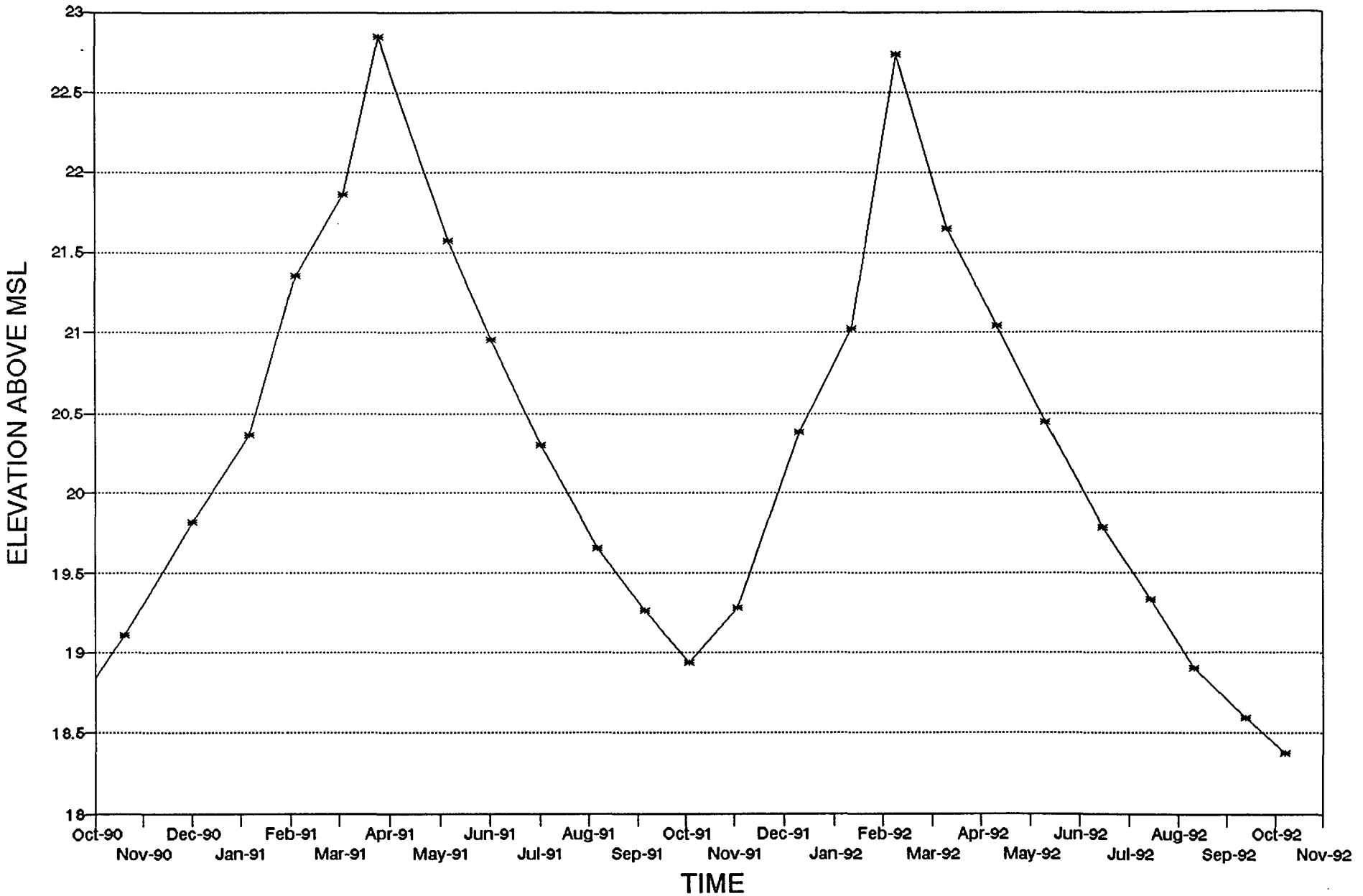
GROUNDWATER ELEVATION VS. TIME
MONITORING WELL #1



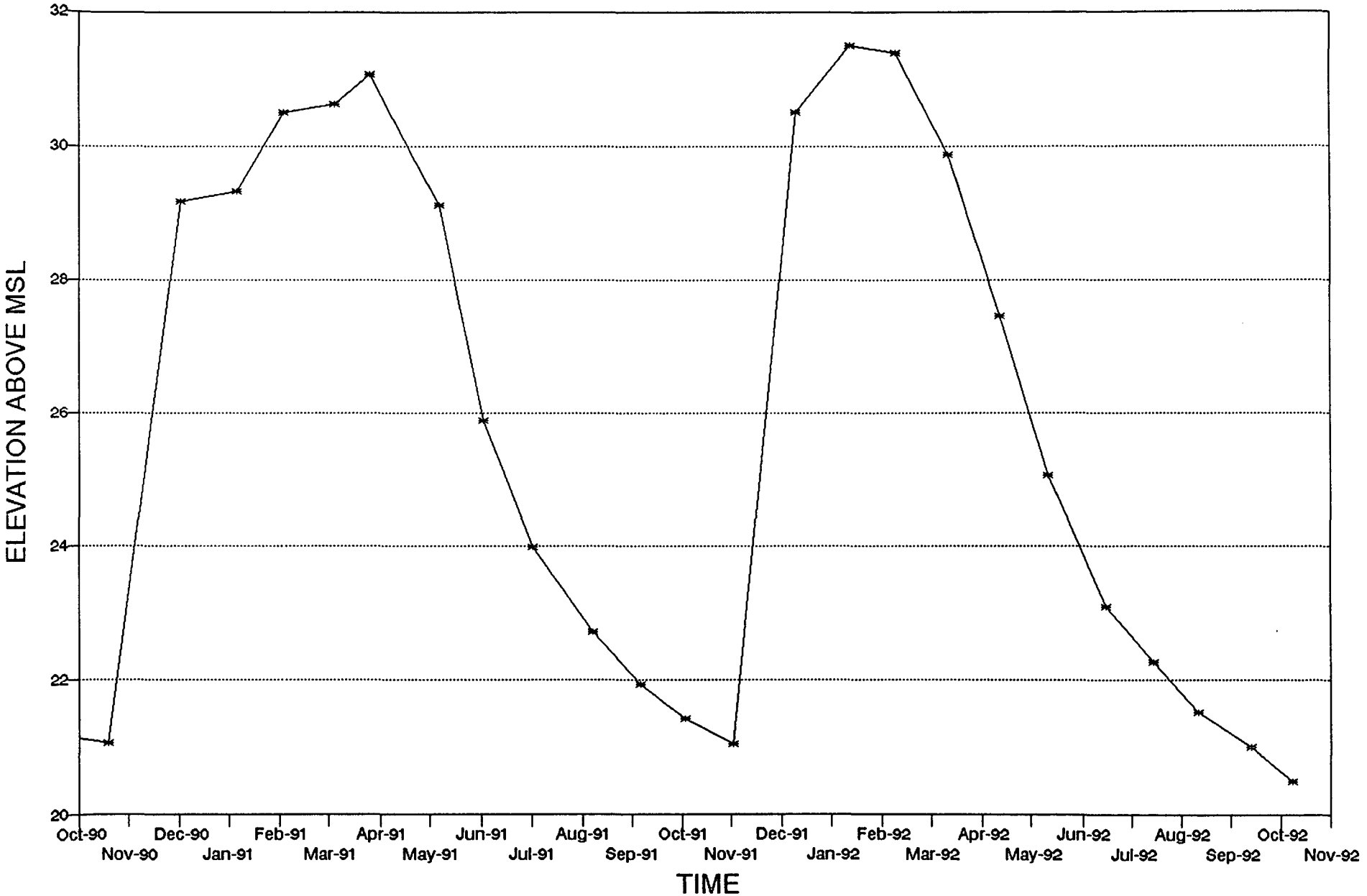
GROUNDWATER ELEVATION VS. TIME
MONITORING WELL #2



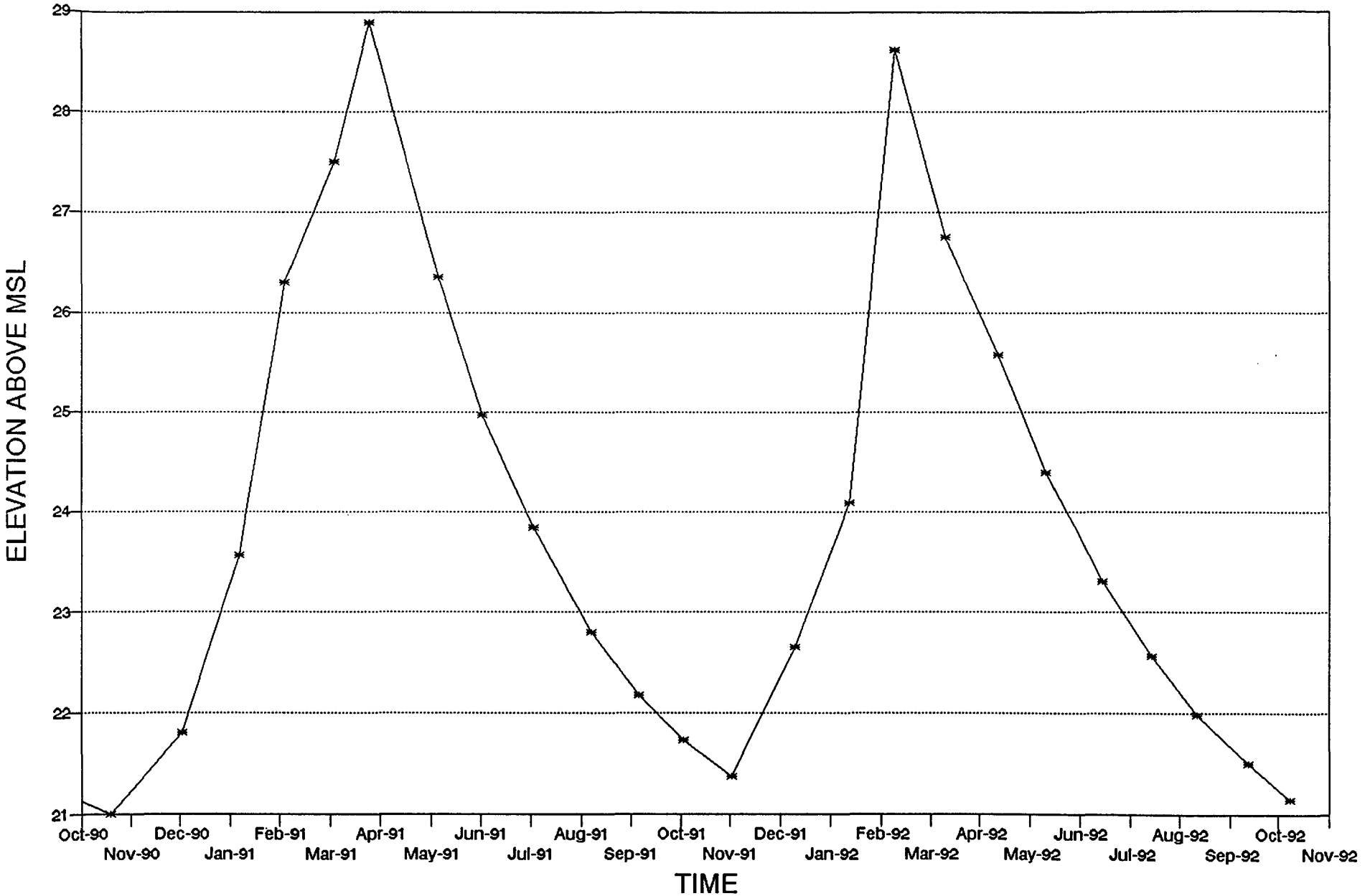
GROUNDWATER ELEVATION VS. TIME
MONITORING WELL #3



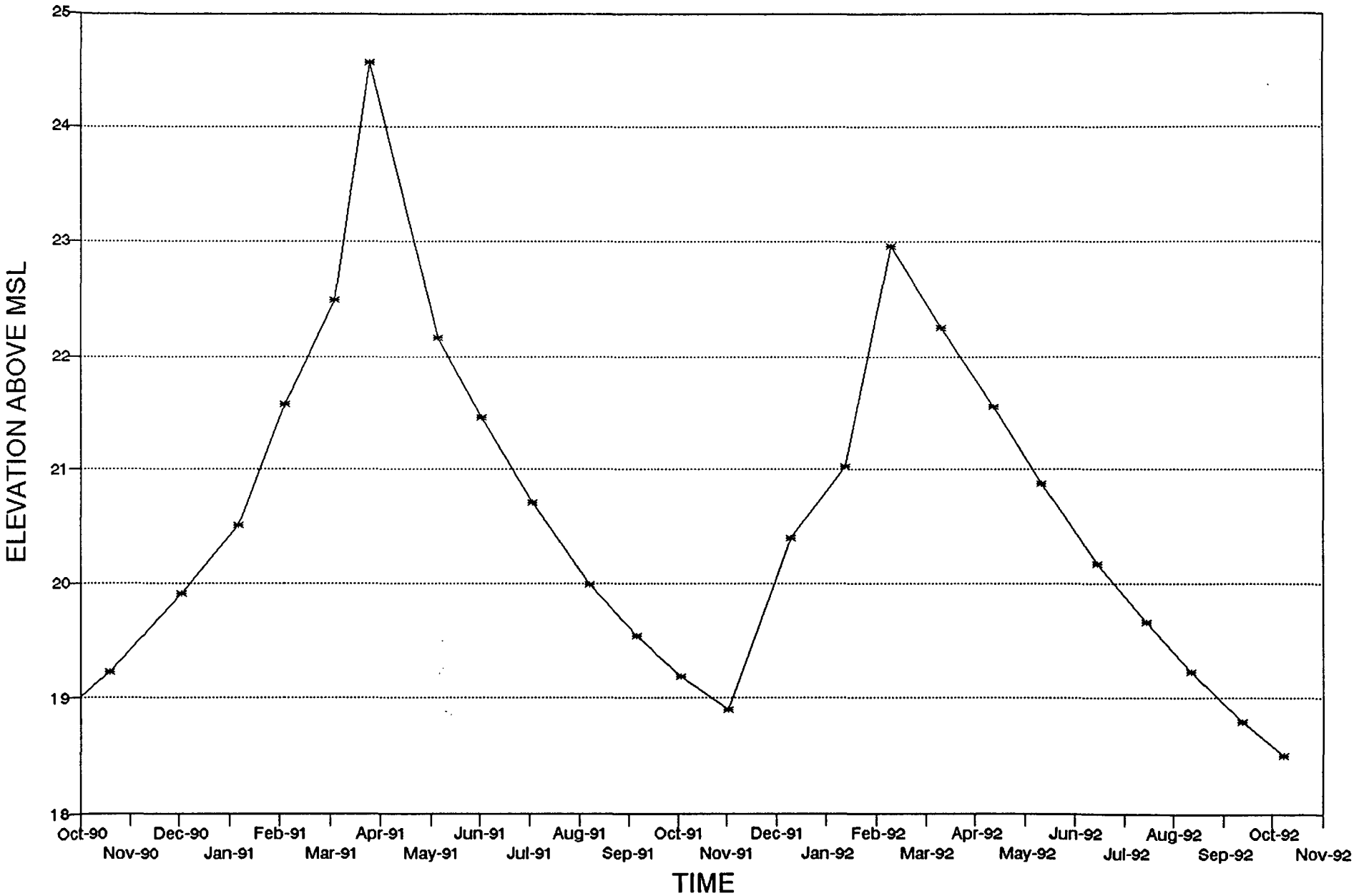
GROUNDWATER ELEVATION VS. TIME
MONITORING WELL #4



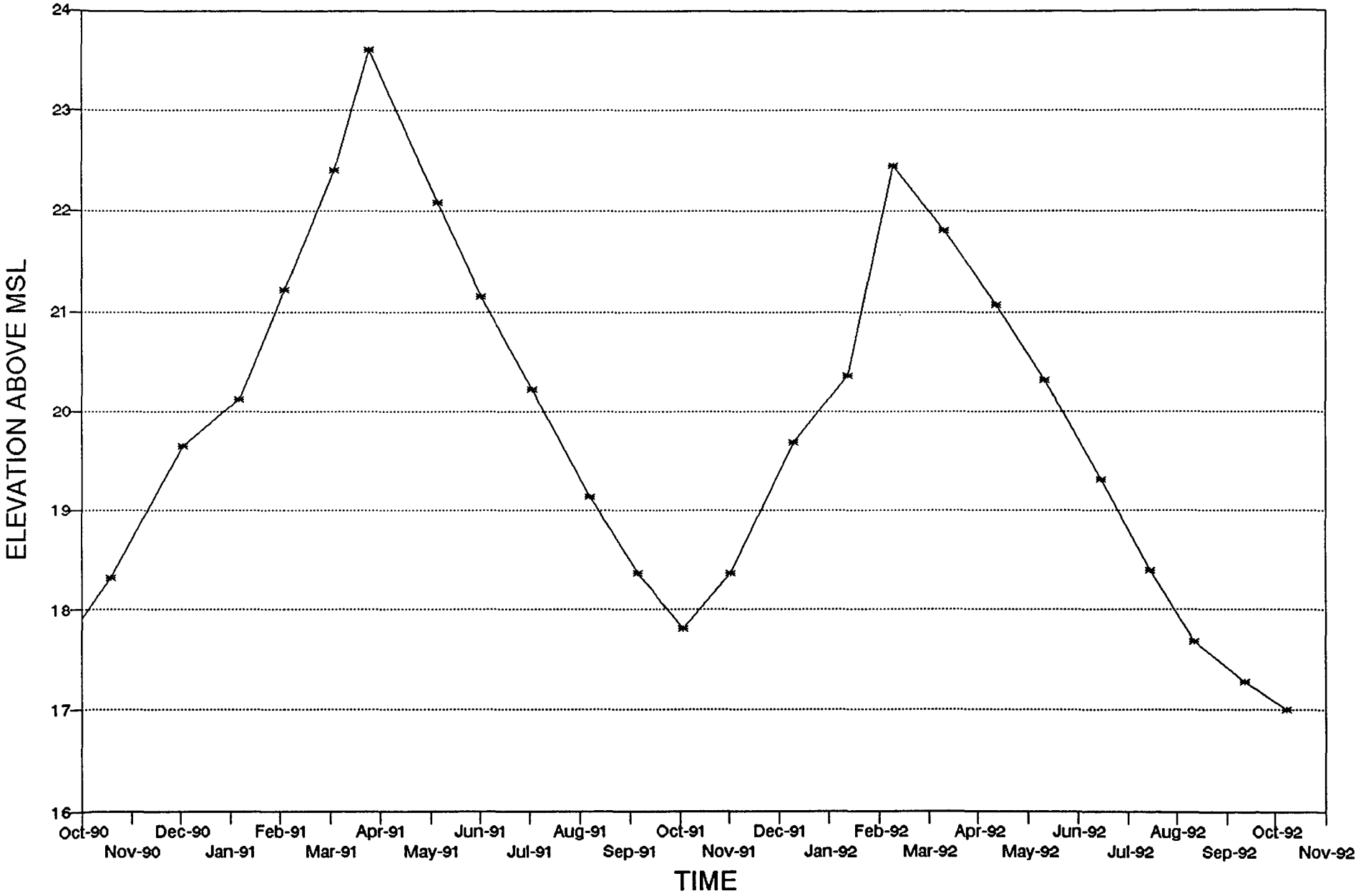
GROUNDWATER ELEVATION VS. TIME
MONITORING WELL #5



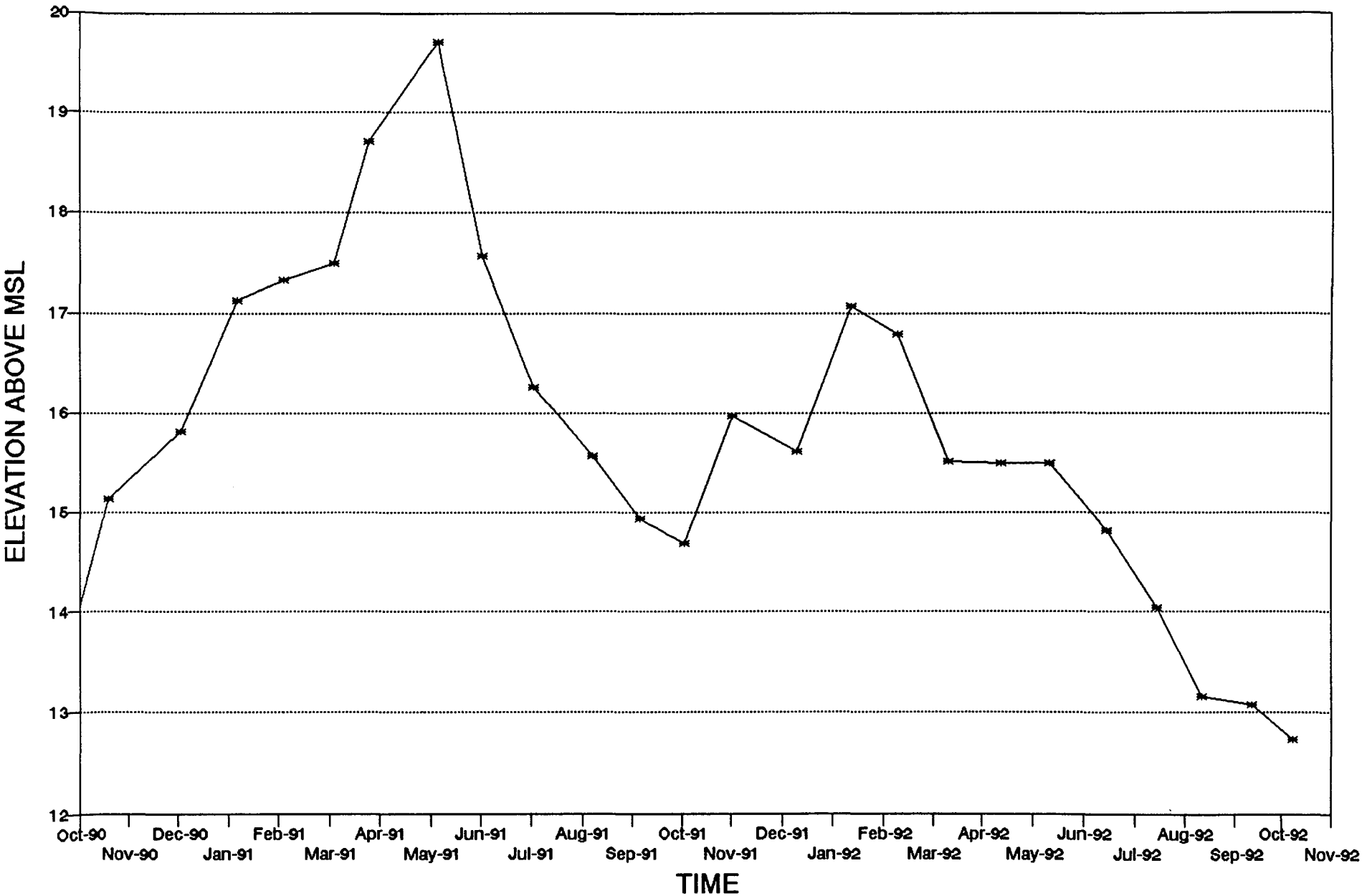
GROUNDWATER ELEVATION VS. TIME
MONITORING WELL #6



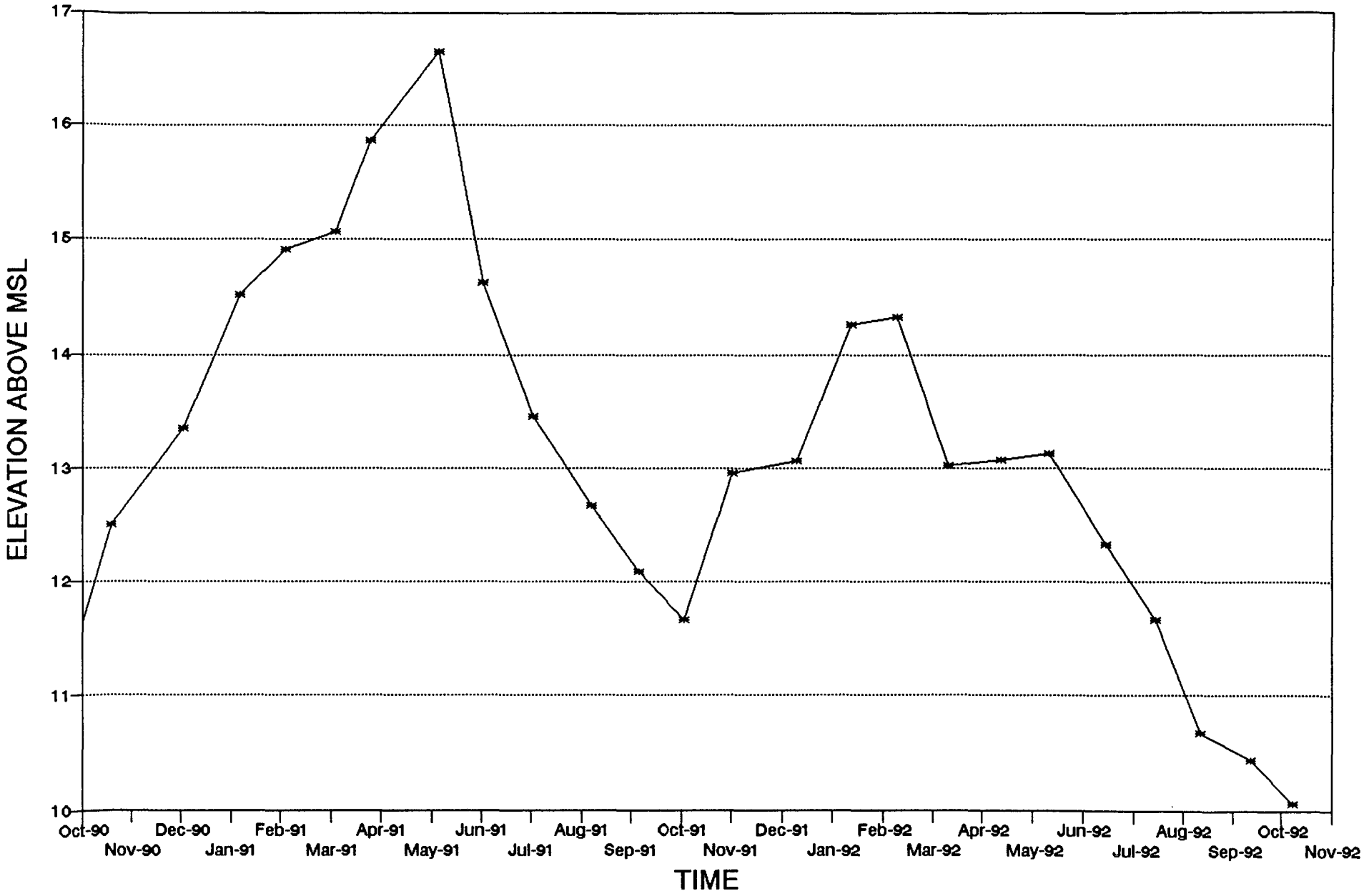
GROUNDWATER ELEVATION VS. TIME
MONITORING WELL #7

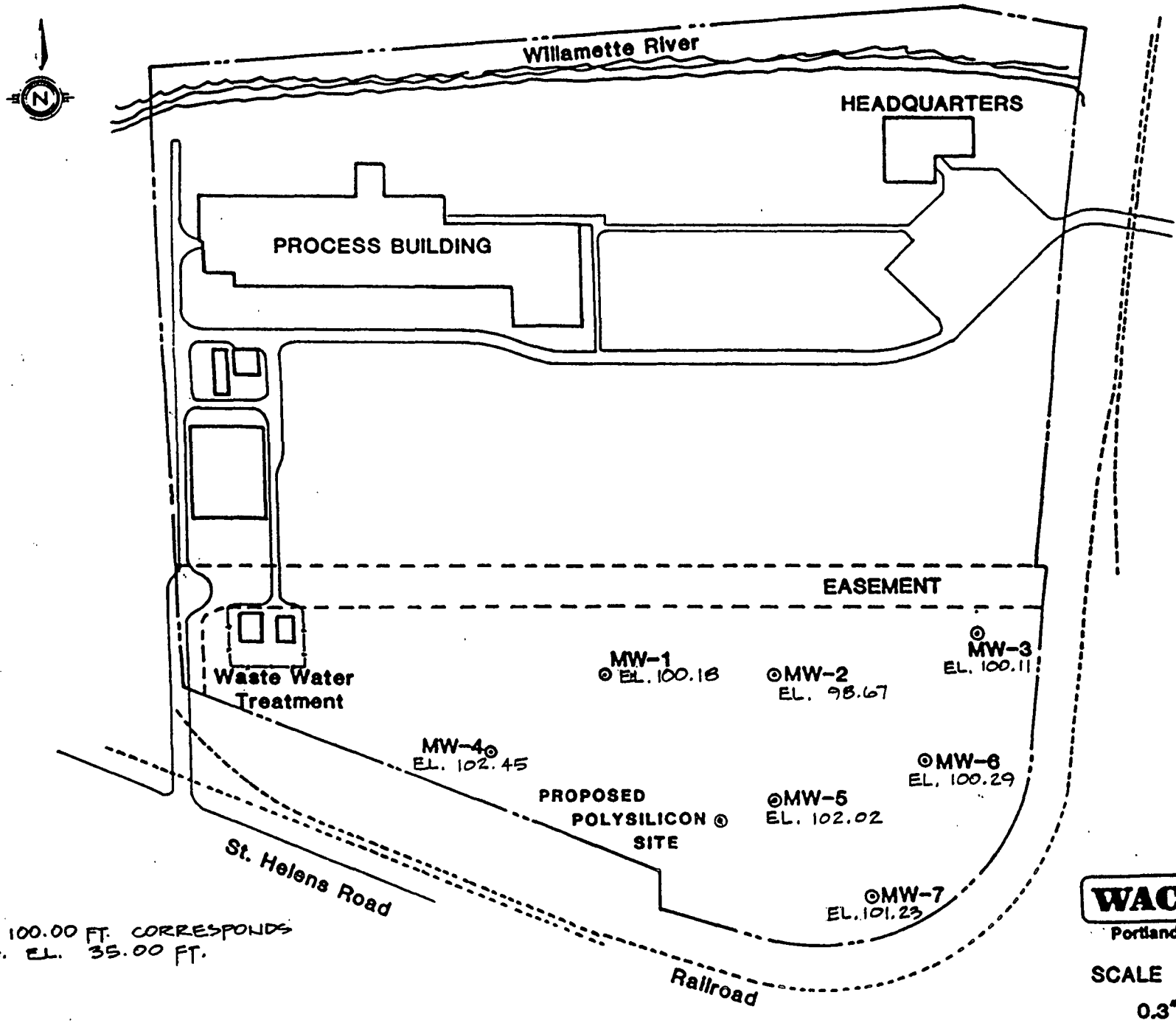


GROUNDWATER ELEVATION VS. TIME
MONITORING WELL B105



GROUNDWATER ELEVATION VS. TIME
MONITORING WELL B108





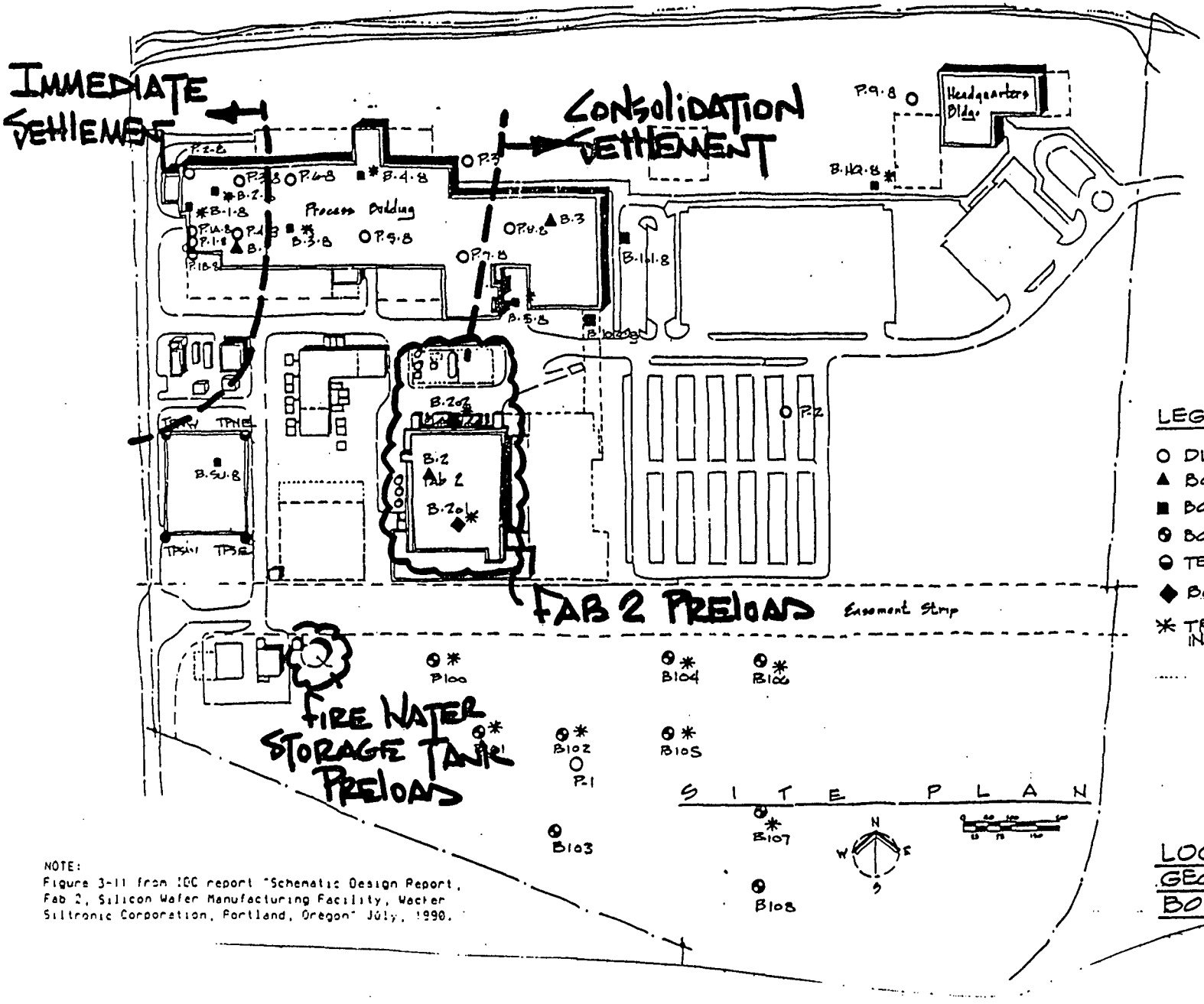
NOTE : EL. 100.00 FT. CORRESPONDS TO U.S.G.S. EL. 35.00 FT.

⊙ MONITORING WELL LOCATIONS

WACKER
Portland, Oregon

SCALE
0.3" = 100'
1" = 333'

Figure 1 - MONITORING WELL LOCATIONS ON PROPOSED POLYSILICON SITE



NOTE:
Figure 3-11 from IDC report "Schematic Design Report, Fab 2, Silicon Wafer Manufacturing Facility, Wacker Siltronic Corporation, Portland, Oregon" July, 1990.

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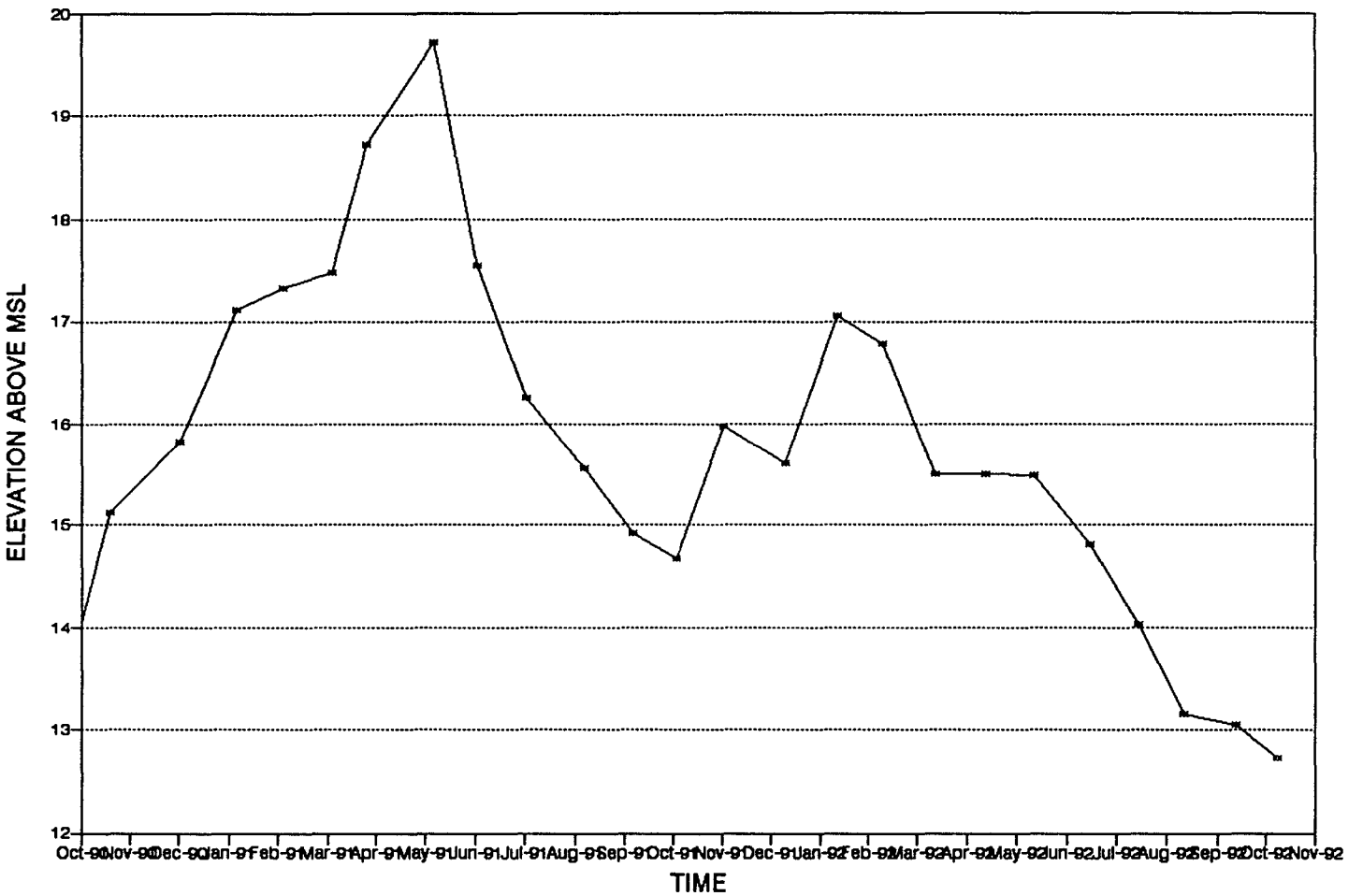
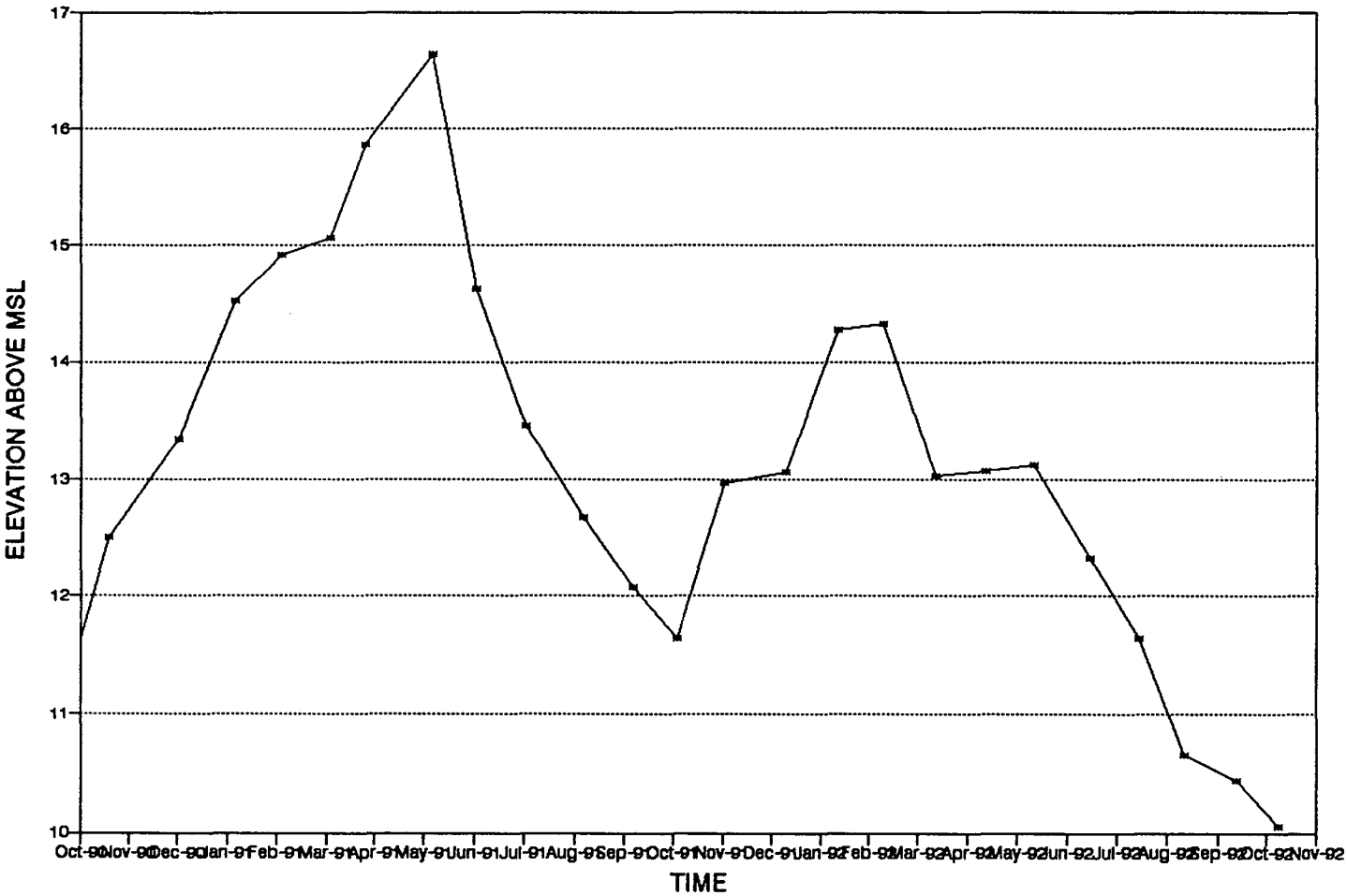
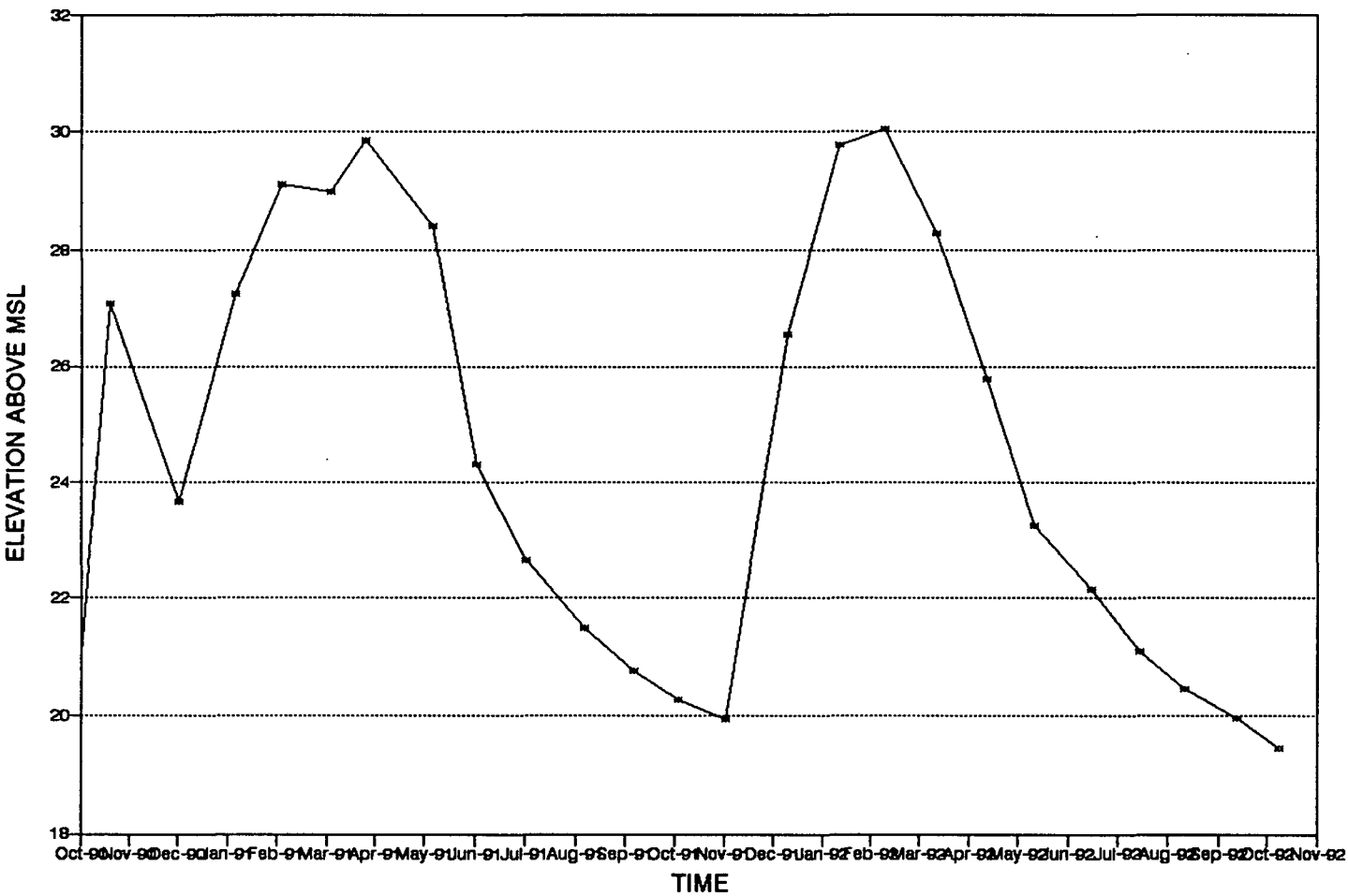
GROUNDWATER ELEVATION VS. TIME
MONITORING WELL B105



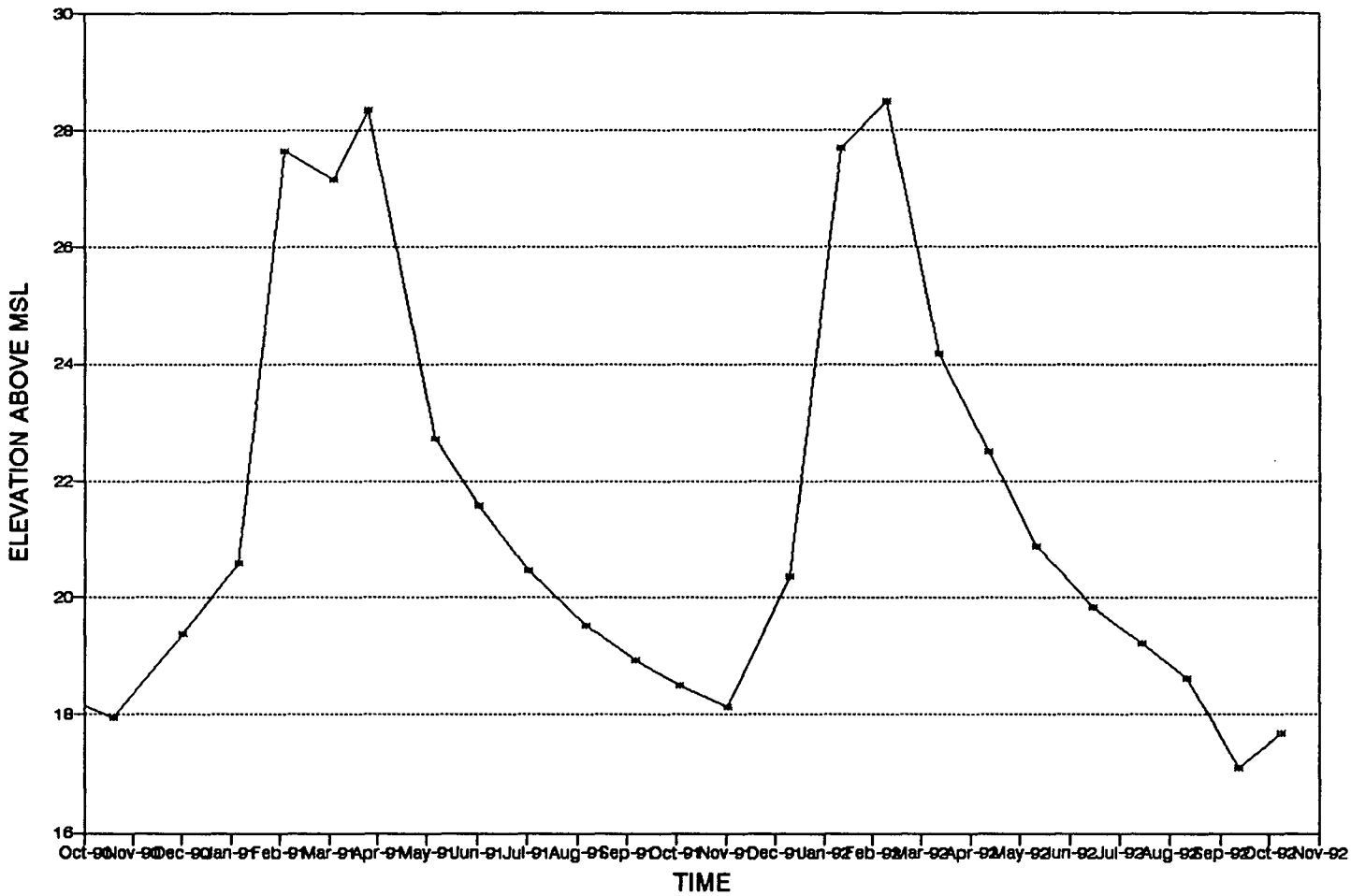
GROUNDWATER ELEVATION VS. TIME
MONITORING WELL B108



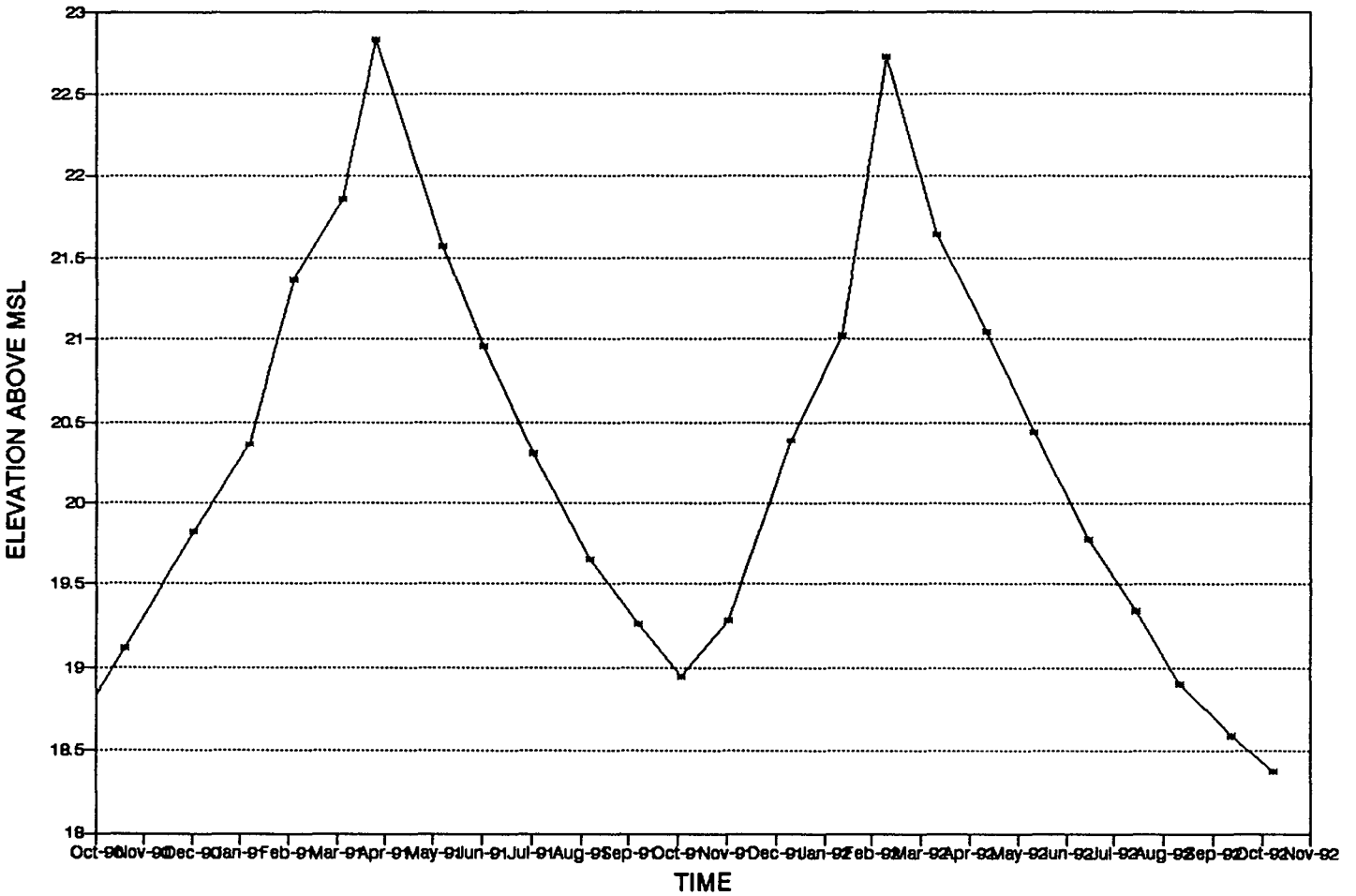
GROUNDWATER ELEVATION VS. TIME
MONITORING WELL #1



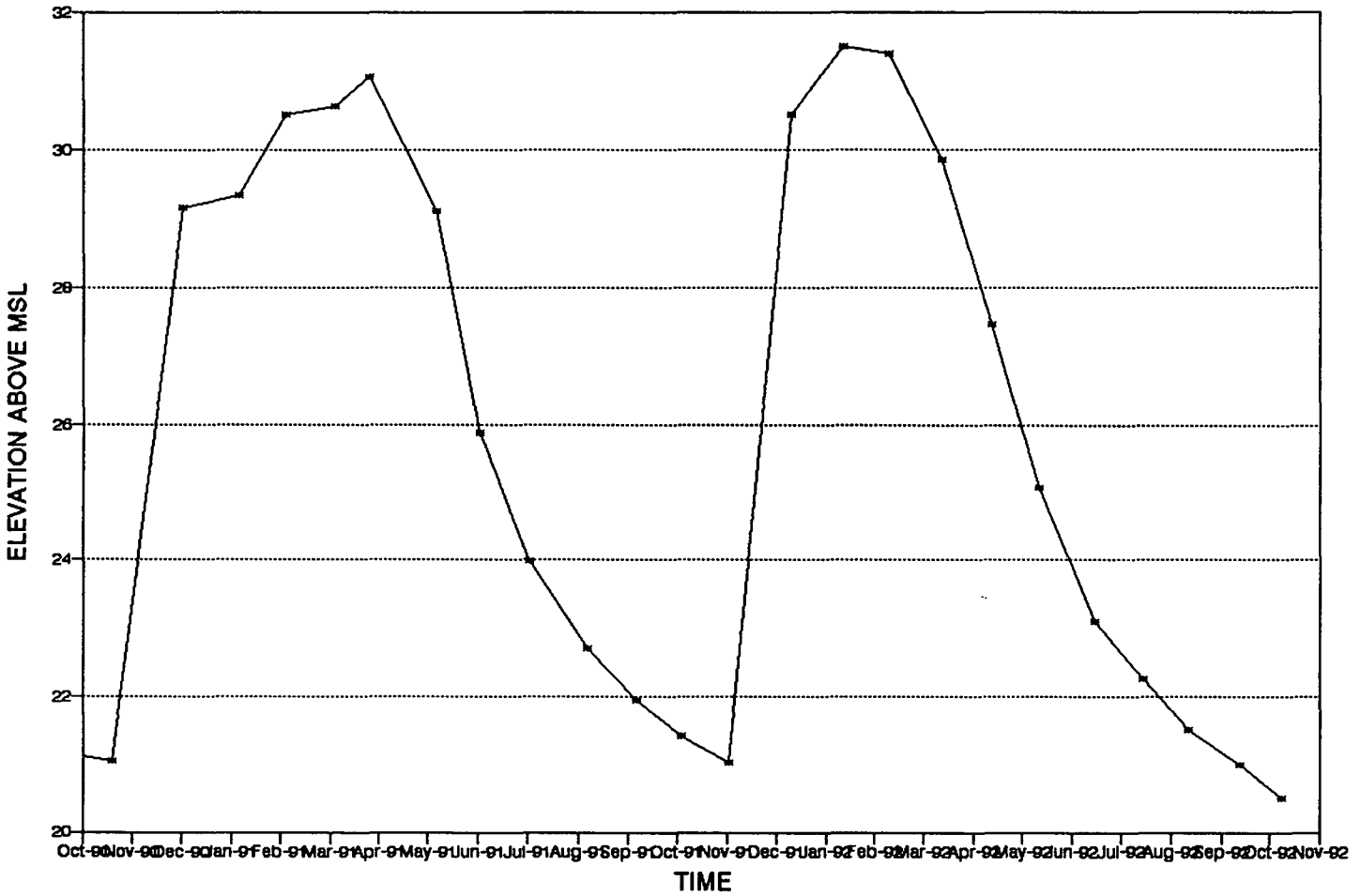
GROUNDWATER ELEVATION VS. TIME
MONITORING WELL #2



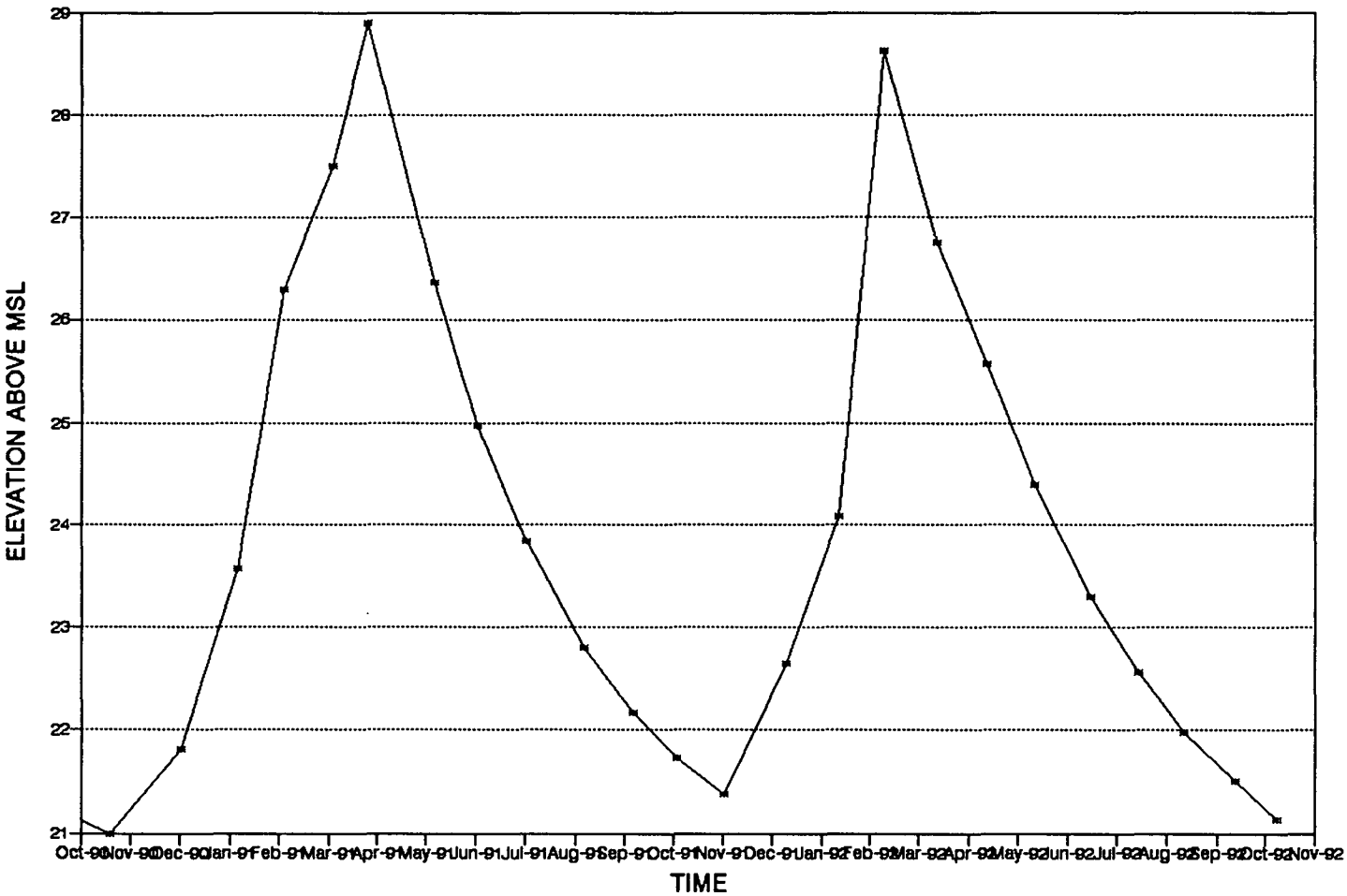
GROUNDWATER ELEVATION VS. TIME
MONITORING WELL #3



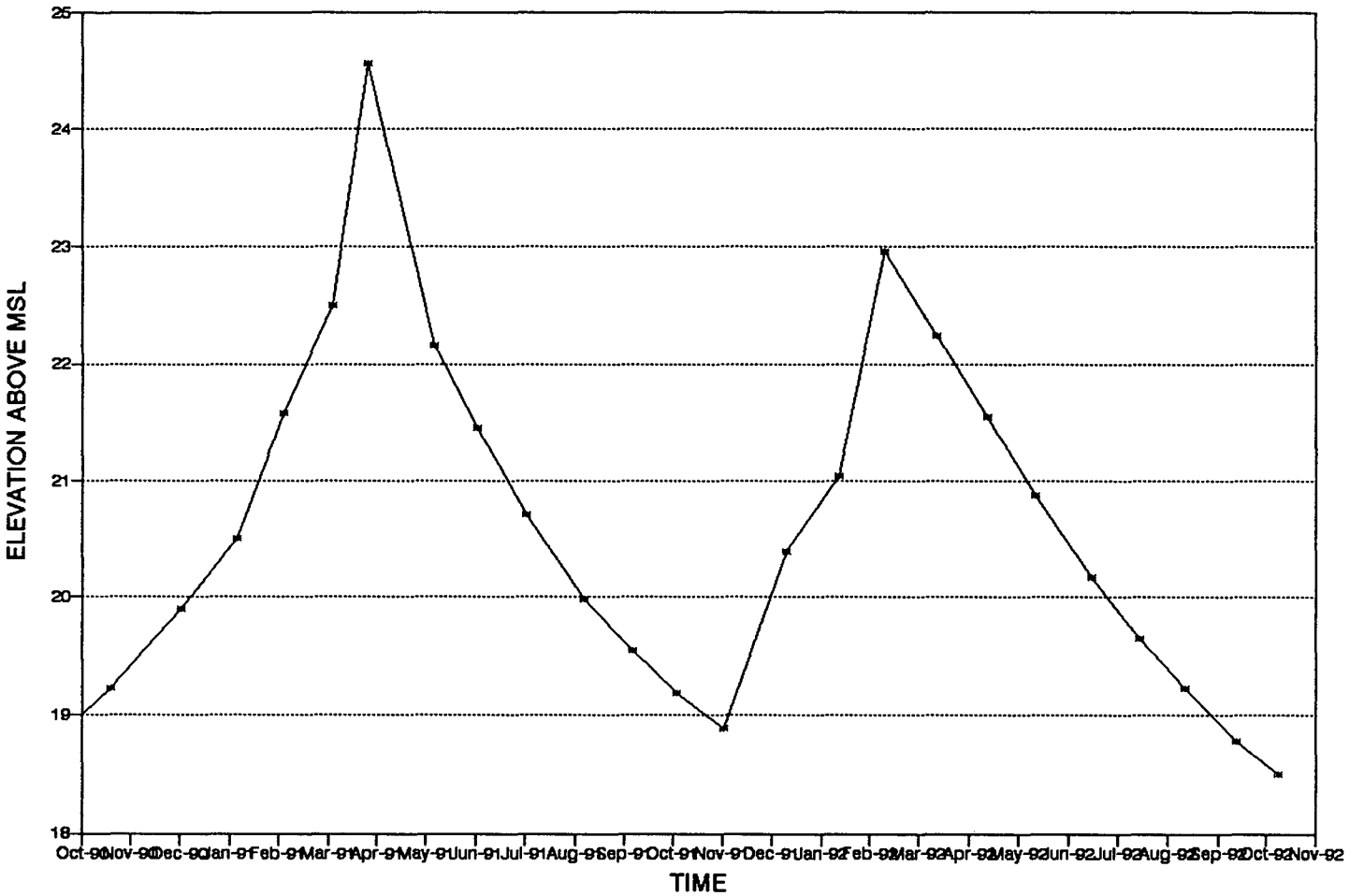
GROUNDWATER ELEVATION VS. TIME
MONITORING WELL #4



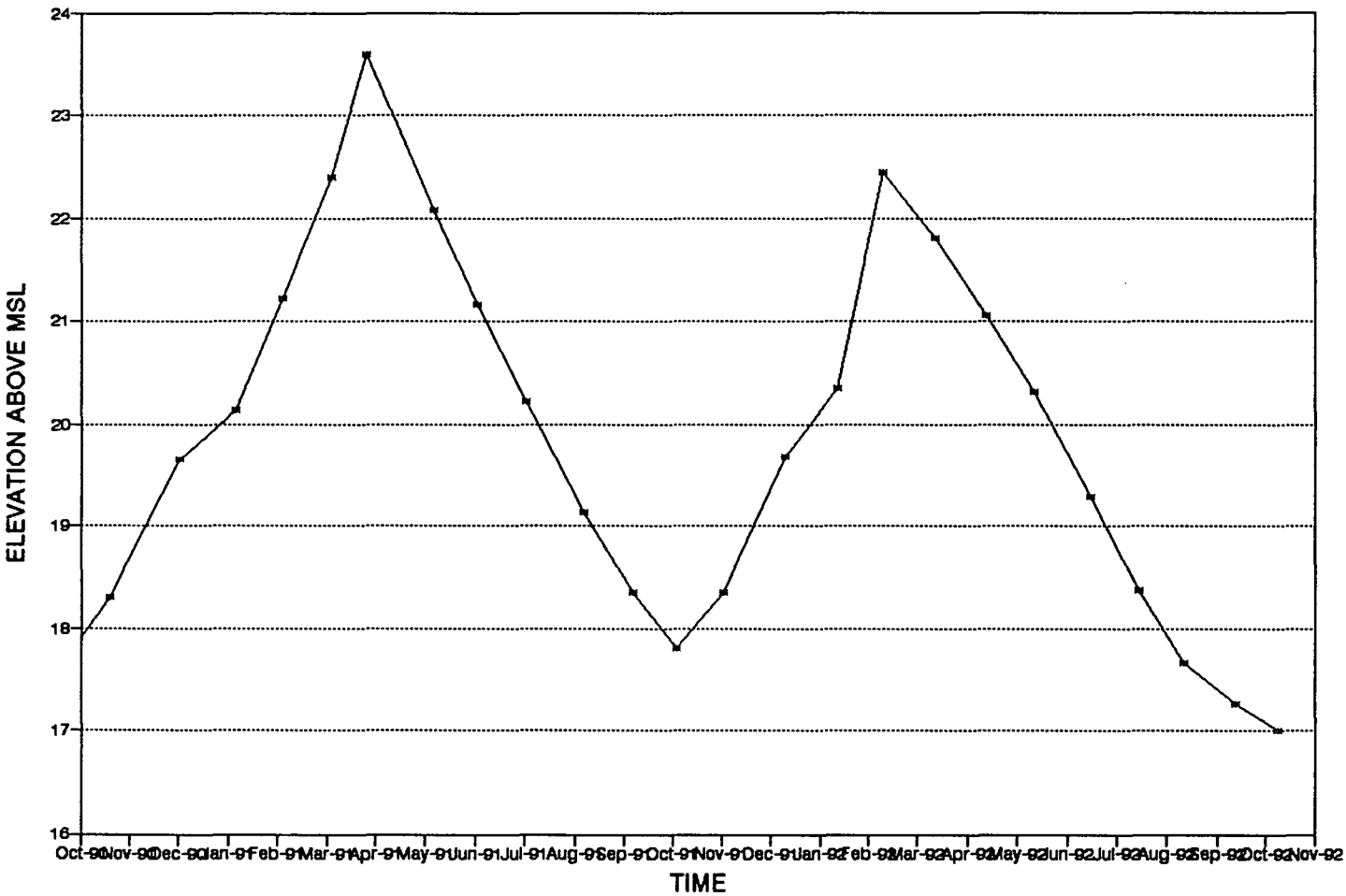
GROUNDWATER ELEVATION VS. TIME
MONITORING WELL #5



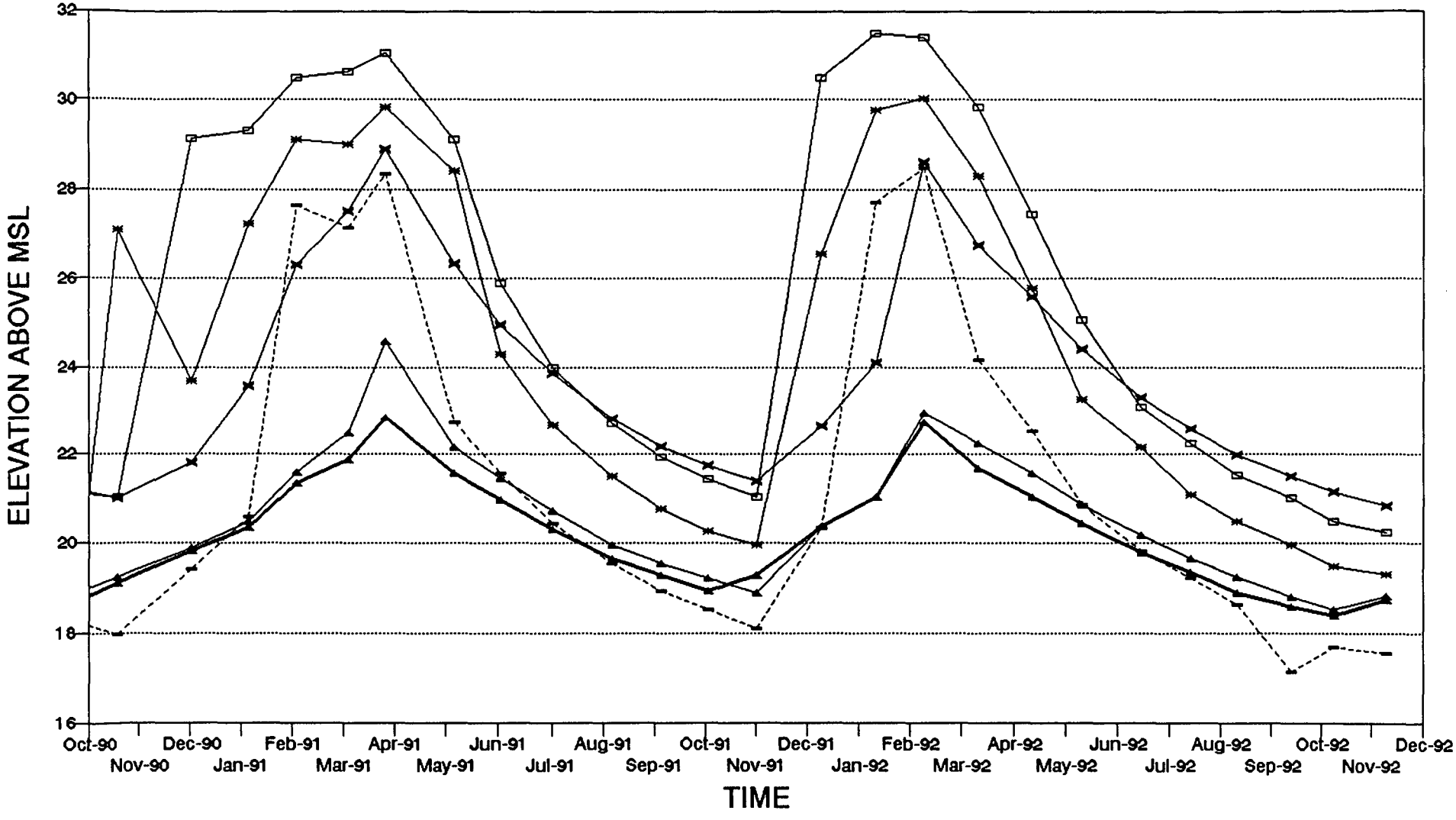
GROUNDWATER ELEVATION VS. TIME
MONITORING WELL #6



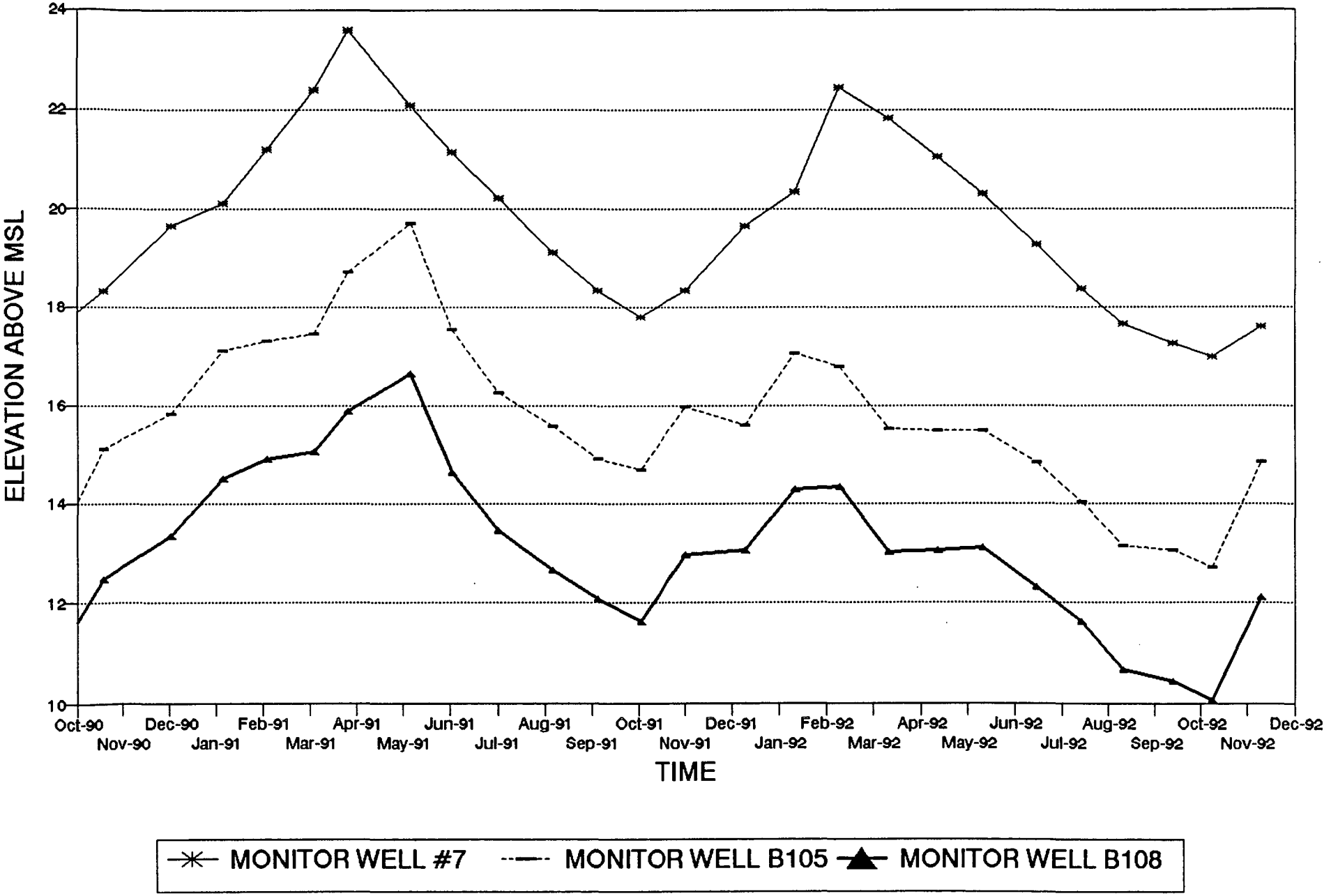
GROUNDWATER ELEVATION VS. TIME
MONITORING WELL #7



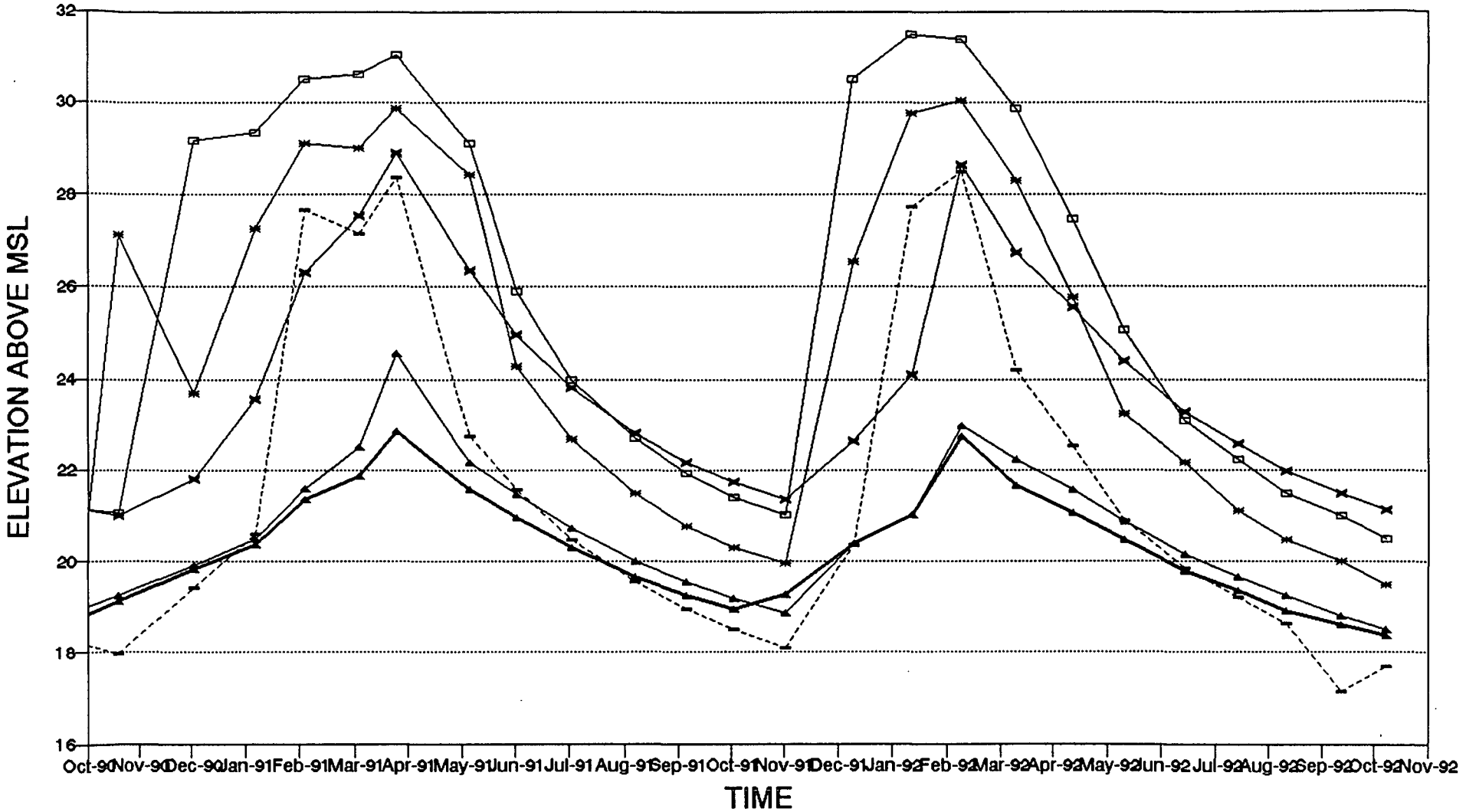
GROUNDWATER ELEVATION VS. TIME
MONITORING WELLS #1-6



GROUNDWATER ELEVATION VS. TIME
MONITORING WELLS #7, B105, B108

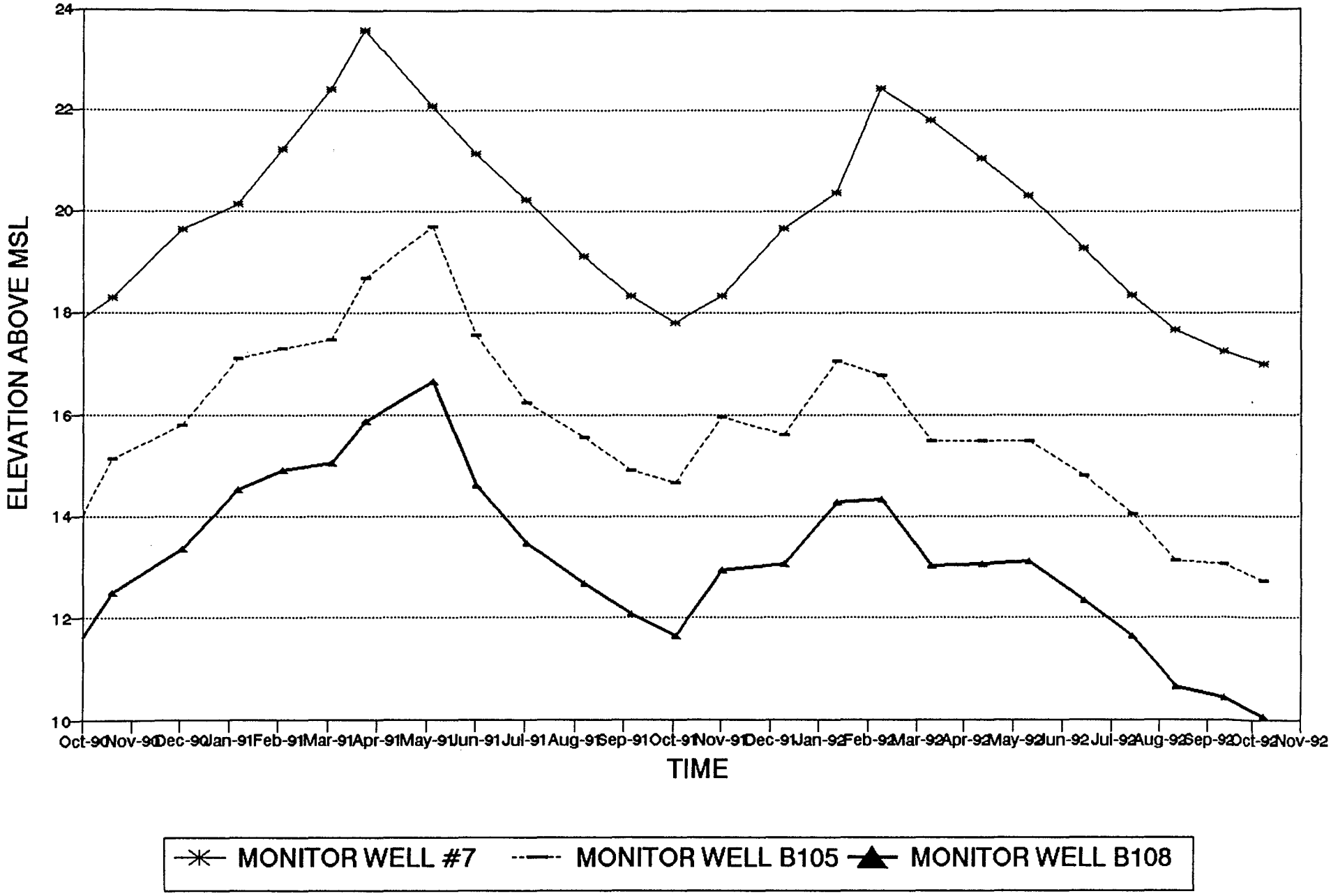


GROUNDWATER ELEVATION VS. TIME
MONITORING WELLS #1-6

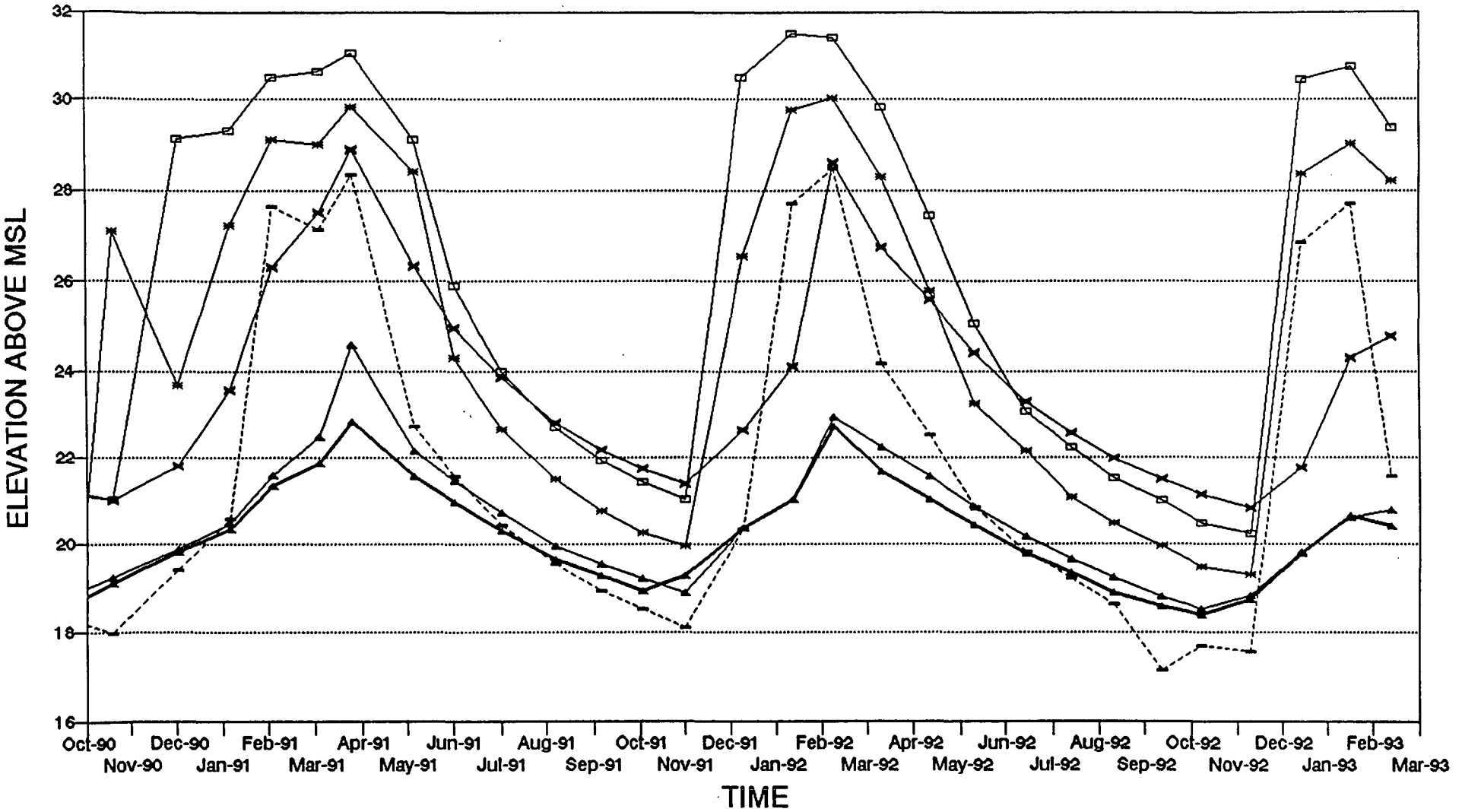


MONITORING WELL #1 — MONITORING WELL #2 — MONITORING WELL #3
MONITORING WELL #4 — MONITORING WELL #5 — MONITORING WELL #6

GROUNDWATER ELEVATION VS. TIME
MONITORING WELLS #7, B105, B108



GROUNDWATER ELEVATION VS. TIME
MONITORING WELLS #1-6



MONITORING WELL #1 — MONITORING WELL #2 — MONITORING WELL #3
MONITORING WELL #4 — MONITORING WELL #5 — MONITORING WELL #6

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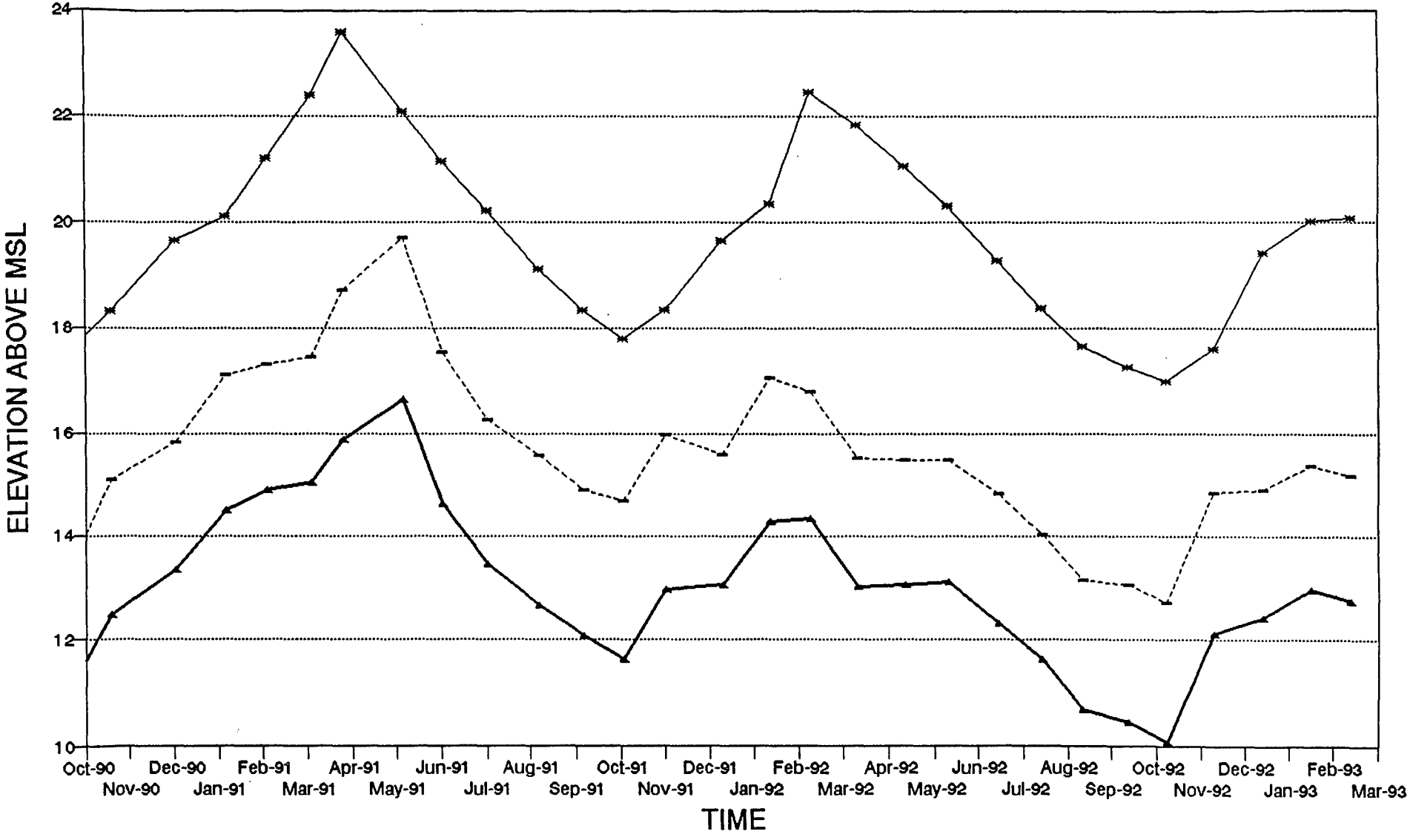
GROUNDWATER ELEVATION VS. TIME
MONITORING WELLS #7, B105, B108



Engineers
Planners
Economists
Scientists

Portland Office

September 18, 1995

116112.CF.ZZ

Mr. Steve Beiswenger
Wacker Siltronic Corporation
P.O. Box 83180
Portland, OR 97283

Subject: Open Standpipe Piezometer Abandonment (SB-2-95)

Purpose

The purpose of this letter is to document our understanding of the procedures used for abandonment of monitoring well SB-2-95 which was located at the Wacker Siltronic Corporation (WSC) facility in Portland, Oregon.

Background

CH2M HILL was retained in 1995 to perform a geotechnical exploration for the proposed Forwarding Sump of the Central Facilities Expansion. As a portion of this exploration, two soil borings were advanced on March 18, 1995 to evaluate subsurface conditions. At the completion of boring advancement, the holes were filled with bentonite chips from the bottom of the hole to 25 feet below existing grade. An open standpipe piezometer was then constructed in each borehole to a maximum depth of 25 feet below grade for the purpose of observation of groundwater levels. The open standpipe piezometers were constructed by Geo-Tech Explorations, Inc. of Tualatin, Oregon. A site plan is attached that shows the approximate locations of the soil borings. Additionally, a copy of the actual field logs, the simplified subsurface conditions and the open standpipe piezometer construction log for boring SB-2-95 is attached.

Discussion

At the time of advancement, the soil borings were classified as geotechnical holes by Oregon Department of Water Resources regulations. The standard of practice for abandonment of a geotechnical hole at that time was to backfill the hole with bentonite chips. This procedure was performed in the lower portions of the holes between the maximum depth drilled and 25 feet below the existing ground surface, prior to construction of the open standpipe piezometers.

Serving Oregon and Southwest Washington from two locations:

Portland Office	***825 N.E. Multnomah, Suite 1300, Portland, OR 97232-2146***	***503.235.5000***	***503.235.2445 FAX***
Corvallis Office	*2300 NW Walnut Blvd., Corvallis, OR 97330-3538*	*503.752.4271*	*503.752.0276 FAX*

SCOEPA00025542

On April 26, 1995, CH2M HILL recieved a phone call from Steve Beiswenger of Wacker Siltronic Corporation, to discuss abandonment of the open standpipe piezometer within the plan view area of the forwarding sump (piezometer SB-2-95). Because the piezometer was not used as a water sampling well, the Oregon Department of Water Resources regulations did not require it to be abandoned by a licensed water well driller. However, because of regulation changes that were to take effect in July 1995, it was discussed that it would be prudent to grout the pipe using tremie methods. This method of abandonment, although not required, would comply with the new Oregon Department of Water Resources regulations and is effective in preventing vertical groundwater migration. It was determined that grouting of the bottom 5 feet of the piezometer (from 25 to 20 feet below the ground surface) was sufficient because construction of the forwarding sump would require soil excavation to a depth of 20 feet. In a memorandum dated May 2, 1995, CH2M HILL recommended abandonment of the open standpipe piezometer using a cement grout mixture of six gallons of water per one sack of cement (one sack of cement equals 94 pounds). Copies of the phone conversation record and the May 2, 1995 memorandum are attached.

Abandonment of the open standpipe piezometer SB-2-95 was coordinated by Hoffman Construction Company. It is our understanding that the abandonment was performed by Geo-Tech Explorations, Inc., of Tualatin, Oregon using the methods discussed above.

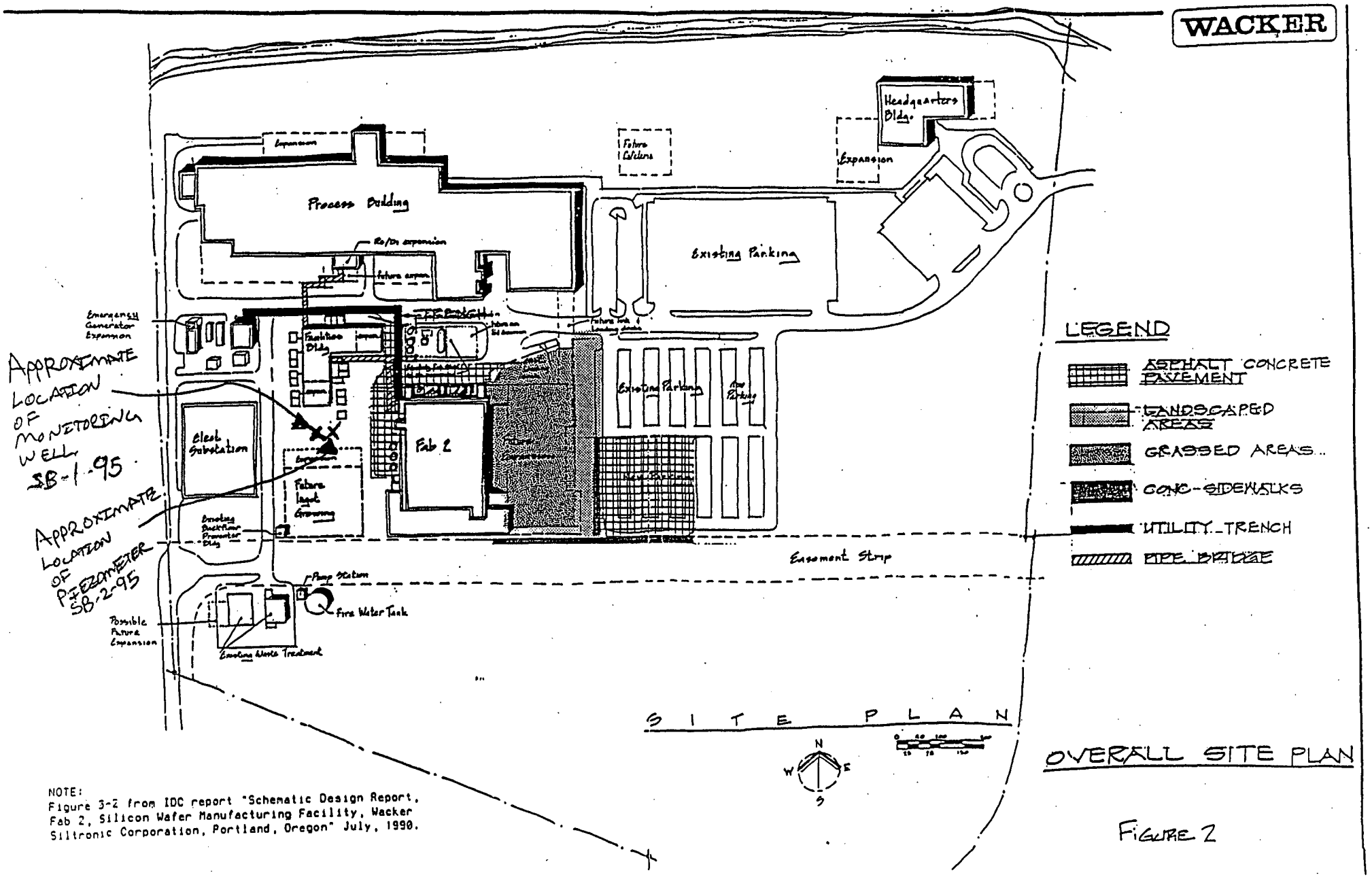
If you have any questions or comments regarding this letter or, if we may be of further service, please do not hesitate to call me at (503) 235-5022 ext. 4496.

Sincerely,

CH2M HILL

Richard G. Crim, P.E.
Project Manager

c: Bill Matsukado/IDC
Chip Bloomer/WSC
Todd Cotten/CH2M HILL



OVERALL SITE PLAN

NOTE:
Figure 3-2 from IDC report "Schematic Design Report, Fab 2, Silicon Wafer Manufacturing Facility, Wacker Siltronic Corporation, Portland, Oregon" July, 1990.

FIGURE 2

CH2MHILL

PROJECT NUMBER	BORING NUMBER	SHEET	OF
OPE 39435.CF	S-B-2	1	2

SOIL BORING LOG

PROJECT WACKER SILTRONIC CORP. LOCATION ≈ CENTER OF SUMP BOUNDARY

ELEVATION ≈ 36 FT 1 FT ABOVE S-B DRILLING CONTRACTOR GEO-TECH EXPLORATIONS, TUALATIN, OR

DRILLING METHOD AND EQUIPMENT MOBILE DRILL B59 4.25" I.D. HOLLOW STEM AUGER

WATER LEVELS _____ START 3/16/95 FINISH _____ LOGGER T. COTTEN.

DEPTH BELOW SURFACE (FT)	SAMPLE INTERVAL	SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (FT)	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
						STARTED HOLE 16:10
						DRILLER NOTES ONLY 6" GRAVEL CUTTINGS. DARK BROWN SILTY MATERIAL. - WET.
5	5.0					
	7.0	1-ST	1.5		POORLY GRADED SAND (SP) BROWN-GRAY, ~~DRY~~ SL. MOIST.	DRILLER NOTES: MEDIUM FIRM PUSH.. TUBE BENT AND DENTED.
	BS	2-S	1.4	16-13-17 (30)	POORLY GRADED SAND (SP) GRAY, SL. MOIST, MEDIUM, 10-20 SIEVE SIZE SAND. TRACES OF GRAVEL	
10	10.0					
	11.5	3-S	1.4	7-7-15 (22)	UPPER 15" SAME AS ABOVE - NO GRAVEL. TIP ~~MORE SILTY~~ ~~GRAVEL WITH SILT~~ SILTY GRAVEL (GM) GRAY, MOIST, DENSE. ~~FINE~~	LAST 1" SOIL GOT MUCH DENSER. 1" IN 5 BLOWS.
						13.5' ~~HIT~~ HIT SOME ROCKS. STILL IN ROCKS @ 15' (GRAVELS)
	15.0					
	TIP	4-S	0.8	12-9-4 (13)	POORLY GRADED GRAVEL (GP), GRAY, WET, MEDIUM UPTO 1" - ANGULAR.	3" SPOON TO ATTEMPT TO GET BETTER RECOVERY. - WATER IN ROD WATER LEVEL @ 15'
						CHATTER @ 18.5' DRILLER NOTES STILL IN GRAVELS @ 20'
20	20.0					
	21.5	5-S	0.6	22-9-8 (17)	SILT (ML), DARK GRAY, WET, IN TIP (3-4") UPPER MATERIAL GRAVEL UPTO 1/2" MAY BE SLOUGH.	- MAY HAVE GOTTEN INTO SILT. LAST 2" INCHES. - NORMAL SPOON. - SPOON COVERED IN BLACK OIL
		6-ST				DRILLER TAGGED WATER @ 13.5' 16:40. OVM = 0.3 PPM BH
20						
	21.5					
22.5	18.5	6-ST	0.4		POORLY GRADED SAND (SP), DARK GRAY, MOIST,	BLACK OILY LIQUID CAME UP ROD DURING PUSH PUSHED 1' STOPPED PUSH TOO HARD.
						CONTAMINATION FROM 20' BENT SPOON

SCOEPA00025545

CRA HILL

PROJECT NUMBER	BORING NUMBER	SHEET	OF
OPE 39435.CF	S-B-2	2	2

SOIL BORING LOG

PROJECT WACKER SILTRONIC CORP LOCATION ≈ CENTER OF SUMP LOCATION.

ELEVATION _____ DRILLING CONTRACTOR GEO-TECH EXPLORATIONS, TUALATIN, OR

DRILLING METHOD AND EQUIPMENT MOBILE DRILL B-59, 4¼" I.D., 8" O.D. HOLLOW STEM AUGER

WATER LEVELS _____ START 3/18/95 FINISH _____ LOGGER T. COTTEN

DEPTH BELOW SURFACE (FT)	SAMPLE INTERVAL	SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (FT)	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
20						RUSH DRILLING TO 23 SMOOTH TO 25' THEN A LITTLE CHATTER
25	25.0 / 26.5	7-S	1.5	2-3-3 (6)	SILT (ML) DARK GRAY, MOIST, FIRM; LENSES OF POORLY GRADED SAND UP TO 2" THICK.	HELPER NOTES CONTAMINANTS ARE STICKY - NOT SLICK AS WAS CASE FOR S-B-1. NOT CREOSOTE. PP=0.75 TV
	28.5	8-ST	2.0		SILT (ML), BLUE-GRAY, MOIST, SOFT.	EASY PUSH NOTED BY DRILLER LAST 2" A LITTLE FIRMER. DRILLER NOTES: SAME MATERIAL - BEST ST
30	30.0 / 31.5	9-S	1.5	6-6-5 (11)	SAME AS ABOVE. EXCEPT - FIRM.	OVM= 0.3 PPM BZ PP=1.5
						DRILLER NOTES SAME STUFF - (SILT).
35	35.0 / 37.0	10-S	2.0		SILT. ~~SAM~~ SIMILAR TO 9-S. EXCEPT SOFT.	SOFT PUSH.
40	40.0 / 41.5	11-S	1.5	2-3-5 (8)	SILT (ML) SIMILAR TO ABOVE.	PP= 0.15 TSF OVM = 0.1 OF SOIL.
						END OF BOREHOLE @ 41.5' 41.5' @ 17:35 NO WATER LEVEL TAGGED TONIGHT. LEFT RIG ON SITE, LEFT AUGERS IN HOLE. TAGGED @ 13.5' 08:35 3/19/95

SCOEPA00025546

CH2MHILL

PROJECT NUMBER	BORING NUMBER S-B-2	SHEET 1 OF 1

SOIL BORING LOG

PROJECT WACKER SILTRONIC CORP. LOCATION

ELEVATION ≈35' DRILLING CONTRACTOR GEO-TECH EXPLORATIONS, TUALATIN, OR

DRILLING METHOD AND EQUIPMENT MOBILE DRILL B-59, HOLLOW STEM AUGER, 8¼" I.D. 12" O.D.

WATER LEVELS START 3/19/95 FINISH 3/19/95 LOGGER T. COTTEN

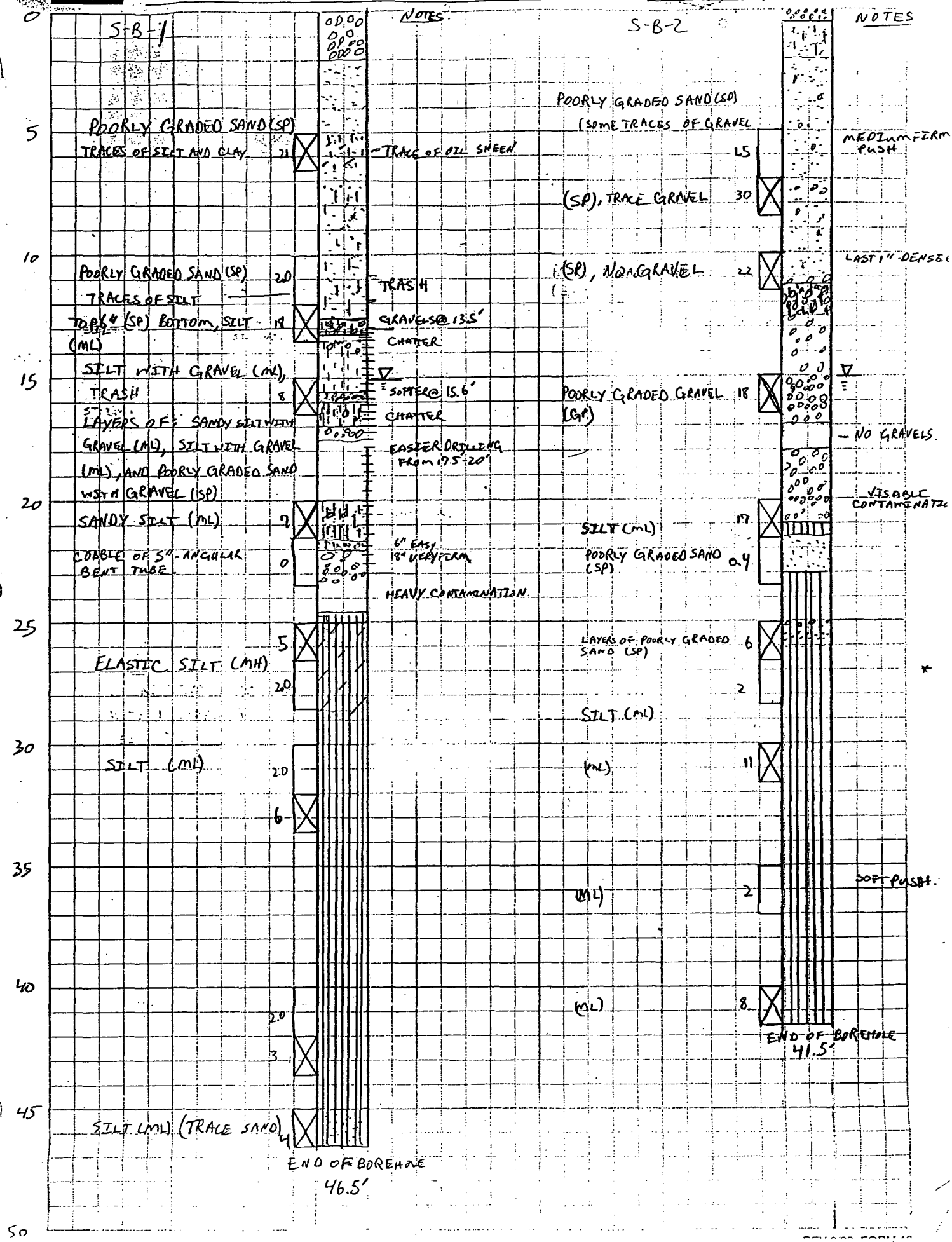
DEPTH BELOW SURFACE (FT)	SAMPLE: INTERVAL	SAMPLE: NUMBER AND TYPE	SAMPLE: RECOVERY (FT)	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION: SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS: DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS AND INSTRUMENTATION
0					WELL LOG. 23'-25' SUMP BLANK WITH CENTRALIZER 13'-23' 10 SLOT SCREEN. 0-13' BLANK WITH CENTRALIZER -NO HEAVE IN AUGER EVEN THOUGH NO WATER ADDED 7 BAGS SAND FROM 20-25' 6 BAGS 15'-20' 5 BAGS 11'-15'	DRILLERS ON HOLE @ 08:20 BACK FILL HOLE FROM 41.5' TO 25' WITH HOLE PLUG 6 BAGS HOLE PLUG. DRILLER NOTES EASY FIRST 5'
5					BEGAN DEVELOPING WELL @ 10:05. ENDED ADD 10:13.	EASY DRILL DRILLER NOTE: 7-7.5 LOOSEN EDUP. THEN GOT STIFFER AGAIN DRILLER NOTED POSSIBLE SAND LENSE
10					WHEN FINISHED SURGING WELL. SURGE BLOCK HAD BROKEN APART IN THE HOLE. WILL NEED TO FISH OUT. DRILLERS DO NOT HAVE ANOTHER SURGE BLOCK TO SURGE S-B-1 WITH. 10:20.	~~GRAVEL ROCKS FROM 10'-11'~~ DRILLER NOTES ROCKS (GRAVELS OR RIP RAP) FROM 11' TO 15' → STILL IN THIS MATERIAL
15					ADDED BENTONITE @ 10:15. FROM 12'-10' 5 BAGS. BENTONITE ADDED TO 1.5'	DRILLER NOTES: 17' TO 18' OUT OF ROCK. 18'-20' BACK INTO ROCKS.
20					16 BAGS BENTONITE BAGS USED. WATER TAGGED AT 9.25' @ 11:15	DRILL NOTES. BROKE OUT OF GRAVEL @ ≈ 21.5'. FELT LIKE A LAYER OF SAND BELOW ROCKS (21.5-25') → SOFT DRILLING.
25						

SCOEPA00025547

CH2M HILL

SUBJECT WACKER SILTRONIC CORP.
SUMP BORE LOGS.

BY T. COTTEN
SHEET NO. ____ of ____ DATE 3/18/95
PROJECT NO. OPE 39435.CF



SCOEPA00025548

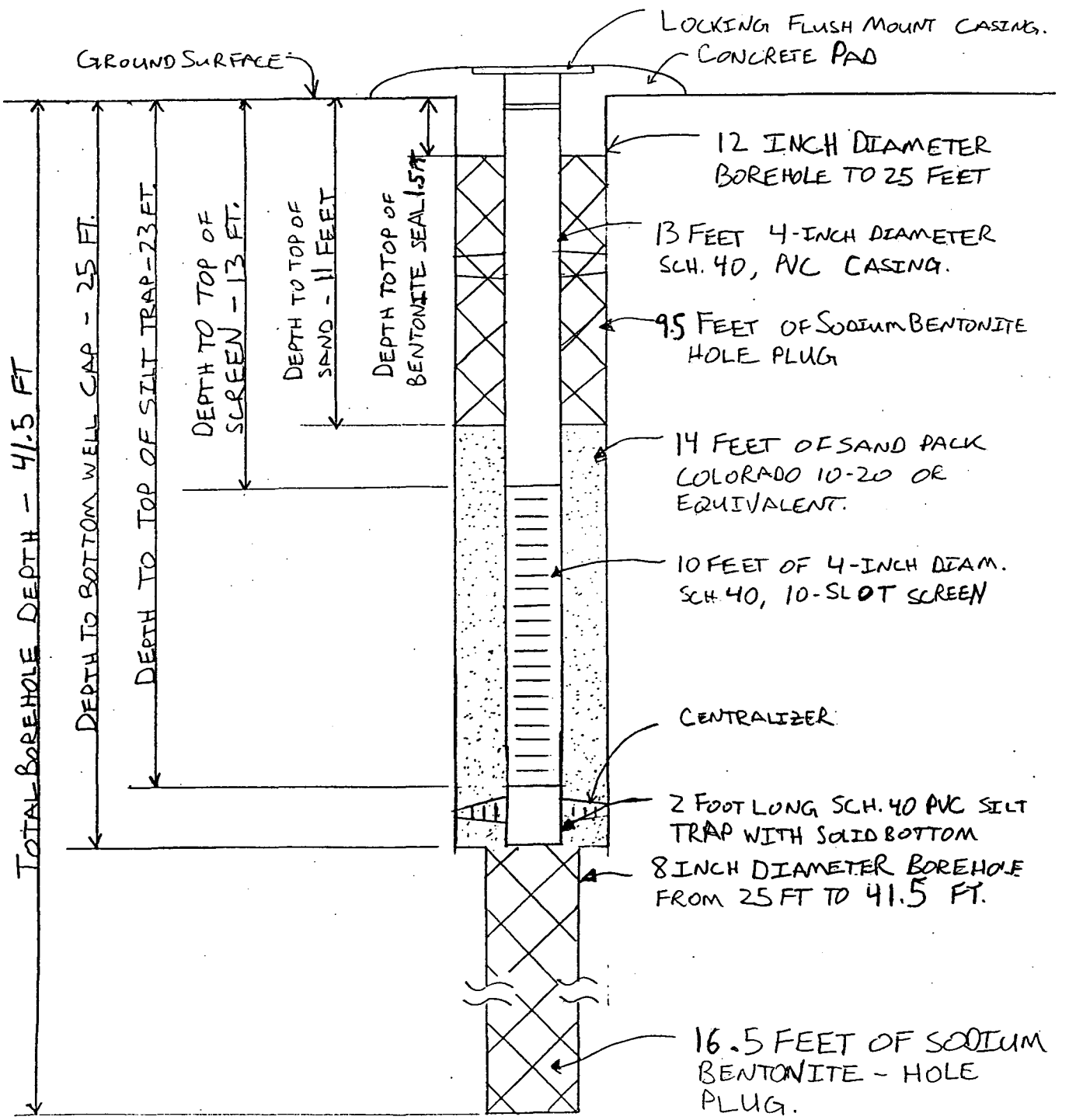
SUBJECT: WACKER SILTRONIC CORP. BY: T.E. COTTEN
WELL CONSTRUCTION DIAGRAM SHEET NO. 1 of 1 DATE: Sept. 8, 1995
PROJECT NO.

PROJECT NAME: WSC FORWARDING SUMP WELL NUMBER: SB-2-95

PROJECT NO.: OPE39435.CF.ZZ INSTALLATION DATES: 3/18, 3/19 1995

OBSERVED BY: TODD COTTEN SITE LOCATION: CENTER OF FORWARDING SUMP FOOTPRINT

DRILLING CONTRACTOR: GEOTECH EXPLORATIONS, INC., TUALATIN, OR.



SCOEPA00025549

CH2M HILL TELEPHONE CONVERSATION RECORD

CALL TO: Steve Beiswenger **PHONE NO.:** 2432020 EXT7526

DATE: 04/26/95

CALL FROM: Dick Crim & Todd Cotten **TIME:** 4:00PM

MESSAGE TAKEN BY: Dick Crim **PROJECT NO.:** OPE39435.CF

SUBJECT: Central Facilities Receiving Sump

We discussed the options for the open-standpipe piezometer within the plan view area of the receiving sump. As it was not used as a water sampling well, it was not required to have a start card filed with the Oregon Water Resources Department. As such it does not need to be abandoned by a licensed water well driller. However, we did discuss that it would be prudent to grout the pipe using tremie methods from the bottom to the top of the casing. Steve asked why they could not just grout the bottom 5 feet of the casing and we agreed that this could be done if it was done prior to the excavation starting to avoid getting dirt and debris inside the casing an making it difficult to grout later.

I informed Steve that the electric well sounder that we used on the site to measure the water levels in the open-standpipe piezometers was stained with the contaminants and our equipment people would not let us return it to our equipment pool, even though it had been deconned. I told Steve that it cost approximately $300 and was now dedicated to the Wacker project. Steve said that Tom Rothchild could use it as he does monthly monitoring of all wells on site and is currently using a tape. It was also discussed that Tom could measure and track the water level in the piezometer outside the receiving sump excavation for us.

Steve also asked that we minimize our observation of the sheeting installation and excavation to that which was absolutely necessary and which we felt we needed to do. We agreed that we could do this. We also discussed that critical times which may occur are if they need to bring an impact hammer on site if the vibratory hammer does not work in getting all the sheets in. We agreed that Don Bottom with Hoffman would be the person to call us to tell us if anything unusual was going on at the site. Steve would talk with Hoffman regarding this.

The contractor is scheduled to have the sheeting installed by this weekend. We discussed that this was optimistic and not likely. It was agreed that Dick Crim would visit the site on Friday 4/28/95 at 10:30 to observe the progress and query the contractor on schedule and progress and anticipated completion.

SCOEPA00025550

MEMORANDUM CH2M HILL

TO: Bill Matsukado/IDC

COPIES: Steve Beiswenger/WSC, Volker Radius/WSC, Wally Huey/Hoffman, Cathryn Young/IDC

FROM: Dick Crim/CH2M HILL

DATE: May 2, 1995

SUBJECT: WSC Forwarding Sump

PROJECT: OPE39435.CF

PURPOSE

This memorandum serves as an addendum to the April 17, 1995 memorandum which listed CH2M HILL's recommendations concerning the construction of the temporary excavation at the Wacker Siltronic Corporation (WSC) forwarding sump location. More detailed recommendations on the abandonment of the open standpipe piezometer inside the sump area, monitoring of the settlements around the sump, monitoring of sheet pile deflections, and monitoring of groundwater levels are provided. The assumptions given in the April 17, 1995 memorandum have not changed.

RECOMMENDATIONS

The open standpipe piezometer located inside the sump area should be abandoned prior to excavation of soil from the sump area. Regulations concerning the abandonment of this piezometer will not take effect until July 1995, however, we recommend abandonment consist of pressure grouting the piezometer casing using a cement grout mixture of six gallons of water per one sack of cement (one sack cement equals 94 pounds). The grout should be tremied from the bottom of the piezometer and continuously placed during tremie removal. Grouting of the piezometer can be performed by a certified well drilling company or by WSC. If a certified well driller is used, we recommend Geo-Tech Explorations, Inc. (503-692-6400) out of Tualatin, Oregon.

We recommend that a program of settlement monitoring of the area around the sump location be initiated. We recommend that this program consist of a minimum of 2 foot long rebar driven into the ground as elevation markers near the sheet piles at each corner of the sump along with a minimum of one rebar marker near the center of the east, west, and south sides of the sump. We recommend that a minimum of two rebar markers be placed near the sheet piles on the north side of the sump, and one rebar marker be placed to the north of the sump near the Central Facilities expansion building. The additional rebar markers to the north of the sump reflect the desire to have the ability to observe potential settlement and the effects of settlement at the Central Facilities expansion building. Elevations of the rebar markers should be surveyed prior the start of soil excavation from the sump, and should be re-surveyed when excavation depths reach 5, 10, 15, and 20 feet. Additional surveys may be recommended based on results of these original surveys.

We recommend that sheet pile deflection during excavation of the forwarding sump be monitored. Monitoring of sheet pile deflection should consist of a minimum of stringing lines from corner to corner around the outside of the sheet piles and measuring off-sets from the line to five evenly spaced points on the top of the sheet piles along the north and south sides of the sump, and to three evenly spaced points on top of the sheet piles along the east and west sides of the sump. The corners of the sump should be surveyed to tie their locations to permanent locations at the site. Off-sets of each point should be measured and recorded on the same day that elevations of rebar markers are surveyed.

Based on discussions with Steve Beiswenger/WSC, monitoring of water levels in the piezometer (SB-1-95) to the west of the sump location will be conducted by WSC. Daily readings of the water levels should be performed and recorded during construction of the sump. A proposed data sheet for recording water levels in piezometer SB-1-95 is attached. Water levels of 10.5 feet and 10.6 feet below ground surface have been measured in piezometer SB-1-95 on March 19, 1995 and on April 14, 1995, respectively. Water levels of less than 9.5 feet below ground surface should be reported immediately to Dick Crim or Todd Cotten at CH2M HILL (235-5000). If the water level data indicates a difference in water level elevation of more than 12 feet between the outside water level and the excavated water level, we recommend that sump construction work cease immediately and the contractor or WSC contact Dick Crim or Todd Cotten at CH2M HILL.

DATE: August 31, 1995

CH2M HILL
FAX TRANSMITTAL FORM
FOR IMMEDIATE DELIVERY

FAX OPERATOR: _____

TIME SENT: _____ _AM _PM

TO: Chip Bloomer **OFFICE:**

FIRM NAME: Wacker Siltronic Corporation

CITY: Portland **STATE:** OR **COUNTRY:**

Fax Phone Number: 241-7599 **Verification Phone Number:** 243-2020

Total number of pages, including this page: 2 **Return original?:** ♦YES NO

From: Todd Cotten **Office:** PDX **Employee No.:** 13449

IF YOU DO NOT RECEIVE ALL OF THE PAGES OR THE TRANSMISSION IS UNCLEAR, PLEASE CONTACT YOUR FAX OPERATOR.

REMARKS:

Telephone Conversation Record, Monitoring Well Abandonment

Date Fax Received: _____ Time: _____ _AM _PM

Todd Cotten
CH2M HILL, Inc.
825 NE Multnomah, Suite 1300
Portland OR. 97232
Voice: (503) 235-5022 *4363 FAX: (503) 235-2445

CH2M HILL TELEPHONE CONVERSATION RECORD

CALL TO: Oregon Water Resources Department
Tracy Eichenlaub-Monitoring Well
Inspector

PHONE NO.: (503) 378-3739

DATE: 08/31/95

CALL FROM: Todd Cotten/CH2M HILL

TIME: 3:20 PM

MESSAGE TAKEN BY: Todd Cotten

PROJECT NO.: 116112.CF.ZZ

SUBJECT: Abandonment Procedures for Monitoring Well SB-1,
Wacker Siltronic Corporation, Portland Oregon.

I spoke to Tracy Eichenlaub concerning the proper abandonment procedures to be used for Monitoring Well SB-1 at the Wacker Siltronic Corporation, Portland Oregon facility. I explained to Tracy that this hole had been drilled in March of 1995 to a maximum depth of 46.5 feet for the purpose of gathering subsurface information. No water samples were taken at this time, and the "geotechnical hole" was abandoned from the maximum depth to a depth of 25 feet below the ground surface using sodium bentonite chips. This abandonment occurred on the same day as initial drilling. After plugging the hole to a depth of 25 feet below the ground surface, a monitoring well was installed from 25 feet to the ground surface. I further explained that this monitoring well will be abandoned tomorrow (September 1, 1995). My question to Tracy was whether the hole had to be overdrilled and sealed to a depth of 46.5 feet or 25 feet.

Tracy indicated that overdrilling to the bottom of the monitoring well (25 feet) and sealing from that depth upward was all that was necessary to meet the requirements set forth for monitor well abandonment (Chapter 690, Division 240 - July 1995). Tracy did not see an added benefit to overdrilling the bentonite seal to 46.5 feet and resealing the hole.

Tracy also indicated that there was no problem with using a concrete or cement cap for the upper two feet if so desired.

SCOEPA00025554

DATE: August 30, 1995

CH2M HILL
FAX TRANSMITTAL FORM
FOR IMMEDIATE DELIVERY

FAX OPERATOR: _____

TIME SENT: _____ _ AM _ PM

TO: Chip Bloomer **OFFICE:**

FIRM NAME: Wacker Siltronic Corp.

CITY: Portland **STATE:** **COUNTRY:**

Fax Phone Number: 241-7599 **Verification Phone Number:** 243-2020

Total number of pages, including this page: 4 **Return original?:** ♦YES NO

From: Todd Cotten **Office:** PDX **Employee No.:** 13449

IF YOU DO NOT RECEIVE ALL OF THE PAGES OR THE TRANSMISSION IS UNCLEAR, PLEASE CONTACT YOUR FAX OPERATOR.

REMARKS:

Information for monitoring well abandonment.

Date Fax Received: _____ Time: _____ _ AM _ PM

Todd Cotten
CH2M HILL, Inc.
825 NE Multnomah, Suite 1300
Portland OR. 97232 **Voice: (503) 235-5022 *4363** **FAX: (503) 235-2445**

MEMORANDUM CH2MHILL

TO: Mr. Chip Bloomer/WSC

COPIES: Dick Crim/CH2M HILL

Steve Beiswenger/WSC

FROM: Todd Cotten/CH2M HILL

DATE: August 30, 1995

SUBJECT: Abandonment of Monitoring Well

PROJECT: Forwarding Sump

I have enclosed information for your use in meeting the requirements of proper monitoring well abandonment as set forth in chapter 690, division 240 of the Oregon Water Resources Department, Administrative Rules. Information included consists of a telephone record concerning the abandonment of a monitoring well prior to July 1995, and subsurface geologic data for the monitoring well previously abandoned and the monitoring well that is to be abandoned.

The identifying names of the monitoring wells used in our records are SB-1 and SB-2. Monitoring well SB-1 was constructed approximately 20 feet west of the west edge of the forwarding sump, and has not been abandoned. Monitoring well SB-2 was constructed at the approximate center of the forwarding sump, and was abandoned prior to construction of the sump.

I will also be sending you hand written well construction logs for both monitoring wells.

If you have any questions regarding this information, or if we can be of further assistance to you, please call me at 235-5022 ext. 4363.

CH2M HILL TELEPHONE CONVERSATION RECORD

CALL TO: Steve Belswenger **PHONE NO.:** 2432020 EXT7526

DATE: 04/26/95

CALL FROM: Dick Crim & Todd Cotten **TIME:** 4:00PM

MESSAGE TAKEN BY: Dick Crim **PROJECT NO.:** OPE39435.CF

SUBJECT: Central Facilities Receiving Sump

We discussed the options for the open-standpipe piezometer within the plan view area of the receiving sump. As it was not used as a water sampling well, it was not required to have a start card filed with the Oregon Water Resources Department. As such it does not need to be abandoned by a licensed water well driller. However, we did discuss that it would be prudent to grout the pipe using tremie methods from the bottom to the top of the casing. Steve asked why they could not just grout the bottom 5 feet of the casing and we agreed that this could be done if it was done prior to the excavation starting to avoid getting dirt and debris inside the casing an making it difficult to grout later.

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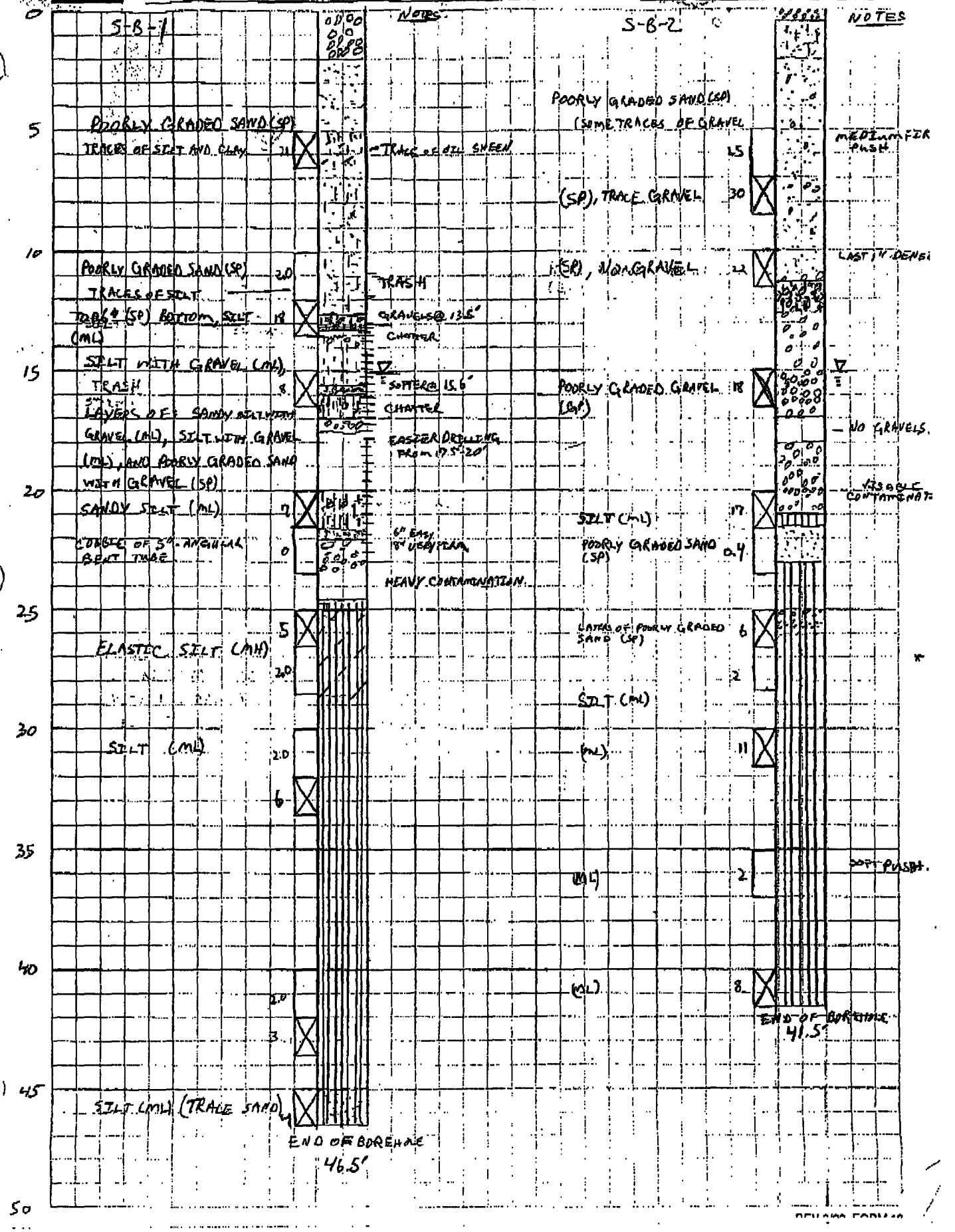
SCOEPA00025557

SUBJECT WACKER SILICONIC CORP. BY T. COTTEN

SUMP BORE LOGS. SHEET NO. ___ of ___ DATE 3/18/95

PROJECT NO. [illegible] 9435.CF



SCOEPA00025558

WACKER
Wacker Siltronic Corporation

July 10, 2000 ER039:PH

Tim Dean
Bureau of Environmental Services
6543 N. Burlington Avenue
Portland, Oregon 97203-5452

RE: June 2000 Industrial Discharge Report and June 12, 2000 notification of slug discharge.

Dear Mr. Dean,

Enclosed is the June, 2000 Industrial Discharge Report for Wacker Siltronic Corporation Municipal Discharge Permit 469-01. Wacker Siltronic has operated in compliance with the Permit for this reporting period.

Per your June 12 conversation with Tom McCue I have included a summary of the power loss and consequent slug discharge that occurred on June 11, 2000.

- On June 11, 2000 at approximately 19:20 the transformer 25B, outside the Central Facilities Building, failed. Power to the wastewater treatment plant and forwarding pumps in Fab 1 and Fab 2 was lost.
- Water in the OWW forwarding sump reached the high level. The generator supplying power to the forwarding sump pump was unable to carry the flow.
- Water overflowed to the sanitary sewer were less than 220 gpm for 45 minutes. Conservative estimated total of 9,900 gallons.
- Facilities Operations was immediately aware of the situation and began pH sampling. All samples were within the pH permit limits of 5.0 11.5 su. Results of the grab samples from the Fab 1 OWW were:

Time	pH
19:30	9.5
19:45	9.6
20:00	9.2
20:10	9.0
20:20	8.9

POTW/2000/June.doc

return to Retro Hoy MS 30
Z 224 641 410

US Postal Service
Receipt for Certified Mail
No Insurance Coverage Provided.
Do not use for International Mail *(See reverse)*

Sent to Tim Dean City of Portland	
Street & Number 6543 N Burlington Avenue	
Post Office, State, & ZIP Code Portland, OR 97203-5452	
Postage	$ 1.65
Certified Fee	1.40
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1.25
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	$ 4.30
Postmark or Date	

PORTLAND OR MAIN OFFICE STA.
JUL 12 2000
USPS

PS Form **3800**, April 1995

SCOEPA00025560

SENDER:
- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write *"Return Receipt Requested"* on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Tim Dean
Bureau of Environmental Services
City of Portland
6543 N. Burlington Avenue
Portland, OR 97203-5452

4a. Article Number

Z 224 641 410

4b. Service Type

☐ Registered ☒ Certified
☐ Express Mail ☐ Insured
☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery

7-13-00

5. Received By: *(Print Name)*

Peter Shaw

6. Signature: *(Addressee or Agent)*

X

8. Addressee's Address *(Only if requested and fee is paid)*

Is your RETURN ADDRESS completed on the reverse side?

Thank you for using Return Receipt Service.

PS Form **3811**, December 1994 102595-98-B-0229 Domestic Return Receipt

UNITED STATES POSTAL SERVICE

First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

• Print your name, address, and ZIP Code in this box •

Petra Hoy
Environmental Engineering MS 30
Wacker Siltronic Corp.
7200 NW Front Avenue
Portland, OR 97210-3676

97210+3676

- Results from the grab samples from the Fab 2 OWW were:

Time	pH
19:25	9.8
19:40	9.3
19:55	7.9
20:05	8.2
20:15	8.9
20:30	8.3

If you have any questions, please contact Petra Hoy at 219-4469

Very truly yours,

WACKER SILTRONIC CORPORATION

Petra Hoy
Environmental Engineer

enclosure:
(1) Industrial Discharge Report

cc: Tom Rothschild
POTW-IDR File

POTW/2000/June.doc

CITY OF PORTLAND
INDUSTRIAL WASTEWATER DISCHARGE
SELF-MONITORING REPORT

INDUSTRY NAME: Wacker Siltronic Corporation

PERMIT NUMBER: 469.001

REPORT DUE DATE: **July 15, 2000**

SAMPLING PERIOD: April - June, 2000

For Industrial Source Control Division Use Only

Date Postmarked/Received **Date Entered**

Entered By

Comments:

SAMPLE DATE	POINT OF COMPLIANCE	SAMPLE TYPE
June 2000	#1B (Fab 2)	GRAB

PARAMETER	ANALYSIS METHOD	REPORTED CONCENTRATION	MDL	LIMITS DAILY	LIMITS MONTHLY	COMMENTS
pH	EPA 150.1	No excursions SU	0.1	5.0 - 11.5	N/A	
TTOs (Volatiles)		mg/L		1.37 mg/L	N/A	SEE CERTIFICATION STATEMENT BELOW

SAMPLE DATE	POINT OF COMPLIANCE	SAMPLE TYPE
June 1, 2000	#1B (Fab 2)	COMPOSITE

PARAMETER	ANALYSIS METHOD	REPORTED CONCENTRATION	MDL	LIMITS DAILY	LIMITS MONTHLY	COMMENTS
Arsenic (Total)	EPA - 200	0.0211 mg/L	0.001	0.2 mg/L	0.83 mg/L	
Molybdenum (Total)	EPA - 200	0.0592 mg/L	0.005	1.4 mg/L	N/A	
Total Suspended Solids	EPA - 160.2	1,462 mg/L	1.0	N/A	N/A	

Based on my inquiry of the person or persons directly responsible for managing compliance with the pretreatment standard for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to the control authority.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

FOR WACKER SILTRONIC CORPORATION:

Signature: Rita Hoy

Date: July 12, 2000

SCOEPA00025564

CITY OF PORTLAND
INDUSTRIAL WASTEWATER DISCHARGE
SELF-MONITORING REPORT

INDUSTRY NAME: Wacker Siltronic Corporation

PERMIT NUMBER: 469.001

REPORT DUE DATE: **July 15, 2000**

SAMPLING PERIOD: June, 2000

For Industrial Source Control Division Use Only

Date Postmarked/Received **Date Entered**

Entered By:

Comments:

CONTINUOUSLY MONITORED pH - EPA METHOD 150.1

POINT OF COMPLIANCE	pH METER BRAND	pH METER MODEL	pH Limit
#1B (Fab 2)	Foxboro	761	5.0 - 11.5 S.U.

DATE	STARTING TIME (military time)	MOST EXTREME pH EXCURSION	DURATION (minutes)	VIOLATION? (circle one)		COMMENTS
	No pH excursions			YES	NO	
				YES	NO	
				YES	NO	
				YES	NO	
				YES	NO	
				YES	NO	
				YES	NO	
				YES	NO	
				YES	NO	

Instructions: Industrial Source Control Division (ISCD) must be notified of all discharge violations within 24 hours of your knowledge of the violation. Report all pH excursions on this form and circle YES if they are a violation. Include any appropriate comments in the Comment column regarding the nature of the excursion. Attach supporting data or explanations to this report. You are also required to document corrective actions you have taken in response to the excursion.

Violations:
1. pH excursions outside the range of 5.0 - 11.5 SU for a total duration of more than 15 minutes in any 24 hour period.
2. pH excursions less than or equal to 4.5 SU or greater than or equal to 12.5 SU regardless of duration.

Non-Violations: You may contend an excursion does not represent a pH discharge violation if it does not meet the criteria listed above. Circle NO in the VIOLATION? Column and include a copy of the pH log or pH chart recording showing the excursion. The final violation status of the excursion will be determined by the ISCD.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

FOR WACKER SILTRONIC CORPORATION:

Signature: Petra Hay Date: July 12, 2000

S:\CUSTOMER\IU-W\WACKER\INSP-MON\2000 CPHSMR.dot

www.ncalabs.com

Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8223
425.420.9200 fax 425.420.9210
Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588

RECEIVED JUN 30 2000
TJR

22 June, 2000

Thomas Rothschild
Wacker Siltronics Corporation
7200 N.W. Front
Portland, OR 97210

RE: N/A

Enclosed are the results of analyses for samples received by the laboratory on 06/01/00 12:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Howard Holmes
Project Manager

Work Orders included in this report:
P006015

North Creek Analytical, Inc.
Environmental Laboratory Network

www.ncalabs.com

Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8223
425.420.9200 fax 425.420.9210
Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588

Wacker Siltronics Corporation	Project: N/A	
7200 N.W. Front	Project Number: PO# 210162	**Reported:**
Portland, OR 97210	Project Manager: Thomas Rothschild	06/22/00 15:21

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
00-51 CE - Cr⁺	P006015-01	Water	06/01/00 07:30	06/01/00 12:40
00-52 CE - EPA 8260/8270	P006015-02	Water	06/01/00 07:30	06/01/00 12:40
00-53 OWW - As, Hg, Mg, Se, Tn	P006015-03	Water	06/01/00 07:30	06/01/00 12:40
00-54 OWW - EPA 8260, IPA	P006015-04	Water	06/01/00 07:30	06/01/00 12:40

North Creek Analytical - Portland

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Howard Holmes, Project Manager

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Wacker Siltronics Corporation	Project: N/A	
7200 N.W. Front	Project Number: PO# 210162	**Reported:**
Portland, OR 97210	Project Manager: Thomas Rothschild	06/22/00 15:21

Total Metals per EPA 200 Series Methods
North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
00-51 (P006015-01) Water					Sampled: 06/01/00 Received: 06/01/00				
Chromium	**0.00103**	0.00100	mg/l	1	EPA 200.8	06/15/00	06/17/00	0060454	
00-53 (P006015-03) Water					Sampled: 06/01/00 Received: 06/01/00				
Arsenic	**0.0211**	0.00100	mg/l	1	EPA 200.8	06/15/00	06/17/00	0060454	
Molybdenum	**0.0592**	0.00500	"	"	"	"	"	"	
Selenium	**0.00195**	0.00100	"	"	"	"	06/20/00	"	
Zinc	**0.268**	0.00500	"	"	"	"	06/17/00	"	

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Howard Holmes, Project Manager

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Wacker Siltronic Corporation	Project: N/A	
7200 N.W. Front	Project Number: PO# 210162	**Reported:**
Portland, OR 97[illegible]	Project Manager: Thomas Rothschild	06/22/00 15:21

Total Metals per EPA 6000/7000 Series Methods

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
00-53 (P0[illegible] Water					Sampled: 06/01/00	Received: 06/01/00			
Mercury	ND	0.000200	mg/l	1	EPA 7470A	06/08/00	06/09/00	0060236	

North Creek Analytical - Portland

Howard [illegible] Project Manager

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Wacker Siltronics Corporation	Project: N/A	
7200 N.W. Front	Project Number: PO# 210162	**Reported:**
Portland, OR 97210	Project Manager: Thomas Rothschild	06/22/00 15:21

Alcohols by EPA 8015B GC/FID

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
00-54 (P006015-04) Water					Sampled: 06/01/00 Received: 06/01/00				
Isopropanol	**97.5**	1.00	mg/l	1	EPA 8015B	06/09/00	06/09/00	0060279	A-01

North Creek Analytical - Portland

Howard Holmes, Project Manager

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Wacker Siltronics Corporation	Project: N/A	
7200 N.W. Front	Project Number: PO# 210162	**Reported:**
Portland, OR 97210	Project Manager: Thomas Rothschild	06/22/00 15:21

Volatile Organic Compounds per EPA Method 8260B

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
00-52 (P006015-02) Water					Sampled: 06/01/00 Received: 06/01/00				
Acetone	**32.8**	10.0	ug/l	1	EPA 8260B	06/10/00	06/10/00	0060307	
Benzene	ND	1.00	"	"	"	"	"	"	
Bromobenzene	ND	1.00	"	"	"	"	"	"	
Bromochloromethane	ND	1.00	"	"	"	"	"	"	
Bromodichloromethane	ND	1.00	"	"	"	"	"	"	
Bromoform	ND	1.00	"	"	"	"	"	"	
Bromomethane	ND	5.00	"	"	"	"	"	"	
2-Butanone	ND	10.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.00	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.00	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.00	"	"	"	"	"	"	
Carbon disulfide	ND	10.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.00	"	"	"	"	"	"	
Chlorobenzene	ND	1.00	"	"	"	"	"	"	
Chloroethane	ND	1.00	"	"	"	"	"	"	
Chloroform	**5.32**	1.00	"	"	"	"	"	"	
Chloromethane	ND	5.00	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.00	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.00	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	2.00	"	"	"	"	"	"	
Dibromochloromethane	ND	1.00	"	"	"	"	"	"	
1,2-Dibromoethane	ND	1.00	"	"	"	"	"	"	
Dibromomethane	ND	1.00	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.00	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.00	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.00	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.00	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.00	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.00	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.00	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.00	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.00	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.00	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.00	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.00	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.00	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.00	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.00	"	"	"	"	"	"	
Ethylbenzene	ND	1.00	"	"	"	"	"	"	

North Creek Analytical - Portland

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Howard Holmes, Project Manager

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Wacker Siltronics Corporation	Project: N/A	
7200 N.W. Front	Project Number: PO# 210162	**Reported:**
Portland OR 97210	Project Manager: Thomas Rothschild	06/22/00 15:21

Volatile Organic Compounds per EPA Method 8260B

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01-52 (PW6015-02) Water					Sampled: 06/01/00 Received: 06/01/00				
Hexachlorobutadiene	ND	2.00	ug/l	1	EPA 8260B	06/10/00	06/10/00	0060307	
2-Hexanone	ND	10.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.00	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	5.00	"	"	"	"	"	"	
Methylene chloride	ND	5.00	"	"	"	"	"	"	
Naphthalene	ND	1.00	"	"	"	"	"	"	
n-Propylbenzene	ND	1.00	"	"	"	"	"	"	
Styrene	ND	1.00	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.00	"	"	"	"	"	"	
Tetrachloroethene	ND	1.00	"	"	"	"	"	"	
Toluene	ND	1.00	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.00	"	"	"	"	"	"	
Trichloroethene	ND	1.00	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.00	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.00	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
Vinyl acetate	ND	1.00	"	"	"	"	"	"	
o-Xylene	ND	1.00	"	"	"	"	"	"	
m,p-Xylene	ND	2.00	"	"	"	"	"	"	
Surr: 4-BFB	*107 %*	*75-125*							
Surr: 1,2-DCE-d4	*104 %*	*75-125*							
Surr: Dibromofluoromethane	*104 %*	*75-125*							
Surr: Tol-d8	*104 %*	*75-125*							

North Creek Analytical - Portland

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Richard Holmes, Project Manager

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Wacker Siltronics Corporation	Project: N/A	
7200 N.W. Front	Project Number: PO# 210162	**Reported:**
Portland, OR 97210	Project Manager: Thomas Rothschild	06/22/00 15:21

Volatile Organic Compounds per EPA Method 8260B

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
00-54 (P006015-04) Water					Sampled: 06/01/00 Received: 06/01/00				**A-01a**
Benzene	ND	1.00	ug/l	1	EPA 8260B	06/10/00	06/10/00	0060307	
Bromobenzene	ND	1.00	"	"	"	"	"	"	
Bromochloromethane	ND	1.00	"	"	"	"	"	"	
Bromodichloromethane	ND	1.00	"	"	"	"	"	"	
Bromoform	ND	1.00	"	"	"	"	"	"	
Bromomethane	ND	5.00	"	"	"	"	"	"	
2-Butanone	ND	10.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.00	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.00	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.00	"	"	"	"	"	"	
Carbon disulfide	ND	10.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.00	"	"	"	"	"	"	
Chlorobenzene	ND	1.00	"	"	"	"	"	"	
Chloroethane	ND	1.00	"	"	"	"	"	"	
Chloroform	**3.43**	1.00	"	"	"	"	"	"	
Chloromethane	ND	5.00	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.00	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.00	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	2.00	"	"	"	"	"	"	
Dibromochloromethane	ND	1.00	"	"	"	"	"	"	
1,2-Dibromoethane	ND	1.00	"	"	"	"	"	"	
Dibromomethane	ND	1.00	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.00	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.00	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.00	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.00	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.00	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.00	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.00	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.00	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.00	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.00	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.00	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.00	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.00	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.00	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.00	"	"	"	"	"	"	
Ethylbenzene	ND	1.00	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.00	"	"	"	"	"	"	

North Creek Analytical - Portland

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Howard Holmes, Project Manager

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Wacker Siltronics Corporation	Project: N/A	
7200 N.W. Front	Project Number: PO# 210162	**Reported:**
Portland, OR 97210	Project Manager: Thomas Rothschild	06/22/00 15:21

Volatile Organic Compounds per EPA Method 8260B

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
00-54 (P006015-04) Water					Sampled: 06/01/00 Received: 06/01/00				**A-01a**
2-Hexanone	ND	10.0	ug/l	1	EPA 8260B	06/10/00	06/10/00	0060307	
Isopropylbenzene	ND	1.00	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	5.00	"	"	"	"	"	"	
Methylene chloride	ND	5.00	"	"	"	"	"	"	
Naphthalene	ND	1.00	"	"	"	"	"	"	
n-Propylbenzene	ND	1.00	"	"	"	"	"	"	
Styrene	ND	1.00	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.00	"	"	"	"	"	"	
Tetrachloroethene	ND	1.00	"	"	"	"	"	"	
Toluene	13.7	1.00	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.00	"	"	"	"	"	"	
Trichloroethene	ND	1.00	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.00	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.00	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
Vinyl chloride	ND	1.00	"	"	"	"	"	"	
o-Xylene	ND	1.00	"	"	"	"	"	"	
m,p-Xylene	ND	2.00	"	"	"	"	"	"	
Surr: 4-BFB	*105 %*	*75-125*							
Surr: 1,2-DCA-d4	*101 %*	*75-125*							
Surr: Bromofluoromethane	*106 %*	*75-125*							
Surr: Toluene-d8	*104 %*	*75-125*							

North Creek Analytical - Portland

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Howard Holmes, Project Manager

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Wacker Siltronics Corporation	Project: N/A	
7200 N.W. Front	Project Number: PO# 210162	**Reported:**
Portland, OR 97210	Project Manager: Thomas Rothschild	06/22/00 15:21

Volatile Organic Compounds per EPA Method 8260B

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
00-54 (P006015-04RE1) Water						Sampled: 06/01/00	Received: 06/01/00		
Acetone	**11800**	500	ug/l	50	EPA 8260B	06/15/00	06/15/00	0060445	
Surr: 4-BFB	*101 %*	*75-125*							
Surr: 1,2-DCA-d4	*106 %*	*75-125*							
Surr: Dibromofluoromethane	*101 %*	*75-125*							
Surr: Toluene-d8	*111 %*	*75-125*							

North Creek Analytical - Portland

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Howard Holmes, Project Manager

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541.383.9310 fax 541.382.7588

Wacker Siltronics Corporation	Project: N/A	
7200 N.W. Front	Project Number: PO# 210162	**Reported:**
Portland OR 97210	Project Manager: Thomas Rothschild	06/22/00 15:21

Semivolatile Organic Compounds per EPA Method 8270C

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
00-52 (P006015-02) Water					Sampled: 06/01/00 Received: 06/01/00				
1,2-Diphenylhydrazine (as Azobenzene)	ND	5.00	ug/l	1	EPA 8270C	06/02/00	06/07/00	0060062	
Acenaphthene	ND	5.00	"	"	"	"	"	"	
Acenaphthylene	ND	5.00	"	"	"	"	"	"	
Anthracene	ND	5.00	"	"	"	"	"	"	
Benzo (a) anthracene	ND	5.00	"	"	"	"	"	"	
Benzo (a) pyrene	ND	5.00	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	5.00	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	5.00	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	5.00	"	"	"	"	"	"	
Benzoic Acid	ND	50.0	"	"	"	"	"	"	
Benzyl alcohol	ND	10.0	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	5.00	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	5.00	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	5.00	"	"	"	"	"	"	
4-Chloroaniline	ND	20.0	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	10.0	"	"	"	"	"	"	
Bis(2-chloroethyl) ether	ND	5.00	"	"	"	"	"	"	
Bis(2-chloroisopropyl) ether	ND	10.0	"	"	"	"	"	"	
2-Chloronaphthalene	ND	5.00	"	"	"	"	"	"	
2-Chlorophenol	ND	5.00	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	5.00	"	"	"	"	"	"	
Chrysene	ND	5.00	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	5.00	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	5.00	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	5.00	"	"	"	"	"	"	
Dibenzofuran	ND	5.00	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.00	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.00	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.00	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	5.00	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	5.00	"	"	"	"	"	"	
Diethyl phthalate	ND	5.00	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	10.0	"	"	"	"	"	"	
Dimethyl phthalate	ND	5.00	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	10.0	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	25.0	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	5.00	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	5.00	"	"	"	"	"	"	

North Creek Analytical - Portland

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Howard Holmes, Project Manager

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Wacker Siltronics Corporation	Project: N/A	
7200 N.W. Front	Project Number: PO# 210162	**Reported:**
Portland, OR 97210	Project Manager: Thomas Rothschild	06/22/00 15:21

Semivolatile Organic Compounds per EPA Method 8270C

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
00-52 (P006015-02) Water					Sampled: 06/01/00 Received: 06/01/00				
Bis(2-ethylhexyl)phthalate	ND	10.0	ug/l	1	EPA 8270C	06/02/00	06/07/00	0060062	
Fluoranthene	ND	5.00	"	"	"	"	"	"	
Fluorene	ND	5.00	"	"	"	"	"	"	
Hexachlorobenzene	ND	5.00	"	"	"	"	"	"	
Hexachlorobutadiene	ND	10.0	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	10.0	"	"	"	"	"	"	
Hexachloroethane	ND	10.0	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	5.00	"	"	"	"	"	"	
Isophorone	ND	5.00	"	"	"	"	"	"	
2-Methylnaphthalene	ND	5.00	"	"	"	"	"	"	
2-Methylphenol	ND	10.0	"	"	"	"	"	"	
3-,4-Methylphenol	ND	5.00	"	"	"	"	"	"	
Naphthalene	ND	5.00	"	"	"	"	"	"	
2-Nitroaniline	ND	5.00	"	"	"	"	"	"	
3-Nitroaniline	ND	10.0	"	"	"	"	"	"	
4-Nitroaniline	ND	10.0	"	"	"	"	"	"	
Nitrobenzene	ND	5.00	"	"	"	"	"	"	
2-Nitrophenol	ND	5.00	"	"	"	"	"	"	
4-Nitrophenol	ND	25.0	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	10.0	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	5.00	"	"	"	"	"	"	
Pentachlorophenol	ND	10.0	"	"	"	"	"	"	
Phenanthrene	ND	5.00	"	"	"	"	"	"	
Phenol	ND	5.00	"	"	"	"	"	"	
Pyrene	ND	5.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.00	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	5.00	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	5.00	"	"	"	"	"	"	
Surr: 2-Fluorobiphenyl	*94.9 %*	*26-135*							
Surr: 2-Fluorophenol	*39.2 %*	*6-124*							
Surr: Nitrobenzene-d5	*78.9 %*	*23-147*							
Surr: Phenol-d6	*22.0 %*	*11-130*							
Surr: p-Terphenyl-d14	*136 %*	*38-149*							
Surr: 2,4,6-Tribromophenol	*115 %*	*19-126*							

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Howard Holmes, Project Manager

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Wacker Siltronics Corporation	Project: N/A	
7200 N.W. Front	Project Number: PO# 210162	**Reported:**
Portland, OR 97210	Project Manager: Thomas Rothschild	06/22/00 15:21

Total Metals per EPA 200 Series Methods - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0060454 - EPA 200/3005										
Blank (0060454-BLK1)				Prepared: 06/15/00 Analyzed: 06/17/00						
Arsenic	ND	0.00100	mg/l							
Chromium	ND	0.00100	"							
Molybdenum	ND	0.00500	"							
Selenium	ND	0.00100	"							
Zinc	ND	0.00500	"							
LCS (0060454-BS1)				Prepared: 06/15/00 Analyzed: 06/17/00						
Arsenic	0.105	0.00100	mg/l	0.100		105	85-115			
Chromium	0.102	0.00100	"	0.100		102	85-115			
Molybdenum	0.0996	0.00500	"	0.100		99.6	85-115			
Selenium	0.106	0.0100	"	0.100		106	85-115			
Zinc	0.104	0.00500	"	0.100		104	85-115			
Duplicate (0060454-DUP1)	Source: P006148-01			Prepared: 06/15/00 Analyzed: 06/17/00						
Arsenic	ND	0.00100	mg/l		0.00108			70.0	20	Q-06
Chromium	ND	0.00100	"		ND			0	20	Q-06
Molybdenum	ND	0.00500	"		ND			193	20	Q-06
Selenium	ND	0.00100	"		ND			37.5	20	Q-06
Zinc	ND	0.00500	"		ND			1.81	20	Q-06
Matrix Spike (0060454-MS1)	Source: P006148-01			Prepared: 06/15/00 Analyzed: 06/17/00						
Arsenic	0.109	0.00100	mg/l	0.100	0.00108	108	70-130			
Chromium	0.102	0.00100	"	0.100	ND	102	70-130			
Molybdenum	0.0770	0.0500	"	0.100	ND	77.0	70-130			
Selenium	0.101	0.0100	"	0.100	ND	101	70-130			
Zinc	0.102	0.00500	"	0.100	ND	100	70-130			
Matrix Spike Dup (0060454-MSD1)	Source: P006148-01			Prepared: 06/15/00 Analyzed: 06/17/00						
Arsenic	0.105	0.00100	mg/l	0.100	0.00108	104	70-130	3.74	20	
Chromium	0.100	0.00100	"	0.100	ND	99.7	70-130	1.98	20	
Molybdenum	0.0793	0.0500	"	0.100	ND	79.3	70-130	2.94	20	
Selenium	0.104	0.0100	"	0.100	ND	104	70-130	2.93	20	
Zinc	0.0998	0.00500	"	0.100	ND	98.1	70-130	2.18	20	

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Wacker Siltronics Corporation	Project: N/A	
7200 N.W. Front	Project Number: PO# 210162	**Reported:**
Portland, OR 97210	Project Manager: Thomas Rothschild	06/22/00 15:21

Total Metals per EPA 6000/7000 Series Methods - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0060236 - EPA 7470										
Blank (0060236-BLK1)				Prepared: 06/08/00 Analyzed: 06/09/00						
Mercury	ND	0.000200	mg/l							
LCS (0060236-BS1)				Prepared: 06/08/00 Analyzed: 06/09/00						
Mercury	0.00502	0.000200	mg/l	0.00500		100	80-120			
Duplicate (0060236-DUP1)		**Source: P005612-04**		Prepared: 06/08/00 Analyzed: 06/09/00						
Mercury	ND	0.000200	mg/l		ND				20	
Matrix Spike (0060236-MS1)		**Source: P005612-04**		Prepared: 06/08/00 Analyzed: 06/09/00						
Mercury	0.00500	0.000200	mg/l	0.00500	ND	100	75-125			
Matrix Spike (0060236-MS2)		**Source: P005612-11**		Prepared: 06/08/00 Analyzed: 06/09/00						
Mercury	0.00473	0.000200	mg/l	0.00500	ND	94.6	75-125			

North Creek Analytical - Portland

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Wacker Siltronics Corporation	Project: N/A	
7200 N.W. Front	Project Number: PO# 210162	**Reported:**
Portland, OR 97210	Project Manager: Thomas Rothschild	06/22/00 15:21

Alcohols by EPA 8015B GC/FID - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0060279 - 3810 Headspace										
Blank (0060279-BLK1)				Prepared & Analyzed: 06/09/00						
Isopropanol	ND	1.00	mg/l							
LCS (0060279-BS1)				Prepared & Analyzed: 06/09/00						
Isopropanol	52.5	1.00	mg/l	49.9		105	50-150			
Matrix Spike (0060279-MS1)	**Source: P006015-04**			Prepared & Analyzed: 06/09/00						
Isopropanol	148	1.00	mg/l	49.9	97.5	101	50-150			
Matrix Spike Dup (0060279-MSD1)	**Source: P006015-04**			Prepared & Analyzed: 06/09/00						
Isopropanol	149	1.00	mg/l	49.9	97.5	103	50-150	0.673	25	

North Creek Analytical - Portland

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Wacker Siltronics Corporation	Project: N/A	
7200 N.W. Front	Project Number: PO# 210162	**Reported:**
Portland, OR 97210	Project Manager: Thomas Rothschild	06/22/00 15:21

Volatile Organic Compounds per EPA Method 8260B - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0060307 - EPA 5030										
Blank (0060307-BLK1)				Prepared & Analyzed: 06/10/00						
Acetone	ND	10.0	ug/l							
Benzene	ND	1.00	"							
Bromobenzene	ND	1.00	"							
Bromochloromethane	ND	1.00	"							
Bromodichloromethane	ND	1.00	"							
Bromoform	ND	1.00	"							
Bromomethane	ND	5.00	"							
2-Butanone	ND	10.0	"							
n-Butylbenzene	ND	1.00	"							
sec-Butylbenzene	ND	1.00	"							
tert-Butylbenzene	ND	1.00	"							
Carbon disulfide	ND	10.0	"							
Carbon tetrachloride	ND	1.00	"							
Chlorobenzene	ND	1.00	"							
Chloroethane	ND	1.00	"							
Chloroform	ND	1.00	"							
Chloromethane	ND	5.00	"							
2-Chlorotoluene	ND	1.00	"							
4-Chlorotoluene	ND	1.00	"							
1,2-Dibromo-3-chloropropane	ND	2.00	"							
Dibromochloromethane	ND	1.00	"							
1,2-Dibromoethane	ND	1.00	"							
Dibromomethane	ND	1.00	"							
1,2-Dichlorobenzene	ND	1.00	"							
1,3-Dichlorobenzene	ND	1.00	"							
1,4-Dichlorobenzene	ND	1.00	"							
Dichlorodifluoromethane	ND	5.00	"							
1,1-Dichloroethane	ND	1.00	"							
1,2-Dichloroethane	ND	1.00	"							
1,1-Dichloroethene	ND	1.00	"							
cis-1,2-Dichloroethene	ND	1.00	"							
trans-1,2-Dichloroethene	ND	1.00	"							
1,2-Dichloropropane	ND	1.00	"							
1,3-Dichloropropane	ND	1.00	"							
2,2-Dichloropropane	ND	1.00	"							
1,1-Dichloropropene	ND	1.00	"							

North Creek Analytical - Portland

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Howard Holmes, Project Manager

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Wacker Siltronics Corporation	Project: N/A	
7200 N.W. Front	Project Number: PO# 210162	**Reported:**
Portland, OR 97210	Project Manager: Thomas Rothschild	06/22/00 15:21

Volatile Organic Compounds per EPA Method 8260B - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0060307 - EPA 5030										
Blank (0060307-BLK1)				Prepared & Analyzed: 06/10/00						
cis-1,3-Dichloropropene	ND	1.00	ug/l							
trans-1,3-Dichloropropene	ND	1.00	"							
Ethylbenzene	ND	1.00	"							
Hexachlorobutadiene	ND	2.00	"							
2-Hexanone	ND	10.0	"							
Isopropylbenzene	ND	1.00	"							
p-Isopropyltoluene	ND	1.00	"							
4-Methyl-2-pentanone	ND	5.00	"							
Methylene chloride	ND	5.00	"							
Naphthalene	ND	1.00	"							
n-Propylbenzene	ND	1.00	"							
Styrene	ND	1.00	"							
1,1,1,2-Tetrachloroethane	ND	1.00	"							
1,1,2,2-Tetrachloroethane	ND	1.00	"							
Tetrachloroethene	ND	1.00	"							
Toluene	ND	1.00	"							
1,2,3-Trichlorobenzene	ND	1.00	"							
1,2,4-Trichlorobenzene	ND	1.00	"							
1,1,1-Trichloroethane	ND	1.00	"							
1,1,2-Trichloroethane	ND	1.00	"							
Trichloroethene	ND	1.00	"							
Trichlorofluoromethane	ND	1.00	"							
1,2,3-Trichloropropane	ND	1.00	"							
1,2,4-Trimethylbenzene	ND	1.00	"							
1,3,5-Trimethylbenzene	ND	1.00	"							
Vinyl chloride	ND	1.00	"							
o-Xylene	ND	1.00	"							
m,p-Xylene	ND	2.00	"							
Surr: 4-BFB	*21.3*		"	*20.0*		*106*	*75-125*			
Surr: 1,2-DCA-d4	*20.6*		"	*20.0*		*103*	*75-125*			
Surr: Dibromofluoromethane	*20.6*		"	*20.0*		*103*	*75-125*			
Surr: Toluene-d8	*22.0*		"	*20.0*		*110*	*75-125*			

North Creek Analytical - Portland

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Howard Holmes, Project Manager

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Wacker Siltronics Corporation	Project: N/A	
7200 N.W. Front	Project Number: PO# 210162	**Reported:**
Portland, OR 97210	Project Manager: Thomas Rothschild	06/22/00 15:21

Volatile Organic Compounds per EPA Method 8260B - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0060307 - EPA 5030										
LCS (0060307-BS1)				Prepared & Analyzed: 06/10/00						
Benzene	22.7	1.00	ug/l	20.0		114	80-125			
Chlorobenzene	23.2	1.00	"	20.0		116	80-125			
1,1-Dichloroethene	24.1	1.00	"	20.0		121	70-135			
Toluene	24.1	1.00	"	20.0		121	80-125			
Trichloroethene	22.4	1.00	"	20.0		112	70-130			
Surr: 4-BFB	*21.3*		"	*20.0*		*106*	*75-125*			
Surr: 1.2-DCA-d4	*21.8*		"	*20.0*		*109*	*75-125*			
Surr: Dibromofluoromethane	*21.0*		"	*20.0*		*105*	*75-125*			
Surr: Toluene-d8	*22.0*		"	*20.0*		*110*	*75-125*			
LCS Dup (0060307-BSD1)				Prepared & Analyzed: 06/10/00						
Benzene	21.1	1.00	ug/l	20.0		106	80-125	7.31	25	
Chlorobenzene	21.8	1.00	"	20.0		109	80-125	6.22	25	
1,1-Dichloroethene	24.5	1.00	"	20.0		123	70-135	1.65	25	
Toluene	22.7	1.00	"	20.0		114	80-125	5.98	25	
Trichloroethene	21.4	1.00	"	20.0		107	70-130	4.57	25	
Surr: 4-BFB	*20.8*		"	*20.0*		*104*	*75-125*			
Surr: 1.2-DCA-d4	*21.6*		"	*20.0*		*108*	*75-125*			
Surr: Dibromofluoromethane	*21.8*		"	*20.0*		*109*	*75-125*			
Surr: Toluene-d8	*22.6*		"	*20.0*		*113*	*75-125*			
Batch 0060445 - EPA 5030										
Blank (0060445-BLK1)				Prepared & Analyzed: 06/15/00						
Acetone	ND	10.0	ug/l							
Benzene	ND	1.00	"							
Bromobenzene	ND	1.00	"							
Bromochloromethane	ND	1.00	"							
Bromodichloromethane	ND	1.00	"							
Bromoform	ND	1.00	"							
Bromomethane	ND	5.00	"							
2-Butanone	ND	10.0	"							
n-Butylbenzene	ND	1.00	"							
sec-Butylbenzene	ND	1.00	"							
tert-Butylbenzene	ND	1.00	"							
Carbon disulfide	ND	10.0	"							

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Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588

Wacker Siltronics Corporation	Project: N/A	
7200 N.W. Front	Project Number: PO# 210162	**Reported:**
Portland, OR 97210	Project Manager: Thomas Rothschild	06/22/00 15:21

Volatile Organic Compounds per EPA Method 8260B - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0060445 - EPA 5030										
Blank (0060445-BLK1)				Prepared & Analyzed: 06/15/00						
Carbon tetrachloride	ND	1.00	ug/l							
Chlorobenzene	ND	1.00	"							
Chloroethane	ND	1.00	"							
Chloroform	ND	1.00	"							
Chloromethane	ND	5.00	"							
2-Chlorotoluene	ND	1.00	"							
4-Chlorotoluene	ND	1.00	"							
1,2-Dibromo-3-chloropropane	ND	2.00	"							
Dibromochloromethane	ND	1.00	"							
1,2-Dibromoethane	ND	1.00	"							
Dibromomethane	ND	1.00	"							
1,2-Dichlorobenzene	ND	1.00	"							
1,3-Dichlorobenzene	ND	1.00	"							
1,4-Dichlorobenzene	ND	1.00	"							
Dichlorodifluoromethane	ND	5.00	"							
1,1-Dichloroethane	ND	1.00	"							
1,2-Dichloroethane	ND	1.00	"							
1,1-Dichloroethene	ND	1.00	"							
cis-1,2-Dichloroethene	ND	1.00	"							
trans-1,2-Dichloroethene	ND	1.00	"							
1,2-Dichloropropane	ND	1.00	"							
1,3-Dichloropropane	ND	1.00	"							
2,2-Dichloropropane	ND	1.00	"							
1,1-Dichloropropene	ND	1.00	"							
cis-1,3-Dichloropropene	ND	1.00	"							
trans-1,3-Dichloropropene	ND	1.00	"							
Ethylbenzene	ND	1.00	"							
Hexachlorobutadiene	ND	2.00	"							
2-Hexanone	ND	10.0	"							
Isopropylbenzene	ND	1.00	"							
p-Isopropyltoluene	ND	1.00	"							
4-Methyl-2-pentanone	ND	5.00	"							
Methylene chloride	ND	5.00	"							
Naphthalene	ND	1.00	"							
n-Propylbenzene	ND	1.00	"							
Styrene	ND	1.00	"							

North Creek Analytical - Portland

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Howard Holmes, Project Manager

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Wacker Siltronics Corporation	Project: N/A	
7200 N.W. Front	Project Number: PO# 210162	**Reported:**
Portland, OR 97210	Project Manager: Thomas Rothschild	06/22/00 15:21

Volatile Organic Compounds per EPA Method 8260B - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0060445 - EPA 5030										
Blank (0060445-BLK1)				Prepared & Analyzed: 06/15/00						
1,1,1,2-Tetrachloroethane	ND	1.00	ug/l							
1,1,2,2-Tetrachloroethane	ND	1.00	"							
Tetrachloroethene	ND	1.00	"							
Toluene	ND	1.00	"							
1,2,3-Trichlorobenzene	ND	1.00	"							
1,2,4-Trichlorobenzene	ND	1.00	"							
1,1,1-Trichloroethane	ND	1.00	"							
1,1,2-Trichloroethane	ND	1.00	"							
Trichloroethene	ND	1.00	"							
Trichlorofluoromethane	ND	1.00	"							
1,2,3-Trichloropropane	ND	1.00	"							
1,2,4-Trimethylbenzene	ND	1.00	"							
1,3,5-Trimethylbenzene	ND	1.00	"							
Vinyl chloride	ND	1.00	"							
o-Xylene	ND	1.00	"							
m,p-Xylene	ND	2.00	"							
Surr: 4-BFB	*20.4*		"	*20.0*		*102*	*75-125*			
Surr: 1,2-DCA-d4	*20.8*		"	*20.0*		*104*	*75-125*			
Surr: Dibromofluoromethane	*21.3*		"	*20.0*		*106*	*75-125*			
Surr: Toluene-d8	*21.2*		"	*20.0*		*106*	*75-125*			
LCS (0060445-BS1)				Prepared & Analyzed: 06/15/00						
Benzene	20.0	1.00	ug/l	20.0		100	80-125			
Chlorobenzene	20.2	1.00	"	20.0		101	80-125			
1,1-Dichloroethene	22.8	1.00	"	20.0		114	70-135			
Toluene	21.1	1.00	"	20.0		106	80-125			
Trichloroethene	20.3	1.00	"	20.0		101	70-130			
Surr: 4-BFB	*21.0*		"	*20.0*		*105*	*75-125*			
Surr: 1,2-DCA-d4	*21.2*		"	*20.0*		*106*	*75-125*			
Surr: Dibromofluoromethane	*20.1*		"	*20.0*		*101*	*75-125*			
Surr: Toluene-d8	*21.8*		"	*20.0*		*109*	*75-125*			

North Creek Analytical - Portland

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Wacker Siltronics Corporation	Project: N/A	
7200 N.W. Front	Project Number: PO# 210162	**Reported:**
Portland, OR 97210	Project Manager: Thomas Rothschild	06/22/00 15:21

Volatile Organic Compounds per EPA Method 8260B - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0060445 - EPA 5030										
LCS Dup (0060445-BSD1)				Prepared & Analyzed: 06/15/00						
Benzene	19.5	1.00	ug/l	20.0		97.5	80-125	2.53	25	
Chlorobenzene	20.5	1.00	"	20.0		103	80-125	1.47	25	
1,1-Dichloroethene	22.2	1.00	"	20.0		111	70-135	2.67	25	
Toluene	21.6	1.00	"	20.0		108	80-125	2.34	25	
Trichloroethene	19.8	1.00	"	20.0		99.0	70-130	2.49	25	
Surr: 4-BFB	*20.3*		"	*20.0*		*101*	*75-125*			
Surr: 1,2-DCA-d4	*20.8*		"	*20.0*		*104*	*75-125*			
Surr: Dibromofluoromethane	*20.6*		"	*20.0*		*103*	*75-125*			
Surr: Toluene-d8	*22.1*		"	*20.0*		*111*	*75-125*			

North Creek Analytical - Portland

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Howard Holmes, Project Manager

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Wacker Siltronics Corporation	Project: N/A	
7200 N.W. Front	Project Number: PO# 210162	**Reported:**
Portland, OR 97210	Project Manager: Thomas Rothschild	06/22/00 15:21

Semivolatile Organic Compounds per EPA Method 8270C - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0060062 - EPA 3510/600 Series										
Blank (0060062-BLK1)				Prepared: 06/02/00 Analyzed: 06/07/00						
1,2 Diphenylhydrazine (as Azobenzene)	ND	5.00	ug/l							
Acenaphthene	ND	5.00	"							
Acenaphthylene	ND	5.00	"							
Anthracene	ND	5.00	"							
Benzo (a) anthracene	ND	5.00	"							
Benzo (a) pyrene	ND	5.00	"							
Benzo (b) fluoranthene	ND	5.00	"							
Benzo (ghi) perylene	ND	5.00	"							
Benzo (k) fluoranthene	ND	5.00	"							
Benzoic Acid	ND	50.0	"							
Benzyl alcohol	ND	10.0	"							
4-Bromophenyl phenyl ether	ND	5.00	"							
Butyl benzyl phthalate	ND	5.00	"							
4-Chloro-3-methylphenol	ND	5.00	"							
4-Chloroaniline	ND	20.0	"							
Bis(2-chloroethoxy)methane	ND	10.0	"							
Bis(2-chloroethyl)ether	ND	5.00	"							
Bis(2-chloroisopropyl)ether	ND	10.0	"							
2-Chloronaphthalene	ND	5.00	"							
2-Chlorophenol	ND	5.00	"							
4-Chlorophenyl phenyl ether	ND	5.00	"							
Chrysene	ND	5.00	"							
Di-n-butyl phthalate	ND	5.00	"							
Di-n-octyl phthalate	ND	5.00	"							
Dibenzo (a,h) anthracene	ND	5.00	"							
Dibenzofuran	ND	5.00	"							
1,2-Dichlorobenzene	ND	5.00	"							
1,3-Dichlorobenzene	ND	5.00	"							
1,4-Dichlorobenzene	ND	5.00	"							
3,3'-Dichlorobenzidine	ND	5.00	"							
2,4-Dichlorophenol	ND	5.00	"							
Diethyl phthalate	ND	5.00	"							
2,4-Dimethylphenol	ND	10.0	"							
Dimethyl phthalate	ND	5.00	"							
4,6-Dinitro-2-methylphenol	ND	10.0	"							
2,4-Dinitrophenol	ND	25.0	"							

North Creek Analytical - Portland

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Howard Holmes, Project Manager

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Wacker Siltronics Corporation	Project: N/A	
7200 N.W. Front	Project Number: PO# 210162	**Reported:**
Portland, OR 97210	Project Manager: Thomas Rothschild	06/22/00 15:21

Semivolatile Organic Compounds per EPA Method 8270C - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0060062 - EPA 3510/600 Series										
Blank (0060062-BLK1)				Prepared: 06/02/00 Analyzed: 06/07/00						
2,4-Dinitrotoluene	ND	5.00	ug/l							
2,6-Dinitrotoluene	ND	5.00	"							
Bis(2-ethylhexyl)phthalate	ND	10.0	"							
Fluoranthene	ND	5.00	"							
Fluorene	ND	5.00	"							
Hexachlorobenzene	ND	5.00	"							
Hexachlorobutadiene	ND	10.0	"							
Hexachlorocyclopentadiene	ND	10.0	"							
Hexachloroethane	ND	10.0	"							
Indeno (1,2,3-cd) pyrene	ND	5.00	"							
Isophorone	ND	5.00	"							
2-Methylnaphthalene	ND	5.00	"							
2-Methylphenol	ND	10.0	"							
3-,4-Methylphenol	ND	5.00	"							
Naphthalene	ND	5.00	"							
2-Nitroaniline	ND	5.00	"							
3-Nitroaniline	ND	10.0	"							
4-Nitroaniline	ND	10.0	"							
Nitrobenzene	ND	5.00	"							
2-Nitrophenol	ND	5.00	"							
4-Nitrophenol	ND	25.0	"							
N-Nitrosodi-n-propylamine	ND	10.0	"							
N-Nitrosodiphenylamine	ND	5.00	"							
Pentachlorophenol	ND	10.0	"							
Phenanthrene	ND	5.00	"							
Phenol	ND	5.00	"							
Pyrene	ND	5.00	"							
1,2,4-Trichlorobenzene	ND	5.00	"							
2,4,5-Trichlorophenol	ND	5.00	"							
2,4,6-Trichlorophenol	ND	5.00	"							
Surr: 2-Fluorobiphenyl	*71.4*		"	*75.0*		*95.2*	*26-135*			
Surr: 2-Fluorophenol	*81.0*		"	*150*		*54.0*	*6-124*			
Surr: Nitrobenzene-d5	*62.3*		"	*75.0*		*83.1*	*23-147*			
Surr: Phenol-d6	*51.3*		"	*150*		*34.2*	*11-130*			
Surr: p-Terphenyl-d14	*95.8*		"	*75.0*		*128*	*35-149*			

North Creek Analytical - Portland

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Howard Holmes, Project Manager

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Wacker Siltronics Corporation	Project: N/A	
7200 N.W. Front	Project Number: PO# 210162	**Reported:**
Portland, OR 97210	Project Manager: Thomas Rothschild	06/22/00 15:21

Semivolatile Organic Compounds per EPA Method 8270C - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0060062 - EPA 3510/600 Series										
Blank (0060062-BLK1)				Prepared: 06/02/00 Analyzed: 06/07/00						
Surr: 2,4,6-Tribromophenol	*176*		*ug/l*	*150*		*117*	*19-126*			
LCS (0060062-BS1)				Prepared: 06/02/00 Analyzed: 06/07/00						
Acenaphthene	74.9	5.00	ug/l	75.0		99.9	47-145			
4-Chloro-3-methylphenol	121	5.00	"	150		80.7	22-147			
2-Chlorophenol	124	5.00	"	150		82.7	23-134			
1,4-Dichlorobenzene	54.5	5.00	"	75.0		72.7	20-124			
2,4-Dinitrotoluene	78.2	5.00	"	75.0		104	39-139			
4-Nitrophenol	60.5	25.0	"	150		40.3	0-132			
N-Nitrosodi-n-propylamine	71.6	10.0	"	75.0		95.5	0-230			
Pentachlorophenol	140	10.0	"	150		93.3	14-176			
Phenol	49.1	5.00	"	150		32.7	5-112			
Pyrene	85.3	5.00	"	75.0		114	55-133			
1,2,4-Trichlorobenzene	56.6	5.00	"	75.0		75.5	44-142			
Surr: 2-Fluorobiphenyl	*90.1*		*"*	*75.0*		*120*	*26-135*			
Surr: 2-Fluorophenol	*103*		*"*	*150*		*68.7*	*6-124*			
Surr: Nitrobenzene-d5	*77.7*		*"*	*75.0*		*104*	*23-147*			
Surr: Phenol-d6	*66.5*		*"*	*150*		*44.3*	*11-130*			
Surr: p-Terphenyl-d14	*96.6*		*"*	*75.0*		*129*	*38-149*			
Surr: 2,4,6-Tribromophenol	*182*		*"*	*150*		*121*	*19-126*			
LCS Dup (0060062-BSD1)				Prepared: 06/02/00 Analyzed: 06/07/00						
Acenaphthene	68.1	5.00	ug/l	75.0		90.8	47-145	9.51	60	
4-Chloro-3-methylphenol	115	5.00	"	150		76.7	22-147	5.08	60	
2-Chlorophenol	116	5.00	"	150		77.3	23-134	6.67	60	
1,4-Dichlorobenzene	49.9	5.00	"	75.0		66.5	20-124	8.81	60	
2,4-Dinitrotoluene	69.2	5.00	"	75.0		92.3	39-139	12.2	60	
4-Nitrophenol	59.9	25.0	"	150		39.9	0-132	0.997	60	
N-Nitrosodi-n-propylamine	64.2	10.0	"	75.0		85.6	0-230	10.9	60	
Pentachlorophenol	138	10.0	"	150		92.0	14-176	1.44	60	
Phenol	47.9	5.00	"	150		31.9	5-112	2.47	60	
Pyrene	77.4	5.00	"	75.0		103	55-133	9.71	60	
1,2,4-Trichlorobenzene	52.0	5.00	"	75.0		69.3	44-142	8.47	60	
Surr: 2-Fluorobiphenyl	*89.6*		*"*	*75.0*		*119*	*26-135*			
Surr: 2-Fluorophenol	*94.9*		*"*	*150*		*63.3*	*6-124*			
Surr: Nitrobenzene-d5	*74.0*		*"*	*75.0*		*98.7*	*23-147*			

North Creek Analytical - Portland

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Howard Holmes, Project Manager

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Wacker Siltronics Corporation	Project: N/A	
7200 N.W. Front	Project Number: PO# 210162	**Reported:**
Portland, OR 97210	Project Manager: Thomas Rothschild	06/22/00 15:21

Semivolatile Organic Compounds per EPA Method 8270C - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0060062 - EPA 3510/600 Series										
LCS Dup (0060062-BSD1)				Prepared: 06/02/00 Analyzed: 06/07/00						
Surr: Phenol-d6	*62.6*		*ug/l*	*150*		*41.7*	*11-130*			
Surr: p-Terphenyl-d14	*106*		*"*	*75.0*		*141*	*38-149*			
Surr: 2,4,6-Tribromophenol	*184*		*"*	*150*		*123*	*19-126*			

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Wacker Siltronics Corporation	Project: N/A	
7200 N.W. Front	Project Number: PO# 210162	**Reported:**
Portland, OR 97210	Project Manager: Thomas Rothschild	06/22/00 15:21

Notes and Definitions

A-01	Result could not be accurately quantitated because gc-ms indicated high acetone concentration which co-elutes with isopropanol.
A-01a	Sample has high concentration of Acetone and Isopropyl Alcohol.
Q-06	Analyses are not controlled on RPD values from sample concentrations less than 5 times the reporting limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
wet	Sample results reported on a wet weight basis
RPD	Relative Percent Difference

North Creek Analytical - Portland

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Howard Holmes, Project Manager

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CHAIN OF CUSTODY REPORT

Work Order #: P006015

CLIENT: Wacker Siltronic
REPORT TO: Tom Rothschild
ADDRESS: 7200 N.W. Front Ave
Portland, OR
PHONE: 219-7374 FAX: 417.4144

INVOICE TO: Wacker Siltronic
P.O. NUMBER: 210162

TURNAROUND REQUEST in Business Days*
Organic & Inorganic Analyses: [10] 7 5 4 3 2 1 <1
STD.
Petroleum Hydrocarbon Analyses: 5 4 3 2 1 <1
STD.
OTHER Please Specify
*Turnaround Requests less than standard may incur Rush Charges.

PROJECT NAME:
PROJECT NUMBER:
SAMPLED BY: Dianne Irish

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	Cr(T)	8260	8270	1-2 - Diphenylhydrazine	TPA	Total: As, Hg, Mo, Se, Zn	MATRIX (W, S, O)	# OF CONT.	COMMENTS	NCA WO ID
1.	00-51	6-1-00 0730	X						W	1		
2.	00 52	6-1-00 0730		X	X	X			W	4		
3.	00-53	6-1-00 0730						X	W	1		
4.	00-54	6-1-00 0730		X			X		W	3		
5.												
6.												
7.												
8.												
9.												
10.												
11.												
12.												
13.												
14.												
15.												

REQUESTED ANALYSES

RELINQUISHED BY: Dianne Irish DATE: 6-1-00
PRINT NAME: Dianne Irish FIRM: Wacker TIME: 1125
RELINQUISHED BY: DATE: 6-1-00
PRINT NAME: Gary Spangler FIRM: NCA TIME:

RECEIVED BY: DATE: 6-1-00
PRINT NAME: Gary Spangler FIRM: NCA TIME: 1125
RECEIVED BY: Jessica Roberts DATE: 6/1/00
PRINT NAME: JROBERTS FIRM: NCA TIME: 1240

ADDITIONAL REMARKS: #1) Cr(T) Please use detect limit of 0.001 ppm
#4) TPA - Please use detect limit = 10 ppm

TEMP:

SCOEPA00025592

BENCHSHEET

TOTAL SUSPENDED SOLIDS (TSS)

Sample Date: 6.1.00 Oven Temp: 104 C Analyst: DJ

Date In: 6.1.00 Time In/Out: 1200 / 1445

Sample	Vol, ml	Gross Wt, g	Tare Wt, g	TSS, mg/L
1. Blank	NA	0.0876	0.0877	-0.0001
2. CE FAB-1	200			
3. CE FAB-1	200			
		Average CE FAB-1 TSS		
4. CE FAB-2	400	0.0877	0.0872	1.25
5. CE FAB-2	400	0.0884	0.0878	1.5
		Average CE FAB-2 TSS		1.38
6. OWW	50	0.1607	0.0882	1450
7. OWW	50	0.1617	0.0880	1474
		Average OWW TSS		1462
8.				
9.				
		Average TSS		

Comments: _____

Calculation: TSS, mg/L = $\frac{\text{(Gross Wt, mg - Tare Wt, mg) X 1000}}{\text{Volume of Sample, ml}}$

Note: NPDES permit: monthly avg. 23 mg/L, daily max. 61 mg/L.

Reference: 1. Standard Methods for the Examination of Water and Wastewater, 1998, 20th Edition, Section 2540 D, page 2-57.
2. NPDES Permit #101128.

TJR 21 Mar 87
DEM 11 Jan 2000 Revised

SCOEPA00025593

Specialty Analytical

19761 S.W. 95th Avenue
Tualatin, OR 97062
(503) 612-9007
Fax (503) 612-8572
1 (877) 612-9007

November 12, 2007

Thomas Rothschild
Siltronic Corporation
7200 NW Front Ave
M/S 30
Portland, OR 97210

TEL: (503) 219-7313
FAX: (503) 219-7599

RE: Sediment Composites

Dear Thomas Rothschild:

Order No.: 0711013

Specialty Analytical received 7 samples on 11/2/2007 for the analyses presented in the following report.

There were no problems with the analysis and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative, or as qualified with flags. Results apply only to the samples analyzed. Without approval of the laboratory, the reproduction of this report is only permitted in its entirety.

If you have any questions regarding these tests, please feel free to call.

Sincerely,

Ned Engleson
Project Manager

Technical Review

SCOEPA00025594

Specialty Analytical **Date:** *12-Nov-07*

CLIENT:	Siltronic Corporation
Project:	Sediment Composites
Lab Order:	0711013

CASE NARRATIVE

The percent recovery for 1,4-Dichlorobenzene in the LCS and LCSD for TCLP Semi-Volatile Organics by EPA 8270 exceeded control limits (low recovery). All other QC parameters were in control

SCOEPA00025595

Specialty Analytical

Date: *12-Nov-07*

CLIENT:	Siltronic Corporation	**Client Sample ID:**	07-138
Lab Order:	0711013	**Collection Date:**	11/2/2007
Project:	Sediment Composites		
Lab ID:	0711013-07	**Matrix:**	SEDIMENT

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TOTAL METALS BY ICP		**E6010**				Analyst: **zau**
Arsenic	ND	1.72		mg/Kg	1	11/7/2007 6:17:03 PM
Barium	56.2	0.862		mg/Kg	1	11/7/2007 6:17:03 PM
Cadmium	0.845	0.0862		mg/Kg	1	11/7/2007 6:17:03 PM
Chromium	34.4	0.431		mg/Kg	1	11/7/2007 6:17:03 PM
Lead	43.9	1.72		mg/Kg	1	11/7/2007 6:17:03 PM
Molybdenum	4.91	0.862		mg/Kg	1	11/7/2007 6:17:03 PM
Selenium	ND	1.72		mg/Kg	1	11/7/2007 6:17:03 PM
Silver	ND	1.72		mg/Kg	1	11/7/2007 6:17:03 PM
Zinc	848	0.862		mg/Kg	1	11/7/2007 6:17:03 PM
TCLP METALS		**E1311/6010/7470**				Analyst: **zau**
Arsenic, TCLP	ND	0.100		mg/L	1	11/7/2007 3:35:44 PM
Barium, TCLP	1.65	0.250		mg/L	5	11/7/2007 4:01:06 PM
Cadmium, TCLP	ND	0.00500		mg/L	1	11/7/2007 3:35:44 PM
Chromium, TCLP	ND	0.0250		mg/L	1	11/7/2007 3:35:44 PM
Lead, TCLP	ND	0.100		mg/L	1	11/7/2007 3:35:44 PM
Molybdenum, TCLP	ND	0.0500		mg/L	1	11/7/2007 3:35:44 PM
Selenium, TCLP	ND	0.100		mg/L	1	11/7/2007 3:35:44 PM
Silver, TCLP	ND	0.0500		mg/L	1	11/7/2007 3:35:44 PM
Zinc, TCLP	2.98	0.0500		mg/L	1	11/7/2007 3:35:44 PM
MERCURY, TOTAL		**SW7471**				Analyst: **zau**
Mercury	0.0399	0.0122		mg/Kg	1	11/7/2007
TCLP MERCURY		**1311/7000**				Analyst: **zau**
Mercury, TCLP	ND	0.000100		mg/L	1	11/7/2007
SEMIVOLATILE ORGANICS, TCLP LEACHED		**1311/8270D**				Analyst: **bda**
1,4-Dichlorobenzene	ND	0.0100		mg/L	1	11/6/2007 7:09:00 PM
2,4,5-Trichlorophenol	ND	0.0500		mg/L	1	11/6/2007 7:09:00 PM
2,4-Dinitrotoluene	ND	0.0500		mg/L	1	11/6/2007 7:09:00 PM
2-Methylphenol	ND	0.0200		mg/L	1	11/6/2007 7:09:00 PM
3- & 4-Methylphenol	ND	0.100		mg/L	1	11/6/2007 7:09:00 PM
Hexachlorobenzene	ND	0.0100		mg/L	1	11/6/2007 7:09:00 PM
Hexachlorobutadiene	ND	0.0200		mg/L	1	11/6/2007 7:09:00 PM
Hexachloroethane	ND	0.0200		mg/L	1	11/6/2007 7:09:00 PM
Nitrobenzene	ND	0.0100		mg/L	1	11/6/2007 7:09:00 PM
Pentachlorophenol	ND	0.0500		mg/L	1	11/6/2007 7:09:00 PM
Pyridine	ND	0.100		mg/L	1	11/6/2007 7:09:00 PM
Surr: 2,4,6-Tribromophenol	90.1	33.1-99.7		%REC	1	11/6/2007 7:09:00 PM
Surr: 2-Fluorobiphenyl	38.5	33.1-96.2		%REC	1	11/6/2007 7:09:00 PM
Surr: 2-Fluorophenol	32.7	13.4-57.1		%REC	1	11/6/2007 7:09:00 PM
Surr: 4-Terphenyl-d14	47.6	41-122		%REC	1	11/6/2007 7:09:00 PM

SCOEPA00025596

Specialty Analytical

Date: *12-Nov-07*

CLIENT:	Siltronic Corporation	**Client Sample ID:**	07-138
Lab Order:	0711013	**Collection Date:**	11/2/2007
Project:	Sediment Composites		
Lab ID:	0711013-07	**Matrix:**	SEDIMENT

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS, TCLP LEACHED		**1311/8270D**				Analyst: **bda**
Surr: Nitrobenzene-d5	54.6	28.9-99.9		%REC	1	11/6/2007 7:09:00 PM
Surr: Phenol-d6	25.9	10.6-38.5		%REC	1	11/6/2007 7:09:00 PM
SEMIVOLATILE ORGANICS BY GC/MS		**SW8270D**				Analyst: **bda**
1,2,4-Trichlorobenzene	ND	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
1,2-Dichlorobenzene	ND	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
1,3-Dichlorobenzene	ND	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
1,4-Dichlorobenzene	ND	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
2,4,5-Trichlorophenol	ND	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
2,4,6-Trichlorophenol	ND	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
2,4-Dichlorophenol	ND	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
2,4-Dimethylphenol	ND	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
2,4-Dinitrophenol	ND	666		µg/Kg	1	11/7/2007 3:09:00 PM
2,4-Dinitrotoluene	ND	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
2,6-Dinitrotoluene	ND	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
2-Chloronaphthalene	ND	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
2-Chlorophenol	ND	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
2-Methylnaphthalene	1860	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
2-Methylphenol	ND	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
2-Nitroaniline	ND	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
2-Nitrophenol	ND	334		µg/Kg	1	11/7/2007 3:09:00 PM
3,3-Dichlorobenzidine	ND	334		µg/Kg	1	11/7/2007 3:09:00 PM
3-&4-Methylphenol	426	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
3-Nitroaniline	ND	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
4,6-Dinitro-2-methylphenol	ND	334		µg/Kg	1	11/7/2007 3:09:00 PM
4-Bromophenyl phenyl ether	ND	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
4-Chloro-3-methylphenol	ND	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
4-Chloroaniline	ND	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
4-Chlorophenyl phenyl ether	ND	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
4-Nitroaniline	ND	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
4-Nitrophenol	ND	334		µg/Kg	1	11/7/2007 3:09:00 PM
Acenaphthene	3120	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
Acenaphthylene	1150	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
Anthracene	3530	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
Benz(a)anthracene	4330	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
Benzo(a)pyrene	4510	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
Benzo(b)fluoranthene	5640	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
Benzo(g,h,i)perylene	2750	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
Benzo(k)fluoranthene	1790	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
Benzoic Acid	ND	1330		µg/Kg	1	11/7/2007 3:09:00 PM
Benzyl Alcohol	ND	66.6		µg/Kg	1	11/7/2007 3:09:00 PM

SCOEPA00025597

Specialty Analytical

Date: *12-Nov-07*

CLIENT:	Siltronic Corporation	**Client Sample ID:**	07-138
Lab Order:	0711013	**Collection Date:**	11/2/2007
Project:	Sediment Composites		
Lab ID:	0711013-07	**Matrix:**	SEDIMENT

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS BY GC/MS		**SW8270D**				Analyst: **bda**
Bis(2-chloroethoxy)methane	ND	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
Bis(2-chloroethyl)ether	ND	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
Bis(2-chloroisopropyl)ether	ND	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
Bis(2-ethylhexyl)phthalate	8380	333		µg/Kg	5	11/7/2007 2:39:00 PM
Butyl benzyl phthalate	321	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
Carbazole	591	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
Chrysene	4860	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
Di-n-butyl phthalate	ND	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
Di-n-octyl phthalate	1380	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
Dibenz(a,h)anthracene	ND	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
Dibenzofuran	318	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
Diethyl phthalate	ND	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
Dimethyl phthalate	1040	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
Fluoranthene	12600	333		µg/Kg	5	11/7/2007 2:39:00 PM
Fluorene	1990	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
Hexachlorobenzene	ND	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
Hexachlorobutadiene	ND	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
Hexachlorocyclopentadiene	ND	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
Hexachloroethane	ND	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
Indeno(1,2,3-cd)pyrene	2210	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
Isophorone	ND	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
N-Nitrosodi-n-propylamine	ND	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
N-Nitrosodimethylamine	ND	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
N-Nitrosodiphenylamine	ND	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
Naphthalene	2340	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
Nitrobenzene	ND	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
Pentachlorophenol	ND	100		µg/Kg	1	11/7/2007 3:09:00 PM
Phenanthrene	16600	333		µg/Kg	5	11/7/2007 2:39:00 PM
Phenol	124	66.6		µg/Kg	1	11/7/2007 3:09:00 PM
Pyrene	14600	333		µg/Kg	5	11/7/2007 2:39:00 PM
Surr: 2,4,6-Tribromophenol	33.7	57.8-119	S	%REC	1	11/7/2007 3:09:00 PM
Surr: 2-Fluorobiphenyl	77.9	52.6-93.2		%REC	1	11/7/2007 3:09:00 PM
Surr: 2-Fluorophenol	42.1	40.7-111		%REC	1	11/7/2007 3:09:00 PM
Surr: 4-Terphenyl-d14	47.3	49.8-118	S	%REC	1	11/7/2007 3:09:00 PM
Surr: Nitrobenzene-d5	46.4	44.8-103		%REC	1	11/7/2007 3:09:00 PM
Surr: Phenol-d6	62.8	47.5-117		%REC	1	11/7/2007 3:09:00 PM
VOLATILES, TCLP LEACHED		**SW1311/8260B**				Analyst: **bda**
1,1-Dichloroethene	ND	0.050		mg/L	1	11/6/2007 8:07:00 PM
1,2-Dichloroethane	ND	0.050		mg/L	1	11/6/2007 8:07:00 PM
2-Butanone	ND	0.50		mg/L	1	11/6/2007 8:07:00 PM

SCOEPA00025598

Specialty Analytical

Date: *12-Nov-07*

CLIENT:	Siltronic Corporation	**Client Sample ID:**	07-138
Lab Order:	0711013	**Collection Date:**	11/2/2007
Project:	Sediment Composites		
Lab ID:	0711013-07	**Matrix:**	SEDIMENT

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES, TCLP LEACHED		**SW1311/8260B**				Analyst: **bda**
Benzene	ND	0.050		mg/L	1	11/6/2007 8:07:00 PM
Carbon tetrachloride	ND	0.050		mg/L	1	11/6/2007 8:07:00 PM
Chlorobenzene	ND	0.050		mg/L	1	11/6/2007 8:07:00 PM
Chloroform	ND	0.050		mg/L	1	11/6/2007 8:07:00 PM
Tetrachloroethene	ND	0.050		mg/L	1	11/6/2007 8:07:00 PM
Trichloroethene	ND	0.050		mg/L	1	11/6/2007 8:07:00 PM
Vinyl chloride	ND	0.050		mg/L	1	11/6/2007 8:07:00 PM
Surr: 1,2-Dichloroethane-d4	83.0	72.2-129		%REC	1	11/6/2007 8:07:00 PM
Surr: 4-Bromofluorobenzene	102	73.5-125		%REC	1	11/6/2007 8:07:00 PM
Surr: Dibromofluoromethane	93.3	58.8-148		%REC	1	11/6/2007 8:07:00 PM
Surr: Toluene-d8	129	79.8-137		%REC	1	11/6/2007 8:07:00 PM
VOLATILES BY GC/MS		**SW8260B**				Analyst: **bda**
1,1,1,2-Tetrachloroethane	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
1,1,1-Trichloroethane	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
1,1,2,2-Tetrachloroethane	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
1,1,2-Trichloroethane	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
1,1-Dichloroethane	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
1,1-Dichloroethene	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
1,1-Dichloropropene	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
1,2,3-Trichlorobenzene	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
1,2,3-Trichloropropane	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
1,2,4-Trichlorobenzene	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
1,2,4-Trimethylbenzene	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
1,2-Dibromo-3-chloropropane	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
1,2-Dibromoethane	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
1,2-Dichlorobenzene	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
1,2-Dichloroethane	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
1,2-Dichloropropane	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
1,3,5-Trimethylbenzene	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
1,3-Dichlorobenzene	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
1,3-Dichloropropane	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
1,4-Dichlorobenzene	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
2,2-Dichloropropane	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
2-Butanone	ND	20.0		µg/Kg	1	11/5/2007 3:52:00 PM
2-Chlorotoluene	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
2-Hexanone	ND	20.0		µg/Kg	1	11/5/2007 3:52:00 PM
4-Chlorotoluene	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
4-Isopropyltoluene	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
4-Methyl-2-pentanone	ND	20.0		µg/Kg	1	11/5/2007 3:52:00 PM
Acetone	ND	50.0		µg/Kg	1	11/5/2007 3:52:00 PM

SCOEPA00025599

Specialty Analytical

Date: *12-Nov-07*

CLIENT:	Siltronic Corporation	**Client Sample ID:**	07-138
Lab Order:	0711013	**Collection Date:**	11/2/2007
Project:	Sediment Composites		
Lab ID:	0711013-07	**Matrix:**	SEDIMENT

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **bda**
Benzene	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
Bromobenzene	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
Bromochloromethane	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
Bromodichloromethane	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
Bromoform	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
Bromomethane	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
Carbon disulfide	16.5	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
Carbon tetrachloride	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
Chlorobenzene	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
Chloroethane	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
Chloroform	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
Chloromethane	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
cis-1,2-Dichloroethene	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
cis-1,3-Dichloropropene	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
Dibromochloromethane	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
Dibromomethane	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
Dichlorodifluoromethane	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
Ethylbenzene	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
Hexachlorobutadiene	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
Isopropylbenzene	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
m,p-Xylene	ND	20.0		µg/Kg	1	11/5/2007 3:52:00 PM
Methyl tert-butyl ether	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
Methylene chloride	ND	50.0		µg/Kg	1	11/5/2007 3:52:00 PM
n-Butylbenzene	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
n-Propylbenzene	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
Naphthalene	48.9	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
o-Xylene	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
sec-Butylbenzene	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
Styrene	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
tert-Butylbenzene	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
Tetrachloroethene	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
Toluene	10.4	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
trans-1,2-Dichloroethene	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
trans-1,3-Dichloropropene	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
Trichloroethene	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
Trichlorofluoromethane	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
Vinyl chloride	ND	10.0		µg/Kg	1	11/5/2007 3:52:00 PM
Surr: 1,2-Dichloroethane-d4	98.3	71.5-112		%REC	1	11/5/2007 3:52:00 PM
Surr: 4-Bromofluorobenzene	92.9	75.7-122		%REC	1	11/5/2007 3:52:00 PM
Surr: Dibromofluoromethane	93.7	64.3-124		%REC	1	11/5/2007 3:52:00 PM
Surr: Toluene-d8	101	74.9-120		%REC	1	11/5/2007 3:52:00 PM

SCOEPA00025600

Specialty Analytical

Date: *12-Nov-07*

CLIENT:	Siltronic Corporation	**Client Sample ID:**	07-138
Lab Order:	0711013	**Collection Date:**	11/2/2007
Project:	Sediment Composites		
Lab ID:	0711013-07	**Matrix:**	SEDIMENT

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FLUORIDE, TCLP LEACHED		**SW1311/E340.2**				Analyst: **are**
Fluoride, TCLP Leached	ND	12		mg/L	1	11/9/2007
CYANIDE, TOTAL IN SOIL		**SW9010A**				Analyst: **are**
Cyanide	ND	0.200		mg/Kg	1	11/7/2007
FLUORIDE		**E 340.2**				Analyst: **are**
Fluoride	ND	10		mg/Kg	1	11/9/2007
FREE LIQUID		**SW9095**				Analyst: **are**
Free Liquid	2.73	1.00		%	1	11/9/2007

SCOEPA00025601

CLIENT: Siltronic Corporation
Work Order: 0711013
Project: Sediment Composites

ANALYTICAL QC SUMMARY REPORT

TestCode: 1311_BNA

Sample ID **MB-19882**	SampType: **MBLK**	TestCode: **1311_BNA**	Units: **mg/L**	Prep Date: **11/5/2007**	Run ID: **5973G_071106B**
Client ID: **ZZZZZ**	Batch ID: **19874**	TestNo: **1311/8270D**		Analysis Date: **11/6/2007**	SeqNo: **502185**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	ND	0.00100									
2,4,5-Trichlorophenol	ND	0.00500									
2,4-Dinitrotoluene	ND	0.00500									
Hexachlorobenzene	ND	0.00100									
Hexachlorobutadiene	ND	0.00200									
Hexachloroethane	ND	0.00200									
m-Cresol	ND	0.0100									
Nitrobenzene	ND	0.00100									
o-Cresol	ND	0.0100									
p-Cresol	ND	0.0100									
Pentachlorophenol	ND	0.00500									
Pyridine	ND	0.0100									
Surr: 2,4,6-Tribromophenol	0.09498	0	0.1	0	95	33.1	99.7	0	0		
Surr: 2-Fluorobiphenyl	0.03349	0	0.1	0	33.5	33.1	96.2	0	0		
Surr: 2-Fluorophenol	0.04242	0	0.1	0	42.4	13.4	57.1	0	0		
Surr: 4-Terphenyl-d14	0.05229	0	0.1	0	52.3	41	122	0	0		
Surr: Nitrobenzene-d5	0.06042	0	0.1	0	60.4	28.9	99.9	0	0		
Surr: Phenol-d6	0.02925	0	0.1	0	29.2	10.6	38.5	0	0		

Sample ID **LCS-19882**	SampType: **LCS**	TestCode: **1311_BNA**	Units: **mg/L**	Prep Date: **11/5/2007**	Run ID: **5973G_071106B**
Client ID: **ZZZZZ**	Batch ID: **19874**	TestNo: **1311/8270D**		Analysis Date: **11/6/2007**	SeqNo: **502186**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	0.00545	0.00100	0.05	0	10.9	27.8	80.9	0	0		S
2,4-Dinitrotoluene	0.04087	0.00500	0.05	0	81.7	52.9	97.6	0	0		
2-Chlorophenol	0.03102	0.00100	0.05	0	62	27.8	77.9	0	0		
4-Chloro-3-methylphenol	0.03657	0.00200	0.05	0	73.1	33.5	88.5	0	0		
Pentachlorophenol	0.02924	0.00500	0.05	0	58.5	43.3	113	0	0		
Phenol	0.0144	0.00200	0.05	0	28.8	13.4	40.9	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

SCOEPA00025602

CLIENT: Siltronic Corporation
Work Order: 0711013
Project: Sediment Composites

ANALYTICAL QC SUMMARY REPORT

TestCode: 1311_BNA

Sample ID	LCSD-19882	SampType:	LCSD	TestCode:	1311_BNA	Units:	mg/L	Prep Date:	11/5/2007	Run ID:	5973G_071106B
Client ID:	ZZZZZ	Batch ID:	19874	TestNo:	1311/8270D			Analysis Date:	11/6/2007	SeqNo:	502187

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	0.01188	0.00100	0.05	0	23.8	27.8	80.9	0.00545	74.2	20	SR
2,4-Dinitrotoluene	0.04087	0.00500	0.05	0	81.7	52.9	97.6	0.04087	0	20	
2-Chlorophenol	0.03151	0.00100	0.05	0	63	27.8	77.9	0.03102	1.57	20	
4-Chloro-3-methylphenol	0.03605	0.00200	0.05	0	72.1	33.5	88.5	0.03657	1.43	20	
Pentachlorophenol	0.03019	0.00500	0.05	0	60.4	43.3	113	0.02924	3.20	20	
Phenol	0.01344	0.00200	0.05	0	26.9	13.4	40.9	0.0144	6.90	20	

Sample ID	CCV-19882	SampType:	CCV	TestCode:	1311_BNA	Units:	mg/L	Prep Date:	11/5/2007	Run ID:	5973G_071106B
Client ID:	ZZZZZ	Batch ID:	19874	TestNo:	1311/8270D			Analysis Date:	11/6/2007	SeqNo:	502184

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	0.0502	0.00100	0.05	0	100	80	120	0	0		
2,4,6-Trichlorophenol	0.0533	0.00500	0.05	0	107	80	120	0	0		
2-Methylphenol	0.04971	0.00200	0.05	0	99.4	80	120	0	0		
3- & 4-Methylphenol	0.09724	0.0100	0.1	0	97.2	80	120	0	0		
Pentachlorophenol	0.04563	0.00500	0.05	0	91.3	80	120	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

SCOEPA00025603

CLIENT: Siltronic Corporation
Work Order: 0711013
Project: Sediment Composites

ANALYTICAL QC SUMMARY REPORT

TestCode: 1311_VOL

Sample ID MB	SampType: MBLK	TestCode: 1311_VOL	Units: mg/L	Prep Date:	Run ID: 5973J_071106C
Client ID: ZZZZZ	Batch ID: R49088	TestNo: SW1311/8260		Analysis Date: 11/6/2007	SeqNo: 502140

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	ND	0.050									
1,2-Dichloroethane	ND	0.050									
2-Butanone	ND	0.50									
Benzene	ND	0.050									
Carbon tetrachloride	ND	0.050									
Chlorobenzene	ND	0.050									
Chloroform	ND	0.050									
Tetrachloroethene	ND	0.050									
Trichloroethene	ND	0.050									
Vinyl chloride	ND	0.050									
Surr:1,2-Dichloroethane-d4	4.062	0	5	0	81.2	72.2	129	0	0		
Surr:4-Bromofluorobenzene	5.068	0	5	0	101	73.5	125	0	0		
Surr:Dibromofluoromethane	4.628	0	5	0	92.6	58.8	148	0	0		
Surr:Toluene-d8	6.425	0	5	0	128	79.8	137	0	0		

Sample ID 40MSVWS-1711	SampType: LCS	TestCode: 1311_VOL	Units: mg/L	Prep Date:	Run ID: 5973J_071106C
Client ID: ZZZZZ	Batch ID: R49088	TestNo: SW1311/8260		Analysis Date: 11/6/2007	SeqNo: 502139

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.03523	0.0010	0.04	0	88.1	69.8	154	0	0		
Benzene	0.04062	0.0010	0.04	0	102	73.7	114	0	0		
Chlorobenzene	0.0466	0.0010	0.04	0	116	88.2	109	0	0		S,O
Trichloroethene	0.03829	0.0010	0.04	0	95.7	63.4	120	0	0		

Sample ID A0711003-02BMS	SampType: MS	TestCode: 1311_VOL	Units: mg/L	Prep Date:	Run ID: 5973J_071106C
Client ID: ZZZZZ	Batch ID: R49088	TestNo: SW1311/8260		Analysis Date: 11/6/2007	SeqNo: 502146

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.04067	0.0010	0.04	0	102	51.4	176	0	0		
Benzene	0.04106	0.0010	0.04	0	103	71.5	118	0	0		
Chlorobenzene	0.04613	0.0010	0.04	0	115	79.8	114	0	0		S

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

SCOEPA00025604

CLIENT: Siltronic Corporation
Work Order: 0711013
Project: SedimentComposites

ANALYTICAL QC SUMMARY REPORT

TestCode: 1311_VOL

Sample ID: A0711003-02BMS	SampType: MS	TestCode: 1311_VOL	Units: mg/L	Prep Date:	Run ID: 5973J_071106C
Client ID: ZZZZZ	Batch ID: R49088	TestNo: SW1311/8260		Analysis Date: 11/6/2007	SeqNo: 502146

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene	0.04168	0.0010	0.04	0	104	73.6	120	0	0		

Sample ID: A0711003-02BMSD	SampType: MSD	TestCode: 1311_VOL	Units: mg/L	Prep Date:	Run ID: 5973J_071106C
Client ID: ZZZZZ	Batch ID: R49088	TestNo: SW1311/8260		Analysis Date: 11/6/2007	SeqNo: 502147

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.03943	0.0010	0.04	0	98.6	51.4	176	0.04067	3.10	20	
Benzene	0.04041	0.0010	0.04	0	101	71.5	118	0.04106	1.60	20	
Chlorobenzene	0.04503	0.0010	0.04	0	113	79.8	114	0.04613	2.41	20	
Trichloroethene	0.04035	0.0010	0.04	0	101	73.6	120	0.04168	3.24	20	

Sample ID: 40MSVWS-1715	SampType: CCV	TestCode: 1311_VOL	Units: mg/L	Prep Date:	Run ID: 5973J_071106C
Client ID: ZZZZZ	Batch ID: R49088	TestNo: SW1311/8260		Analysis Date: 11/6/2007	SeqNo: 502138

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.03713	0.0010	0.04	0	92.8	80	120	0	0		
Chloroform	0.04299	0.0010	0.04	0	107	80	120	0	0		
Vinyl chloride	0.04712	0.0010	0.04	0	118	80	120	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

SCOEPA00025605

CLIENT: Siltronic Corporation
Work Order: 0711013
Project: Sediment Composites

ANALYTICAL QC SUMMARY REPORT

TestCode: 1311_WC

Sample ID	MB-R49158	SampType:	MBLK	TestCode:	1311_WC	Units:	mg/L	Prep Date:		Run ID:	MANTECH_071109C
Client ID:	ZZZZZ	Batch ID:	R49158	TestNo:	SW1311/E34			Analysis Date:	11/9/2007	SeqNo:	503027

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride, TCLP Leached	0.4	4.0									J

Sample ID	LCS-R49158	SampType:	LCS	TestCode:	1311_WC	Units:	mg/L	Prep Date:		Run ID:	MANTECH_071109C
Client ID:	ZZZZZ	Batch ID:	R49158	TestNo:	SW1311/E34			Analysis Date:	11/9/2007	SeqNo:	503026

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride, TCLP Leached	97	4.0	100	0.4	96.6	90	110	0	0		

Sample ID	0711013-07ADUP	SampType:	DUP	TestCode:	1311_WC	Units:	mg/L	Prep Date:		Run ID:	MANTECH_071109C
Client ID:	07-138	Batch ID:	R49158	TestNo:	SW1311/E34			Analysis Date:	11/9/2007	SeqNo:	503024

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride, TCLP Leached	7.362	12	0	0	0	0	0	7.362	0	20	J

Sample ID	CCV	SampType:	CCV	TestCode:	1311_WC	Units:	mg/L	Prep Date:		Run ID:	MANTECH_071109C
Client ID:	ZZZZZ	Batch ID:	R49158	TestNo:	SW1311/E34			Analysis Date:	11/9/2007	SeqNo:	503025

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride, TCLP Leached	151.4	4.0	150	0	101	90	110	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

SCOEPA00025606

CLIENT: Siltronic Corporation
Work Order: 0711013
Project: Sediment Composites

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: MBLK-19898	SampType: MBLK	TestCode: 6010_S	Units: mg/Kg	Prep Date: 11/7/2007	Run ID: TJAIRIS_071107D
Client ID: ZZZZZ	Batch ID: 19898	TestNo: E6010		Analysis Date: 11/7/2007	SeqNo: 502422

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	2.00									
Barium	ND	1.00									
Chromium	ND	0.500									
Lead	ND	2.00									
Molybdenum	ND	1.00									
Selenium	ND	2.00									
Silver	ND	2.00									
Zinc	0.2	1.00									J

Sample ID: MBLK-19898	SampType: MBLK	TestCode: 6010_S	Units: mg/Kg	Prep Date: 11/7/2007	Run ID: TJAIRIS_071107D
Client ID: ZZZZZ	Batch ID: 19898	TestNo: E6010		Analysis Date: 11/8/2007	SeqNo: 502626

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	ND	0.100									

Sample ID: LCS-19898	SampType: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 11/7/2007	Run ID: TJAIRIS_071107D
Client ID: ZZZZZ	Batch ID: 19898	TestNo: E6010		Analysis Date: 11/7/2007	SeqNo: 502423

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	98.81	2.00	100	0	98.8	85.1	107	0	0		
Barium	49.87	1.00	50	0	99.7	85.7	110	0	0		
Cadmium	4.9	0.100	5	0	98	87.2	109	0	0		
Chromium	24.94	0.500	25	0	99.8	84	113	0	0		
Lead	101.7	2.00	100	0	102	84.9	109	0	0		
Molybdenum	48.62	1.00	50	0	97.2	80	120	0	0		
Selenium	99.6	2.00	100	0	99.6	88.7	111	0	0		
Silver	47.86	2.00	50	0	95.7	79.3	109	0	0		
Zinc	50.57	1.00	50	0	101	86.8	112	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blanl

SCOEPA00025607

CLIENT: Siltronic Corporation
Work Order: 0711013
Project: Sediment Composites

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID	0711013-07AMS	SampType:	MS	TestCode:	6010_S	Units:	mg/Kg	Prep Date:	11/7/2007	Run ID:	TJAIRIS_071107D
Client ID:	07-138	Batch ID:	19898	TestNo:	E6010			Analysis Date:	11/7/2007	SeqNo:	502428

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	83.19	1.75	87.72	0.7586	94	86.1	109	0	0		
Cadmium	4.825	0.0877	4.386	0.8448	90.7	86.4	113	0	0		
Chromium	52.18	0.439	21.93	34.45	80.9	75	121	0	0		
Lead	122.6	1.75	87.72	43.85	89.8	84.9	109	0	0		
Molybdenum	45.1	0.877	43.86	4.905	91.6	75	125	0	0		
Selenium	85.6	1.75	87.72	0	97.6	77.7	116	0	0		
Silver	40.09	1.75	43.86	0.6207	90	75	123	0	0		
Zinc	781.1	0.877	43.86	847.8	-152	86.2	113	0	0		S,MC

Sample ID	0711013-07AMS	SampType:	MS	TestCode:	6010_S	Units:	mg/Kg	Prep Date:	11/7/2007	Run ID:	TJAIRIS_071107D
Client ID:	07-138	Batch ID:	19898	TestNo:	E6010			Analysis Date:	11/8/2007	SeqNo:	502630

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	105.1	4.39	43.86	56.22	111	75	125	0	0		

Sample ID	0711013-07AMSD	SampType:	MSD	TestCode:	6010_S	Units:	mg/Kg	Prep Date:	11/7/2007	Run ID:	TJAIRIS_071107D
Client ID:	07-138	Batch ID:	19898	TestNo:	E6010			Analysis Date:	11/7/2007	SeqNo:	502429

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	81.73	1.75	87.72	0.7586	92.3	86.1	109	83.19	1.78	20	
Cadmium	4.675	0.0877	4.386	0.8448	87.3	86.4	113	4.825	3.14	20	
Chromium	50.37	0.439	21.93	34.45	72.6	75	121	52.18	3.54	20	S
Lead	122.5	1.75	87.72	43.85	89.6	84.9	109	122.6	0.143	20	
Molybdenum	42.98	0.877	43.86	4.905	86.8	75	125	45.1	4.80	20	
Selenium	83.59	1.75	87.72	0	95.3	77.7	116	85.6	2.37	20	
Silver	39.23	1.75	43.86	0.6207	88	75	123	40.09	2.17	20	
Zinc	784.6	0.877	43.86	847.8	-144	86.2	113	781.1	0.437	20	S,MC

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blanl

SCOEPA00025608

CLIENT: Siltronic Corporation
Work Order: 0711013
Project: Sediment Composites

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: 0711013-07AMSD	SampType: MSD	TestCode: 6010_S	Units: mg/Kg	Prep Date: 11/7/2007	Run ID: TJAIRIS_071107D
Client ID: 07-138	Batch ID: 19898	TestNo: E6010		Analysis Date: 11/8/2007	SeqNo: 502631

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	104.9	4.39	43.86	56.22	111	75	125	105.1	0.209	20	

Sample ID: 0711013-07ADUP	SampType: DUP	TestCode: 6010_S	Units: mg/Kg	Prep Date: 11/7/2007	Run ID: TJAIRIS_071107D
Client ID: 07-138	Batch ID: 19898	TestNo: E6010		Analysis Date: 11/7/2007	SeqNo: 502427

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	1.85	0	0	0	0	0	0.7586	0	20	
Barium	53.33	0.926	0	0	0	0	0	56.22	5.26	20	
Cadmium	0.787	0.0926	0	0	0	0	0	0.8448	7.08	20	
Chromium	30.2	0.463	0	0	0	0	0	34.45	13.1	20	
Lead	39.68	1.85	0	0	0	0	0	43.85	10.0	20	
Molybdenum	4.769	0.926	0	0	0	0	0	4.905	2.83	20	
Selenium	ND	1.85	0	0	0	0	0	0	0	20	
Silver	0.4815	1.85	0	0	0	0	0	0.6207	0	20	J
Zinc	785.6	0.926	0	0	0	0	0	847.8	7.63	20	

Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	Run ID: TJAIRIS_071107D
Client ID: ZZZZZ	Batch ID: 19898	TestNo: E6010		Analysis Date: 11/7/2007	SeqNo: 502421

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	98.9	2.00	100	0	98.9	90	110	0	0		
Barium	51.29	1.00	50	0	103	90	110	0	0		
Cadmium	4.86	0.100	5	0	97.2	90	110	0	0		
Chromium	24.76	0.500	25	0	99	90	110	0	0		
Lead	101.5	2.00	100	0	102	90	110	0	0		
Molybdenum	47.72	1.00	50	0	95.4	90	110	0	0		
Selenium	100.7	2.00	100	0	101	90	110	0	0		
Silver	47.04	2.00	50	0	94.1	90	110	0	0		
Zinc	49.87	1.00	50	0	99.7	90	110	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; B - Analyte detected in the associated Method Blanl

SCOEPA00025609

CLIENT: Siltronic Corporation
Work Order: 0711013
Project: Sediment Composites

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID	CCV	SampType:	CCV	TestCode:	6010_S	Units:	mg/Kg	Prep Date:		Run ID:	TJA IRIS_071107D
Client ID:	ZZZZZ	Batch ID:	19898	TestNo:	E6010			Analysis Date:	11/7/2007	SeqNo:	502424

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	98.85	2.00	100	0	98.8	90	110	0	0		
Barium	49.4	1.00	50	0	98.8	90	110	0	0		
Cadmium	4.87	0.100	5	0	97.4	90	110	0	0		
Chromium	24.85	0.500	25	0	99.4	90	110	0	0		
Lead	101.1	2.00	100	0	101	90	110	0	0		
Molybdenum	48.34	1.00	50	0	96.7	90	110	0	0		
Selenium	98.04	2.00	100	0	98	90	110	0	0		
Silver	48.52	2.00	50	0	97	90	110	0	0		
Zinc	50.31	1.00	50	0	101	90	110	0	0		

Sample ID	CCV	SampType:	CCV	TestCode:	6010_S	Units:	mg/Kg	Prep Date:		Run ID:	TJA IRIS_071107D
Client ID:	ZZZZZ	Batch ID:	19898	TestNo:	E6010			Analysis Date:	11/7/2007	SeqNo:	502432

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	99.72	2.00	100	0	99.7	90	110	0	0		
Barium	49.33	1.00	50	0	98.7	90	110	0	0		
Cadmium	4.86	0.100	5	0	97.2	90	110	0	0		
Chromium	24.82	0.500	25	0	99.3	90	110	0	0		
Lead	100.4	2.00	100	0	100	90	110	0	0		
Molybdenum	48.14	1.00	50	0	96.3	90	110	0	0		
Selenium	99.6	2.00	100	0	99.6	90	110	0	0		
Silver	48.07	2.00	50	0	96.1	90	110	0	0		
Zinc	50.58	1.00	50	0	101	90	110	0	0		

Sample ID	CCV	SampType:	CCV	TestCode:	6010_S	Units:	mg/Kg	Prep Date:		Run ID:	TJA IRIS_071107D
Client ID:	ZZZZZ	Batch ID:	19898	TestNo:	E6010			Analysis Date:	11/8/2007	SeqNo:	502628

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	50.37	1.00	50	0	101	90	110	0	0		
Cadmium	4.83	0.100	5	0	96.6	90	110	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

SCOEPA00025610

CLIENT: Siltronic Corporation
Work Order: 0711013
Project: SedimentComposites

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: CCV	SampType: CCV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	Run ID: TJAIRIS_071107D
Client ID: ZZZZZ	Batch ID: 19898	TestNo: E6010		Analysis Date: 11/8/2007	SeqNo: 502636

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	52.3	1.00	50	0	105	90	110	0	0		

Sample ID: ICV	SampType: ICV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	Run ID: TJAIRIS_071107D
Client ID: ZZZZZ	Batch ID: 19898	TestNo: E6010		Analysis Date: 11/7/2007	SeqNo: 502420

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	100.8	2.00	100	0	101	90	110	0	0		
Barium	50.93	1.00	50	0	102	90	110	0	0		
Cadmium	5.06	0.100	5	0	101	90	110	0	0		
Chromium	25.71	0.500	25	0	103	90	110	0	0		
Lead	101.4	2.00	100	0	101	90	110	0	0		
Molybdenum	50.28	1.00	50	0	101	90	110	0	0		
Selenium	101.9	2.00	100	0	102	90	110	0	0		
Silver	49.75	2.00	50	0	99.5	90	110	0	0		
Zinc	50.81	1.00	50	0	102	90	110	0	0		

Sample ID: ICV	SampType: ICV	TestCode: 6010_S	Units: mg/Kg	Prep Date:	Run ID: TJAIRIS_071107D
Client ID: ZZZZZ	Batch ID: 19898	TestNo: E6010		Analysis Date: 11/8/2007	SeqNo: 502625

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	51.67	1.00	50	0	103	90	110	0	0		
Cadmium	5.07	0.100	5	0	101	90	110	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

SCOEPA00025611

CLIENT: Siltronic Corporation
Work Order: 0711013
Project: Sediment Composites

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_TCLP

Sample ID	MBLK-19896	SampType:	MBLK	TestCode:	6010_TCLP	Units:	mg/L	Prep Date:	11/7/2007	Run ID:	TJAIRIS_071107B
Client ID:	ZZZZZ	Batch ID:	19896	TestNo:	E1311/6010/7			Analysis Date:	11/7/2007	SeqNo:	502363

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic, TCLP	ND	0.0200									
Barium, TCLP	ND	0.0100									
Cadmium, TCLP	ND	0.00100									
Chromium, TCLP	ND	0.00500									
Lead, TCLP	ND	0.0200									
Molybdenum, TCLP	ND	0.0100									
Selenium, TCLP	ND	0.0200									
Silver, TCLP	ND	0.0100									
Zinc, TCLP	ND	0.0100									

Sample ID	LCS-19896	SampType:	LCS	TestCode:	6010_TCLP	Units:	mg/L	Prep Date:	11/7/2007	Run ID:	TJAIRIS_071107B
Client ID:	ZZZZZ	Batch ID:	19896	TestNo:	E1311/6010/7			Analysis Date:	11/7/2007	SeqNo:	502364

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic, TCLP	0.9902	0.0200	1	0	99	93.8	107	0	0		
Barium, TCLP	0.503	0.0100	0.5	0	101	95	111	0	0		
Cadmium, TCLP	0.0495	0.00100	0.05	0	99	91.8	110	0	0		
Chromium, TCLP	0.2537	0.00500	0.25	0	101	93.6	113	0	0		
Lead, TCLP	1.007	0.0200	1	0	101	93.1	112	0	0		
Selenium, TCLP	1.006	0.0200	1	0	101	93.9	111	0	0		
Silver, TCLP	0.4817	0.0100	0.5	0	96.3	90.6	115	0	0		
Zinc, TCLP	0.5003	0.0100	0.5	0	100	92.3	111	0	0		

Sample ID	0711019-01AMS	SampType:	MS	TestCode:	6010_TCLP	Units:	mg/L	Prep Date:	11/7/2007	Run ID:	TJAIRIS_071107B
Client ID:	ZZZZZ	Batch ID:	19896	TestNo:	E1311/6010/7			Analysis Date:	11/7/2007	SeqNo:	502367

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic, TCLP	4.842	0.100	5	0	96.8	90.1	110	0	0		
Cadmium, TCLP	0.2385	0.00500	0.25	0.002	94.6	93.4	110	0	0		
Chromium, TCLP	1.212	0.0250	1.25	0	97	93.4	112	0	0		
Lead, TCLP	4.826	0.100	5	0.0395	95.7	91.9	112	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; B - Analyte detected in the associated Method Blank

SCOEPA00025612

CLIENT: Siltronic Corporation
Work Order: 0711013
Project: Sediment Composites

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_TCLP

Sample ID 0711019-01AMS	SampType: MS	TestCode: 6010_TCLP	Units: mg/L	Prep Date: 11/7/2007	Run ID: TJAIRIS_071107B
Client ID: ZZZZZ	Batch ID: 19896	TestNo: E1311/6010/7		Analysis Date: 11/7/2007	SeqNo: 502367

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium, TCLP	4.894	0.100	5	0.033	97.2	93.5	113	0	0		
Silver, TCLP	2.304	0.0500	2.5	0	92.1	90.1	113	0	0		
Zinc, TCLP	2.517	0.0500	2.5	0.0675	98	93	110	0	0		

Sample ID 0711019-01AMS	SampType: MS	TestCode: 6010_TCLP	Units: mg/L	Prep Date: 11/7/2007	Run ID: TJAIRIS_071107B
Client ID: ZZZZZ	Batch ID: 19896	TestNo: E1311/6010/7		Analysis Date: 11/8/2007	SeqNo: 502611

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium, TCLP	4.602	0.250	2.5	1.895	108	90.7	112	0	0		

Sample ID 0711019-01AMSD	SampType: MSD	TestCode: 6010_TCLP	Units: mg/L	Prep Date: 11/7/2007	Run ID: TJAIRIS_071107B
Client ID: ZZZZZ	Batch ID: 19896	TestNo: E1311/6010/7		Analysis Date: 11/7/2007	SeqNo: 502368

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic, TCLP	4.884	0.100	5	0	97.7	90.1	110	4.842	0.843	20	
Cadmium, TCLP	0.24	0.00500	0.25	0.002	95.2	93.4	110	0.2385	0.627	20	
Chromium, TCLP	1.222	0.0250	1.25	0	97.8	93.4	112	1.212	0.821	20	
Lead, TCLP	4.888	0.100	5	0.0395	97	91.9	112	4.826	1.29	20	
Selenium, TCLP	4.92	0.100	5	0.033	97.7	93.5	113	4.894	0.530	20	
Silver, TCLP	2.326	0.0500	2.5	0	93.1	90.1	113	2.304	0.994	20	
Zinc, TCLP	2.558	0.0500	2.5	0.0675	99.6	93	110	2.517	1.62	20	

Sample ID 0711019-01AMSD	SampType: MSD	TestCode: 6010_TCLP	Units: mg/L	Prep Date: 11/7/2007	Run ID: TJAIRIS_071107B
Client ID: ZZZZZ	Batch ID: 19896	TestNo: E1311/6010/7		Analysis Date: 11/8/2007	SeqNo: 502612

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium, TCLP	4.855	0.250	2.5	1.895	118	90.7	112	4.602	5.34	20	S

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blanl

SCOEPA00025613

CLIENT: Siltronic Corporation
Work Order: 0711013
Project: Sediment Composites

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_TCLP

Sample ID: 0711019-01ADUP	SampType: DUP	TestCode: 6010_TCLP	Units: mg/L	Prep Date: 11/7/2007	Run ID: TJAIRIS_071107B
Client ID: ZZZZZ	Batch ID: 19896	TestNo: E1311/6010/7		Analysis Date: 11/7/2007	SeqNo: 502366

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic, TCLP	ND	0.100	0	0	0	0	0	0	0	20	
Cadmium, TCLP	0.002	0.00500	0	0	0	0	0	0.002	0	20	J
Chromium, TCLP	ND	0.0250	0	0	0	0	0	0	0	20	
Lead, TCLP	0.0455	0.100	0	0	0	0	0	0.0395	0	20	J
Molybdenum, TCLP	ND	0.0500	0	0	0	0	0	0.0105	0	20	
Selenium, TCLP	ND	0.100	0	0	0	0	0	0.033	0	20	
Silver, TCLP	ND	0.0500	0	0	0	0	0	0	0	20	
Zinc, TCLP	0.065	0.0500	0	0	0	0	0	0.0675	3.77	20	

Sample ID: 0711019-01ADUP	SampType: DUP	TestCode: 6010_TCLP	Units: mg/L	Prep Date: 11/7/2007	Run ID: TJAIRIS_071107B
Client ID: ZZZZZ	Batch ID: 19896	TestNo: E1311/6010/7		Analysis Date: 11/8/2007	SeqNo: 502610

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium, TCLP	1.845	0.250	0	0	0	0	0	1.895	2.67	20	

Sample ID: CCV	SampType: CCV	TestCode: 6010_TCLP	Units: mg/L	Prep Date:	Run ID: TJAIRIS_071107B
Client ID: ZZZZZ	Batch ID: 19896	TestNo: E1311/6010/7		Analysis Date: 11/7/2007	SeqNo: 502372

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic, TCLP	1.009	0.0200	1	0	101	90	110	0	0		
Barium, TCLP	0.5177	0.0100	0.5	0	104	90	110	0	0		
Cadmium, TCLP	0.0496	0.00100	0.05	0	99.2	90	110	0	0		
Chromium, TCLP	0.2541	0.00500	0.25	0	102	90	110	0	0		
Lead, TCLP	1.019	0.0200	1	0	102	90	110	0	0		
Molybdenum, TCLP	0.4902	0.0100	0	0	0	0	0	0	0		
Selenium, TCLP	1.022	0.0200	1	0	102	90	110	0	0		
Silver, TCLP	0.4836	0.0100	0.5	0	96.7	90	110	0	0		
Zinc, TCLP	0.5087	0.0100	0.5	0	102	90	110	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blanl

SCOEPA00025614

CLIENT: Siltronic Corporation
Work Order: 0711013
Project: Sediment Composites

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_TCLP

Sample ID CCV	SampType: CCV	TestCode: 6010_TCLP	Units: mg/L	Prep Date:	Run ID: TJAIRIS_071107B
Client ID: ZZZZZ	Batch ID: 19896	TestNo: E1311/6010/7		Analysis Date: 11/7/2007	SeqNo: 502374

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium, TCLP	0.5129	0.0100	0.5	0	103	90	110	0	0		

Sample ID CCV	SampType: CCV	TestCode: 6010_TCLP	Units: mg/L	Prep Date:	Run ID: TJAIRIS_071107B
Client ID: ZZZZZ	Batch ID: 19896	TestNo: E1311/6010/7		Analysis Date: 11/8/2007	SeqNo: 502613

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium, TCLP	0.5037	0.0100	0.5	0	101	90	110	0	0		

Sample ID ICV	SampType: ICV	TestCode: 6010_TCLP	Units: mg/L	Prep Date:	Run ID: TJAIRIS_071107B
Client ID: ZZZZZ	Batch ID: 19896	TestNo: E1311/6010/7		Analysis Date: 11/7/2007	SeqNo: 502362

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic, TCLP	1.008	0.0200	1	0	101	90	110	0	0		
Barium, TCLP	0.5093	0.0100	0.5	0	102	90	110	0	0		
Cadmium, TCLP	0.0506	0.00100	0.05	0	101	90	110	0	0		
Chromium, TCLP	0.2571	0.00500	0.25	0	103	90	110	0	0		
Lead, TCLP	1.014	0.0200	1	0	101	90	110	0	0		
Molybdenum, TCLP	0.5028	0.0100	0	0	0	90	110	0	0		
Selenium, TCLP	1.019	0.0200	1	0	102	90	110	0	0		
Silver, TCLP	0.4975	0.0100	0.5	0	99.5	90	110	0	0		
Zinc, TCLP	0.5081	0.0100	0.5	0	102	90	110	0	0		

Sample ID ICV	SampType: ICV	TestCode: 6010_TCLP	Units: mg/L	Prep Date:	Run ID: TJAIRIS_071107B
Client ID: ZZZZZ	Batch ID: 19896	TestNo: E1311/6010/7		Analysis Date: 11/8/2007	SeqNo: 502608

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium, TCLP	0.5167	0.0100	0.5	0	103	90	110	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

SCOEPA00025615

CLIENT: Siltronic Corporation
Work Order: 0711013
Project: Sediment Composites

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID **MB-19877** SampType: **MBLK** TestCode: **8260_S** Units: **µg/Kg** Prep Date: **11/5/2007** Run ID: **5973J_071105A**
Client ID: **ZZZZZ** Batch ID: **19877** TestNo: **SW8260B** Analysis Date: **11/5/2007** SeqNo: **501721**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	10.0									
1,1,1-Trichloroethane	ND	10.0									
1,1,2,2-Tetrachloroethane	ND	10.0									
1,1,2-Trichloroethane	ND	10.0									
1,1-Dichloroethane	ND	10.0									
1,1-Dichloroethene	ND	10.0									
1,1-Dichloropropene	ND	10.0									
1,2,3-Trichlorobenzene	ND	10.0									
1,2,3-Trichloropropane	ND	10.0									
1,2,4-Trichlorobenzene	ND	10.0									
1,2,4-Trimethylbenzene	0.94	10.0									J
1,2-Dibromo-3-chloropropane	ND	10.0									
1,2-Dibromoethane	ND	10.0									
1,2-Dichlorobenzene	ND	10.0									
1,2-Dichloroethane	ND	10.0									
1,2-Dichloropropane	ND	10.0									
1,3,5-Trimethylbenzene	ND	10.0									
1,3-Dichlorobenzene	ND	10.0									
1,3-Dichloropropane	ND	10.0									
1,4-Dichlorobenzene	ND	10.0									
2,2-Dichloropropane	ND	10.0									
2-Butanone	ND	20.0									
2-Chlorotoluene	ND	10.0									
2-Hexanone	ND	20.0									
4-Chlorotoluene	ND	10.0									
4-Isopropyltoluene	ND	10.0									
4-Methyl-2-pentanone	ND	20.0									
Acetone	ND	50.0									
Benzene	ND	10.0									
Bromobenzene	ND	10.0									
Bromochloromethane	ND	10.0									

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

SCOEPA00025616

CLIENT: Siltronic Corporation
Work Order: 0711013
Project: Sediment Composites

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID **MB-19877** SampType: **MBLK** TestCode: **8260_S** Units: **µg/Kg** Prep Date: **11/5/2007** Run ID: **5973J_071105A**
Client ID: **ZZZZZ** Batch ID: **19877** TestNo: **SW8260B** Analysis Date: **11/5/2007** SeqNo: **501721**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromodichloromethane	ND	10.0									
Bromoform	ND	10.0									
Bromomethane	ND	10.0									
Carbon disulfide	ND	10.0									
Carbon tetrachloride	ND	10.0									
Chlorobenzene	ND	10.0									
Chloroethane	ND	10.0									
Chloroform	ND	10.0									
Chloromethane	ND	10.0									
cis-1,2-Dichloroethene	ND	10.0									
cis-1,3-Dichloropropene	ND	10.0									
Dibromochloromethane	ND	10.0									
Dibromomethane	ND	10.0									
Dichlorodifluoromethane	ND	10.0									
Ethylbenzene	ND	10.0									
Hexachlorobutadiene	ND	10.0									
Isopropylbenzene	ND	10.0									
m,p-Xylene	ND	20.0									
Methyl tert-butyl ether	ND	10.0									
Methylene chloride	ND	50.0									
n-Butylbenzene	ND	10.0									
n-Propylbenzene	ND	10.0									
Naphthalene	4.8	10.0									J
o-Xylene	ND	10.0									
sec-Butylbenzene	ND	10.0									
Styrene	ND	10.0									
tert-Butylbenzene	ND	10.0									
Tetrachloroethene	ND	10.0									
Toluene	ND	10.0									
trans-1,2-Dichloroethene	ND	10.0									
trans-1,3-Dichloropropene	ND	10.0									

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Siltronic Corporation
Work Order: 0711013
Project: Sediment Composites

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID	MB-19877	SampType:	MBLK	TestCode:	8260_S	Units:	µg/Kg	Prep Date:	11/5/2007	Run ID:	5973J_071105A
Client ID:	ZZZZZ	Batch ID:	19877	TestNo:	SW8260B			Analysis Date:	11/5/2007	SeqNo:	501721

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene	ND	10.0									
Trichlorofluoromethane	ND	10.0									
Vinyl chloride	ND	10.0									
Surr:1,2-Dichloroethane-d4	93.9	0	100	0	93.9	71.5	112	0	0		
Surr:4-Bromofluorobenzene	98.71	0	100	0	98.7	75.7	122	0	0		
Surr:Dibromofluoromethane	90.29	0	100	0	90.3	64.3	124	0	0		
Surr:Toluene-d8	95.88	0	100	0	95.9	74.9	120	0	0		

Sample ID	LCS-19877	SampType:	LCS	TestCode:	8260_S	Units:	µg/Kg	Prep Date:	11/5/2007	Run ID:	5973J_071105A
Client ID:	ZZZZZ	Batch ID:	19877	TestNo:	SW8260B			Analysis Date:	11/5/2007	SeqNo:	501720

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	48.98	10.0	60	0	81.6	65.4	133	0	0		
Benzene	51.1	10.0	60	0	85.2	78	123	0	0		
Chlorobenzene	53	10.0	60	0	88.3	79.5	125	0	0		
Toluene	50.75	10.0	60	0	84.6	77.5	132	0	0		
Trichloroethene	50.73	10.0	60	0	84.6	72.4	124	0	0		

Sample ID	0711013-07AMS	SampType:	MS	TestCode:	8260_S	Units:	µg/Kg	Prep Date:	11/5/2007	Run ID:	5973J_071105A
Client ID:	07-138	Batch ID:	19877	TestNo:	SW8260B			Analysis Date:	11/5/2007	SeqNo:	501723

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	36.99	10.0	40	0	92.5	69.2	158	0	0		
Benzene	34.16	10.0	40	0	85.4	71.7	147	0	0		
Chlorobenzene	23.98	10.0	40	0	60	75	148	0	0		S
Toluene	35.14	10.0	40	10.4	61.8	75.8	153	0	0		S
Trichloroethene	32.19	10.0	40	0	80.5	77.1	138	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; B - Analyte detected in the associated Method Blanl

SCOEPA00025618

CLIENT: Siltronic Corporation
Work Order: 0711013
Project: Sediment Composites

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S

Sample ID	0711013-07AMSD	SampType:	MSD	TestCode:	8260_S	Units:	µg/Kg	Prep Date:	11/5/2007	Run ID:	5973J_071105A
Client ID:	07-138	Batch ID:	19877	TestNo:	SW8260B			Analysis Date:	11/5/2007	SeqNo:	501724

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	39.33	10.0	40	0	98.3	69.2	158	36.99	6.13	20	
Benzene	39.69	10.0	40	0	99.2	71.7	147	34.16	15.0	20	
Chlorobenzene	34.36	10.0	40	0	85.9	75	148	23.98	35.6	20	R
Toluene	41.22	10.0	40	10.4	77	75.8	153	35.14	15.9	20	
Trichloroethene	37.69	10.0	40	0	94.2	77.1	138	32.19	15.7	20	

Sample ID	CCV-19877	SampType:	CCV	TestCode:	8260_S	Units:	µg/Kg	Prep Date:		Run ID:	5973J_071105A
Client ID:	ZZZZZ	Batch ID:	19877	TestNo:	SW8260B			Analysis Date:	11/5/2007	SeqNo:	501719

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	59.96	10.0	60	0	99.9	80	120	0	0		
1,2-Dichloropropane	55.23	10.0	60	0	92	80	120	0	0		
Chloroform	51.04	10.0	60	0	85.1	80	120	0	0		
Ethylbenzene	57.32	10.0	60	0	95.5	80	120	0	0		
Toluene	57.66	10.0	60	0	96.1	80	120	0	0		
Vinyl chloride	68.05	10.0	60	0	113	80	120	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

SCOEPA00025619

CLIENT: Siltronic Corporation
Work Order: 0711013
Project: Sediment Composites

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270LL_S

Sample ID	MB-19881	SampType:	MBLK	TestCode:	8270LL_S	Units:	µg/Kg	Prep Date:	11/5/2007	Run ID:	5973G_071106C
Client ID:	ZZZZZ	Batch ID:	19881	TestNo:	SW8270D			Analysis Date:	11/6/2007	SeqNo:	502204

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	ND	33.3									
1,2-Dichlorobenzene	ND	33.3									
1,3-Dichlorobenzene	ND	33.3									
1,4-Dichlorobenzene	ND	33.3									
2,4,5-Trichlorophenol	ND	33.3									
2,4,6-Trichlorophenol	ND	33.3									
2,4-Dichlorophenol	ND	33.3									
2,4-Dimethylphenol	ND	33.3									
2,4-Dinitrophenol	ND	333									
2,4-Dinitrotoluene	ND	33.3									
2,6-Dinitrotoluene	ND	33.3									
2-Chloronaphthalene	ND	33.3									
2-Chlorophenol	ND	33.3									
2-Methylnaphthalene	ND	33.3									
2-Methylphenol	ND	33.3									
2-Nitroaniline	ND	33.3									
2-Nitrophenol	ND	167									
3,3-Dichlorobenzidine	ND	167									
3-&4-Methylphenol	ND	33.3									
3-Nitroaniline	ND	33.3									
4,6-Dinitro-2-methylphenol	ND	167									
4-Bromophenyl phenyl ether	ND	33.3									
4-Chloro-3-methylphenol	ND	33.3									
4-Chloroaniline	ND	33.3									
4-Chlorophenyl phenyl ether	ND	33.3									
4-Nitroaniline	ND	33.3									
4-Nitrophenol	ND	167									
Acenaphthene	ND	33.3									
Acenaphthylene	ND	33.3									
Anthracene	ND	33.3									
Benz(a)anthracene	ND	33.3									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

SCOEPA00025620

CLIENT: Siltronic Corporation
WorkOrder: 0711013
Project: SedimentComposites

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270LL_S

Sample ID **MB-19881** SampType: **MBLK** TestCode: **8270LL_S** Units: **µg/Kg** Prep Date: **11/5/2007** Run ID: **5973G_071106C**
Client ID: **ZZZZZ** Batch ID: **19881** TestNo: **SW8270D** Analysis Date: **11/6/2007** SeqNo: **502204**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(a)pyrene	ND	33.3									
Benzo(b)fluoranthene	ND	33.3									
Benzo(g,h,i)perylene	ND	33.3									
Benzo(k)fluoranthene	ND	33.3									
Benzoic Acid	ND	667									
Benzyl Alcohol	ND	33.3									
Bis(2-chloroethoxy)methane	ND	33.3									
Bis(2-chloroethyl)ether	ND	33.3									
Bis(2-chloroisopropyl)ether	ND	33.3									
Bis(2-ethylhexyl)phthalate	ND	33.3									
Butyl benzyl phthalate	ND	33.3									
Carbazole	ND	33.3									
Chrysene	ND	33.3									
Di-n-butyl phthalate	ND	33.3									
Di-n-octyl phthalate	ND	33.3									
Dibenz(a,h)anthracene	ND	33.3									
Dibenzofuran	ND	33.3									
Diethyl phthalate	ND	33.3									
Dimethyl phthalate	ND	33.3									
Fluoranthene	ND	33.3									
Fluorene	ND	33.3									
Hexachlorobenzene	ND	33.3									
Hexachlorobutadiene	ND	33.3									
Hexachlorocyclopentadiene	ND	33.3									
Hexachloroethane	ND	33.3									
Indeno(1,2,3-cd)pyrene	ND	33.3									
Isophorone	ND	33.3									
N-Nitrosodi-n-propylamine	ND	33.3									
N-Nitrosodimethylamine	ND	33.3									
N-Nitrosodiphenylamine	6.333	33.3									J
Naphthalene	ND	33.3									

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blanl

CLIENT: Siltronic Corporation
Work Order: 0711013
Project: SedimentComposites

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270LL_S

Sample ID MB-19881	SampType: MBLK	TestCode: 8270LL_S	Units: µg/Kg	Prep Date: 11/5/2007	Run ID: 5973G_071106C
Client ID: ZZZZZ	Batch ID: 19881	TestNo: SW8270D		Analysis Date: 11/6/2007	SeqNo: 502204

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrobenzene	10.67	33.3									J
Pentachlorophenol	ND	50.0									
Phenanthrene	ND	33.3									
Phenol	ND	33.3									
Pyrene	ND	33.3									
Surr:2,4,6-Tribromophenol	3216	0	3333	0	96.5	57.8	119	0	0		
Surr:2-Fluorobiphenyl	3012	0	3333	0	90.4	52.6	93.2	0	0		
Surr:2-Fluorophenol	2851	0	3333	0	85.5	40.7	111	0	0		
Surr:4-Terphenyl-d14	1762	0	3333	0	52.9	49.8	118	0	0		
Surr:Nitrobenzene-d5	2478	0	3333	0	74.3	44.8	103	0	0		
Surr:Phenol-d6	2868	0	3333	0	86	47.5	117	0	0		

Sample ID LCS-19881	SampType: LCS	TestCode: 8270LL_S	Units: µg/Kg	Prep Date: 11/5/2007	Run ID: 5973G_071106C
Client ID: ZZZZZ	Batch ID: 19881	TestNo: SW8270D		Analysis Date: 11/6/2007	SeqNo: 502205

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	1354	33.3	1667	0	81.2	30.9	106	0	0		
1,4-Dichlorobenzene	1285	33.3	1667	0	77.1	31.4	98.2	0	0		
2,4-Dinitrotoluene	1373	33.3	1667	0	82.4	59.7	111	0	0		
2-Chlorophenol	1435	33.3	1667	0	86.1	46.2	105	0	0		
4-Chloro-3-methylphenol	1349	33.3	1667	0	80.9	47.4	114	0	0		
4-Nitrophenol	1173	167	1667	0	70.4	45.3	114	0	0		
Acenaphthene	1459	33.3	1667	0	87.5	48.2	105	0	0		
N-Nitrosodi-n-propylamine	1150	33.3	1667	0	69	42.4	101	0	0		
Pentachlorophenol	909.7	50.0	1667	0	54.6	46.8	120	0	0		
Phenol	1334	33.3	1667	0	80.1	51.1	103	0	0		
Pyrene	1629	33.3	1667	0	97.8	56.7	130	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blanl

SCOEPA00025622

CLIENT: Siltronic Corporation
Work Order: 0711013
Project: SedimentComposites

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270LL_S

Sample ID **0711005-02AMS** SampType: **MS** TestCode: **8270LL_S** Units: **µg/Kg** Prep Date: **11/5/2007** Run ID: **5973G_071106C**
Client ID: **ZZZZZ** Batch ID: **19881** TestNo: **SW8270D** Analysis Date: **11/6/2007** SeqNo: **502206**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	953.7	33.3	1667	0	57.2	31.1	92.7	0	0		
1,4-Dichlorobenzene	797.7	33.3	1667	0	47.9	16.5	85.6	0	0		
2,4-Dinitrotoluene	1164	33.3	1667	0	69.8	43.4	118	0	0		
2-Chlorophenol	1164	33.3	1667	0	69.9	36.8	103	0	0		
4-Chloro-3-methylphenol	1143	33.3	1667	0	68.6	49.5	119	0	0		
4-Nitrophenol	1096	167	1667	0	65.8	45	111	0	0		
Acenaphthene	1205	33.3	1667	0	72.3	45.1	102	0	0		
N-Nitrosodi-n-propylamine	956.3	33.3	1667	0	57.4	45.6	94.1	0	0		
Pentachlorophenol	681	50.0	1667	0	40.9	36.6	112	0	0		
Phenol	1149	33.3	1667	0	68.9	37.7	107	0	0		
Pyrene	1257	33.3	1667	0	75.4	42.4	131	0	0		

Sample ID **0711005-02AMSD** SampType: **MSD** TestCode: **8270LL_S** Units: **µg/Kg** Prep Date: **11/5/2007** Run ID: **5973G_071106C**
Client ID: **ZZZZZ** Batch ID: **19881** TestNo: **SW8270D** Analysis Date: **11/6/2007** SeqNo: **502207**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	911	33.3	1667	0	54.7	31.1	92.7	953.7	4.58	20	
1,4-Dichlorobenzene	783	33.3	1667	0	47	16.5	85.6	797.7	1.86	20	
2,4-Dinitrotoluene	1074	33.3	1667	0	64.4	43.4	118	1164	8.07	20	
2-Chlorophenol	1059	33.3	1667	0	63.5	36.8	103	1164	9.48	20	
4-Chloro-3-methylphenol	1058	33.3	1667	0	63.5	49.5	119	1143	7.72	20	
4-Nitrophenol	992	167	1667	0	59.5	45	111	1096	9.99	20	
Acenaphthene	1087	33.3	1667	0	65.2	45.1	102	1205	10.3	20	
N-Nitrosodi-n-propylamine	869.3	33.3	1667	0	52.2	45.6	94.1	956.3	9.53	20	
Pentachlorophenol	617.7	50.0	1667	0	37.1	36.6	112	681	9.75	20	
Phenol	1034	33.3	1667	0	62	37.7	107	1149	10.5	20	
Pyrene	1158	33.3	1667	0	69.5	42.4	131	1257	8.14	20	

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

SCOEPA00025623

CLIENT: Siltronic Corporation
Work Order: 0711013
Project: Sediment Composites

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270LL_S

Sample ID CCV-19881	SampType: CCV	TestCode: 8270LL_S	Units: µg/Kg	Prep Date:	Run ID: 5973G_071106C
Client ID: ZZZZZ	Batch ID: 19881	TestNo: SW8270D		Analysis Date: 11/6/2007	SeqNo: 502195

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	1673	33.3	1667	0	100	80	120	0	0		
2,4,6-Trichlorophenol	1777	33.3	1667	0	107	80	120	0	0		
2,4-Dichlorophenol	1703	33.3	1667	0	102	80	120	0	0		
2-Nitrophenol	1875	167	1667	0	113	80	120	0	0		
4-Chloro-3-methylphenol	1620	33.3	1667	0	97.2	80	120	0	0		
Acenaphthene	1802	33.3	1667	0	108	80	120	0	0		
Benzo(a)pyrene	1490	33.3	1667	0	89.4	80	120	0	0		
Di-n-octylphthalate	1908	33.3	1667	0	114	80	120	0	0		
Fluoranthene	1669	33.3	1667	0	100	80	120	0	0		
Hexachlorobutadiene	1553	33.3	1667	0	93.2	80	120	0	0		
N-Nitrosodiphenylamine	1733	33.3	1667	0	104	80	120	0	0		
Pentachlorophenol	1521	50.0	1667	0	91.3	80	120	0	0		
Phenol	1627	33.3	1667	0	97.6	80	120	0	0		

Sample ID CCV-19881	SampType: CCV	TestCode: 8270LL_S	Units: µg/Kg	Prep Date:	Run ID: 5973G_071106C
Client ID: ZZZZZ	Batch ID: 19881	TestNo: SW8270D		Analysis Date: 11/7/2007	SeqNo: 502346

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	1648	33.3	1667	0	98.9	80	120	0	0		
2,4,6-Trichlorophenol	1811	33.3	1667	0	109	80	120	0	0		
2,4-Dichlorophenol	1684	33.3	1667	0	101	80	120	0	0		
2-Nitrophenol	1909	167	1667	0	115	80	120	0	0		
4-Chloro-3-methylphenol	1543	33.3	1667	0	92.6	80	120	0	0		
Acenaphthene	1762	33.3	1667	0	106	80	120	0	0		
Benzo(a)pyrene	1450	33.3	1667	0	87	80	120	0	0		
Di-n-octylphthalate	1882	33.3	1667	0	113	80	120	0	0		
Fluoranthene	1657	33.3	1667	0	99.4	80	120	0	0		
Hexachlorobutadiene	1602	33.3	1667	0	96.1	80	120	0	0		
N-Nitrosodiphenylamine	1637	33.3	1667	0	98.2	80	120	0	0		
Pentachlorophenol	1367	50.0	1667	0	82	80	120	0	0		
Phenol	1561	33.3	1667	0	93.6	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; B - Analyte detected in the associated Method Blanl

SCOEPA00025624

CLIENT: Siltronic Corporation
Work Order: 0711013
Project: Sediment Composites

ANALYTICAL QC SUMMARY REPORT

TestCode: CN-S

Sample ID	MB-R49100	SampType:	MBLK	TestCode:	CN-S	Units:	mg/Kg	Prep Date:		Run ID:	LACHAT_071107A
Client ID:	ZZZZZ	Batch ID:	R49100	TestNo:	SW9010A			Analysis Date:	11/7/2007	SeqNo:	502223

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	ND	0.200									

Sample ID	LCS-R49100	SampType:	LCS	TestCode:	CN-S	Units:	mg/Kg	Prep Date:		Run ID:	LACHAT_071107A
Client ID:	ZZZZZ	Batch ID:	R49100	TestNo:	SW9010A			Analysis Date:	11/7/2007	SeqNo:	502222

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	4.324	0.200	4	0	108	80	120	0	0		

Sample ID	A0711016-01AMS	SampType:	MS	TestCode:	CN-S	Units:	mg/Kg	Prep Date:		Run ID:	LACHAT_071107A
Client ID:	ZZZZZ	Batch ID:	R49100	TestNo:	SW9010A			Analysis Date:	11/7/2007	SeqNo:	502219

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	2.458	0.200	2	0.376	104	67.9	119	0	0		

Sample ID	A0711016-01AMSD	SampType:	MSD	TestCode:	CN-S	Units:	mg/Kg	Prep Date:		Run ID:	LACHAT_071107A
Client ID:	ZZZZZ	Batch ID:	R49100	TestNo:	SW9010A			Analysis Date:	11/7/2007	SeqNo:	502220

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	2.484	0.200	2	0.376	105	67.9	119	2.458	1.05	20	

Sample ID	CCV	SampType:	CCV	TestCode:	CN-S	Units:	mg/Kg	Prep Date:		Run ID:	LACHAT_071107A
Client ID:	ZZZZZ	Batch ID:	R49100	TestNo:	SW9010A			Analysis Date:	11/7/2007	SeqNo:	502221

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	6.138	0.200	6	0	102	90	110	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

SCOEPA00025625

CLIENT: Siltronic Corporation
Work Order: 0711013
Project: Sediment Composites

ANALYTICAL QC SUMMARY REPORT

TestCode: FL_S

Sample ID	MB-R49157	SampType:	MBLK	TestCode:	FL_S	Units:	mg/Kg	Prep Date:		Run ID:	MANTECH_071109B
Client ID:	ZZZZZ	Batch ID:	R49157	TestNo:	E 340.2			Analysis Date:	11/9/2007	SeqNo:	503022

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	0.1	10									J

Sample ID	LCS-R49157	SampType:	LCS	TestCode:	FL_S	Units:	mg/Kg	Prep Date:		Run ID:	MANTECH_071109B
Client ID:	ZZZZZ	Batch ID:	R49157	TestNo:	E 340.2			Analysis Date:	11/9/2007	SeqNo:	503021

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	24.25	10	25	0.1	96.6	85	115	0	0		

Sample ID	0711013-07ADUP	SampType:	DUP	TestCode:	FL_S	Units:	mg/Kg	Prep Date:		Run ID:	MANTECH_071109B
Client ID:	07-138	Batch ID:	R49157	TestNo:	E 340.2			Analysis Date:	11/9/2007	SeqNo:	503019

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	0.7	10	0	0	0	0	0	0.7	0	20	J

Sample ID	CCV	SampType:	CCV	TestCode:	FL_S	Units:	mg/Kg	Prep Date:		Run ID:	MANTECH_071109B
Client ID:	ZZZZZ	Batch ID:	R49157	TestNo:	E 340.2			Analysis Date:	11/9/2007	SeqNo:	503020

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	37.85	10	37.5	0	101	90	110	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

SCOEPA00025626

CLIENT: Siltronic Corporation
Work Order: 0711013
Project: Sediment Composites

ANALYTICAL QC SUMMARY REPORT

TestCode: FREE LIQ.

Sample ID	0711013-07BDUP	SampType:	DUP	TestCode:	FREE LIQ.	Units:	%	Prep Date:		Run ID:	WETCHEM_071109B
Client ID:	07-138	Batch ID:	R49137	TestNo:	SW9095			Analysis Date:	11/9/2007	SeqNo:	502724

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Free Liquid	1.47	1.00	0	0	0	0	0	2.73	60.0	20	RF

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

SCOEPA00025627

CLIENT: Siltronic Corporation
Work Order: 0711013
Project: Sediment Composites

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_CTS

Sample ID	MB-19894	SampType:	MBLK	TestCode:	HG_CTS	Units:	mg/Kg	Prep Date:	11/7/2007	Run ID:	CVAA_071107A
Client ID:	ZZZZZ	Batch ID:	19894	TestNo:	SW7471			Analysis Date:	11/7/2007	SeqNo:	502260

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.0167									

Sample ID	LCS-19894	SampType:	LCS	TestCode:	HG_CTS	Units:	mg/Kg	Prep Date:	11/7/2007	Run ID:	CVAA_071107A
Client ID:	ZZZZZ	Batch ID:	19894	TestNo:	SW7471			Analysis Date:	11/7/2007	SeqNo:	502259

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.1926	0.0167	0.208	0	92.6	88.2	113	0	0		

Sample ID	0711017-03AMS	SampType:	MS	TestCode:	HG_CTS	Units:	mg/Kg-dry	Prep Date:	11/7/2007	Run ID:	CVAA_071107A
Client ID:	ZZZZZ	Batch ID:	19894	TestNo:	SW7471			Analysis Date:	11/7/2007	SeqNo:	502256

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.3387	0.0258	0.3207	0.003495	105	78.1	125	0	0		

Sample ID	0711017-03AMSD	SampType:	MSD	TestCode:	HG_CTS	Units:	mg/Kg-dry	Prep Date:	11/7/2007	Run ID:	CVAA_071107A
Client ID:	ZZZZZ	Batch ID:	19894	TestNo:	SW7471			Analysis Date:	11/7/2007	SeqNo:	502257

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.3373	0.0258	0.3207	0.003495	104	78.1	125	0.3387	0.418	20	

Sample ID	0710206-01ADUP	SampType:	DUP	TestCode:	HG_CTS	Units:	mg/Kg	Prep Date:	11/7/2007	Run ID:	CVAA_071107A
Client ID:	ZZZZZ	Batch ID:	19894	TestNo:	SW7471			Analysis Date:	11/7/2007	SeqNo:	502250

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	14.43	1.47	0	0	0	0	0	15.66	8.18	20	

Sample ID	0711017-03ADUP	SampType:	DUP	TestCode:	HG_CTS	Units:	mg/Kg-dry	Prep Date:	11/7/2007	Run ID:	CVAA_071107A
Client ID:	ZZZZZ	Batch ID:	19894	TestNo:	SW7471			Analysis Date:	11/7/2007	SeqNo:	502255

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blanl

SCOEPA00025628

CLIENT: Siltronic Corporation
Work Order: 0711013
Project: Sediment Composites

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_CTS

Sample ID	0711017-03ADUP	SampType:	DUP	TestCode:	HG_CTS	Units:	mg/Kg-dry	Prep Date:	11/7/2007	Run ID:	CVAA_071107A
Client ID:	ZZZZZ	Batch ID:	19894	TestNo:	SW7471			Analysis Date:	11/7/2007	SeqNo:	502255

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.0266	0	0	0	0	0	0.003495	0	20	

Sample ID	CCV	SampType:	CCV	TestCode:	HG_CTS	Units:	mg/Kg	Prep Date:		Run ID:	CVAA_071107A
Client ID:	ZZZZZ	Batch ID:	19894	TestNo:	SW7471			Analysis Date:	11/7/2007	SeqNo:	502258

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.2087	0.0167	0.208	0	100	90	110	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

SCOEPA00025629

CLIENT: Siltronic Corporation
Work Order: 0711013
Project: Sediment Composites

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_TCLP

Sample ID	MB-19895	SampType:	MBLK	TestCode:	HG_TCLP	Units:	mg/L	Prep Date:	11/7/2007	Run ID:	CVAA_071107C
Client ID:	ZZZZZ	Batch ID:	19895	TestNo:	1311/7000			Analysis Date:	11/7/2007	SeqNo:	502356

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury, TCLP	0.0000081	0.000100									J

Sample ID	LCS-19895	SampType:	LCS	TestCode:	HG_TCLP	Units:	mg/L	Prep Date:	11/7/2007	Run ID:	CVAA_071107C
Client ID:	ZZZZZ	Batch ID:	19895	TestNo:	1311/7000			Analysis Date:	11/7/2007	SeqNo:	502355

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury, TCLP	0.004046	0.000100	0.004	0.0000081	101	85.4	116	0	0		

Sample ID	A0711017-05BMS	SampType:	MS	TestCode:	HG_TCLP	Units:	mg/L	Prep Date:	11/7/2007	Run ID:	CVAA_071107C
Client ID:	ZZZZZ	Batch ID:	19895	TestNo:	1311/7000			Analysis Date:	11/7/2007	SeqNo:	502359

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury, TCLP	0.004303	0.000100	0.004	0.0005576	93.6	69.5	125	0	0		

Sample ID	A0711017-05BMSD	SampType:	MSD	TestCode:	HG_TCLP	Units:	mg/L	Prep Date:	11/7/2007	Run ID:	CVAA_071107C
Client ID:	ZZZZZ	Batch ID:	19895	TestNo:	1311/7000			Analysis Date:	11/7/2007	SeqNo:	502360

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury, TCLP	0.004428	0.000100	0.004	0.0005576	96.8	69.5	125	0.004303	2.86	20	

Sample ID	A0711017-05BDUP	SampType:	DUP	TestCode:	HG_TCLP	Units:	mg/L	Prep Date:	11/7/2007	Run ID:	CVAA_071107C
Client ID:	ZZZZZ	Batch ID:	19895	TestNo:	1311/7000			Analysis Date:	11/7/2007	SeqNo:	502358

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury, TCLP	0.0005479	0.000100	0	0	0	0	0	0.0005576	1.75	20	

Sample ID	CCV	SampType:	CCV	TestCode:	HG_TCLP	Units:	mg/L	Prep Date:		Run ID:	CVAA_071107C
Client ID:	ZZZZZ	Batch ID:	19895	TestNo:	1311/7000			Analysis Date:	11/7/2007	SeqNo:	502354

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

SCOEPA00025630

CLIENT: Siltronic Corporation
Work Order: 0711013
Project: Sediment Composites

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_TCLP

Sample ID: CCV	SampType: CCV	TestCode: HG_TCLP	Units: mg/L	Prep Date:	Run ID: CVAA_071107C
Client ID: ZZZZZ	Batch ID: 19895	TestNo: 1311/7000		Analysis Date: 11/7/2007	SeqNo: 502354

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury, TCLP	0.004105	0.000100	0.004	0	103	90	110	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

SCOEPA00025631

KEY TO FLAGS

A	This sample contains a Gasoline Range Organic not identified as a specific hydrocarbon product. The result was quantified against gasoline calibration standards.
A1	This sample contains a Diesel Range Organic not identified as a specific hydrocarbon product. The result was quantified against diesel calibration standards.
A2	This sample contains a Lube Oil Range Organic not identified as a specific hydrocarbon product. The result was quantified against a lube oil calibration standard.
A3	The result was determined to be Non-Detect based on hydrocarbon pattern recognition. The product was carry-over from another hydrocarbon type.
B	The blank exhibited a positive result greater than the reporting limit for this compound.
CN	See Case Narrative.
D	Result is based from a dilution.
E	Result exceeds the calibration range for this compound. The result should be considered as estimate.
F	The positive result for this hydrocarbon is due to single component contamination. The product does not match any hydrocarbon in the fuels library.
H	Sample was analyzed outside recommended hold time.
HT	At clients request, sample was analyzed outside recommended hold time.
J	The result for this analyte is between the MDL and the PQL and should be considered as estimated concentration.
K	Diesel result is biased high due to amount of Oil contained in the sample.
L	Diesel result is biased high due to amount of Gasoline contained in the sample.
M	Oil result is biased high due to amount of Diesel contained in the sample.
N	Gasoline result is biased high due to amount of Diesel contained in the sample.
MC	Sample concentration is greater than 4x the spiked value, the spiked value is considered insignificant.
MI	Result is outside control limits due to matrix interference.
MSA	Value determined by Method of Standard Addition.
O	Laboratory Control Standard (LCS) exceeded laboratory control limits, but meets CCV criteria. Data meets EPA requirements.
P	Detection levels of Methylene Chloride may be laboratory contamination, due to previous analysis or background levels.
Q	Detection levels elevated due to sample matrix.
R	RPD control limits were exceeded.
RF	Duplicate failed due to result being at or near the method-reporting limit.
RP	Matrix spike values exceed established QC limits, post digestion spike is in control.
S	Recovery is outside control limits.
SC	Closing CCV or LCS exceeded high recovery control limits, but associated samples are non-detect. Data meets EPA requirements.
*	The result for this parameter was greater that the maximum contaminant level of the TCLP regulatory limit.

Rev Dec 15, 2004

CHAIN OF CUSTODY RECORD

Page 1 of 1

Specialty Analytical
19761 S.W. 95th. Avenue
Tualatin, OR 97062
(503) 612-9007 - Phone
(503) 612-8572 - Fax

Contact Person/Project Manager: Tom Rothschild
Company: Siltronic
Address: 7200 NW Front Ave
Portland, OR 97210
Phone: 503-219-7374 Fax: 503-219-4144
Project No.: Project Name:
Invoice To: Accts Payable P.O. No.: 4500521869

Collected By:
Signature: Scott Mallon
Printed: Scott Mallon (MFA)
Signature: Myron W. Burr
Printed: MYRON BURR (SILTRONIC)

Turn Around Time
☒ Normal
☐ Rush _____
Specify
Rush Analyses Must Be Scheduled With The Lab In Advance

For Laboratory Use
Lab Job No. 071103
Shipped Via: Specialty
Air Bill No.:
Temperature On Receipt: Amb °C
Specialty Analytical Containers? Y / N
Specialty Analytical Trip Blanks? Y / N

Date	Time	Sample I.D.	Matrix	No. of Containers	Analyses: Total, As, Ba, Cd, Cr, F-, Pb, Hg, Mo	Se, Ag, Zn	Total; Cn	TCLP - As, Ba, Cd, Cr, F-, Pb, Hg, Mo	TCLP; Ag, As, Zn	Se, Ag, As, Zn	8260, TCLP + Total	8270, TCLP + Total	Paint Filter Test NEED 2.	Comments	Lab I.D.
11.2.07	0927	07-138-a	Sed	1	X	X	X	X	X	X	X	X		composite all	
11.2.07	0931	07-138-b	sed	1	X	X	X	X	X	X	X	X		6 samples -	
11.2.07	0934	07-138-c	Sed	1	X	X	X	X	X	X	X	X		a through f -	
11.2.07	0938	07-138-d	Sed	1	X	X	X	X	X	X	X	X		and report as	
11.2.07	0941	07-138-e	sed		X	X	X	X	X	X	X	X		07-138.	
11.2.07	0944	07-138-f	Sed		X	X	X	X	X	X	X	X			

Relinquished By:	Date	Time	Received By:	Relinquished By:	Date	Time
Company: Siltronic	11.2.07	1323	Company: Specialty	Company:		

Unless Reclaimed, Samples Will Be Disposed of 60 Days After Receipt.

Received For Lab By:	Date	Time
Nikki Sulton	11/2/07	1459

Copies: White-Original Yellow-Project File Pink-Customer Copy

SCOEPA00025633

Specialty Analytical

19761 S.W. 95th Avenue
Tualatin, OR 97062
(503) 612-9007
Fax (503) 612-8572
1 (877) 612-9007

October 11, 2007

Thomas Rothschild
Siltronic Corporation
7200 NW Front Ave
M/S 30
Portland, OR 97210

TEL: (503) 219-7313
FAX: (503) 219-7599

RE: FAB2 Storm Water Outfall Maintenance

Dear Thomas Rothschild:

Order No.: 0710047

Specialty Analytical received 1 sample on 10/5/2007 for the analyses presented in the following report.

This is a preliminary report that contains incomplete data or data that has not been fully validated. Caution should be exercised in the use of any data presented as final reported results may not reflect the values presented.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Ned Engleson
Project Manager

Technical Review

SCOEPA00025634

Specialty Analytical

Date: *11-Oct-07*

CLIENT:	Siltronic Corporation	**Client Sample ID:**	07-129
Lab Order:	0710047	**Collection Date:**	10/5/2007 9:40:00 AM
Project:	FAB2 Storm Water Outfall Maintenance		
Lab ID:	0710047-01	**Matrix:**	STORM WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS		**E200.7**				Analyst: **zau**
Arsenic	ND	0.0200		mg/L	1	10/8/2007 6:29:29 PM
Barium	ND	0.0100		mg/L	1	10/8/2007 6:29:29 PM
Cadmium	ND	0.00100		mg/L	1	10/8/2007 6:29:29 PM
Chromium	ND	0.00500		mg/L	1	10/8/2007 6:29:29 PM
Lead	ND	0.0200		mg/L	1	10/8/2007 6:29:29 PM
Molybdenum	ND	0.0100		mg/L	1	10/8/2007 6:29:29 PM
Selenium	ND	0.0200		mg/L	1	10/8/2007 6:29:29 PM
Silver	ND	0.0100		mg/L	1	10/8/2007 6:29:29 PM
Zinc	0.192	0.0100		mg/L	1	10/8/2007 6:29:29 PM
MERCURY		**E245.2**				Analyst: **zau**
Mercury	ND	0.000100		mg/L	1	10/11/2007
BASE/NEUTRALS/ACIDS		**E625**				Analyst: **das**
1,2,4-Trichlorobenzene	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
1,2-Dichlorobenzene	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
1,2-Diphenylhydrazine	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
1,3-Dichlorobenzene	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
1,4-Dichlorobenzene	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
2,4,6-Trichlorophenol	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
2,4-Dichlorophenol	ND	10.0		µg/L	1	10/9/2007 11:53:00 AM
2,4-Dimethylphenol	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
2,4-Dinitrophenol	ND	10.0		µg/L	1	10/9/2007 11:53:00 AM
2,4-Dinitrotoluene	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
2,6-Dinitrotoluene	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
2-Chloronaphthalene	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
2-Chlorophenol	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
2-Nitrophenol	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
3,3'-Dichlorobenzidine	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
4,6-Dinitro-2-methylphenol	ND	10.0		µg/L	1	10/9/2007 11:53:00 AM
4-Bromophenyl phenyl ether	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
4-Chloro-3-methylphenol	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
4-Chlorophenyl phenyl ether	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
4-Nitrophenol	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
Acenaphthene	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
Acenaphthylene	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
Aniline	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
Anthracene	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
Benz(a)anthracene	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
Benzidine	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
Benzo(a)pyrene	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
Benzo(b)fluoranthene	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM

SCOEPA00025635

Specialty Analytical

Date:

CLIENT:	Siltronic Corporation	**Client Sample ID:**	07-129
Lab Order:	0710047	**Collection Date:**	10/5/2007 9:40:00 AM
Project:	FAB2 Storm Water Outfall Maintenance		
Lab ID:	0710047-01	**Matrix:**	STORM WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
BASE/NEUTRALS/ACIDS		**E625**				Analyst: **das**
Benzo(g,h,i)perylene	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
Benzo(k)fluoranthene	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
Benzoic Acid	ND	20.1		µg/L	1	10/9/2007 11:53:00 AM
Bis(2-chloroethoxy)methane	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
Bis(2-chloroethyl)ether	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
Bis(2-chloroisopropyl)ether	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
Bis(2-ethylhexyl)phthalate	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
Butyl benzyl phthalate	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
Carbazole	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
Chrysene	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
Di-n-butyl phthalate	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
Di-n-octyl phthalate	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
Dibenz(a,h)anthracene	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
Diethyl phthalate	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
Dimethyl phthalate	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
Fluoranthene	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
Fluorene	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
Hexachlorobenzene	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
Hexachlorobutadiene	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
Hexachlorocyclopentadiene	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
Hexachloroethane	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
Indeno(1,2,3-cd)pyrene	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
Isophorone	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
N-Nitrosodi-n-propylamine	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
N-Nitrosodimethylamine	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
N-Nitrosodiphenylamine	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
Naphthalene	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
Nitrobenzene	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
o-Cresol	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
p-Cresol	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
Pentachlorophenol	ND	10.0		µg/L	1	10/9/2007 11:53:00 AM
Phenanthrene	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
Phenol	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
Pyrene	ND	5.02		µg/L	1	10/9/2007 11:53:00 AM
Pyridine	ND	10.0		µg/L	1	10/9/2007 11:53:00 AM
Surr: 2,4,6-Tribromophenol	79.2	33.1-99.7		%REC	1	10/9/2007 11:53:00 AM
Surr: 2-Fluorobiphenyl	33.6	33.1-96.2		%REC	1	10/9/2007 11:53:00 AM
Surr: 2-Fluorophenol	40.0	13.4-57.1		%REC	1	10/9/2007 11:53:00 AM
Surr: 4-Terphenyl-d14	90.8	41-122		%REC	1	10/9/2007 11:53:00 AM
Surr: Nitrobenzene-d5	61.0	28.9-99.9		%REC	1	10/9/2007 11:53:00 AM
Surr: Phenol-d6	27.9	10.6-38.5		%REC	1	10/9/2007 11:53:00 AM

SCOEPA00025636

Specialty Analytical

Date:

CLIENT:	Siltronic Corporation	**Client Sample ID:**	07-129
Lab Order:	0710047	**Collection Date:**	10/5/2007 9:40:00 AM
Project:	FAB2 Storm Water Outfall Maintenance		
Lab ID:	0710047-01	**Matrix:**	STORM WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PURGEABLES		**E624**				Analyst: **bda**
1,1,1-Trichloroethane	ND	1.00		µg/L	1	10/8/2007 1:14:00 PM
1,1,2,2-Tetrachloroethane	ND	1.00		µg/L	1	10/8/2007 1:14:00 PM
1,1,2-Trichloroethane	ND	1.00		µg/L	1	10/8/2007 1:14:00 PM
1,1-Dichloroethane	ND	1.00		µg/L	1	10/8/2007 1:14:00 PM
1,1-Dichloroethene	ND	1.00		µg/L	1	10/8/2007 1:14:00 PM
1,2-Dichlorobenzene	ND	1.00		µg/L	1	10/8/2007 1:14:00 PM
1,2-Dichloroethane	ND	1.00		µg/L	1	10/8/2007 1:14:00 PM
1,2-Dichloropropane	ND	1.00		µg/L	1	10/8/2007 1:14:00 PM
1,3-Dichlorobenzene	ND	1.00		µg/L	1	10/8/2007 1:14:00 PM
1,4-Dichlorobenzene	ND	1.00		µg/L	1	10/8/2007 1:14:00 PM
2-Butanone	ND	10.0		µg/L	1	10/8/2007 1:14:00 PM
2-Chloroethyl vinyl ether	ND	1.00		µg/L	1	10/8/2007 1:14:00 PM
4-Methyl-2-pentanone	ND	10.0		µg/L	1	10/8/2007 1:14:00 PM
Acrolein	ND	10.0		µg/L	1	10/8/2007 1:14:00 PM
Acrylonitrile	ND	1.00		µg/L	1	10/8/2007 1:14:00 PM
Benzene	ND	1.00		µg/L	1	10/8/2007 1:14:00 PM
Bromodichloromethane	ND	1.00		µg/L	1	10/8/2007 1:14:00 PM
Bromoform	ND	1.00		µg/L	1	10/8/2007 1:14:00 PM
Bromomethane	ND	1.00		µg/L	1	10/8/2007 1:14:00 PM
Carbon tetrachloride	ND	1.00		µg/L	1	10/8/2007 1:14:00 PM
Chlorobenzene	ND	1.00		µg/L	1	10/8/2007 1:14:00 PM
Chloroethane	ND	1.00		µg/L	1	10/8/2007 1:14:00 PM
Chloroform	ND	1.00		µg/L	1	10/8/2007 1:14:00 PM
Chloromethane	ND	1.00		µg/L	1	10/8/2007 1:14:00 PM
cis-1,3-Dichloropropene	ND	1.00		µg/L	1	10/8/2007 1:14:00 PM
Dibromochloromethane	ND	1.00		µg/L	1	10/8/2007 1:14:00 PM
Ethylbenzene	ND	1.00		µg/L	1	10/8/2007 1:14:00 PM
m,p-Xylene	ND	2.00		µg/L	1	10/8/2007 1:14:00 PM
Methylene chloride	ND	5.00		µg/L	1	10/8/2007 1:14:00 PM
o-Xylene	ND	1.00		µg/L	1	10/8/2007 1:14:00 PM
Tetrachloroethene	ND	1.00		µg/L	1	10/8/2007 1:14:00 PM
Toluene	ND	1.00		µg/L	1	10/8/2007 1:14:00 PM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	10/8/2007 1:14:00 PM
trans-1,3-Dichloropropene	ND	1.00		µg/L	1	10/8/2007 1:14:00 PM
Trichloroethene	ND	1.00		µg/L	1	10/8/2007 1:14:00 PM
Trichlorofluoromethane	ND	1.00		µg/L	1	10/8/2007 1:14:00 PM
Vinyl chloride	ND	1.00		µg/L	1	10/8/2007 1:14:00 PM
Surr: 1,2-Dichloroethane-d4	90.9	83.4-126		%REC	1	10/8/2007 1:14:00 PM
Surr: 4-Bromofluorobenzene	92.7	90.9-117		%REC	1	10/8/2007 1:14:00 PM
Surr: Dibromofluoromethane	96.4	81.1-112		%REC	1	10/8/2007 1:14:00 PM
Surr: Toluene-d8	108	90-120		%REC	1	10/8/2007 1:14:00 PM

SCOEPA00025637

Specialty Analytical

Date:

CLIENT:	Siltronic Corporation	**Client Sample ID:**	07-129
Lab Order:	0710047	**Collection Date:**	10/5/2007 9:40:00 AM
Project:	FAB2 Storm Water Outfall Maintenance		
Lab ID:	0710047-01	**Matrix:**	STORM WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PH		**E150.1**				Analyst: **are**
pH	5.57	1.00		pH units	1	10/5/2007
CYANIDE, TOTAL		**E335.4**				Analyst: **are**
Cyanide	ND	0.010		mg/L	1	10/8/2007
FLUORIDE IN WATER		**E340.2**				Analyst: **are**
Fluoride	ND	0.20		mg/L	1	10/5/2007

SCOEPA00025638

CLIENT: Siltronic Corporation
Work Order: 0710047
Project: FAB2 Storm Water Outfall Maintenance

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7

Sample ID	MBLK-19642	SampType:	MBLK	TestCode:	200.7	Units:	mg/L	Prep Date:	10/8/2007	Run ID:	TJAIRIS_071008A
Client ID:	ZZZZZ	Batch ID:	19642	TestNo:	E200.7			Analysis Date:	10/8/2007	SeqNo:	496020

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.0200									
Barium	ND	0.0100									
Cadmium	ND	0.00100									
Chromium	ND	0.00500									
Lead	ND	0.0200									
Molybdenum	ND	0.0100									
Selenium	ND	0.0200									
Silver	ND	0.0100									
Zinc	ND	0.0100									

Sample ID	LCS-19642	SampType:	LCS	TestCode:	200.7	Units:	mg/L	Prep Date:	10/8/2007	Run ID:	TJAIRIS_071008A
Client ID:	ZZZZZ	Batch ID:	19642	TestNo:	E200.7			Analysis Date:	10/8/2007	SeqNo:	496021

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.9758	0.0200	1	0	97.6	93.8	107	0	0		
Barium	0.4911	0.0100	0.5	0	98.2	95	111	0	0		
Cadmium	0.0489	0.00100	0.05	0	97.8	91.8	110	0	0		
Chromium	0.2542	0.00500	0.25	0	102	93.9	113	0	0		
Lead	0.9793	0.0200	1	0	97.9	93.1	112	0	0		
Molybdenum	0.4987	0.0100	0.5	0	99.7	92.4	112	0	0		
Selenium	0.9893	0.0200	1	0	98.9	93.9	111	0	0		
Zinc	0.4957	0.0100	0.5	0	99.1	92.3	111	0	0		

Sample ID	LCS-19642	SampType:	LCS	TestCode:	200.7	Units:	mg/L	Prep Date:	10/8/2007	Run ID:	TJAIRIS_071008A
Client ID:	ZZZZZ	Batch ID:	19642	TestNo:	E200.7			Analysis Date:	10/9/2007	SeqNo:	496209

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silver	0.5525	0.0100	0.5	0	110	90.6	115	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

SCOEPA00025639

CLIENT: Siltronic Corporation
Work Order: 0710047
Project: FAB2 Storm Water Outfall Maintenance

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7

Sample ID	0710047-01BMS	SampType:	MS	TestCode:	200.7	Units:	mg/L	Prep Date:	10/8/2007	Run ID:	TJAIRIS_071008A	
Client ID:	07-129	Batch ID:	19642	TestNo:	E200.7			Analysis Date:	10/8/2007	SeqNo:	496024	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic		1.032	0.0200	1	0	103	90.1	110	0	0		
Barium		0.5291	0.0100	0.5	0.0081	104	90.7	112	0	0		
Cadmium		0.0512	0.00100	0.05	0	102	93.4	110	0	0		
Chromium		0.2654	0.00500	0.25	0.0024	105	93.4	112	0	0		
Lead		1.038	0.0200	1	0	104	91.9	112	0	0		
Molybdenum		0.5309	0.0100	0.5	0.0017	106	90.3	114	0	0		
Selenium		1.057	0.0200	1	0	106	93.5	113	0	0		
Silver		0.2846	0.0100	0.5	0	56.9	90.1	113	0	0		S,RP
Zinc		0.7049	0.0100	0.5	0.1924	103	93	110	0	0		

Sample ID	0710047-01BMSD	SampType:	MSD	TestCode:	200.7	Units:	mg/L	Prep Date:	10/8/2007	Run ID:	TJAIRIS_071008A	
Client ID:	07-129	Batch ID:	19642	TestNo:	E200.7			Analysis Date:	10/8/2007	SeqNo:	496025	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic		1.009	0.0200	1	0	101	90.1	110	1.032	2.25	20	
Barium		0.5151	0.0100	0.5	0.0081	101	90.7	112	0.5291	2.68	20	
Cadmium		0.0499	0.00100	0.05	0	99.8	93.4	110	0.0512	2.57	20	
Chromium		0.2597	0.00500	0.25	0.0024	103	93.4	112	0.2654	2.17	20	
Lead		1.016	0.0200	1	0	102	91.9	112	1.038	2.14	20	
Molybdenum		0.5196	0.0100	0.5	0.0017	104	90.3	114	0.5309	2.15	20	
Selenium		1.04	0.0200	1	0	104	93.5	113	1.057	1.62	20	
Silver		0.3898	0.0100	0.5	0	78	90.1	113	0.2846	31.2	20	S,R,RP
Zinc		0.6951	0.0100	0.5	0.1924	101	93	110	0.7049	1.40	20	

Sample ID	0710047-01BDUP	SampType:	DUP	TestCode:	200.7	Units:	mg/L	Prep Date:	10/8/2007	Run ID:	TJAIRIS_071008A	
Client ID:	07-129	Batch ID:	19642	TestNo:	E200.7			Analysis Date:	10/8/2007	SeqNo:	496023	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic		ND	0.0200	0	0	0	0	0	0	0	20	
Barium		0.0051	0.0100	0	0	0	0	0	0.0081	0	20	J
Cadmium		ND	0.00100	0	0	0	0	0	0	0	20	

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; B - Analyte detected in the associated Method Blank

SCOEPA00025640

CLIENT: Siltronic Corporation
Work Order: 0710047
Project: FAB2 Storm Water Outfall Maintenance

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7

Sample ID 0710047-01BDUP	SampType: DUP	TestCode: 200.7	Units: mg/L	Prep Date: 10/8/2007	Run ID: TJAIRIS_071008A
Client ID: 07-129	Batch ID: 19642	TestNo: E200.7		Analysis Date: 10/8/2007	SeqNo: 496023

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	0.00500	0	0	0	0	0	0.0024	0	20	
Lead	ND	0.0200	0	0	0	0	0	0	0	20	
Molybdenum	ND	0.0100	0	0	0	0	0	0.0017	0	20	
Selenium	ND	0.0200	0	0	0	0	0	0	0	20	
Silver	ND	0.0100	0	0	0	0	0	0	0	20	
Zinc	0.1862	0.0100	0	0	0	0	0	0.1924	3.28	20	

Sample ID CCV	SampType: CCV	TestCode: 200.7	Units: mg/L	Prep Date:	Run ID: TJAIRIS_071008A
Client ID: ZZZZZ	Batch ID: 19642	TestNo: E200.7		Analysis Date: 10/8/2007	SeqNo: 496028

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	1.023	0.0200	1	0	102	90	110	0	0		
Barium	0.5166	0.0100	0.5	0	103	90	110	0	0		
Cadmium	0.0507	0.00100	0.05	0	101	90	110	0	0		
Chromium	0.259	0.00500	0.25	0	104	90	110	0	0		
Lead	1.038	0.0200	1	0	104	90	110	0	0		
Molybdenum	0.514	0.0100	0.5	0	103	90	110	0	0		
Selenium	1.035	0.0200	1	0	104	90	110	0	0		
Silver	0.5045	0.0100	0.5	0	101	90	110	0	0		
Zinc	0.5108	0.0100	0.5	0	102	90	110	0	0		

Sample ID CCV	SampType: CCV	TestCode: 200.7	Units: mg/L	Prep Date:	Run ID: TJAIRIS_071008A
Client ID: ZZZZZ	Batch ID: 19642	TestNo: E200.7		Analysis Date: 10/9/2007	SeqNo: 496208

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silver	0.5167	0.0100	0.5	0	103	90	110	0	0		

Sample ID CCV	SampType: CCV	TestCode: 200.7	Units: mg/L	Prep Date:	Run ID: TJAIRIS_071008A
Client ID: ZZZZZ	Batch ID: 19642	TestNo: E200.7		Analysis Date: 10/9/2007	SeqNo: 496210

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; B - Analyte detected in the associated Method Blan

SCOEPA00025641

CLIENT: Siltronic Corporation
Work Order: 0710047
Project: FAB2 Storm Water Outfall Maintenance

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7

Sample ID	CCV	SampType:	CCV	TestCode:	200.7	Units:	mg/L	Prep Date:		Run ID:	TJAIRIS_071008A
Client ID:	ZZZZZ	Batch ID:	19642	TestNo:	E200.7			Analysis Date:	10/9/2007	SeqNo:	496210

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silver	0.4988	0.0100	0.5	0	99.8	90	110	0	0		

Sample ID	ICV	SampType:	ICV	TestCode:	200.7	Units:	mg/L	Prep Date:		Run ID:	TJAIRIS_071008A
Client ID:	ZZZZZ	Batch ID:	19642	TestNo:	E200.7			Analysis Date:	10/8/2007	SeqNo:	496019

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	1.014	0.0200	1	0	101	95	105	0	0		
Barium	0.5078	0.0100	0.5	0	102	95	105	0	0		
Cadmium	0.05	0.00100	0.05	0	100	95	105	0	0		
Chromium	0.2577	0.00500	0.25	0	103	95	105	0	0		
Lead	1.023	0.0200	1	0	102	95	105	0	0		
Molybdenum	0.5089	0.0100	0.5	0	102	95	105	0	0		
Selenium	1.021	0.0200	1	0	102	95	105	0	0		
Silver	0.5019	0.0100	0.5	0	100	95	105	0	0		
Zinc	0.5076	0.0100	0.5	0	102	95	105	0	0		

Sample ID	ICV	SampType:	ICV	TestCode:	200.7	Units:	mg/L	Prep Date:		Run ID:	TJAIRIS_071008A
Client ID:	ZZZZZ	Batch ID:	19642	TestNo:	E200.7			Analysis Date:	10/9/2007	SeqNo:	496207

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silver	0.5237	0.0100	0.5	0	105	95	105	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blan

SCOEPA00025642

CLIENT: Siltronic Corporation
Work Order: 0710047
Project: FAB2 Storm Water Outfall Maintenance

ANALYTICAL QC SUMMARY REPORT

TestCode: 624_W

Sample ID	MB-19644	SampType:	MBLK	TestCode:	624_W	Units:	µg/L	Prep Date:	10/8/2007	Run ID:	5973J_071008A
Client ID:	ZZZZZ	Batch ID:	19644	TestNo:	E624			Analysis Date:	10/8/2007	SeqNo:	495842

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	1.00									
1,1,2,2-Tetrachloroethane	ND	1.00									
1,1,2-Trichloroethane	ND	1.00									
1,1-Dichloroethane	ND	1.00									
1,1-Dichloroethene	ND	1.00									
1,2-Dichlorobenzene	ND	1.00									
1,2-Dichloroethane	ND	1.00									
1,2-Dichloropropane	ND	1.00									
1,3-Dichlorobenzene	ND	1.00									
1,4-Dichlorobenzene	ND	1.00									
2-Butanone	ND	10.0									
2-Chloroethyl vinyl ether	ND	1.00									
4-Methyl-2-pentanone	ND	10.0									
Acrolein	ND	10.0									
Acrylonitrile	ND	1.00									
Benzene	ND	1.00									
Bromodichloromethane	ND	1.00									
Bromoform	ND	1.00									
Bromomethane	ND	1.00									
Carbon tetrachloride	ND	1.00									
Chlorobenzene	ND	1.00									
Chloroethane	ND	1.00									
Chloroform	ND	1.00									
Chloromethane	ND	1.00									
cis-1,3-Dichloropropene	ND	1.00									
Dibromochloromethane	ND	1.00									
Ethylbenzene	ND	1.00									
m,p-Xylene	ND	2.00									
Methylene chloride	ND	5.00									
o-Xylene	ND	1.00									
Tetrachloroethene	ND	1.00									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blanl

SCOEPA00025643

CLIENT: Siltronic Corporation
Work Order: 0710047
Project: FAB2 Storm Water Outfall Maintenance

ANALYTICAL QC SUMMARY REPORT

TestCode: 624_W

Sample ID **MB-19644**	SampType: **MBLK**	TestCode: **624_W**	Units: **µg/L**	Prep Date: **10/8/2007**	Run ID: **5973J_071008A**
Client ID: **ZZZZZ**	Batch ID: **19644**	TestNo: **E624**		Analysis Date: **10/8/2007**	SeqNo: **495842**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	ND	1.00									
trans-1,2-Dichloroethene	ND	1.00									
trans-1,3-Dichloropropene	ND	1.00									
Trichloroethene	ND	1.00									
Trichlorofluoromethane	ND	1.00									
Vinyl chloride	ND	1.00									
Surr:1,2-Dichloroethane-d4	90.95	1.00	100	0	91	83.4	126	0	0		
Surr:4-Bromofluorobenzene	93.2	1.00	100	0	93.2	90.9	117	0	0		
Surr:Dibromofluoromethane	97.41	1.00	100	0	97.4	81.1	112	0	0		
Surr:Toluene-d8	108.7	1.00	100	0	109	90	120	0	0		

Sample ID **LCS-19644**	SampType: **LCS**	TestCode: **624_W**	Units: **µg/L**	Prep Date: **10/8/2007**	Run ID: **5973J_071008A**
Client ID: **ZZZZZ**	Batch ID: **19644**	TestNo: **E624**		Analysis Date: **10/8/2007**	SeqNo: **495983**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	36.61	1.00	40	0	91.5	52	162	0	0		
1,1,2,2-Tetrachloroethane	34.86	1.00	40	0	87.2	46	157	0	0		
1,1,2-Trichloroethane	36.84	1.00	40	0	92.1	52	150	0	0		
1,1-Dichloroethane	36.49	1.00	40	0	91.2	59	155	0	0		
1,1-Dichloroethene	36.93	1.00	40	0	92.3	0.01	234	0	0		
1,2-Dichlorobenzene	39.27	1.00	40	0	98.2	18	190	0	0		
1,2-Dichloroethane	32.81	1.00	40	0	82	49	155	0	0		
1,2-Dichloropropane	37.16	1.00	40	0	92.9	0.01	210	0	0		
1,3-Dichlorobenzene	41.87	1.00	40	0	105	59	156	0	0		
1,4-Dichlorobenzene	41.57	1.00	40	0	104	18	190	0	0		
2-Butanone	31.94	10.0	40	0	79.8	50	150	0	0		
2-Chloroethyl vinyl ether	4.63	1.00	40	0	11.6	0.01	305	0	0		
4-Methyl-2-pentanone	34.65	10.0	40	0	86.6	50	150	0	0		
Acrolein	20.07	10.0	40	0	50.2	50	150	0	0		
Acrylonitrile	28.69	1.00	40	0	71.7	60	140	0	0		
Benzene	37.14	1.00	40	0	92.8	37	151	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; B - Analyte detected in the associated Method Blanl

SCOEPA00025644

CLIENT: Siltronic Corporation
Work Order: 0710047
Project: FAB2 Storm Water Outfall Maintenance

ANALYTICAL QC SUMMARY REPORT

TestCode: 624_W

Sample ID: LCS-19644	SampType: LCS	TestCode: 624_W	Units: µg/L	Prep Date: 10/8/2007	Run ID: 5973J_071008A
Client ID: ZZZZZ	Batch ID: 19644	TestNo: E624		Analysis Date: 10/8/2007	SeqNo: 495983

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromodichloromethane	37.39	1.00	40	0	93.5	35	155	0	0		
Bromoform	33.84	1.00	40	0	84.6	45	169	0	0		
Bromomethane	33.78	1.00	40	0	84.4	0.01	242	0	0		
Carbon tetrachloride	40.3	1.00	40	0	101	70	140	0	0		
Chlorobenzene	41.85	1.00	40	0	105	37	160	0	0		
Chloroethane	31.21	1.00	40	0	78	14	230	0	0		
Chloroform	37.77	1.00	40	0	94.4	51	138	0	0		
Chloromethane	21.83	1.00	40	0	54.6	0.01	273	0	0		
cis-1,3-Dichloropropene	39.58	1.00	40	0	99	0.01	227	0	0		
Dibromochloromethane	38.94	1.00	40	0	97.4	53	149	0	0		
Ethylbenzene	41.79	1.00	40	0	104	37	162	0	0		
m,p-Xylene	82.46	2.00	80	0	103	50	150	0	0		
Methylene chloride	31.51	5.00	40	0	78.8	0.01	221	0	0		
o-Xylene	41.33	1.00	40	0	103	50	150	0	0		
Tetrachloroethene	47.41	1.00	40	0	119	64	148	0	0		
Toluene	41.47	1.00	40	0	104	47	150	0	0		
trans-1,2-Dichloroethene	37.73	1.00	40	0	94.3	54	156	0	0		
trans-1,3-Dichloropropene	39.7	1.00	40	0	99.2	17	183	0	0		
Trichloroethene	38.31	1.00	40	0	95.8	71	157	0	0		
Trichlorofluoromethane	30.88	1.00	40	0	77.2	17	181	0	0		
Vinyl chloride	24.88	1.00	40	0	62.2	0.01	251	0	0		

Sample ID: 0710047-01EMS	SampType: MS	TestCode: 624_W	Units: µg/L	Prep Date: 10/8/2007	Run ID: 5973J_071008A
Client ID: 07-129	Batch ID: 19644	TestNo: E624		Analysis Date: 10/8/2007	SeqNo: 495982

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	29.68	1.00	40	0	74.2	52	162	0	0		
1,1,2,2-Tetrachloroethane	25.67	1.00	40	0	64.2	46	157	0	0		
1,1,2-Trichloroethane	27.63	1.00	40	0	69.1	52	150	0	0		
1,1-Dichloroethane	29.97	1.00	40	0	74.9	59	155	0	0		
1,1-Dichloroethene	31.3	1.00	40	0	78.2	0.01	234	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

SCOEPA00025645

CLIENT: Siltronic Corporation
Work Order: 0710047
Project: FAB2 Storm Water Outfall Maintenance

ANALYTICAL QC SUMMARY REPORT

TestCode: 624_W

Sample ID: 0710047-01EMS	SampType: MS	TestCode: 624_W	Units: µg/L	Prep Date: 10/8/2007	Run ID: 5973J_071008A
Client ID: 07-129	Batch ID: 19644	TestNo: E624		Analysis Date: 10/8/2007	SeqNo: 495982

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichlorobenzene	29.43	1.00	40	0	73.6	18	190	0	0		
1,2-Dichloroethane	25.37	1.00	40	0	63.4	49	155	0	0		
1,2-Dichloropropane	29.13	1.00	40	0	72.8	0.01	210	0	0		
1,3-Dichlorobenzene	32.82	1.00	40	0	82	59	156	0	0		
1,4-Dichlorobenzene	32.58	1.00	40	0	81.4	18	190	0	0		
2-Butanone	36	10.0	40	0	90	50	150	0	0		
2-Chloroethyl vinyl ether	3.15	1.00	40	0	7.88	0.01	305	0	0		
4-Methyl-2-pentanone	47.71	10.0	40	0	119	50	150	0	0		
Acrolein	12.87	10.0	40	0	32.2	50	150	0	0		S
Acrylonitrile	33.82	1.00	40	0	84.6	60	140	0	0		
Benzene	29.85	1.00	40	0	74.6	37	151	0	0		
Bromodichloromethane	28	1.00	40	0	70	35	155	0	0		
Bromoform	24.93	1.00	40	0	62.3	45	169	0	0		
Bromomethane	32.98	1.00	40	0	82.5	0.01	242	0	0		
Carbon tetrachloride	32.59	1.00	40	0	81.5	70	140	0	0		
Chlorobenzene	33.65	1.00	40	0	84.1	37	160	0	0		
Chloroethane	28.88	1.00	40	0	72.2	14	230	0	0		
Chloroform	29.89	1.00	40	0	74.7	51	138	0	0		
Chloromethane	28.3	1.00	40	0	70.8	0.01	273	0	0		
cis-1,3-Dichloropropene	28.4	1.00	40	0	71	0.01	227	0	0		
Dibromochloromethane	28.3	1.00	40	0	70.8	53	149	0	0		
Ethylbenzene	32.95	1.00	40	0	82.4	37	162	0	0		
m,p-Xylene	65.4	2.00	80	0	81.8	50	150	0	0		
Methylene chloride	23.3	5.00	80	0	29.1	0.01	221	0	0		
o-Xylene	32.04	1.00	40	0	80.1	50	150	0	0		
Tetrachloroethene	30.65	1.00	40	0	76.6	64	148	0	0		
Toluene	33.17	1.00	40	0	82.9	47	150	0	0		
trans-1,2-Dichloroethene	31.73	1.00	40	0	79.3	54	156	0	0		
trans-1,3-Dichloropropene	28.44	1.00	40	0	71.1	17	183	0	0		
Trichloroethene	30.76	1.00	40	0	76.9	71	157	0	0		
Trichlorofluoromethane	29.36	1.00	40	0	73.4	17	181	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; B - Analyte detected in the associated Method Blank

SCOEPA00025646

CLIENT: Siltronic Corporation
Work Order: 0710047
Project: FAB2 Storm Water Outfall Maintenance

ANALYTICAL QC SUMMARY REPORT

TestCode: 624_W

Sample ID	0710047-01EMS	SampType:	MS	TestCode:	624_W	Units:	µg/L	Prep Date:	10/8/2007	Run ID:	5973J_071008A
Client ID:	07-129	Batch ID:	19644	TestNo:	E624			Analysis Date:	10/8/2007	SeqNo:	495982

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	26.93	1.00	40	0	67.3	0.01	251	0	0		

Sample ID	CCV-19644	SampType:	CCV	TestCode:	624_W	Units:	µg/L	Prep Date:		Run ID:	5973J_071008A
Client ID:	ZZZZZ	Batch ID:	19644	TestNo:	E624			Analysis Date:	10/8/2007	SeqNo:	495792

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	40.43	1.00	40	0	101	75	125	0	0		
1,1,2,2-Tetrachloroethane	33.5	1.00	40	0	83.8	60.5	139.5	0	0		
1,1,2-Trichloroethane	37.34	1.00	40	0	93.4	71	129	0	0		
1,1-Dichloroethane	40.32	1.00	40	0	101	72.5	127.5	0	0		
1,1-Dichloroethene	43.41	1.00	40	0	109	50.5	149.5	0	0		
1,2-Dichlorobenzene	40.02	1.00	40	0	100	63	137	0	0		
1,2-Dichloroethane	33.33	1.00	40	0	83.3	68	132	0	0		
1,2-Dichloropropane	39.36	1.00	40	0	98.4	34	166	0	0		
1,3-Dichlorobenzene	45.26	1.00	40	0	113	73	127	0	0		
1,4-Dichlorobenzene	44.69	1.00	40	0	112	63	137	0	0		
2-Butanone	45.99	10.0	40	0	115	50	150	0	0		
2-Chloroethyl vinyl ether	4.18	1.00	40	0	10.4	0.01	224	0	0		
4-Methyl-2-pentanone	62.82	10.0	80	0	78.5	50	150	0	0		
Acrolein	21.12	10.0	40	0	52.8	50	150	0	0		
Acrylonitrile	60.29	1.00	80	0	75.4	60	140	0	0		
Benzene	40.48	1.00	40	0	101	64	136	0	0		
Bromodichloromethane	37.89	1.00	40	0	94.7	65.5	134.5	0	0		
Bromoform	35.07	1.00	40	0	87.7	71	129	0	0		
Bromomethane	40.18	1.00	40	0	100	14	186	0	0		
Carbon tetrachloride	42.35	1.00	40	0	106	73	127	0	0		
Chlorobenzene	46.43	1.00	40	0	116	66	134	0	0		
Chloroethane	39.51	1.00	40	0	98.8	38	162	0	0		
Chloroform	40.42	1.00	40	0	101	67.5	132.5	0	0		
Chloromethane	38.6	1.00	40	0	96.5	0.01	204	0	0		
cis-1,3-Dichloropropene	38.45	1.00	40	0	96.1	24	176	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

SCOEPA00025647

CLIENT: Siltronic Corporation
Work Order: 0710047
Project: FAB2 Storm Water Outfall Maintenance

ANALYTICAL QC SUMMARY REPORT

TestCode: 624_W

Sample ID: CCV-19644	SampType: CCV	TestCode: 624_W	Units: µg/L	Prep Date:	Run ID: 5973J_071008A
Client ID: ZZZZZ	Batch ID: 19644	TestNo: E624		Analysis Date: 10/8/2007	SeqNo: 495792

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibromochloromethane	39.3	1.00	40	0	98.2	67.5	132.5	0	0		
Ethylbenzene	45.15	1.00	40	0	113	59	141	0	0		
m,p-Xylene	90.07	2.00	80	0	113	50	150	0	0		
Methylene chloride	39.4	5.00	40	0	98.5	60.5	139.5	0	0		
o-Xylene	44.67	1.00	40	0	112	50	150	0	0		
Tetrachloroethene	42.87	1.00	40	0	107	73.5	126.5	0	0		
Toluene	45.68	1.00	40	0	114	74.5	125.5	0	0		
trans-1,2-Dichloroethene	43.44	1.00	40	0	109	69.5	130.5	0	0		
trans-1,3-Dichloropropene	38.89	1.00	40	0	97.2	50	150	0	0		
Trichloroethene	41.63	1.00	40	0	104	66.5	133.5	0	0		
Trichlorofluoromethane	40.23	1.00	40	0	101	48	152	0	0		
Vinyl chloride	34.13	1.00	40	0	85.3	4	196	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blanl

SCOEPA00025648

CLIENT: Siltronic Corporation
Work Order: 0710047
Project: FAB2 Storm Water Outfall Maintenance

ANALYTICAL QC SUMMARY REPORT

TestCode: 625X_W

Sample ID	MBLK-19643	SampType:	MBLK	TestCode:	625X_W	Units:	µg/L	Prep Date:	10/8/2007	Run ID:	5973G_071009A
Client ID:	ZZZZZ	Batch ID:	19643	TestNo:	E625			Analysis Date:	10/9/2007	SeqNo:	496152

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	ND	5.00									
1,2-Dichlorobenzene	ND	5.00									
1,2-Diphenylhydrazine	ND	5.00									
1,3-Dichlorobenzene	ND	5.00									
1,4-Dichlorobenzene	ND	5.00									
2,4,6-Trichlorophenol	ND	5.00									
2,4-Dichlorophenol	ND	10.0									
2,4-Dimethylphenol	ND	5.00									
2,4-Dinitrophenol	ND	10.0									
2,4-Dinitrotoluene	ND	5.00									
2,6-Dinitrotoluene	ND	5.00									
2-Chloronaphthalene	ND	5.00									
2-Chlorophenol	ND	5.00									
2-Nitrophenol	ND	5.00									
3,3'-Dichlorobenzidine	ND	5.00									
4,6-Dinitro-2-methylphenol	ND	10.0									
4-Bromophenyl phenyl ether	ND	5.00									
4-Chloro-3-methylphenol	ND	5.00									
4-Chlorophenyl phenyl ether	ND	5.00									
4-Nitrophenol	ND	5.00									
Acenaphthene	ND	5.00									
Acenaphthylene	ND	5.00									
Aniline	ND	5.00									
Anthracene	ND	5.00									
Benz(a)anthracene	ND	5.00									
Benzidine	ND	5.00									
Benzo(a)pyrene	ND	5.00									
Benzo(b)fluoranthene	ND	5.00									
Benzo(g,h,i)perylene	ND	5.00									
Benzo(k)fluoranthene	ND	5.00									
Benzoic Acid	ND	20.0									

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blanl

SCOEPA00025649

CLIENT: Siltronic Corporation
Work Order: 0710047
Project: FAB2 Storm Water Outfall Maintenance

ANALYTICAL QC SUMMARY REPORT

TestCode: 625X_W

Sample ID: **MBLK-19643**	SampType: **MBLK**	TestCode: **625X_W**	Units: **µg/L**	Prep Date: **10/8/2007**	Run ID: **5973G_071009A**
Client ID: **ZZZZZ**	Batch ID: **19643**	TestNo: **E625**		Analysis Date: **10/9/2007**	SeqNo: **496152**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bis(2-chloroethoxy)methane	ND	5.00									
Bis(2-chloroethyl)ether	ND	5.00									
Bis(2-chloroisopropyl)ether	ND	5.00									
Bis(2-ethylhexyl)phthalate	ND	5.00									
Butyl benzyl phthalate	ND	5.00									
Carbazole	ND	5.00									
Chrysene	ND	5.00									
Di-n-butyl phthalate	ND	5.00									
Di-n-octyl phthalate	ND	5.00									
Dibenz(a,h)anthracene	ND	5.00									
Diethyl phthalate	ND	5.00									
Dimethyl phthalate	ND	5.00									
Fluoranthene	ND	5.00									
Fluorene	ND	5.00									
Hexachlorobenzene	ND	5.00									
Hexachlorobutadiene	ND	5.00									
Hexachlorocyclopentadiene	ND	5.00									
Hexachloroethane	ND	5.00									
Indeno(1,2,3-cd)pyrene	ND	5.00									
Isophorone	ND	5.00									
N-Nitrosodi-n-propylamine	ND	5.00									
N-Nitrosodimethylamine	ND	5.00									
N-Nitrosodiphenylamine	ND	5.00									
Naphthalene	ND	5.00									
Nitrobenzene	ND	5.00									
o-Cresol	ND	5.00									
p-Cresol	ND	5.00									
Pentachlorophenol	0.2	10.0									J
Phenanthrene	ND	5.00									
Phenol	0.17	5.00									J
Pyrene	ND	5.00									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

SCOEPA00025650

CLIENT: Siltronic Corporation
Work Order: 0710047
Project: FAB2 Storm Water Outfall Maintenance

ANALYTICAL QC SUMMARY REPORT

TestCode: 625X_W

Sample ID: MBLK-19643	SampType: MBLK	TestCode: 625X_W	Units: µg/L	Prep Date: 10/8/2007	Run ID: 5973G_071009A
Client ID: ZZZZZ	Batch ID: 19643	TestNo: E625		Analysis Date: 10/9/2007	SeqNo: 496152

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Pyridine	ND	10.0									
Surr:2,4,6-Tribromophenol	90.41	0	100	0	90.4	33.1	99.7	0	0		
Surr:2-Fluorobiphenyl	32.06	0	100	0	32.1	33.1	96.2	0	0		S
Surr:2-Fluorophenol	62.99	0	100	0	63	13.4	57.1	0	0		S
Surr:4-Terphenyl-d14	101.2	0	100	0	101	41	122	0	0		
Surr:Nitrobenzene-d5	82.46	0	100	0	82.5	28.9	99.9	0	0		
Surr:Phenol-d6	45.51	0	100	0	45.5	10.6	38.5	0	0		S

Sample ID: LCS-19643	SampType: LCS	TestCode: 625X_W	Units: µg/L	Prep Date: 10/8/2007	Run ID: 5973G_071009A
Client ID: ZZZZZ	Batch ID: 19643	TestNo: E625		Analysis Date: 10/9/2007	SeqNo: 496151

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	28.44	5.00	50	0	56.9	44	142	0	0		
1,2-Dichlorobenzene	26.16	5.00	50	0	52.3	32	129	0	0		
1,2-Diphenylhydrazine	40.53	5.00	50	0	81.1	40	140	0	0		
1,3-Dichlorobenzene	23.63	5.00	50	0	47.3	0.01	172	0	0		
1,4-Dichlorobenzene	25.13	5.00	50	0	50.3	20	124	0	0		
2,4,6-Trichlorophenol	46.92	5.00	50	0	93.8	37	144	0	0		
2,4-Dichlorophenol	43.23	10.0	50	0	86.5	39	135	0	0		
2,4-Dimethylphenol	40.56	5.00	50	0	81.1	32	119	0	0		
2,4-Dinitrophenol	36.1	10.0	50	0	72.2	0.01	191	0	0		
2,4-Dinitrotoluene	45.28	5.00	50	0	90.6	39	139	0	0		
2,6-Dinitrotoluene	45.75	5.00	50	0	91.5	50	158	0	0		
2-Chloronaphthalene	37.87	5.00	50	0	75.7	60	118	0	0		
2-Chlorophenol	41.12	5.00	50	0	82.2	23	134	0	0		
2-Nitrophenol	42.5	5.00	50	0	85	29	182	0	0		
3,3'-Dichlorobenzidine	48.01	5.00	50	0	96	0.01	262	0	0		
4,6-Dinitro-2-methylphenol	47.02	10.0	50	0	94	0.01	181	0	0		
4-Bromophenyl phenyl ether	50.97	5.00	50	0	102	53	127	0	0		
4-Chloro-3-methylphenol	43.56	5.00	50	0	87.1	22	147	0	0		
4-Chlorophenyl phenyl ether	45.88	5.00	50	0	91.8	25	158	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; B - Analyte detected in the associated Method Blank

SCOEPA00025651

CLIENT: Siltronic Corporation
Work Order: 0710047
Project: FAB2 Storm Water Outfall Maintenance

ANALYTICAL QC SUMMARY REPORT

TestCode: 625X_W

Sample ID: **LCS-19643**	SampType: **LCS**	TestCode: **625X_W**	Units: **µg/L**	Prep Date: **10/8/2007**	Run ID: **5973G_071009A**
Client ID: **ZZZZZ**	Batch ID: **19643**	TestNo: **E625**		Analysis Date: **10/9/2007**	SeqNo: **496151**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Nitrophenol	20.09	5.00	50	0	40.2	0.01	132	0	0		
Acenaphthene	40.57	5.00	50	0	81.1	47	145	0	0		
Acenaphthylene	40.56	5.00	50	0	81.1	33	145	0	0		
Aniline	35.13	5.00	50	0	70.3	46	134	0	0		
Anthracene	42.74	5.00	50	0	85.5	27	133	0	0		
Benz(a)anthracene	43.54	5.00	50	0	87.1	33	143	0	0		
Benzidine	51.51	5.00	50	0	103	40	140	0	0		
Benzo(a)pyrene	36.14	5.00	50	0	72.3	17	163	0	0		
Benzo(b)fluoranthene	35.37	5.00	50	0	70.7	24	159	0	0		
Benzo(g,h,i)perylene	38.2	5.00	50	0	76.4	0.01	219	0	0		
Benzo(k)fluoranthene	38.44	5.00	50	0	76.9	11	162	0	0		
Benzoic Acid	4.38	20.0	50	0	8.76	0	250	0	0		J
Bis(2-chloroethoxy)methane	43.31	5.00	50	0	86.6	33	184	0	0		
Bis(2-chloroethyl)ether	45.12	5.00	50	0	90.2	12	158	0	0		
Bis(2-ethylhexyl)phthalate	47.85	5.00	50	0	95.7	8	158	0	0		
Butyl benzyl phthalate	44.26	5.00	50	0	88.5	0.01	152	0	0		
Carbazole	43.06	5.00	50	0	86.1	73	131	0	0		
Chrysene	43.31	5.00	50	0	86.6	17	168	0	0		
Di-n-butyl phthalate	48.96	5.00	50	0	97.9	1	118	0	0		
Di-n-octyl phthalate	48.67	5.00	50	0	97.3	4	146	0	0		
Dibenz(a,h)anthracene	36.58	5.00	50	0	73.2	0.01	227	0	0		
Diethyl phthalate	49.16	5.00	50	0	98.3	0.01	114	0	0		
Dimethyl phthalate	46.76	5.00	50	0	93.5	0.01	112	0	0		
Fluoranthene	42.84	5.00	50	0	85.7	26	137	0	0		
Fluorene	42.77	5.00	50	0	85.5	59	121	0	0		
Hexachlorobenzene	43.19	5.00	50	0	86.4	0.01	152	0	0		
Hexachlorobutadiene	15.45	5.00	50	0	30.9	24	116	0	0		
Hexachlorocyclopentadiene	18.59	5.00	50	0	37.2	10	110	0	0		
Hexachloroethane	18.32	5.00	50	0	36.6	40	113	0	0		S
Indeno(1,2,3-cd)pyrene	36.85	5.00	50	0	73.7	0.01	171	0	0		
Isophorone	39.65	5.00	50	0	79.3	21	196	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

SCOEPA00025652

CLIENT: Siltronic Corporation
Work Order: 0710047
Project: FAB2 Storm Water Outfall Maintenance

ANALYTICAL QC SUMMARY REPORT

TestCode: 625X_W

Sample ID LCS-19643	SampType: LCS	TestCode: 625X_W	Units: µg/L	Prep Date: 10/8/2007	Run ID: 5973G_071009A
Client ID: ZZZZZ	Batch ID: 19643	TestNo: E625		Analysis Date: 10/9/2007	SeqNo: 496151

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
N-Nitrosodi-n-propylamine	45.89	5.00	50	0	91.8	0.01	230	0	0		
N-Nitrosodimethylamine	25.32	5.00	50	0	50.6	0.01	250	0	0		
N-Nitrosodiphenylamine	27.15	5.00	50	0	54.3	0.01	250	0	0		
Naphthalene	35.17	5.00	50	0	70.3	21	133	0	0		
Nitrobenzene	41.48	5.00	50	0	83	35	180	0	0		
o-Cresol	38.83	5.00	50	0	77.7	55	126	0	0		
p-Cresol	16.79	5.00	25	0	67.2	76	107	0	0		S
Pentachlorophenol	38.61	10.0	50	0.2	76.8	14	176	0	0		
Phenanthrene	43.36	5.00	50	0	86.7	54	120	0	0		
Phenol	18.99	5.00	50	0.17	37.6	5	112	0	0		
Pyrene	42.44	5.00	50	0	84.9	52	115	0	0		
Pyridine	19.41	10.0	50	0	38.8	33	158	0	0		

Sample ID 0710047-01AMS	SampType: MS	TestCode: 625X_W	Units: µg/L	Prep Date: 10/8/2007	Run ID: 5973G_071009A
Client ID: 07-129	Batch ID: 19643	TestNo: E625		Analysis Date: 10/9/2007	SeqNo: 496154

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	27.51	5.06	50.61	0	54.4	44	142	0	0		
1,2-Dichlorobenzene	24.55	5.06	50.61	0	48.5	32	129	0	0		
1,2-Diphenylhydrazine	40.19	5.06	50.61	0	79.4	40	140	0	0		
1,3-Dichlorobenzene	22.82	5.06	50.61	0	45.1	0.01	172	0	0		
1,4-Dichlorobenzene	24.16	5.06	50.61	0	47.7	20	124	0	0		
2,4,6-Trichlorophenol	45.96	5.06	50.61	0	90.8	37	144	0	0		
2,4-Dichlorophenol	36.38	10.1	50.61	0	71.9	39	135	0	0		
2,4-Dimethylphenol	32.84	5.06	50.61	0	64.9	32	119	0	0		
2,4-Dinitrophenol	40.09	10.1	50.61	0	79.2	0.01	191	0	0		
2,4-Dinitrotoluene	45.11	5.06	50.61	0	89.1	39	139	0	0		
2,6-Dinitrotoluene	45.27	5.06	50.61	0	89.5	50	158	0	0		
2-Chloronaphthalene	36.2	5.06	50.61	0	71.5	60	118	0	0		
2-Chlorophenol	33.39	5.06	50.61	0	66	23	134	0	0		
2-Nitrophenol	34.99	5.06	50.61	0	69.1	29	182	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

SCOEPA00025653

CLIENT: Siltronic Corporation
Work Order: 0710047
Project: FAB2 Storm Water Outfall Maintenance

ANALYTICAL QC SUMMARY REPORT

TestCode: 625X_W

Sample ID 0710047-01AMS	SampType: MS	TestCode: 625X_W	Units: µg/L	Prep Date: 10/8/2007	Run ID: 5973G_071009A
Client ID: 07-129	Batch ID: 19643	TestNo: E625		Analysis Date: 10/9/2007	SeqNo: 496154

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
3,3'-Dichlorobenzidine	45.35	5.06	50.61	0	89.6	0.01	262	0	0		
4,6-Dinitro-2-methylphenol	45.93	10.1	50.61	0	90.8	0.01	181	0	0		
4-Bromophenyl phenyl ether	50.92	5.06	50.61	0	101	53	127	0	0		
4-Chloro-3-methylphenol	42.2	5.06	50.61	0	83.4	22	147	0	0		
4-Chlorophenyl phenyl ether	45.24	5.06	50.61	0	89.4	25	158	0	0		
4-Nitrophenol	17.6	5.06	50.61	0	34.8	0.01	132	0	0		
Acenaphthene	39.72	5.06	50.61	0	78.5	47	145	0	0		
Acenaphthylene	38.87	5.06	50.61	0	76.8	33	145	0	0		
Aniline	29.48	5.06	50.61	0.1103	58	46	134	0	0		
Anthracene	42.63	5.06	50.61	0	84.2	27	133	0	0		
Benz(a)anthracene	43.13	5.06	50.61	0	85.2	33	143	0	0		
Benzidine	37.06	5.06	50.61	0	73.2	40	140	0	0		
Benzo(a)pyrene	36.42	5.06	50.61	0	72	17	163	0	0		
Benzo(b)fluoranthene	37.02	5.06	50.61	0	73.2	24	159	0	0		
Benzo(g,h,i)perylene	40.36	5.06	50.61	0	79.8	0.01	219	0	0		
Benzo(k)fluoranthene	35.52	5.06	50.61	0	70.2	11	162	0	0		
Benzoic Acid	8.694	20.2	50.61	0.09027	17	0	250	0	0		J
Bis(2-chloroethoxy)methane	36.78	5.06	50.61	0	72.7	33	184	0	0		
Bis(2-chloroethyl)ether	37.58	5.06	50.61	0	74.3	12	158	0	0		
Bis(2-chloroisopropyl)ether	36.7	5.06	50.61	0	72.5	36	166	0	0		
Bis(2-ethylhexyl)phthalate	48.81	5.06	50.61	0.3109	95.8	8	158	0	0		
Butyl benzyl phthalate	44.38	5.06	50.61	0.1906	87.3	0.01	152	0	0		
Carbazole	42.88	5.06	50.61	0	84.7	73	131	0	0		
Chrysene	42.59	5.06	50.61	0	84.2	17	168	0	0		
Di-n-butyl phthalate	48.14	5.06	50.61	0	95.1	1	118	0	0		
Di-n-octyl phthalate	50.67	5.06	50.61	0	100	4	146	0	0		
Dibenz(a,h)anthracene	39.08	5.06	50.61	0	77.2	0.01	227	0	0		
Diethyl phthalate	48.9	5.06	50.61	0	96.6	0.01	114	0	0		
Dimethyl phthalate	46.73	5.06	50.61	0	92.3	0.01	112	0	0		
Fluoranthene	42.4	5.06	50.61	0	83.8	26	137	0	0		
Fluorene	43.09	5.06	50.61	0	85.1	59	121	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; B - Analyte detected in the associated Method Blank

SCOEPA00025654

CLIENT: Siltronic Corporation
Work Order: 0710047
Project: FAB2 Storm Water Outfall Maintenance

ANALYTICAL QC SUMMARY REPORT

TestCode: 625X_W

Sample ID 0710047-01AMS	SampType: MS	TestCode: 625X_W	Units: µg/L	Prep Date: 10/8/2007	Run ID: 5973G_071009A
Client ID: 07-129	Batch ID: 19643	TestNo: E625		Analysis Date: 10/9/2007	SeqNo: 496154

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexachlorobenzene	41.84	5.06	50.61	0	82.7	0.01	152	0	0		
Hexachlorobutadiene	18.84	5.06	50.61	0	37.2	24	116	0	0		
Hexachlorocyclopentadiene	20.86	5.06	50.61	0	41.2	10	110	0	0		
Hexachloroethane	19.87	5.06	50.61	0	39.3	40	113	0	0		S
Indeno(1,2,3-cd)pyrene	38.67	5.06	50.61	0	76.4	0.01	171	0	0		
Isophorone	34.17	5.06	50.61	0	67.5	21	196	0	0		
N-Nitrosodi-n-propylamine	38.58	5.06	50.61	0	76.2	0.01	230	0	0		
N-Nitrosodimethylamine	22.39	5.06	50.61	0	44.2	0.01	250	0	0		
N-Nitrosodiphenylamine	27.65	5.06	50.61	0	54.6	0.01	250	0	0		
Naphthalene	31.71	5.06	50.61	0	62.7	21	133	0	0		
Nitrobenzene	35.24	5.06	50.61	0	69.6	35	180	0	0		
o-Cresol	32.11	5.06	50.61	0	63.4	55	126	0	0		
p-Cresol	14.54	5.06	25.3	0	57.5	76	107	0	0		S
Pentachlorophenol	38.87	10.1	50.61	0	76.8	14	176	0	0		
Phenanthrene	43.67	5.06	50.61	0	86.3	54	120	0	0		
Phenol	15.65	5.06	50.61	0	30.9	5	112	0	0		
Pyrene	41.89	5.06	50.61	0	82.8	52	115	0	0		
Pyridine	16.75	10.1	50.61	0	33.1	33	158	0	0		

Sample ID CCV	SampType: CCV	TestCode: 625X_W	Units: µg/L	Prep Date:	Run ID: 5973G_071009A
Client ID: ZZZZZ	Batch ID: 19643	TestNo: E625		Analysis Date: 10/9/2007	SeqNo: 496150

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	41.21	5.00	40	0	103	80	120	0	0		
1,2-Dichlorobenzene	39.93	5.00	40	0	99.8	80	120	0	0		
1,2-Diphenylhydrazine	42.24	5.00	40	0	106	80	120	0	0		
1,3-Dichlorobenzene	39.76	5.00	40	0	99.4	80	120	0	0		
1,4-Dichlorobenzene	40.17	5.00	40	0	100	80	120	0	0		
2,4,6-Trichlorophenol	42.35	5.00	40	0	106	80	120	0	0		
2,4-Dichlorophenol	42.27	10.0	40	0	106	80	120	0	0		
2,4-Dimethylphenol	41	5.00	40	0	103	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blanl
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

SCOEPA00025655

CLIENT: Siltronic Corporation
Work Order: 0710047
Project: FAB2 Storm Water Outfall Maintenance

ANALYTICAL QC SUMMARY REPORT

TestCode: 625X_W

Sample ID: CCV	SampType: CCV	TestCode: 625X_W	Units: µg/L	Prep Date:	Run ID: 5973G_071009A
Client ID: ZZZZZ	Batch ID: 19643	TestNo: E625		Analysis Date: 10/9/2007	SeqNo: 496150

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-Dinitrophenol	43.95	10.0	40	0	110	80	120	0	0		
2,4-Dinitrotoluene	43.56	5.00	40	0	109	80	120	0	0		
2,6-Dinitrotoluene	43.33	5.00	40	0	108	80	120	0	0		
2-Chloronaphthalene	40.96	5.00	40	0	102	80	120	0	0		
2-Chlorophenol	39.97	5.00	40	0	99.9	80	120	0	0		
2-Nitrophenol	42.68	5.00	40	0	107	80	120	0	0		
3,3'-Dichlorobenzidine	42.3	5.00	40	0	106	80	120	0	0		
4,6-Dinitro-2-methylphenol	46.14	10.0	40	0	115	80	120	0	0		
4-Bromophenyl phenyl ether	41.77	5.00	40	0	104	80	120	0	0		
4-Chloro-3-methylphenol	42.19	5.00	40	0	105	80	120	0	0		
4-Chlorophenyl phenyl ether	42.23	5.00	40	0	106	80	120	0	0		
4-Nitrophenol	42.66	5.00	40	0	107	80	120	0	0		
Acenaphthene	41.9	5.00	40	0	105	80	120	0	0		
Acenaphthylene	42.6	5.00	40	0	106	80	120	0	0		
Aniline	40.25	5.00	40	0	101	80	120	0	0		
Anthracene	42.71	5.00	40	0	107	80	120	0	0		
Benz(a)anthracene	41	5.00	40	0	103	80	120	0	0		
Benzidine	42.6	5.00	40	0	106	80	120	0	0		
Benzo(a)pyrene	35.85	5.00	40	0	89.6	80	120	0	0		
Benzo(b)fluoranthene	36.61	5.00	40	0	91.5	80	120	0	0		
Benzo(g,h,i)perylene	37.12	5.00	40	0	92.8	80	120	0	0		
Benzo(k)fluoranthene	33.82	5.00	40	0	84.6	80	120	0	0		
Benzoic Acid	40.54	20.0	40	0	101	80	120	0	0		
Bis(2-chloroethoxy)methane	41.28	5.00	40	0	103	80	120	0	0		
Bis(2-chloroethyl)ether	39.99	5.00	40	0	100	80	120	0	0		
Bis(2-chloroisopropyl)ether	40.22	5.00	40	0	101	80	120	0	0		
Bis(2-ethylhexyl)phthalate	43.85	5.00	40	0	110	80	120	0	0		
Butyl benzyl phthalate	41.87	5.00	40	0	105	80	120	0	0		
Carbazole	42.25	5.00	40	0	106	80	120	0	0		
Chrysene	40.84	5.00	40	0	102	80	120	0	0		
Di-n-butyl phthalate	43.69	5.00	40	0	109	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

SCOEPA00025656

CLIENT: Siltronic Corporation
Work Order: 0710047
Project: FAB2 Storm Water Outfall Maintenance

ANALYTICAL QC SUMMARY REPORT

TestCode: 625X_W

Sample ID CCV	SampType: CCV	TestCode: 625X_W	Units: µg/L	Prep Date:	Run ID: 5973G_071009A
Client ID: ZZZZZ	Batch ID: 19643	TestNo: E625		Analysis Date: 10/9/2007	SeqNo: 496150

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Di-n-octylphthalate	45.14	5.00	40	0	113	80	120	0	0		
Dibenz(a,h)anthracene	36.21	5.00	40	0	90.5	80	120	0	0		
Diethylphthalate	43.11	5.00	40	0	108	80	120	0	0		
Dimethylphthalate	41.86	5.00	40	0	105	80	120	0	0		
Fluoranthene	42.67	5.00	40	0	107	80	120	0	0		
Fluorene	42.62	5.00	40	0	107	80	120	0	0		
Hexachlorobenzene	41.74	5.00	40	0	104	80	120	0	0		
Hexachlorobutadiene	40.69	5.00	40	0	102	80	120	0	0		
Hexachlorocyclopentadiene	42.6	5.00	40	0	106	80	120	0	0		
Hexachloroethane	40.29	5.00	40	0	101	80	120	0	0		
Indeno(1,2,3-cd)pyrene	36.03	5.00	40	0	90.1	80	120	0	0		
Isophorone	42.06	5.00	40	0	105	80	120	0	0		
N-Nitrosodi-n-propylamine	40.49	5.00	40	0	101	80	120	0	0		
N-Nitrosodimethylamine	40.04	5.00	40	0	100	80	120	0	0		
N-Nitrosodiphenylamine	42.54	5.00	40	0	106	80	120	0	0		
Naphthalene	41.74	5.00	40	0	104	80	120	0	0		
Nitrobenzene	42	5.00	40	0	105	80	120	0	0		
o-Cresol	41.65	5.00	40	0	104	80	120	0	0		
p-Cresol	21.33	5.00	20	0	107	80	120	0	0		
Pentachlorophenol	42.99	10.0	40	0	107	80	120	0	0		
Phenanthrene	42.1	5.00	40	0	105	80	120	0	0		
Phenol	40.41	5.00	40	0	101	80	120	0	0		
Pyrene	41.15	5.00	40	0	103	80	120	0	0		
Pyridine	42.04	10.0	40	0	105	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

SCOEPA00025657

CLIENT: Siltronic Corporation
Work Order: 0710047
Project: FAB2 Storm Water Outfall Maintenance

ANALYTICAL QC SUMMARY REPORT

TestCode: CN_WW

Sample ID	MB-R48636	SampType:	MBLK	TestCode:	CN_WW	Units:	mg/L	Prep Date:		Run ID:	LACHAT_071008A
Client ID:	ZZZZZ	Batch ID:	R48636	TestNo:	E335.4			Analysis Date:	10/8/2007	SeqNo:	495817

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	ND	0.010									

Sample ID	LCS-R48636	SampType:	LCS	TestCode:	CN_WW	Units:	mg/L	Prep Date:		Run ID:	LACHAT_071008A
Client ID:	ZZZZZ	Batch ID:	R48636	TestNo:	E335.4			Analysis Date:	10/8/2007	SeqNo:	495816

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	0.1988	0.010	0.2	0	99.4	80	120	0	0		

Sample ID	0710047-01DMS	SampType:	MS	TestCode:	CN_WW	Units:	mg/L	Prep Date:		Run ID:	LACHAT_071008A
Client ID:	07-129	Batch ID:	R48636	TestNo:	E335.4			Analysis Date:	10/8/2007	SeqNo:	495813

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	0.1052	0.010	0.1	0	105	67.9	119	0	0		

Sample ID	0710047-01DMSD	SampType:	MSD	TestCode:	CN_WW	Units:	mg/L	Prep Date:		Run ID:	LACHAT_071008A
Client ID:	07-129	Batch ID:	R48636	TestNo:	E335.4			Analysis Date:	10/8/2007	SeqNo:	495814

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	0.1053	0.010	0.1	0	105	67.9	119	0.1052	0.0950	20	

Sample ID	CCV	SampType:	CCV	TestCode:	CN_WW	Units:	mg/L	Prep Date:		Run ID:	LACHAT_071008A
Client ID:	ZZZZZ	Batch ID:	R48636	TestNo:	E335.4			Analysis Date:	10/8/2007	SeqNo:	495815

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	0.253	0.010	0.25	0	101	90	110	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blanl

SCOEPA00025658

CLIENT: Siltronic Corporation
Work Order: 0710047
Project: FAB2 Storm Water Outfall Maintenance

ANALYTICAL QC SUMMARY REPORT

TestCode: FL_WW

Sample ID	MB-R48626	SampType:	MBLK	TestCode:	FL_WW	Units:	mg/L	Prep Date:		Run ID:	MANTECH_071005A
Client ID:	ZZZZZ	Batch ID:	R48626	TestNo:	E340.2			Analysis Date:	10/5/2007	SeqNo:	495658

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	0.03	0.20									J

Sample ID	LCS-R48626	SampType:	LCS	TestCode:	FL_WW	Units:	mg/L	Prep Date:		Run ID:	MANTECH_071005A
Client ID:	ZZZZZ	Batch ID:	R48626	TestNo:	E340.2			Analysis Date:	10/5/2007	SeqNo:	495657

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	4.9	0.20	5	0.03	97.4	90	120	0	0		

Sample ID	0710047-01CMS	SampType:	MS	TestCode:	FL_WW	Units:	mg/L	Prep Date:		Run ID:	MANTECH_071005A
Client ID:	07-129	Batch ID:	R48626	TestNo:	E340.2			Analysis Date:	10/5/2007	SeqNo:	495654

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	5.13	0.20	5	0.06	101	85	115	0	0		

Sample ID	0710047-01CMSD	SampType:	MSD	TestCode:	FL_WW	Units:	mg/L	Prep Date:		Run ID:	MANTECH_071005A
Client ID:	07-129	Batch ID:	R48626	TestNo:	E340.2			Analysis Date:	10/5/2007	SeqNo:	495655

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	5.31	0.20	5	0.06	105	85	115	5.13	3.45	20	

Sample ID	CCV	SampType:	CCV	TestCode:	FL_WW	Units:	mg/L	Prep Date:		Run ID:	MANTECH_071005A
Client ID:	ZZZZZ	Batch ID:	R48626	TestNo:	E340.2			Analysis Date:	10/5/2007	SeqNo:	495656

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	7.84	0.20	7.5	0	105	90	110	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

SCOEPA00025659

CLIENT: Siltronic Corporation
Work Order: 0710047
Project: FAB2 Storm Water Outfall Maintenance

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_WW

Sample ID	MBLK-19682	SampType:	MBLK	TestCode:	HG_WW	Units:	mg/L	Prep Date:	10/11/2007	Run ID:	CVAA_071011A
Client ID:	ZZZZZ	Batch ID:	19682	TestNo:	E245.2			Analysis Date:	10/11/2007	SeqNo:	496910

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.000100									

Sample ID	LCS-19682	SampType:	LCS	TestCode:	HG_WW	Units:	mg/L	Prep Date:	10/11/2007	Run ID:	CVAA_071011A
Client ID:	ZZZZZ	Batch ID:	19682	TestNo:	E245.2			Analysis Date:	10/11/2007	SeqNo:	496909

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.004183	0.000100	0.004	0	105	85.4	116	0	0		

Sample ID	0710047-01BMS	SampType:	MS	TestCode:	HG_WW	Units:	mg/L	Prep Date:	10/11/2007	Run ID:	CVAA_071011A
Client ID:	07-129	Batch ID:	19682	TestNo:	E245.2			Analysis Date:	10/11/2007	SeqNo:	496913

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.004366	0.000100	0.004	0	109	69.5	125	0	0		

Sample ID	0710047-01BMSD	SampType:	MSD	TestCode:	HG_WW	Units:	mg/L	Prep Date:	10/11/2007	Run ID:	CVAA_071011A
Client ID:	07-129	Batch ID:	19682	TestNo:	E245.2			Analysis Date:	10/11/2007	SeqNo:	496914

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00464	0.000100	0.004	0	116	69.5	125	0.004366	6.08	20	

Sample ID	0710047-01BDUP	SampType:	DUP	TestCode:	HG_WW	Units:	mg/L	Prep Date:	10/11/2007	Run ID:	CVAA_071011A
Client ID:	07-129	Batch ID:	19682	TestNo:	E245.2			Analysis Date:	10/11/2007	SeqNo:	496912

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.000100	0	0	0	0	0	0	0	20	

Sample ID	CCV	SampType:	CCV	TestCode:	HG_WW	Units:	mg/L	Prep Date:	10/11/2007	Run ID:	CVAA_071011A
Client ID:	ZZZZZ	Batch ID:	R48713	TestNo:	E245.2			Analysis Date:	10/11/2007	SeqNo:	496916

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blanl

SCOEPA00025660

CLIENT: Siltronic Corporation
Work Order: 0710047
Project: FAB2 Storm Water Outfall Maintenance

ANALYTICAL QC SUMMARY REPORT

TestCode: HG_WW

Sample ID: **CCV**	SampType: **CCV**	TestCode: **HG_WW**	Units: **mg/L**	Prep Date: **10/11/2007**	Run ID: **CVAA_071011A**
Client ID: **ZZZZZ**	Batch ID: **R48713**	TestNo: **E245.2**		Analysis Date: **10/11/2007**	SeqNo: **496916**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.004178	0.000100	0.004	0	104	90	110	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blanl

SCOEPA00025661

CLIENT: Siltronic Corporation
Work Order: 0710047
Project: FAB2 Storm Water Outfall Maintenance

ANALYTICAL QC SUMMARY REPORT

TestCode: PH_W

Sample ID	0710047-01CDUP	SampType:	DUP	TestCode:	PH_W	Units:	pH units	Prep Date:		Run ID:	PHACCUMET_071005A
Client ID:	07-129	Batch ID:	R48624	TestNo:	E150.1			Analysis Date:	10/5/2007	SeqNo:	495645

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	5.59	1.00	0	0	0	1	14	5.57	0.358	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

SCOEPA00025662

KEY TO FLAGS

A	This sample contains a Gasoline Range Organic not identified as a specific hydrocarbon product. The result was quantified against gasoline calibration standards.
A1	This sample contains a Diesel Range Organic not identified as a specific hydrocarbon product. The result was quantified against diesel calibration standards.
A2	This sample contains a Lube Oil Range Organic not identified as a specific hydrocarbon product. The result was quantified against a lube oil calibration standard.
A3	The result was determined to be Non-Detect based on hydrocarbon pattern recognition. The product was carry-over from another hydrocarbon type.
B	The blank exhibited a positive result greater than the reporting limit for this compound.
CN	See Case Narrative.
D	Result is based from a dilution.
E	Result exceeds the calibration range for this compound. The result should be considered as estimate.
F	The positive result for this hydrocarbon is due to single component contamination. The product does not match any hydrocarbon in the fuels library.
H	Sample was analyzed outside recommended hold time.
HT	At clients request, sample was analyzed outside recommended hold time.
J	The result for this analyte is between the MDL and the PQL and should be considered as estimated concentration.
K	Diesel result is biased high due to amount of Oil contained in the sample.
L	Diesel result is biased high due to amount of Gasoline contained in the sample.
M	Oil result is biased high due to amount of Diesel contained in the sample.
N	Gasoline result is biased high due to amount of Diesel contained in the sample.
MC	Sample concentration is greater than 4x the spiked value, the spiked value is considered insignificant.
MI	Result is outside control limits due to matrix interference.
MSA	Value determined by Method of Standard Addition.
O	Laboratory Control Standard (LCS) exceeded laboratory control limits, but meets CCV criteria. Data meets EPA requirements.
P	Detection levels of Methylene Chloride may be laboratory contamination, due to previous analysis or background levels.
Q	Detection levels elevated due to sample matrix.
R	RPD control limits were exceeded.
RF	Duplicate failed due to result being at or near the method-reporting limit.
RP	Matrix spike values exceed established QC limits, post digestion spike is in control.
S	Recovery is outside control limits.
SC	Closing CCV or LCS exceeded high recovery control limits, but associated samples are non-detect. Data meets EPA requirements.
*	The result for this parameter was greater that the maximum contaminant level of the TCLP regulatory limit.

Rev Dec 15, 2004

CHAIN OF CUSTODY RECORD

Page ___ of ___

Specialty Analytical
19761 S.W. 95th. Avenue
Tualatin, OR 97062
(503) 612-9007 - Phone
(503) 612-8572 - Fax

Contact Person/Project Manager: Tom Rothschild
Company: Sultronics
Address: 7200 N W Front Ave
Portland, OR
Phone: 503-219-7374 Fax: 503-219-4144
Project No.: _____ Project Name: FIA 13.2 Storm Water outfall maintenance
Invoice To: Accts Payable P.O. No.: 4500521869

Collected By:
Signature: Myron Burr
Printed: MYRON BURR

Signature: _____
Printed: _____

Turn Around Time
☐ Normal
☒ Rush Final Report by 10/9/07
Specify
Rush Analyses Must Be Scheduled With The Lab In Advance

For Laboratory Use
Lab Job No. 071004M
Shipped Via: Specialty
Air Bill No. _____
Temperature On Receipt _____ °C
Specialty Analytical Containers? Y / N
Specialty Analytical Trip Blanks? Y / N

Date	Time	Sample I.D.	Matrix	No. of Containers	Analyses: EPA 624	EPA 625	As, Ba, Cd, Cr	Fluoride, Cyanide	Pb, Hg, Mo	Se, Ag, Zn	pH				Comments	Lab I.D.
10.5.07	0940	07-129	WW	9	X	X	X	X	X	X	X					

Relinquished By:	Date	Time	Received By:	Relinquished By:	Date	Time
Company: Sultronics	10/5/07	1240	Company: Specialty	Company:		

Unless Reclaimed, Samples Will Be Disposed of 60 Days After Receipt.
Copies: White-Original Yellow-Project File Pink-Customer Copy

Received For Lab By: Nikki Dilton Date: 10/5/07 Time: 1340

SCOEPA00025664

CITY OF PORTLAND
ENVIRONMENTAL SERVICES

Water Pollution Control Laboratory
6543 N. Burlington Ave., Portland, Oregon 97203-5452
(503) 823-5600

February 5, 2004

Mr. Jim Claxton
Wacker Siltronic Corporation
7200 NW Front Ave.
Portland, Oregon 97210-3676

Subject: Stormwater Sampling Results

Dear Mr. Claxton:

As part of the City of Portland's Industrial Stormwater Program, City staff perform routine sampling at industries that have stormwater runoff discharging to the City's separated storm sewer system.

Enclosed are the results of several stormwater samples taken on January 14, 2004. The sample was taken from sample point #01. **Please note that the following parameters exceeded the benchmarks as stated in your NPDES 1200-Z General Stormwater Permit.**

SAMPLE LOCATION: 01

CONSTITUENT	RESULT	BENCHMARK
pH	5.3 (s. u.)	≥5.5 – 9.0≤ (S.U.)

When benchmarks are not achieved, Schedule A(10) of the permit requires the Permittee to review their Storm Water Pollution Control Plan within sixty (60) days of receiving sample results. Results of this review are to be submitted to DEQ and the City in accordance with Schedule B(3).

The City of Portland appreciates your cooperation with regards to this matter and your efforts to minimize stormwater pollution. If you have any questions or comments regarding this letter you may contact me at 503-823-5692.

Sincerely,

Wesley C. McDaniel
Industrial Stormwater Section
Bureau of Environmental Services

City of Portland
Water Pollution Control Laboratory
Laboratory Analysis Report

Sample Date/Time 01/14/04 14:06 **System ID** AI00421 **Sample ID** **SWM040001**

Page No.: 1

Proj./Company Name: WACKER SILTRONIC CORP
Address/Location: 7200 NW FRONT

Date Received: 01/14/04

Sample Status: COMPLETE AND VALIDATED

Proj Subcategory: INDUSTRIAL STORMWATER SAMPLING
Sample Point Code: 01
IMS File #: 3060.001

Sample Type: GRAB
Sample Matrix: STORMWTR
Collected By: WCM

Comments:

Test Parameter	Result	Units	MRL	Method
FIELD				
pH (FIELD)	5.3	pH Units	0.1	SM 4500-H B
TEMPERATURE	7.3	Deg. C	0.1	SM 2550 B
GENERAL				
COD	<5	mg/L	5	SM 5220 D
OIL & GREASE, TOTAL	<5	mg/L	5	EPA 1664
TOTAL SUSPENDED SOLIDS	4	mg/L	2	SM 2540 D
METALS BY ICP-MS (TOTAL) - 3				
COPPER	0.00849	mg/L	0.0002	EPA 200.8
LEAD	0.00160	mg/L	0.0001	EPA 200.8
ZINC	0.116	mg/L	0.0005	EPA 200.8

End of Report for Sample ID: SWM040001

COPY

6543 N. Burlington Ave. / Portland OR 97203 (503) 823-5600 fax (503) 823-5656

Report Date: 01/30/04

Validated By:

CITY OF PORTLAND
ENVIRONMENTAL SERVICES
1120 S.W. 5th Avenue, Room 400
Portland, OR 97204-1972

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OR

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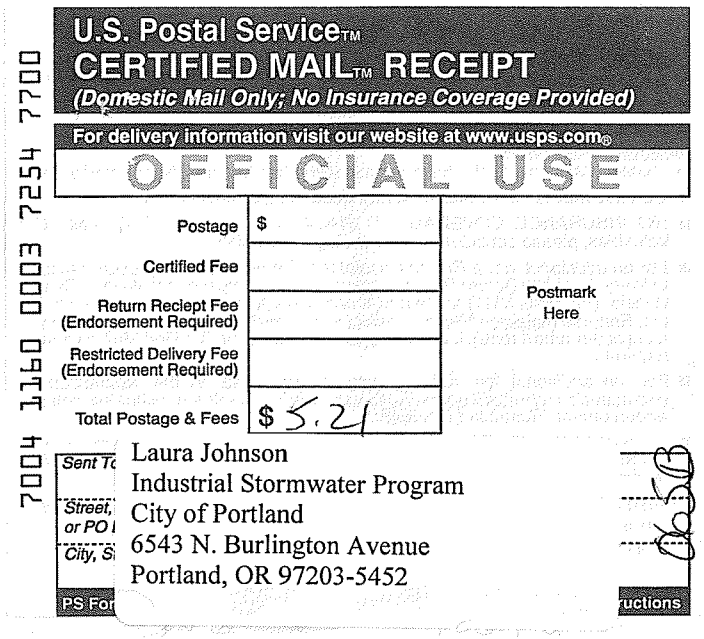
See & Sum
Scrubber

MR. JIM CLAXTON
WACKER SILTRONIC CORPORATION
7200 NW FRONT AVE.
PORTLAND, OREGON 97210-3676



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Laura Johnson
Industrial Stormwater Program
City of Portland
6543 N. Burlington Avenue
Portland, OR 97203-5452

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- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Laura Johnson
Industrial Stormwater Program
City of Portland
6543 N. Burlington Avenue
Portland, OR 97203-5452

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X A. C. Peschke ☒ Agent ☐ Addressee

B. Received by (*Printed Name*) ANGELA PESCHKE
C. Date of Delivery 12/12/07

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

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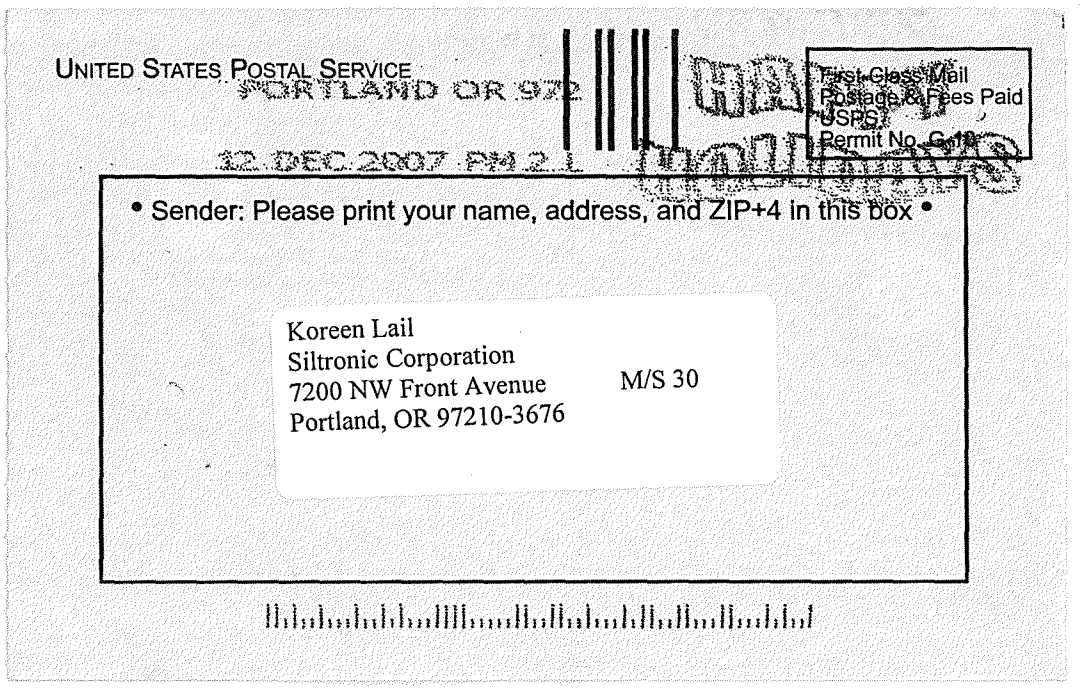
SCOEPA00025669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Koreen Lail
Siltronic Corporation
7200 NW Front Avenue
Portland, OR 97210-3676
M/S 30

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Koreen Lail
Environmental Affairs

Siltronic Corporation
7200 NW Front Avenue, M/S 30
Portland OR 97210-3676, USA
Tel. 503-219-7994
Fax 503-219-7599
Koreen.lail@siltronic.com

ER:065KLL

Laura Johnson
City of Portland
Industrial Stormwater Program
6543 N Burlington Avenue
Portland, Oregon 97203-5452

December 7, 2007

Industrial Stormwater NPDES 1200-Z Benchmark Exceedance

Dear Ms. Johnson,

The November 12, 2007, sampling of the east stormwater sample point indicated an exceedance of the benchmark for oil and grease. We re-sampled the east sample point on December 3, 2007 and the results were below detection limit. See table below:

Sample date: 10/16/07	Sample date: 11/12/07	Re-sample date: 12/03/07
North < 5.0 mg/L	North <5.0 mg/L	n/a
South <5.0 mg/L	South 5.8 mg/L	n/a
East <5.0 mg/L	East 23.2 mg/L	East <5.0 mg/L

Investigation

On October 22, 2007, accumulated sediment was removed from the stormwater line that supplies the east stormwater sample point. Mr. Lauren Shelly (BES), Mr. Brain Laurent (BES), and Mr. Dana Bayuk (DEQ) approved this cleanout activity. The sediment buildup was the result of trees and rocks partially blocking the mouth of the outfall.

The November 12, 2007, sampling took place during the first significant rainfall event after the stormwater line cleaning. This sampling indicated an exceedence of the benchmark for oil and grease. We believe rainfall flushed some residue from the cleaned stormwater line and caused the oil and grease benchmark exceedance. This was confirmed by re-sampling of the east stormwater sample point on December 3, 2007, which resulted in a non-detect for oil and grease.

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SWPPP Plan Review and Action Plan

Upon review of the Stormwater Pollution Prevention Plan, we determined that our corrective action would be to add to the SWPPP, in section 7.4, *Source Controls*, an annual inspection PM of the outfalls for blockages and to remove obstructions as needed.

If you need more information, please feel free to contact me.

Best Regards,

Koreen Lail
Environmental Affairs

cc: Tom McCue
cc: T. Rothschild
cc: Dennis Jurries

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Water Quality Source Control, DEQ
Street, or PO Box 2020 SW 4th Ave., Suite 400
City, St Portland, OR 97201-4987

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1. Article Addressed to:

Dr. Elliot Zais
Water Quality Source Control, DEQ
2020 SW 4th Ave., Suite 400
Portland, OR 97201-4987

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Koreen Lail
Siltronic Corporation
7200 NW Front Avenue M/S 30
Portland, OR 97210-3676

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Koreen Lail
Environmental Engineer

Siltronic Corporation
7200 NW Front Avenue, MS
Portland OR 97210-3676, USA
Tel. 503-219-7994
Fax 503-219-7599
koreen.lail@siltronic.com

kll:061

September 13, 2006

Oregon Department of Environmental Quality
2020 SW 4th Ave., Suite 400
Portland, OR 97201-4987

Dear Dr. Zais,

Attached you will find the updated Storm Water Pollution Control Plan for our site. The major revisions of the old plan are:

- The parking lot sweeping and catch basin cleaning was changed to biannual
- Updated the best management practices to include putting a liner in the catch basin in the truck loading dock that can catch possible hydrocarbon leaks and excess sediment.
- Made a spill kit and drain cover available near the receiving areas for emergency spills and trained ERT's and receiving personnel on their location and use.
- Additional tables that describe the drain collection systems, structures on site, and materials stored on site.

Please feel free to contact me at 503-219-7994 if you have any questions.

Best regards,

Koreen Lail
Environmental Engineer

Siltronic Corporation

Enc.

Procedure

Department:	Environmental Affairs	Service Unit:	Location:
Org. -unit:	General		PORTLAND
Title: Storm Water Pollution Control Plan		valid from:	Date of last signature

Reference Documents:

P-27.10.02/0001	Emergency Preparedness, Prevention and Contingency Plan
P-27.10.02/0004	Environmental Guidance Procedure
P-09.99.02/0015	SCO Records
P-27.10.02/0003	Spill Prevention, Control and Countermeasures (SPCC) Plan Procedure

Originator: Koreen Lail	Org.: T-E-PS	Administration	Central Documentation
Date of issue:		Org.:	P-QS-D

Approval			Distribution	Copies
	Signature	**Date**	IntrAnet	**1**
Document Owner	**Koreen Lail**	**9/13/06**		
Environmental Manager	**Tom McCue**	**9/13/06**		

Revision Log

Section	Description	Revision date
All	Change document number from P-27.10.01/0002 and owner from Tom McCue	11/24/04
6	Updated storage areas. (M. Burr)	08/31/06
8.6	Changed parking lot sweeping from monthly to semi-annual (M. Burr)	08/31/06
All	Updated tables, changed Wacker references to Siltronic, updated best management practices section 8.	9/13/06

Table of Contents

		Page
1	**Goal and Purpose**	**5**
1.1	Purpose	5
1.2	Overview	5
2	**Definitions**	**6**
3	**Scope of Validity**	**7**
4	**General Facility Description**	**7**
4.1	General Information	7
4.2	Industrial Activity Description	7
5	**Industrial Activity Description**	**7**
6	**Potential Pollutants**	**8**
6.1	Production Chemicals	8
6.2	Chemical Spills	8
6.3	Oil and Grease	9
6.4	Suspended Solids	9
6.5	Waste Generated	9
6.6	Waste Treatment	10
7	**Structures on Site**	**11**
8	**Drainage Basins, Basin Area, and Basin Outfall**	**12**
9	**Significant Materials Stored on Site and Usage**	**13**
9.1	Tank Storage	13
9.2	Waste Water Treatment Plant 1	15
9.3	Waste Water Treatment Plant 2	16
9.4	Forwarding Sumps	18
9.5	Chemical Storage	19
9.5.1	Site Location	20
10	**General Storm Drainage**	**21**
10.1	Storm Water Description	21
10.2	Industrial Storm Water Discharge	22
10.3	Other Storm Water Discharge	22
10.4	Source Controls	22

SCOEPA00025679

11 Treatment and Disposal **23**
11.1 Hazardous Material Handling/ Disposal Summary 23
12 Storm Water Best Management Practices **24**
12.1 Containment 24
12.2 Oil and Grease Controls 24
12.3 Waste Chemicals and Material Disposal 24
12.4 Erosion and Sediment Control 24
12.4.1 Sedimentation Manhole 24
12.5 Covering Activities 25
12.6 Housekeeping 25
12.7 Isolation Valves 25
13 Stormwater Preventive Maintenance **26**
13.1 SWPCP Specific Maintenance and Management Practices 26
13.2 Clean Operations 26
13.3 Security Monitoring 26
13.4 Maintenance and Facility Operation Monitoring 26
13.5 Storm Water Inspections 27
13.6 Maintenance of SWPCP 27
14 Employee Education Program **27**
15 Record Keeping and Internal Reporting Procedures **28**
16 Spill Prevention and Response **28**
16.1 Criteria for Spills 28
16.2 Emergency Containment 29
16.3 General Spill Clean Up Considerations 29
16.4 Incident Reporting 30
16.5 Record-keeping 31
17 Monitoring and Reporting Requirements **31**
18 Storm Drain System Plan **32**
19 Hazardous Material Storage **33**

SCOEPA00025680

1 Goal and Purpose

1.1 Purpose

This document provides the policies and requirements for Siltronic's Storm Water Pollution Control plan. This plan is provided to control hazardous materials and material handling activities, which could contaminate storm water. This plan meets the requirements of the Federal Clean Water Act, the Guidance Document for Preparation of the NPDES Storm Water Pollution Control Plan, and General Permit #1200Z.

1.2 Overview

Siltronic Corporation is a manufacturer of hyperpure silicon wafers used by the semiconductor industry for the manufacture of computer chips.

The manufacture of silicon wafers entails the use of chemicals and the generation of wastes, some of which may be hazardous. Pursuant to the requirements of the Federal Clean Water Act, the Guidance Document for Preparation of the NDPES Storm Water Pollution Control Plan, and General Permit #1200Z, this Storm Water Pollution Control Plan is designed to minimize hazards, which could threaten storm water.

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2 Definitions

- CAD: Concentrated acid drain system
- CAED: Concentrated acid etch drain (mainly spent acid from Fab 2 acid etching)
- CE: Clarified effluent from WWTP containing water-soluble nitrates and cations and anions from neutralization of weak acids, pH 7 –7.5
- NPDES: National Pollutant Discharge Elimination System
- OWW: Organic wastewater drain system.
- PM: Preventative maintenance
- Spent Acid: Waste acid from wafer etching. Contains nitric acid, hydrofluoric acid and hydrofluosilicic acid.
- SCO: Siltronic Corporation
- SWW or SSW: Silicon solids wastewater drain system
- WAD: Weak acid drain system
- Weak Acid: Diluted acids used in productions including hydrochloric acid, nitric acid
- WWTP: Waste water treatment plant

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3 Scope of Validity

This document applies to all employees and contractors including personnel involved with storage and movement of hazardous materials outside the manufacturing buildings, and the maintenance and sampling of the storm water collection system at Siltronic's Portland plant.

4 General Information

Site Name	Siltronic Corporation
Address	7200 NW Front Avenue, Portland, OR 97210-3676
County	Multnomah
NPDES Permit	101128
EPA Reference No.	OR 003059-9
DEQ Site File Number	93450
Storm Water Permit	1200-Z
SIC Code	3674 (electronic and other electrical equipment)

5 Industrial Activity Description

The Siltronic Corporation's facility in Portland, Oregon, manufactures high purity silicon wafers, the basic raw material for the electronics industry. The facility has one administration building, two main process buildings, and several auxiliary support buildings.

Various activities take place at the site that may contribute to the contamination of storm water. These include:

SCOEPA00025683

- Area vehicular traffic in parking lots
- Material pickup and deliveries, and/or
- Periodic construction activities.

Facility maintenance personnel will normally be found working in all buildings: the yard south of the process buildings, on the roof, and in the penthouses of the process buildings. All production related activities take place indoors where there is no access to storm water drainage.

Process chemicals are received in the receiving/shipping area in the process buildings through the truck entrance gate. A summary of the location of materials stored or used throughout the facility which may represent a potential hazard to storm water runoff is given in section 10.2 Industrial Storm Water Discharge and in the tables in section 9 Significant Materials Stored on Site and Usage. Site-specific information illustrating the storm water drainage picture for the facility is given in section 18 Storm Drain System Plan.

6 Potential Pollutants

The manufacture of silicon wafers entails the use of chemicals and the generation of wastes, some of which may be hazardous. Pursuant to the requirements of the Federal Clean Water Act, the Guidance Document for Preparation of the NPDES Storm Water Pollution Control Plan, and General Permit #1200Z, this Storm Water Pollution Control Plan is designed to minimize hazards, which could threaten storm water.

6.1 Production Chemicals

All production related activities take place indoors where there is no access to storm water drains. (See section 9 Significant Material Stored on Site.)

6.2 Chemical Spills

Chemical spills can occur during the transportation of chemicals between different buildings on site. (See section 9 Significant Material Stored on Site.)

SCOEPA00025684

6.3 Oil And Grease

Oil and grease from transport equipment, forklifts, delivery vehicles, and employee cars

6.4 Suspended Solids

Debris in parking lots from trees, animals, and litter.

6.5 Waste Generated

Process Building Drain Collection System		
System	**Description**	**Generally Permitted Chemicals**
CAD/CAED	Concentration Acid Drains	Hydrofluoric Acid Nitric Acid, Hydrochloric Acid, Sulfuric Acid, Surfactant
WAD	Weak Acid Drain	Sodium Hydroxide, Potassium Hydroxide, Hydrochloric Acid, Nitric Acid, Sulfuric Acid
CCD	Concentrated Caustic Drain	Sodium Hydroxide, Potassium Hydroxide
OWW	Organic Waste Water Drain	Surfactant, Detergents, Wetting Agents, Glycol, Polishing Slurries, Ammonium Hydroxide, Tetramethylammonium Hydroxide, Triethanolamine, Potassium Carbonate, Citric Acid, Acetic Acid, Acetone, Ethyl Alcohol, Isopropyl Alcohol, Hydrogen Peroxide
SWW/SSW	Silicon Solids Waste Water Drains	Silicon Grinding Waste, Silicon Carbide, Aluminum Oxide, Surfactants, Wetting Agents
BD	Blow Down	Cooling Water, City Water
D	Domestic Drains	Kitchen sinks, Restrooms, General Water Fountains
CAW	Chromic Acid Drains	Chromic Acid, Chromium Trioxide, Potassium Dichromate, Nitric Acid,

SCOEPA00025685

		Hydrofluoric Acid

Note: This table does not contain all the chemicals used at this plant.

6.6 Waste Treatment

Process Building Drain Collection System		
System	**Treatment**	**Discharge Point**
CAD/CAED	Neutralization and Fluoride precipitation	Willamette River
WAD	Neutralization and Filtering	Willamette River
CCD	Used for neutralization/Excess to City	Willamette River/ City of Portland
OWW	Neutralization	City of Portland
Fab 1 SWW & North Sump	Neutralization/ Solids collection	City of Portland/ Landfill
Fab 2 SWW	Neutralization and precipitation	Willamette River
BD	Mixed with Clarified Effluent from WWTP	Willamette River
D	None	City of Portland
CAW	None	Shipped off site as is

Note: All waste releases to the Willamette River are permitted under NPDES permit number 101128, DEQ file number 93450, EPA Reference No. OR 003059-9. See definition section.

SCOEPA00025686

7 Structures On Site (including wall and roof construction material and roof area)

Structure Description	Wall Construction	Roof Construction	Roof Area (sq. ft)
Administration	Tilt-up galvanized steel with 6" cement coating and latex paint	Galvanized steel with 6" cement, tar paper, Insulperm, and vermiculite	26,700
Fab 1	Tilt-up galvanized steel with 6" cement coating and latex paint	Galvanized steel with 6" cement, tar paper, Insulperm, and vermiculite	225,000
Fab 2	Tilt-up galvanized steel with 6" cement coating and latex paint	Galvanized steel with 6" cement, tar paper, Insulperm, and vermiculite	66,900
Central facilities	Tilt-up galvanized steel with 6" cement coating and latex paint	Galvanized steel with latex paint	34,400
Covered Walkway	none	Galvanized steel with latex paint	12,600
Central Facilities Utilities (CUB)	Galvanized steel with latex paint	Galvanized steel with latex paint	4,300
Trichlorosilane Bunker	Cement Block	Galvanized steel with latex paint	400
Waste Chrome Building	Galvanized steel with latex paint	Galvanized steel with latex paint	400
NOx Scrubber	Galvanized steel with latex paint	Galvanized steel with latex paint	1,500
Warehouse	Galvanized steel with latex paint	Galvanized steel with latex paint	6,000
Chemical and Hazardous Waste Storage	Chain link fencing	Galvanized steel	3,700

SCOEPA00025687

Structure Description	Wall Construction	Roof Construction	Roof Area (sq. ft)
Fab 1 Forwarding Sump Bunker	Canvas walls with steel support frame	Galvanized steel	
Fab 2 Forwarding Sump Bunker	Canvas walls with steel support frame	Galvanized steel	2900
Waste Water Treatment Plant	Galvanized steel with latex paint	Galvanized steel with latex paint	4,900
Fab 2 Bulk Acid Storage	Chain Link fencing	Galvanized steel	1,700

8 Drainage Basins, Basin Area, and Basin Outfall

Drainage Basin	Area in square feet				Outfall
	Roof	Pervious	Impervious	Total	
DB 1	82,500			82,500	Outfall 005 to Willamette River
DB 2		49,700	59,600	109,300	City outfall to Willamette River
DB 3	198,000	291,000	383,200	872,200	Outfall 003 to Willamette River
DB 4	107,300	24,800	156,600	212,500	Outfall 004 to Willamette River
DB 5	1,500	30,500	80,400	112,400	To Siltronic's OWW waste system then to City POTW
DB 6		501,400		501,400	To ground and Willamette River
DB 7		381,100		381,100	To ground and to City outfall to Willamette River

Drainage Basin	Area in square feet				Outfall
	Roof	Pervious	Impervious	Total	
DB 8		1,093,000		1,093,000	To ground and to City outfall to Willamette River
Total	**389,300**	**2,371,000**	**679,800**	**3,440,600**	

9 Significant Materials Stored on Site and Usage

This section provides an overview of the areas in which materials are handled and stored that have the potential to enter storm water runoff.

Note: The Administration building and associated areas contain only small quantities of office related chemicals (e.g., toner for copy machines, maintenance supplies, etc.) and are excluded from this section.

9.1 Tank Storage

Material	Location	Capacity	Containment	Usage
Sulfuric Acid 36% (w/w)	NOx Scrubber	5,000 gallons	Bermed covered area drains to WWTP	No longer be used
Sodium Hydroxide 25% (w/w)	NOx Scrubber	5,000 gallons	Bermed covered area drains to WWTP	pH control in NOx Scrubber
Sodium Sulfide 10% (w/w)	NOx Scrubber	5,000 gallons	Bermed covered area drains to WWTP	NOx Scrubber reaction chemical
Sodium Chlorite 31% (w/w)	NOx Scrubber	5,000 gallons	Bermed covered area drains to WWTP	NOx Scrubber reaction chemical

SCOEPA00025689

Material	Location	Capacity	Containment	Usage
Sodium Hydroxide	UPW	5,000 gallons	Bermed covered area Normally drained to Storm water drain. Diversion valve WWTP while loading.	Used to prepare ion exchange resin beds
Hydrochloric Acid	UPW	5,000 gallons	Bermed covered area Normally drained to Storm water drain. Diversion valve WWTP while loading.	Used to prepare ion exchange resin beds
Nitric Acid	Fab 1 Bulk storage	2,900 gallons	Bermed covered area drains to WWTP	Production chemical
Nitric Acid	Fab 1 Bulk storage	2,900 gallons	Bermed covered area drains to WWTP	Production chemical
Nitric Acid	Fab 2 Bulk storage	4,000 gallons	Bermed covered area drains to WWTP	Production chemical
Nitric Acid	Fab 2 Bulk storage	4,000 gallons	Bermed covered area drains to WWTP	Production chemical
Nitric Acid	Fab 2 Bulk storage	4,000 gallons	Bermed covered area drains to WWTP	Production chemical
Hydrofluoric Acid	Fab 1 Bulk storage	3,000 gallons	Bermed covered area drains to WWTP	Production chemical
Hydrofluoric Acid	Fab 1 Bulk storage	3,000 gallons	Bermed covered area drains to WWTP	Production chemical
Hydrofluoric Acid	Fab 2 Bulk storage	4,000 gallons	Bermed covered area drains to	Production chemical

Material	Location	Capacity	Containment	Usage
60% (w/w)			WWTP	
Hydrofluoric Acid	Fab 2 Bulk storage	4,000 gallons	Bermed covered area drains to WWTP	Production chemical
Diesel	CUB	500 gallons	Indoors	Emergency generator #1
Diesel	CUB	850 gallons	Indoors	Emergency generator #2
Diesel	CFB	850 gallons	Indoors	Emergency generator #3
Used Oil	West side of CUB	300 gallons	Double contained tank with overfill protection	Used oil from compressor
New Oil	West side of CUB	300 gallons	Double contained tank with overfill protection	New oil for compressor

9.2 Waste Water Treatment Plant 1 (Not Being Used in reserve)

Material	Location	Capacity	Containment	Usage
Sulfuric acid 98% (w/w)	WWTP 1	2,500 gallons	Bermed area connected to diversion tank	Not Being Used
OWW	WWTP 1 (T-39-10-1)	16,000 gallons	Bermed area connected to diversion tank	Not Being Used
OWW	WWTP 1 (T-39-10-2)	16,000 gallons	Bermed area connected to diversion tank	Not Being Used

SCOEPA00025691

Material	Location	Capacity	Containment	Usage
CAD	WWTP 1 (T-11-5)	39,100 gallons	Bermed area connected to diversion tank	Not Being Used
CAD	WWTP 1 (T-39-11-4)	39,100 gallons	Bermed area connected to diversion tank	Not Being Used
WAD	WWTP 1 (T-11-1)	16,000 gallons	Bermed area connected to diversion tank	Not Being Used
WAD	WWTP 1 (T-11-2)	16,000 gallons	Bermed area connected to diversion tank	Not Being Used
WAD	WWTP 1 (T-11-3)	16,000 gallons	Bermed area connected to diversion tank	Not Being Used
Overflows, diversions, etc..	WWTP 1	40,000 gallons	Diversion tank used as needed for overflows, diversions, etc.	Tank is normal empty

9.3 Waste Water Treatment Plant 2

Material	Location	Capacity	Containment	Usage
CAD	WWTP 2 (T-39-100)	39,100 gallons	Bermed area connected to diversion tank	Reaction tank 1 for spent acid
CAD	WWTP 2 (T-39-101)	39,100 gallons	Bermed area connected to diversion tank	Reaction tank 2 for spent acid
WAD	WWTP 2	37,600 gallons	Bermed area connected to diversion	WAD First Stage for weak

Material	Location	Capacity	Containment	Usage
	(T-39-200)		tank	waste acid
WAD	WWTP 2 (T-39-201)	37,600 gallons	Bermed area connected to diversion tank	WAD Second Stage for weak waste acid
WAD	WWTP 2 (T-39-202)	37,600 gallons	Bermed area connected to diversion tank	WAD Third Stage for weak waste acid
OWW	WWTP 2 (T-39-300)	30,000 gallons	Bermed area connected to diversion tank	OWW First Stage neutralization. for organic waste
OWW	WWTP 2 (T-39-301)	30,000 gallons	Bermed area connected to diversion tank	OWW Second Stage Neutralization. for organic waste
Lime Silo	WWTP 2	2,500 ft^3	Bermed area connected to diversion tank	Storage tank for dry slaked lime
Lime Day tank	WWTP 2	5,000 gallons	Bermed area connected to diversion tank	Used for fluoride precipitation and neutralization
Sulfuric acid 98% (w/w)	WWTP 2	8,000 gallons	Horizontal tank in sloped area connected to diversion tank	pH control in WWTP 2
Sodium Hydroxide 25% (w/w)	WWTP 2	8,000 gallons	Bermed area connected to diversion tank	pH control in WWTP 2

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9.4 Forwarding Sumps

Chemical	Location	Capacity	Containment	Usage
CAD	Fab1 Forwarding Sump (T-39-5)	5300 gallons	Covered cement bunker. Overflow drain to City	Forwards CAD from Fab 1 to WWTP
OWW	Fab1 Forwarding Sump (T-39-8)	4100 gallons	Covered cement bunker. Overflow drain to City	Forwards OWW from Fab 1 to WWTP
WAD	Fab1 Forwarding Sump (T-T-39-7)	5300 gallons	Covered cement bunker. Overflow drain to City	Forwards WAD from Fab 1 to WWTP
CAD	Fab 2 Forwarding Sump: CAD Surge tank (T-139-20)	24,800 gallons	Covered cement bunker. Overflow drain to City	Forwards CAD from Fab 2 to WWTP
CAED	Fab 2 Forwarding Sump: CAED Surge tank (T-139-90)		Covered cement bunker. Overflow drain to City	Forwards CAED from Fab 2 to WWTP
OWW	Fab 2 Forwarding Sump: OWW Surge tank (T-139-40)		Covered cement bunker. Overflow drain to City	Forwards OWW from Fab 2 to WWTP
WAD	Fab 2 Forwarding Sump: WAD Surge tank (T-139-10)		Covered cement bunker. Overflow drain to City	Forwards WAD from Fab 2 to WWTP

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9.5 Chemical Storage

Chemical	Location	Capacity	Containment	Usage
Waste Chrome Solution	Waste Chrome Storage Building	2 – 400 gallon totes	Self contained enclosed building designed to contain 2 full totes	Collection point for lab waste
Hazardous Waste	Fab1 Bulk Storage	n/a	Blind Sump to WWTP in covered area	Hazardous waste storage
Acid Storage	Fab1 Bulk Storage	n/a	Bermed area in covered area	Storage for 1 gal to 55 gal containers of acid
Caustic Storage	Fab1 Bulk Storage	n/a	Bermed area in covered area	Storage for 1gal to 55 gal containers of bases
Anhydrous Hydrogen Chloride Gas Storage	Fab1 Bulk Storage	2000 cylinders	Bermed area in covered area	Storage for 60 lbs. gas cylinders
Trichlorosilane Gas Storage	Fab1 Bulk Storage	9 cylinders	Bermed area in covered area	Storage for 550 lbs. gas cylinders

This section lists the general information for the Wacker facility and describes industrial activity.

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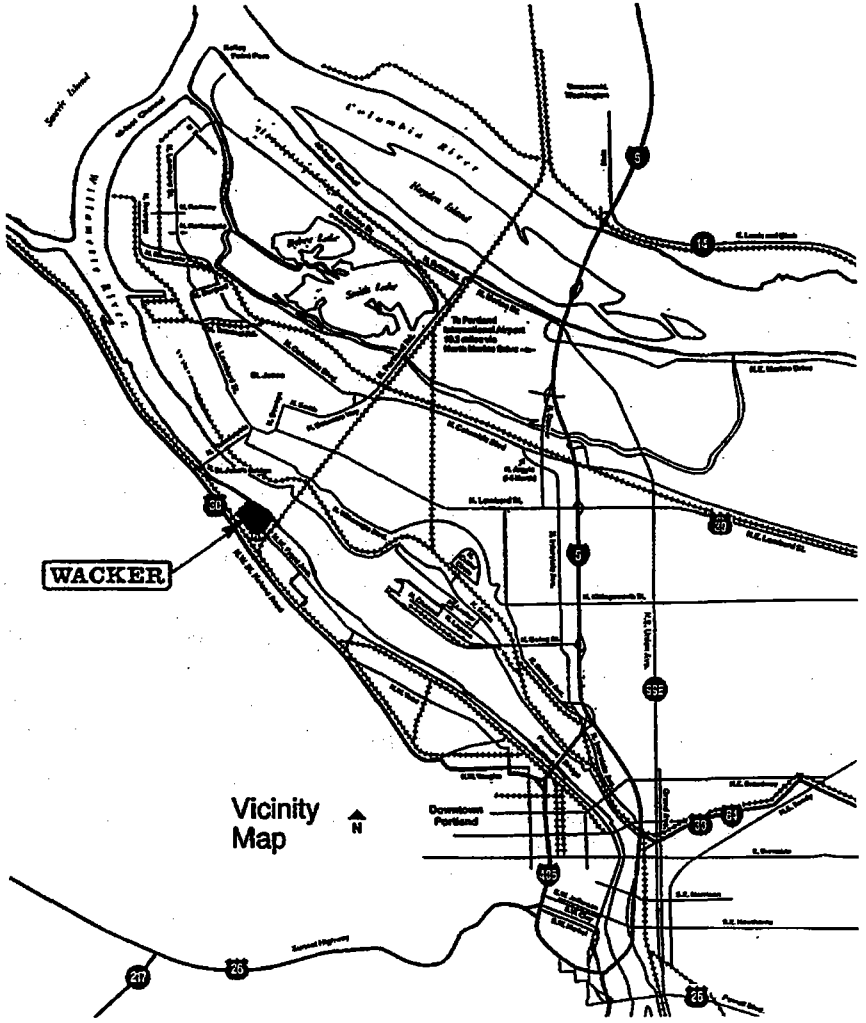
9.5.1 Site Location



10 General Storm Drainage

This following sections contain a summary of all the catch basins located at Siltronic, and facilities drawings illustrating the current location of each of the following:

- Catch Basin
- Drainage lines
- Discharge points
- Sample locations

10.1 Storm Water Description

The table below lists the paved/roof runoff and pervious surface area.

Total paved, impervious runoff surface area	1,191,000 sq. ft.
Total roof runoff surface area	405,000 sq. ft.
Pervious surface area	2,062,000 sq. ft.

Siltronic Corporation has storm drains located on the facility premises. (See section *18 Storm Drain System Plan*). The storm drains, and the majority of the storm water from facility roofs runoff discharge at the following separate points:

- directly into the Willamette River, and
- into a storm line managed by the City of Portland.

The storm water runoff associated with the Administration building roof flows to the City of Portland through an independent line.

10.2 Industrial Storm Water Discharge

The storm drains associated with industrial activity consist of all of the drains except those at the Administrative building (listed in Other Storm Water Discharge). The runoff water collected in these drains has the potential to be contaminated due to their proximity to the storage and transfer of materials, or they combine with the discharge of drains that have the potential to be contaminated. One storm drain on the south side of the original process building (Fab 1) is used to drain emergency non-contact cooling water for equipment inside the facility. No other storm drains are used for any activities other than storm water runoff control.

The main storm water line combines with the effluent of the waste water treatment plant (WWTP) at the west side of the facility, and then the combined effluent discharges from outfall number 003 to the Willamette river. Storm water runoff will be sampled at the first storm water access point just prior to connection to the combined effluent.

There are nine storm drains on the west side of the facility that enter the combined effluent directly and cannot be sampled independently from the WWTP effluent. These drains are primarily designed for storm water runoff from the west access road. No hazardous materials are transported through the west gate.

There are two storm drains at the area adjacent to the WWTP. The runoff entering these drains is combined with other process effluent, then treated at the WWTP before being discharge to the combined effluent.

10.3 Other Storm Water Discharge

The table below lists the paved/roof runoff surface area, and total basins for the administrative building and associated paved surfaces.

Paved runoff surface area	30,000 sq. ft.
Roof runoff surface area	26,000 sq. ft.
Number storm water catch basins	3

No industrial activities take place at the administrative building and it does not contain any significant materials. The main storm line for this area is discharged into a storm line managed by the City of Portland. There will be no sampling of this storm line, since there is no industrial activity associated with the runoff.

10.4 Source Controls

All materials are stored in a controlled environment to prevent leaks and spills from contaminating storm water. Source controls consist of some or all of the following:

- complete enclosure such as a hazardous material shed or a building, and covering or roofing
- secondary containment in the form of curbing or vaults
- a PM to annually inspect and clean oil-water separator
- semi-annual PM's to clean all catch basins
- outside source controls consist of catch basins vaults and
- specially designed down spouts, which have sediment control.

11 Treatment and Disposal

The majority of waste produced at Siltronic, are wastewater's that are disposed of by discharging into the liquid drain system. The drain system consists of over 130 drains of various types and systems. The correct operation of the drain system is critical to the operation of the WWTP and to meet the permitted discharge limits of the waste streams. The complete Drain Table which includes the type of systems, drains, permitted chemicals, treatment method and discharge point associated with each drain is located in the Environmental Guidance Procedure.

11.1 Hazardous Material Handling/ Disposal Summary

There is no on site disposal of hazardous waste. All hazardous waste is controlled to meet the requirements of the State and Federal hazardous waste regulations. For a complete listing of wastes and disposal methods see the *Environmental Guidance Procedure* "Waste Table" and recycling programs.

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12 Storm Water Best Management Practices

12.1 Containment

Hazardous materials are stored undercover, within berms or other secondary containment devices to prevent leaks and spills from contaminating storm water.

12.2 Oil and Grease Controls

An oil-water separator is located in the oil dispensing area outside Facilities Maintenance. The oil-water separator is set-up on an annual PM for inspection and cleaning. Oil-water separators are also located at each outside electrical transformer.

An insert has been installed in the truck docking area that has an accumulation pocket and filter strips that collect oil, sediment, and other contaminants. The insert is changed every bi-annual cleaning or in the case of a spill occurs.

12.3 Waste Chemicals and Material Disposal

Wastes are recycled or disposed of in a manner to eliminate or minimize exposure of pollutants to storm water.

Wastes contained in bins or dumpsters, where there is a potential for drainage of storm water through the waste, are covered to prevent exposure of storm water to these pollutants.

12.4 Erosion and Sediment Control

Erosion control methods are employed to minimize erosion of soil at the site. This includes the 1998 project to improve the Willamette River bank. Flooding in 1996 damaged the riverbank at Siltronic Corporation. The repair work included placement of large boulders and riprap along 2,500 linear feet of river frontage as well as geo-textile cloth under the boulders to prevent soil erosion. Additionally, trees were planted on 40-foot centers and the walking path along the river was restored.

The restoration project was undertaken to stabilize the riverbank and prevent further bank erosion during periods of high water. Preventing further bank erosion reduces the amount of sediment entering the river. This, along with

additional shade resulting from the tree planting, will benefit the river system by reducing sediment pollution and cooling.

12.4.1 Sedimentation Manhole

In 1998 the North section of Fab 1 was expanded. This build-out consists primarily of office space and incorporates an electrical room and maintenance area. The gross amount of 17,350 square feet of area is piped to a sedimentation manhole and then to the storm system located on the north side of the property. The sedimentation manhole is intended to treat the storm water runoff by providing a chamber for the water to settle and drop suspended solids prior to entering the storm system.

The sedimentation manhole is set-up on an annual PM for inspection and cleaning.

12.5 Covering Activities

All manufacturing activities are conducted indoors. Treatment and storage areas are undercover.

12.6 Housekeeping

Areas that may contribute pollutants to storm water are kept clean. Prompt clean up of spills and leaks as well as proper maintenance of vehicles is conducted to eliminate or minimize exposure of storm water to pollutants.

In addition, the parking lot is swept semi-annually and fenced areas swept semi-annually.

An emergency spill kit and a drain cover are located in the receiving areas.

12.7 Isolation Valves

Catch basins near chemical delivery areas are installed with isolation valves, which are closed while tanks are being filled. Additional isolation valves are located on catch basins to reduce the possibility of a spill reaching an outfall point. (See section *18 Storm Drain System Plan*).

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13 Stormwater Preventive Maintenance

This section gives an overview of the programs in place for management and maintenance of the Siltronic facility. Maintenance programs are centered on a number of inspection and preventive maintenance programs to assure the integrity of all plant equipment and facilities. The inspection programs often overlap which provide for several groups inspecting plant operations at different times of the day for added protection against undiscovered problems.

13.1 SWPCP Specific Maintenance and Management Practices

Best management practices and maintenance programs with relationship to storm water pollution control are integrated into the everyday working operations of the facility.

This part of the plan will be reserved to add any improvements in maintenance practices identified through inspections, reviews, employee suggestions, or other means which are required to assure proper storm water pollution control.

13.2 Clean Operations

Because of the nature of our business, Siltronic maintains an aggressive Clean Operations policy requiring each departmental area to maintain their areas free of dirt and clutter. A Clean Operations committee is in place to set standards and assure these standards are complied with.

13.3 Security Monitoring

Plant security personnel inspect the plant site daily for general operational problems.

13.4 Maintenance and Facility Operation Monitoring

The Facilities Operations department conducts inspections of all facility equipment. This is done in an effort to detect any equipment or operational problems before it results in an equipment shutdown or emergency situation.

Maintenance departments also have a preventive maintenance program for equipment. This routine maintenance is done in an effort to keep equipment in peak operating condition to avoid shutdowns and emergency situations.

The Facilities Operations group conducts operational inspections of facilities equipment including the WWTP, NOx (air) scrubbers, hazardous waste storage, treatment, and recycling equipment. These systems are inspected four times per day.

13.5 Storm Water Inspections

A number of different inspections are performed at Siltronic to ensure both the proper maintenance of all equipment and facilities, and the safety of personnel.

In addition to these inspections, an annual inspection of the integrity of all material storage areas identified in section 9, Significant Materials Stored Onsite and Usage, is performed by the Facilities Department.

Also, the Facilities Chemist conducts a monthly visual inspection (for Floating Solids and Oil and Grease Sheen) during periods of rain. A monthly visual inspection of the catch basins is conducted by the Facilities Operations group. Both of these inspections are included in SCO's PM (Preventive Maintenance) system.

Changes in operational procedures, improvements in preventive maintenance programs or facility modifications will correct any deficiencies found during these inspections.

13.6 Maintenance of SWPCP

This plan will be reviewed annually, and updated as necessary by the environmental engineer. The SWPCP and updates to the SWPCP will be submitted to DEQ in accordance with permit schedule B.3 with in 14 days of completion.

14 Employee Education Program

The purpose of this program is to inform personnel of the SWPCP, the spill response procedures, materials management practices, and good housekeeping measures that will prevent pollution of storm water runoff. The program is implemented through a number of training courses. All employees and contractors receive general awareness storm water training while other employees, including all ERT members, receive more advanced Storm water training. See the *Environmental Guidance Procedure* for detailed information.

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In addition all storm water catch basins are stenciled "Do not dump. Discharges to river" to educate and remind employees of the importance of storm water protection.

15 Record Keeping and Internal Reporting Procedures

For a complete description of environmental records and retention times see the *SCO Records* procedure.

16 Spill Prevention and Response

Listed within this section are attributes of the programs, which apply directly to the storm water pollution control. Wacker Siltronic maintains an active Emergency Preparedness and Prevention Program. The purpose of the program is to ensure to the best of our abilities that the plant is maintained and operated in such a manner that minimizes the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous materials or hazardous waste constituents into the air, soil, or surface water which could threaten human health or the environment.

The program was developed to meet the Spill Prevention Control and Countermeasures requirements of 40 CFR 112 and incorporates procedures and programs that insure storm water pollution control. *See the Spill Prevention, Control and Countermeasures (SPCC) Plan Procedure*

For complete emergency response procedures and listing of emergency response equipment see the *Emergency Preparedness, Prevention and Contingency Plan*_procedure.

16.1 Criteria for Spills

Generally a spill is defined as any type of unauthorized release or disposal of a hazardous chemical or waste. Emergency procedures are activated when a spill, or threatened spill, or release cannot be contained on Siltronic property, resulting in off-site soil/air contamination, and/or water pollution. Such a release has the potential to flow into the following:

- an improper process drain
- the soil, or porous material not designed to contain the material, and
- a street drain, or trench leading to the Willamette River or City of Portland sewer.

16.2 Emergency Containment

During a spill, all reasonable measures necessary to ensure that releases do not occur, recur, or spread to other potentially hazardous areas in the facility are to be taken.

These measures may include the following:

- stopping processes and/or operations
- collecting and containing released chemicals, and
- removing or isolating containers.

16.3 General Spill Clean Up Considerations

a) The most important concern in responding to a large spill should be the safety of the employees, and response personnel. An Emergency Response Team is provided with a minimum of forty hours of training per year to safely and effectively respond to spills, and emergencies that could occur on the plant site.

b) Once personnel have donned the appropriate personal protective equipment, stopping the source of a leaking liquid should be the response team's first objective. This can be done by turning off pumps that pressurize a line, closing isolation valves, plugging holes, turning drums hole-up to stop leaks, etc. In an emergency, any safe method (within the limits of the law) of getting the job done is legitimate. There is no absolute right or wrong way to do it. Annual training, monthly meetings, drills, and events provide practical and safe methods useful in emergency response situations.

c) Containment of a spill is the next most important objective. If a spill is not contained, (i.e., running down an improper drain, or threatens to run down an improper drain) it must be stopped. Barricade the spill, and drain with bags of absorbent, absorbent pigs, or neutralizer. Quantities of these materials can be found in the spill materials shed, which is next to the chrome treatment building in the south yard. The main storm water drain on the south yard road (next to the chrome shed) is equipped with a manual butterfly valve, make sure it is closed if the spill is on or near the roadway. This valve is normally open except when a truck is being loaded or unloaded in the immediate vicinity. An emergency spill kit and a drain cover are also located in the receiving/docking areas.

d) Never use hoses to wash down any material into the sewer/city water system.

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e) Once the source of the spill has been controlled and after the spill itself has been contained, appropriate clean up operations can be initiated.

16.4 Incident Reporting

Incidents involving a release of material to the environment air, soil, or water are reported by the Environmental department to the appropriate regulatory agencies or response organization.

16.4.1 24-Hour Reporting

Any noncompliance, which may endanger health or the environment, will be communicated to DEQ by telephone within twenty-four hours of recognition. A written report will be forwarded to DEQ within five working days. The report will include:

- a description of the noncompliance and its cause
- the period of noncompliance, including exact dates and times
- the estimated time noncompliance is expected to continue if it has not been corrected, and
- steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

Note: DEQ may waive the written report on a case-by-case basis if the oral report has been received within twenty-four hours.

The following shall be included as information, which must be reported within twenty-four hours:

- any unanticipated bypass which exceeds any effluent limitation in the permit, and
- any upset which exceeds any effluent limitation in the permit.

16.5 Record-keeping

Records of spills which include the type and quantity of materials released, response and corrective actions taken and agencies notified are completed and kept by the Environmental department. For additional information see the *SCO Records* policy.

17 Monitoring and Reporting Requirements

Monitoring and reporting is conducted per Schedule B of General Permit #1200Z. The facilities chemist maintains specific sampling procedures. The identification of discharge outfalls and sample points (where storm water monitoring occurs) are included in section *10.2 Industrial Storm Water Discharge and section 18 Storm Drain System Plan.* For a complete description of environmental records and retention times see the *SCO Records* Policy.

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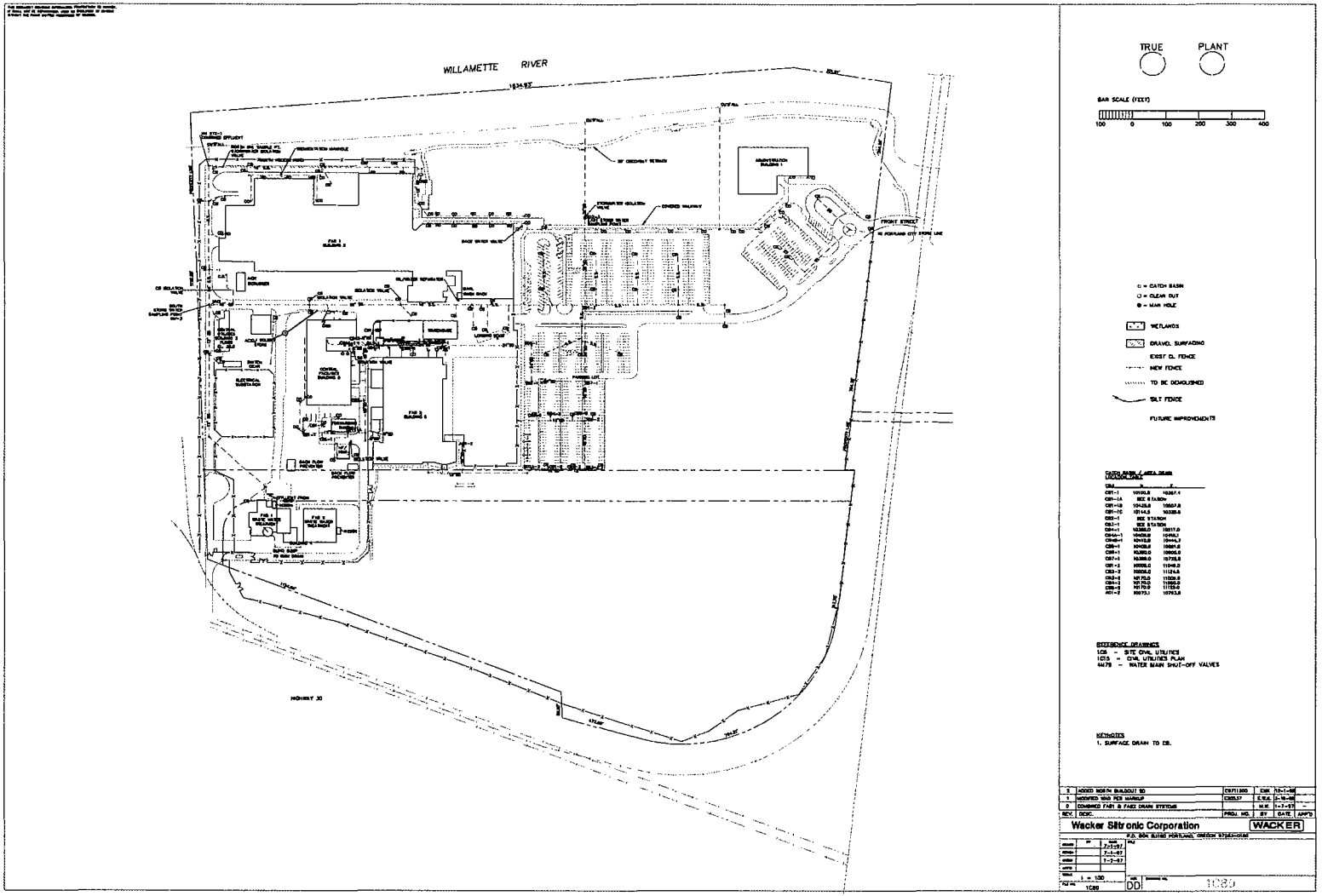
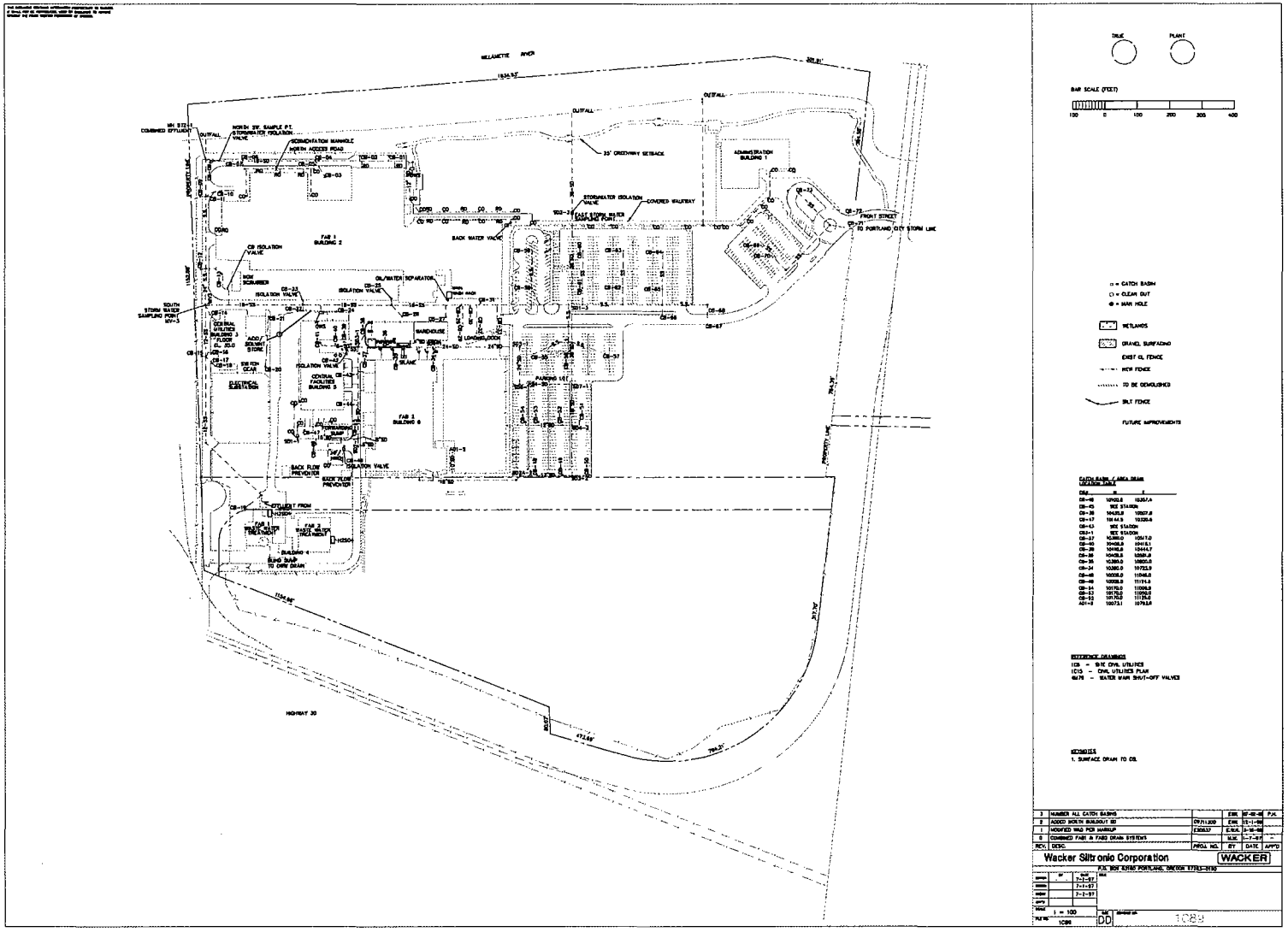
18 Storm Drain System Plan



19 Hazardous Material Storage



siltronic
perfect silicon solutions

Koreen Lail
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kll:060

September 13, 2006

City of Portland Environmental Services
Water Pollution control Laboratory
6543 N. Burlington Ave.
Portland, OR 97203-5452

Dear Mr. Shelly,

Attached you will find the updated Storm Water Pollution Control Plan for our site. The major revisions of the old plan are:

- The parking lot sweeping and catch basin cleaning was changed to biannual
- Updated the best management practices to include putting a liner in the catch basin in the truck loading dock that can catch possible hydrocarbon leaks and excess sediment.
- Made a spill kit and drain cover available near the receiving areas for emergency spills and trained ERT's and receiving personnel on their location and use.
- Additional tables that describe the drain collection systems, structures on site, and materials stored on site.

Please feel free to contact me at 503-219-7994 if you have any questions.

Best regards,

Koreen Lail
Environmental Engineer

Siltronic Corporation

Enc.

Procedure

Department:	Environmental Affairs	Service Unit:	Location:
Org. -unit:	General		PORTLAND
Title: Storm Water Pollution Control Plan		valid from:	Date of last signature

Reference Documents:

P-27.10.02/0001	Emergency Preparedness, Prevention and Contingency Plan
P-27.10.02/0004	Environmental Guidance Procedure
P-09.99.02/0015	SCO Records
P-27.10.02/0003	Spill Prevention, Control and Countermeasures (SPCC) Plan Procedure

Originator: Koreen Lail Org.: T-E-PS	Administration Central Documentation
Date of issue:	Org.: P-QS-D

Approval			Distribution	Copies
	Signature	**Date**	IntrAnet	**1**
Document Owner	**Koreen Lail**	**9/13/06**		
Environmental Manager	**Tom McCue**	**9/13/06**		

Revision Log

Section	Description	Revision date
All	Change document number from P-27.10.01/0002 and owner from Tom McCue	11/24/04
6	Updated storage areas. (M. Burr)	08/31/06
8.6	Changed parking lot sweeping from monthly to semi-annual (M. Burr)	08/31/06
All	Updated tables, changed Wacker references to Siltronic, updated best management practices section 8.	9/13/06

Table of Contents

		Page
1	**Goal and Purpose**	**5**
1.1	Purpose	5
1.2	Overview	5
2	**Definitions**	**6**
3	**Scope of Validity**	**7**
4	**General Facility Description**	**7**
4.1	General Information	7
4.2	Industrial Activity Description	7
5	**Industrial Activity Description**	**7**
6	**Potential Pollutants**	**8**
6.1	Production Chemicals	8
6.2	Chemical Spills	8
6.3	Oil and Grease	9
6.4	Suspended Solids	9
6.5	Waste Generated	9
6.6	Waste Treatment	10
7	**Structures on Site**	**11**
8	**Drainage Basins, Basin Area, and Basin Outfall**	**12**
9	**Significant Materials Stored on Site and Usage**	**13**
9.1	Tank Storage	13
9.2	Waste Water Treatment Plant 1	15
9.3	Waste Water Treatment Plant 2	16
9.4	Forwarding Sumps	18
9.5	Chemical Storage	19
9.5.1	Site Location	20
10	**General Storm Drainage**	**21**
10.1	Storm Water Description	21
10.2	Industrial Storm Water Discharge	22
10.3	Other Storm Water Discharge	22
10.4	Source Controls	22

SCOEPA00025713

11 Treatment and Disposal **23**
11.1 Hazardous Material Handling/ Disposal Summary 23
12 Storm Water Best Management Practices **24**
12.1 Containment 24
12.2 Oil and Grease Controls 24
12.3 Waste Chemicals and Material Disposal 24
12.4 Erosion and Sediment Control 24
12.4.1 Sedimentation Manhole 24
12.5 Covering Activities 25
12.6 Housekeeping 25
12.7 Isolation Valves 25
13 Stormwater Preventive Maintenance **26**
13.1 SWPCP Specific Maintenance and Management Practices 26
13.2 Clean Operations 26
13.3 Security Monitoring 26
13.4 Maintenance and Facility Operation Monitoring 26
13.5 Storm Water Inspections 27
13.6 Maintenance of SWPCP 27
14 Employee Education Program **27**
15 Record Keeping and Internal Reporting Procedures **28**
16 Spill Prevention and Response **28**
16.1 Criteria for Spills 28
16.2 Emergency Containment 29
16.3 General Spill Clean Up Considerations 29
16.4 Incident Reporting 30
16.5 Record-keeping 31
17 Monitoring and Reporting Requirements **31**
18 Storm Drain System Plan **32**
19 Hazardous Material Storage **33**

1 Goal and Purpose

1.1 Purpose

This document provides the policies and requirements for Siltronic's Storm Water Pollution Control plan. This plan is provided to control hazardous materials and material handling activities, which could contaminate storm water. This plan meets the requirements of the Federal Clean Water Act, the Guidance Document for Preparation of the NPDES Storm Water Pollution Control Plan, and General Permit #1200Z.

1.2 Overview

Siltronic Corporation is a manufacturer of hyperpure silicon wafers used by the semiconductor industry for the manufacture of computer chips.

The manufacture of silicon wafers entails the use of chemicals and the generation of wastes, some of which may be hazardous. Pursuant to the requirements of the Federal Clean Water Act, the Guidance Document for Preparation of the NDPES Storm Water Pollution Control Plan, and General Permit #1200Z, this Storm Water Pollution Control Plan is designed to minimize hazards, which could threaten storm water.

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2 Definitions

- CAD: Concentrated acid drain system
- CAED: Concentrated acid etch drain (mainly spent acid from Fab 2 acid etching)
- CE: Clarified effluent from WWTP containing water-soluble nitrates and cations and anions from neutralization of weak acids, pH 7 –7.5
- NPDES: National Pollutant Discharge Elimination System
- OWW: Organic wastewater drain system.
- PM: Preventative maintenance
- Spent Acid: Waste acid from wafer etching. Contains nitric acid, hydrofluoric acid and hydrofluosilicic acid.
- SCO: Siltronic Corporation
- SWW or SSW: Silicon solids wastewater drain system
- WAD: Weak acid drain system
- Weak Acid: Diluted acids used in productions including hydrochloric acid, nitric acid
- WWTP: Waste water treatment plant

3 Scope of Validity

This document applies to all employees and contractors including personnel involved with storage and movement of hazardous materials outside the manufacturing buildings, and the maintenance and sampling of the storm water collection system at Siltronic's Portland plant.

4 General Information

Site Name	Siltronic Corporation
Address	7200 NW Front Avenue, Portland, OR 97210-3676
County	Multnomah
NPDES Permit	101128
EPA Reference No.	OR 003059-9
DEQ Site File Number	93450
Storm Water Permit	1200-Z
SIC Code	3674 (electronic and other electrical equipment)

5 Industrial Activity Description

The Siltronic Corporation's facility in Portland, Oregon, manufactures high purity silicon wafers, the basic raw material for the electronics industry. The facility has one administration building, two main process buildings, and several auxiliary support buildings.

Various activities take place at the site that may contribute to the contamination of storm water. These include:

- Area vehicular traffic in parking lots
- Material pickup and deliveries, and/or
- Periodic construction activities.

Facility maintenance personnel will normally be found working in all buildings: the yard south of the process buildings, on the roof, and in the penthouses of the process buildings. All production related activities take place indoors where there is no access to storm water drainage.

Process chemicals are received in the receiving/shipping area in the process buildings through the truck entrance gate. A summary of the location of materials stored or used throughout the facility which may represent a potential hazard to storm water runoff is given in section 10.2 Industrial Storm Water Discharge and in the tables in section 9 Significant Materials Stored on Site and Usage. Site-specific information illustrating the storm water drainage picture for the facility is given in section 18 Storm Drain System Plan.

6 Potential Pollutants

The manufacture of silicon wafers entails the use of chemicals and the generation of wastes, some of which may be hazardous. Pursuant to the requirements of the Federal Clean Water Act, the Guidance Document for Preparation of the NPDES Storm Water Pollution Control Plan, and General Permit #1200Z, this Storm Water Pollution Control Plan is designed to minimize hazards, which could threaten storm water.

6.1 Production Chemicals

All production related activities take place indoors where there is no access to storm water drains. (See section 9 Significant Material Stored on Site.)

6.2 Chemical Spills

Chemical spills can occur during the transportation of chemicals between different buildings on site. (See section 9 Significant Material Stored on Site.)

6.3 Oil And Grease

Oil and grease from transport equipment, forklifts, delivery vehicles, and employee cars

6.4 Suspended Solids

Debris in parking lots from trees, animals, and litter.

6.5 Waste Generated

Process Building Drain Collection System		
System	**Description**	**Generally Permitted Chemicals**
CAD/CAED	Concentration Acid Drains	Hydrofluoric Acid Nitric Acid, Hydrochloric Acid, Sulfuric Acid, Surfactant
WAD	Weak Acid Drain	Sodium Hydroxide, Potassium Hydroxide, Hydrochloric Acid, Nitric Acid, Sulfuric Acid
CCD	Concentrated Caustic Drain	Sodium Hydroxide, Potassium Hydroxide
OWW	Organic Waste Water Drain	Surfactant, Detergents, Wetting Agents, Glycol, Polishing Slurries, Ammonium Hydroxide, Tetramethylammonium Hydroxide, Triethanolamine, Potassium Carbonate, Citric Acid, Acetic Acid, Acetone, Ethyl Alcohol, Isopropyl Alcohol, Hydrogen Peroxide
SWW/SSW	Silicon Solids Waste Water Drains	Silicon Grinding Waste, Silicon Carbide, Aluminum Oxide, Surfactants, Wetting Agents
BD	Blow Down	Cooling Water, City Water
D	Domestic Drains	Kitchen sinks, Restrooms, General Water Fountains
CAW	Chromic Acid Drains	Chromic Acid, Chromium Trioxide, Potassium Dichromate, Nitric Acid,

		Hydrofluoric Acid

Note: This table does not contain all the chemicals used at this plant.

6.6 Waste Treatment

Process Building Drain Collection System		
System	**Treatment**	**Discharge Point**
CAD/CAED	Neutralization and Fluoride precipitation	Willamette River
WAD	Neutralization and Filtering	Willamette River
CCD	Used for neutralization/Excess to City	Willamette River/ City of Portland
OWW	Neutralization	City of Portland
Fab 1 SWW & North Sump	Neutralization/ Solids collection	City of Portland/ Landfill
Fab 2 SWW	Neutralization and precipitation	Willamette River
BD	Mixed with Clarified Effluent from WWTP	Willamette River
D	None	City of Portland
CAW	None	Shipped off site as is

Note: All waste releases to the Willamette River are permitted under NPDES permit number 101128, DEQ file number 93450, EPA Reference No. OR 003059-9. See definition section.

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7 Structures On Site (including wall and roof construction material and roof area)

Structure Description	Wall Construction	Roof Construction	Roof Area (sq. ft)
Administration	Tilt-up galvanized steel with 6" cement coating and latex paint	Galvanized steel with 6" cement, tar paper, Insulperm, and vermiculite	26,700
Fab 1	Tilt-up galvanized steel with 6" cement coating and latex paint	Galvanized steel with 6" cement, tar paper, Insulperm, and vermiculite	225,000
Fab 2	Tilt-up galvanized steel with 6" cement coating and latex paint	Galvanized steel with 6" cement, tar paper, Insulperm, and vermiculite	66,900
Central facilities	Tilt-up galvanized steel with 6" cement coating and latex paint	Galvanized steel with latex paint	34,400
Covered Walkway	none	Galvanized steel with latex paint	12,600
Central Facilities Utilities (CUB)	Galvanized steel with latex paint	Galvanized steel with latex paint	4,300
Trichlorosilane Bunker	Cement Block	Galvanized steel with latex paint	400
Waste Chrome Building	Galvanized steel with latex paint	Galvanized steel with latex paint	400
NOx Scrubber	Galvanized steel with latex paint	Galvanized steel with latex paint	1,500
Warehouse	Galvanized steel with latex paint	Galvanized steel with latex paint	6,000
Chemical and Hazardous Waste Storage	Chain link fencing	Galvanized steel	3,700

Structure Description	Wall Construction	Roof Construction	Roof Area (sq. ft)
Fab 1 Forwarding Sump Bunker	Canvas walls with steel support frame	Galvanized steel	
Fab 2 Forwarding Sump Bunker	Canvas walls with steel support frame	Galvanized steel	2900
Waste Water Treatment Plant	Galvanized steel with latex paint	Galvanized steel with latex paint	4,900
Fab 2 Bulk Acid Storage	Chain Link fencing	Galvanized steel	1,700

8 Drainage Basins, Basin Area, and Basin Outfall

Drainage Basin	Area in square feet				Outfall
	Roof	Pervious	Impervious	Total	
DB 1	82,500			82,500	Outfall 005 to Willamette River
DB 2		49,700	59,600	109,300	City outfall to Willamette River
DB 3	198,000	291,000	383,200	872,200	Outfall 003 to Willamette River
DB 4	107,300	24,800	156,600	212,500	Outfall 004 to Willamette River
DB 5	1,500	30,500	80,400	112,400	To Siltronic's OWW waste system then to City POTW
DB 6		501,400		501,400	To ground and Willamette River
DB 7		381,100		381,100	To ground and to City outfall to Willamette River

Drainage Basin	Area in square feet				Outfall
	Roof	Pervious	Impervious	Total	
DB 8		1,093,000		1,093,000	To ground and to City outfall to Willamette River
Total	**389,300**	**2,371,000**	**679,800**	**3,440,600**	

9 Significant Materials Stored on Site and Usage

This section provides an overview of the areas in which materials are handled and stored that have the potential to enter storm water runoff.

Note: The Administration building and associated areas contain only small quantities of office related chemicals (e.g., toner for copy machines, maintenance supplies, etc.) and are excluded from this section.

9.1 Tank Storage

Material	Location	Capacity	Containment	Usage
Sulfuric Acid 36% (w/w)	NOx Scrubber	5,000 gallons	Bermed covered area drains to WWTP	No longer be used
Sodium Hydroxide 25% (w/w)	NOx Scrubber	5,000 gallons	Bermed covered area drains to WWTP	pH control in NOx Scrubber
Sodium Sulfide 10% (w/w)	NOx Scrubber	5,000 gallons	Bermed covered area drains to WWTP	NOx Scrubber reaction chemical
Sodium Chlorite 31% (w/w)	NOx Scrubber	5,000 gallons	Bermed covered area drains to WWTP	NOx Scrubber reaction chemical

Material	Location	Capacity	Containment	Usage
Sodium Hydroxide	UPW	5,000 gallons	Bermed covered area Normally drained to Storm water drain. Diversion valve WWTP while loading.	Used to prepare ion exchange resin beds
Hydrochloric Acid	UPW	5,000 gallons	Bermed covered area Normally drained to Storm water drain. Diversion valve WWTP while loading.	Used to prepare ion exchange resin beds
Nitric Acid	Fab 1 Bulk storage	2,900 gallons	Bermed covered area drains to WWTP	Production chemical
Nitric Acid	Fab 1 Bulk storage	2,900 gallons	Bermed covered area drains to WWTP	Production chemical
Nitric Acid	Fab 2 Bulk storage	4,000 gallons	Bermed covered area drains to WWTP	Production chemical
Nitric Acid	Fab 2 Bulk storage	4,000 gallons	Bermed covered area drains to WWTP	Production chemical
Nitric Acid	Fab 2 Bulk storage	4,000 gallons	Bermed covered area drains to WWTP	Production chemical
Hydrofluoric Acid	Fab 1 Bulk storage	3,000 gallons	Bermed covered area drains to WWTP	Production chemical
Hydrofluoric Acid	Fab 1 Bulk storage	3,000 gallons	Bermed covered area drains to WWTP	Production chemical
Hydrofluoric Acid	Fab 2 Bulk storage	4,000 gallons	Bermed covered area drains to	Production chemical

Material	Location	Capacity	Containment	Usage
60% (w/w)			WWTP	
Hydrofluoric Acid	Fab 2 Bulk storage	4,000 gallons	Bermed covered area drains to WWTP	Production chemical
Diesel	CUB	500 gallons	Indoors	Emergency generator #1
Diesel	CUB	850 gallons	Indoors	Emergency generator #2
Diesel	CFB	850 gallons	Indoors	Emergency generator #3
Used Oil	West side of CUB	300 gallons	Double contained tank with overfill protection	Used oil from compressor
New Oil	West side of CUB	300 gallons	Double contained tank with overfill protection	New oil for compressor

9.2 Waste Water Treatment Plant 1 (Not Being Used in reserve)

Material	Location	Capacity	Containment	Usage
Sulfuric acid 98% (w/w)	WWTP 1	2,500 gallons	Bermed area connected to diversion tank	Not Being Used
OWW	WWTP 1 (T-39-10-1)	16,000 gallons	Bermed area connected to diversion tank	Not Being Used
OWW	WWTP 1 (T-39-10-2)	16,000 gallons	Bermed area connected to diversion tank	Not Being Used

Material	Location	Capacity	Containment	Usage
CAD	WWTP 1 (T-11-5)	39,100 gallons	Bermed area connected to diversion tank	Not Being Used
CAD	WWTP 1 (T-39-11-4)	39,100 gallons	Bermed area connected to diversion tank	Not Being Used
WAD	WWTP 1 (T-11-1)	16,000 gallons	Bermed area connected to diversion tank	Not Being Used
WAD	WWTP 1 (T-11-2)	16,000 gallons	Bermed area connected to diversion tank	Not Being Used
WAD	WWTP 1 (T-11-3)	16,000 gallons	Bermed area connected to diversion tank	Not Being Used
Overflows, diversions, etc..	WWTP 1	40,000 gallons	Diversion tank used as needed for overflows, diversions, etc.	Tank is normal empty

9.3 Waste Water Treatment Plant 2

Material	Location	Capacity	Containment	Usage
CAD	WWTP 2 (T-39-100)	39,100 gallons	Bermed area connected to diversion tank	Reaction tank 1 for spent acid
CAD	WWTP 2 (T-39-101)	39,100 gallons	Bermed area connected to diversion tank	Reaction tank 2 for spent acid
WAD	WWTP 2	37,600 gallons	Bermed area connected to diversion	WAD First Stage for weak

Material	Location	Capacity	Containment	Usage
	(T-39-200)		tank	waste acid
WAD	WWTP 2 (T-39-201)	37,600 gallons	Bermed area connected to diversion tank	WAD Second Stage for weak waste acid
WAD	WWTP 2 (T-39-202)	37,600 gallons	Bermed area connected to diversion tank	WAD Third Stage for weak waste acid
OWW	WWTP 2 (T-39-300)	30,000 gallons	Bermed area connected to diversion tank	OWW First Stage neutralization. for organic waste
OWW	WWTP 2 (T-39-301)	30,000 gallons	Bermed area connected to diversion tank	OWW Second Stage Neutralization. for organic waste
Lime Silo	WWTP 2	2,500 ft^3	Bermed area connected to diversion tank	Storage tank for dry slaked lime
Lime Day tank	WWTP 2	5,000 gallons	Bermed area connected to diversion tank	Used for fluoride precipitation and neutralization
Sulfuric acid 98% (w/w)	WWTP 2	8,000 gallons	Horizontal tank in sloped area connected to diversion tank	pH control in WWTP 2
Sodium Hydroxide 25% (w/w)	WWTP 2	8,000 gallons	Bermed area connected to diversion tank	pH control in WWTP 2

9.4 Forwarding Sumps

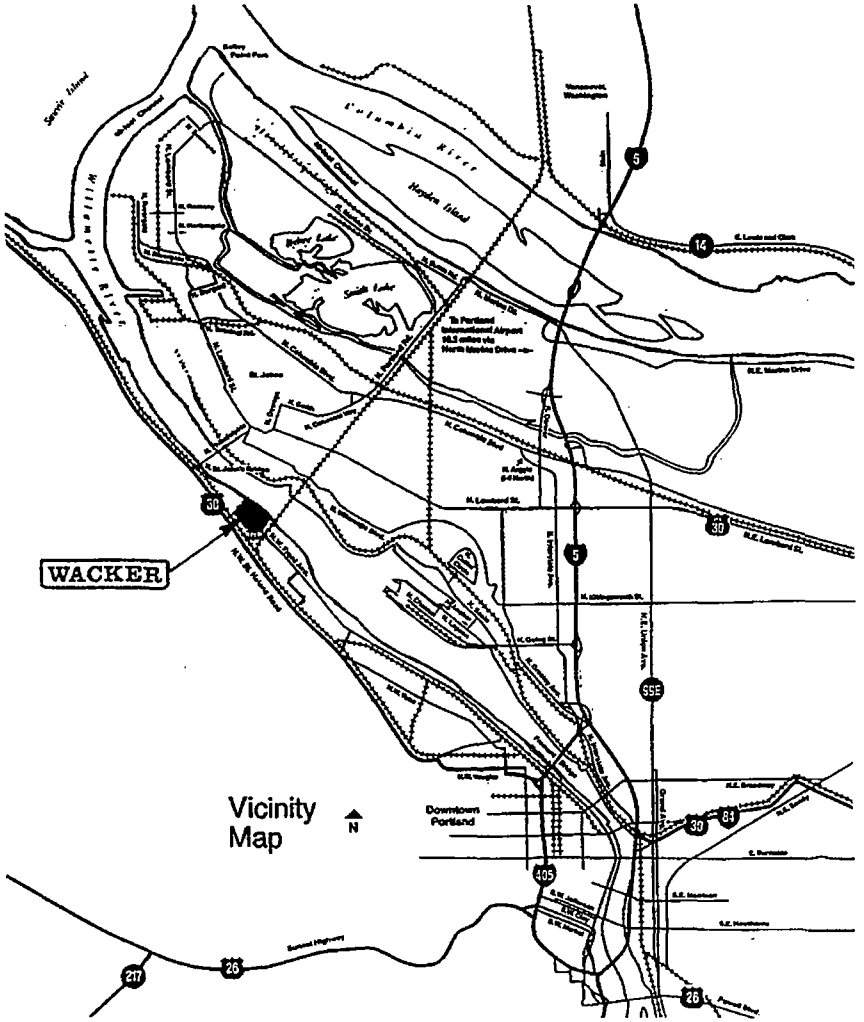
Chemical	Location	Capacity	Containment	Usage
CAD	Fab1 Forwarding Sump (T-39-5)	5300 gallons	Covered cement bunker. Overflow drain to City	Forwards CAD from Fab 1 to WWTP
OWW	Fab1 Forwarding Sump (T-39-8)	4100 gallons	Covered cement bunker. Overflow drain to City	Forwards OWW from Fab 1 to WWTP
WAD	Fab1 Forwarding Sump (T-T-39-7)	5300 gallons	Covered cement bunker. Overflow drain to City	Forwards WAD from Fab 1 to WWTP
CAD	Fab 2 Forwarding Sump: CAD Surge tank (T-139-20)	24,800 gallons	Covered cement bunker. Overflow drain to City	Forwards CAD from Fab 2 to WWTP
CAED	Fab 2 Forwarding Sump: CAED Surge tank (T-139-90)		Covered cement bunker. Overflow drain to City	Forwards CAED from Fab 2 to WWTP
OWW	Fab 2 Forwarding Sump: OWW Surge tank (T-139-40)		Covered cement bunker. Overflow drain to City	Forwards OWW from Fab 2 to WWTP
WAD	Fab 2 Forwarding Sump: WAD Surge tank (T-139-10)		Covered cement bunker. Overflow drain to City	Forwards WAD from Fab 2 to WWTP

9.5 Chemical Storage

Chemical	Location	Capacity	Containment	Usage
Waste Chrome Solution	Waste Chrome Storage Building	2 – 400 gallon totes	Self contained enclosed building designed to contain 2 full totes	Collection point for lab waste
Hazardous Waste	Fab1 Bulk Storage	n/a	Blind Sump to WWTP in covered area	Hazardous waste storage
Acid Storage	Fab1 Bulk Storage	n/a	Bermed area in covered area	Storage for 1 gal to 55 gal containers of acid
Caustic Storage	Fab1 Bulk Storage	n/a	Bermed area in covered area	Storage for 1gal to 55 gal containers of bases
Anhydrous Hydrogen Chloride Gas Storage	Fab1 Bulk Storage	2000 cylinders	Bermed area in covered area	Storage for 60 lbs. gas cylinders
Trichlorosilane Gas Storage	Fab1 Bulk Storage	9 cylinders	Bermed area in covered area	Storage for 550 lbs. gas cylinders

This section lists the general information for the Wacker facility and describes industrial activity.

9.5.1 Site Location



10 General Storm Drainage

This following sections contain a summary of all the catch basins located at Siltronic, and facilities drawings illustrating the current location of each of the following:

- Catch Basin
- Drainage lines
- Discharge points
- Sample locations

10.1 Storm Water Description

The table below lists the paved/roof runoff and pervious surface area.

Total paved, impervious runoff surface area	1,191,000 sq. ft.
Total roof runoff surface area	405,000 sq. ft.
Pervious surface area	2,062,000 sq. ft.

Siltronic Corporation has storm drains located on the facility premises. (See section *18 Storm Drain System Plan*). The storm drains, and the majority of the storm water from facility roofs runoff discharge at the following separate points:

- directly into the Willamette River, and
- into a storm line managed by the City of Portland.

The storm water runoff associated with the Administration building roof flows to the City of Portland through an independent line.

10.2 Industrial Storm Water Discharge

The storm drains associated with industrial activity consist of all of the drains except those at the Administrative building (listed in Other Storm Water Discharge). The runoff water collected in these drains has the potential to be contaminated due to their proximity to the storage and transfer of materials, or they combine with the discharge of drains that have the potential to be contaminated. One storm drain on the south side of the original process building (Fab 1) is used to drain emergency non-contact cooling water for equipment inside the facility. No other storm drains are used for any activities other than storm water runoff control.

The main storm water line combines with the effluent of the waste water treatment plant (WWTP) at the west side of the facility, and then the combined effluent discharges from outfall number 003 to the Willamette river. Storm water runoff will be sampled at the first storm water access point just prior to connection to the combined effluent.

There are nine storm drains on the west side of the facility that enter the combined effluent directly and cannot be sampled independently from the WWTP effluent. These drains are primarily designed for storm water runoff from the west access road. No hazardous materials are transported through the west gate.

There are two storm drains at the area adjacent to the WWTP. The runoff entering these drains is combined with other process effluent, then treated at the WWTP before being discharge to the combined effluent.

10.3 Other Storm Water Discharge

The table below lists the paved/roof runoff surface area, and total basins for the administrative building and associated paved surfaces.

Paved runoff surface area	30,000 sq. ft.
Roof runoff surface area	26,000 sq. ft.
Number storm water catch basins	3

No industrial activities take place at the administrative building and it does not contain any significant materials. The main storm line for this area is discharged into a storm line managed by the City of Portland. There will be no sampling of this storm line, since there is no industrial activity associated with the runoff.

10.4 Source Controls

All materials are stored in a controlled environment to prevent leaks and spills from contaminating storm water. Source controls consist of some or all of the following:

- complete enclosure such as a hazardous material shed or a building, and covering or roofing
- secondary containment in the form of curbing or vaults
- a PM to annually inspect and clean oil-water separator
- semi-annual PM's to clean all catch basins
- outside source controls consist of catch basins vaults and
- specially designed down spouts, which have sediment control.

11 Treatment and Disposal

The majority of waste produced at Siltronic, are wastewater's that are disposed of by discharging into the liquid drain system. The drain system consists of over 130 drains of various types and systems. The correct operation of the drain system is critical to the operation of the WWTP and to meet the permitted discharge limits of the waste streams. The complete Drain Table which includes the type of systems, drains, permitted chemicals, treatment method and discharge point associated with each drain is located in the Environmental Guidance Procedure.

11.1 Hazardous Material Handling/ Disposal Summary

There is no on site disposal of hazardous waste. All hazardous waste is controlled to meet the requirements of the State and Federal hazardous waste regulations. For a complete listing of wastes and disposal methods see the *Environmental Guidance Procedure* "Waste Table" and recycling programs.

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12 Storm Water Best Management Practices

12.1 Containment

Hazardous materials are stored undercover, within berms or other secondary containment devices to prevent leaks and spills from contaminating storm water.

12.2 Oil and Grease Controls

An oil-water separator is located in the oil dispensing area outside Facilities Maintenance. The oil-water separator is set-up on an annual PM for inspection and cleaning. Oil-water separators are also located at each outside electrical transformer.

An insert has been installed in the truck docking area that has an accumulation pocket and filter strips that collect oil, sediment, and other contaminants. The insert is changed every bi-annual cleaning or in the case of a spill occurs.

12.3 Waste Chemicals and Material Disposal

Wastes are recycled or disposed of in a manner to eliminate or minimize exposure of pollutants to storm water.

Wastes contained in bins or dumpsters, where there is a potential for drainage of storm water through the waste, are covered to prevent exposure of storm water to these pollutants.

12.4 Erosion and Sediment Control

Erosion control methods are employed to minimize erosion of soil at the site. This includes the 1998 project to improve the Willamette River bank. Flooding in 1996 damaged the riverbank at Siltronic Corporation. The repair work included placement of large boulders and riprap along 2,500 linear feet of river frontage as well as geo-textile cloth under the boulders to prevent soil erosion. Additionally, trees were planted on 40-foot centers and the walking path along the river was restored.

The restoration project was undertaken to stabilize the riverbank and prevent further bank erosion during periods of high water. Preventing further bank erosion reduces the amount of sediment entering the river. This, along with

additional shade resulting from the tree planting, will benefit the river system by reducing sediment pollution and cooling.

12.4.1 Sedimentation Manhole

In 1998 the North section of Fab 1 was expanded. This build-out consists primarily of office space and incorporates an electrical room and maintenance area. The gross amount of 17,350 square feet of area is piped to a sedimentation manhole and then to the storm system located on the north side of the property. The sedimentation manhole is intended to treat the storm water runoff by providing a chamber for the water to settle and drop suspended solids prior to entering the storm system.

The sedimentation manhole is set-up on an annual PM for inspection and cleaning.

12.5 Covering Activities

All manufacturing activities are conducted indoors. Treatment and storage areas are undercover.

12.6 Housekeeping

Areas that may contribute pollutants to storm water are kept clean. Prompt clean up of spills and leaks as well as proper maintenance of vehicles is conducted to eliminate or minimize exposure of storm water to pollutants.

In addition, the parking lot is swept semi-annually and fenced areas swept semi-annually.

An emergency spill kit and a drain cover are located in the receiving areas.

12.7 Isolation Valves

Catch basins near chemical delivery areas are installed with isolation valves, which are closed while tanks are being filled. Additional isolation valves are located on catch basins to reduce the possibility of a spill reaching an outfall point. (See section *18 Storm Drain System Plan*).

13 Stormwater Preventive Maintenance

This section gives an overview of the programs in place for management and maintenance of the Siltronic facility. Maintenance programs are centered on a number of inspection and preventive maintenance programs to assure the integrity of all plant equipment and facilities. The inspection programs often overlap which provide for several groups inspecting plant operations at different times of the day for added protection against undiscovered problems.

13.1 SWPCP Specific Maintenance and Management Practices

Best management practices and maintenance programs with relationship to storm water pollution control are integrated into the everyday working operations of the facility.

This part of the plan will be reserved to add any improvements in maintenance practices identified through inspections, reviews, employee suggestions, or other means which are required to assure proper storm water pollution control.

13.2 Clean Operations

Because of the nature of our business, Siltronic maintains an aggressive Clean Operations policy requiring each departmental area to maintain their areas free of dirt and clutter. A Clean Operations committee is in place to set standards and assure these standards are complied with.

13.3 Security Monitoring

Plant security personnel inspect the plant site daily for general operational problems.

13.4 Maintenance and Facility Operation Monitoring

The Facilities Operations department conducts inspections of all facility equipment. This is done in an effort to detect any equipment or operational problems before it results in an equipment shutdown or emergency situation.

Maintenance departments also have a preventive maintenance program for equipment. This routine maintenance is done in an effort to keep equipment in peak operating condition to avoid shutdowns and emergency situations.

SCOEPA00025736

The Facilities Operations group conducts operational inspections of facilities equipment including the WWTP, NOx (air) scrubbers, hazardous waste storage, treatment, and recycling equipment. These systems are inspected four times per day.

13.5 Storm Water Inspections

A number of different inspections are performed at Siltronic to ensure both the proper maintenance of all equipment and facilities, and the safety of personnel.

In addition to these inspections, an annual inspection of the integrity of all material storage areas identified in section 9, Significant Materials Stored Onsite and Usage, is performed by the Facilities Department.

Also, the Facilities Chemist conducts a monthly visual inspection (for Floating Solids and Oil and Grease Sheen) during periods of rain. A monthly visual inspection of the catch basins is conducted by the Facilities Operations group. Both of these inspections are included in SCO's PM (Preventive Maintenance) system.

Changes in operational procedures, improvements in preventive maintenance programs or facility modifications will correct any deficiencies found during these inspections.

13.6 Maintenance of SWPCP

This plan will be reviewed annually, and updated as necessary by the environmental engineer. The SWPCP and updates to the SWPCP will be submitted to DEQ in accordance with permit schedule B.3 with in 14 days of completion.

14 Employee Education Program

The purpose of this program is to inform personnel of the SWPCP, the spill response procedures, materials management practices, and good housekeeping measures that will prevent pollution of storm water runoff. The program is implemented through a number of training courses. All employees and contractors receive general awareness storm water training while other employees, including all ERT members, receive more advanced Storm water training. See the *Environmental Guidance Procedure* for detailed information.

In addition all storm water catch basins are stenciled "Do not dump. Discharges to river" to educate and remind employees of the importance of storm water protection.

15 Record Keeping and Internal Reporting Procedures

For a complete description of environmental records and retention times see the *SCO Records* procedure.

16 Spill Prevention and Response

Listed within this section are attributes of the programs, which apply directly to the storm water pollution control. Wacker Siltronic maintains an active Emergency Preparedness and Prevention Program. The purpose of the program is to ensure to the best of our abilities that the plant is maintained and operated in such a manner that minimizes the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous materials or hazardous waste constituents into the air, soil, or surface water which could threaten human health or the environment.

The program was developed to meet the Spill Prevention Control and Countermeasures requirements of 40 CFR 112 and incorporates procedures and programs that insure storm water pollution control. *See the Spill Prevention, Control and Countermeasures (SPCC) Plan Procedure*

For complete emergency response procedures and listing of emergency response equipment see the *Emergency Preparedness, Prevention and Contingency Plan* procedure.

16.1 Criteria for Spills

Generally a spill is defined as any type of unauthorized release or disposal of a hazardous chemical or waste. Emergency procedures are activated when a spill, or threatened spill, or release cannot be contained on Siltronic property, resulting in off-site soil/air contamination, and/or water pollution. Such a release has the potential to flow into the following:

- an improper process drain
- the soil, or porous material not designed to contain the material, and
- a street drain, or trench leading to the Willamette River or City of Portland sewer.

16.2 Emergency Containment

During a spill, all reasonable measures necessary to ensure that releases do not occur, recur, or spread to other potentially hazardous areas in the facility are to be taken.

These measures may include the following:

- stopping processes and/or operations
- collecting and containing released chemicals, and
- removing or isolating containers.

16.3 General Spill Clean Up Considerations

a) The most important concern in responding to a large spill should be the safety of the employees, and response personnel. An Emergency Response Team is provided with a minimum of forty hours of training per year to safely and effectively respond to spills, and emergencies that could occur on the plant site.

b) Once personnel have donned the appropriate personal protective equipment, stopping the source of a leaking liquid should be the response team's first objective. This can be done by turning off pumps that pressurize a line, closing isolation valves, plugging holes, turning drums hole-up to stop leaks, etc. In an emergency, any safe method (within the limits of the law) of getting the job done is legitimate. There is no absolute right or wrong way to do it. Annual training, monthly meetings, drills, and events provide practical and safe methods useful in emergency response situations.

c) Containment of a spill is the next most important objective. If a spill is not contained, (i.e., running down an improper drain, or threatens to run down an improper drain) it must be stopped. Barricade the spill, and drain with bags of absorbent, absorbent pigs, or neutralizer. Quantities of these materials can be found in the spill materials shed, which is next to the chrome treatment building in the south yard. The main storm water drain on the south yard road (next to the chrome shed) is equipped with a manual butterfly valve, make sure it is closed if the spill is on or near the roadway. This valve is normally open except when a truck is being loaded or unloaded in the immediate vicinity. An emergency spill kit and a drain cover are also located in the receiving/docking areas.

d) Never use hoses to wash down any material into the sewer/city water system.

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e) Once the source of the spill has been controlled and after the spill itself has been contained, appropriate clean up operations can be initiated.

16.4 Incident Reporting

Incidents involving a release of material to the environment air, soil, or water are reported by the Environmental department to the appropriate regulatory agencies or response organization.

16.4.1 24-Hour Reporting

Any noncompliance, which may endanger health or the environment, will be communicated to DEQ by telephone within twenty-four hours of recognition. A written report will be forwarded to DEQ within five working days. The report will include:

- a description of the noncompliance and its cause
- the period of noncompliance, including exact dates and times
- the estimated time noncompliance is expected to continue if it has not been corrected, and
- steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

Note: DEQ may waive the written report on a case-by-case basis if the oral report has been received within twenty-four hours.

The following shall be included as information, which must be reported within twenty-four hours:

- any unanticipated bypass which exceeds any effluent limitation in the permit, and
- any upset which exceeds any effluent limitation in the permit.

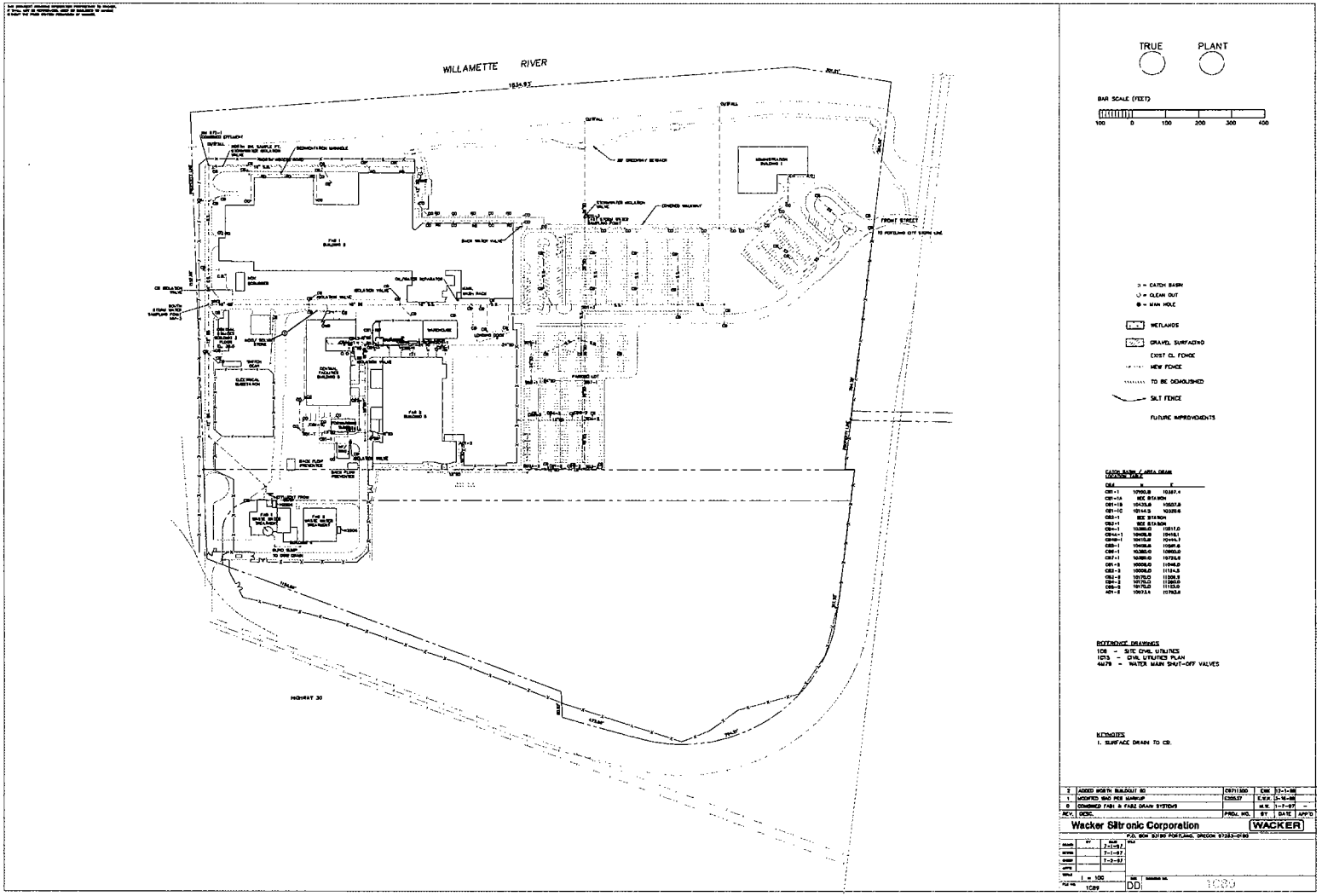
16.5 Record-keeping

Records of spills which include the type and quantity of materials released, response and corrective actions taken and agencies notified are completed and kept by the Environmental department. For additional information see the *SCO Records* policy.

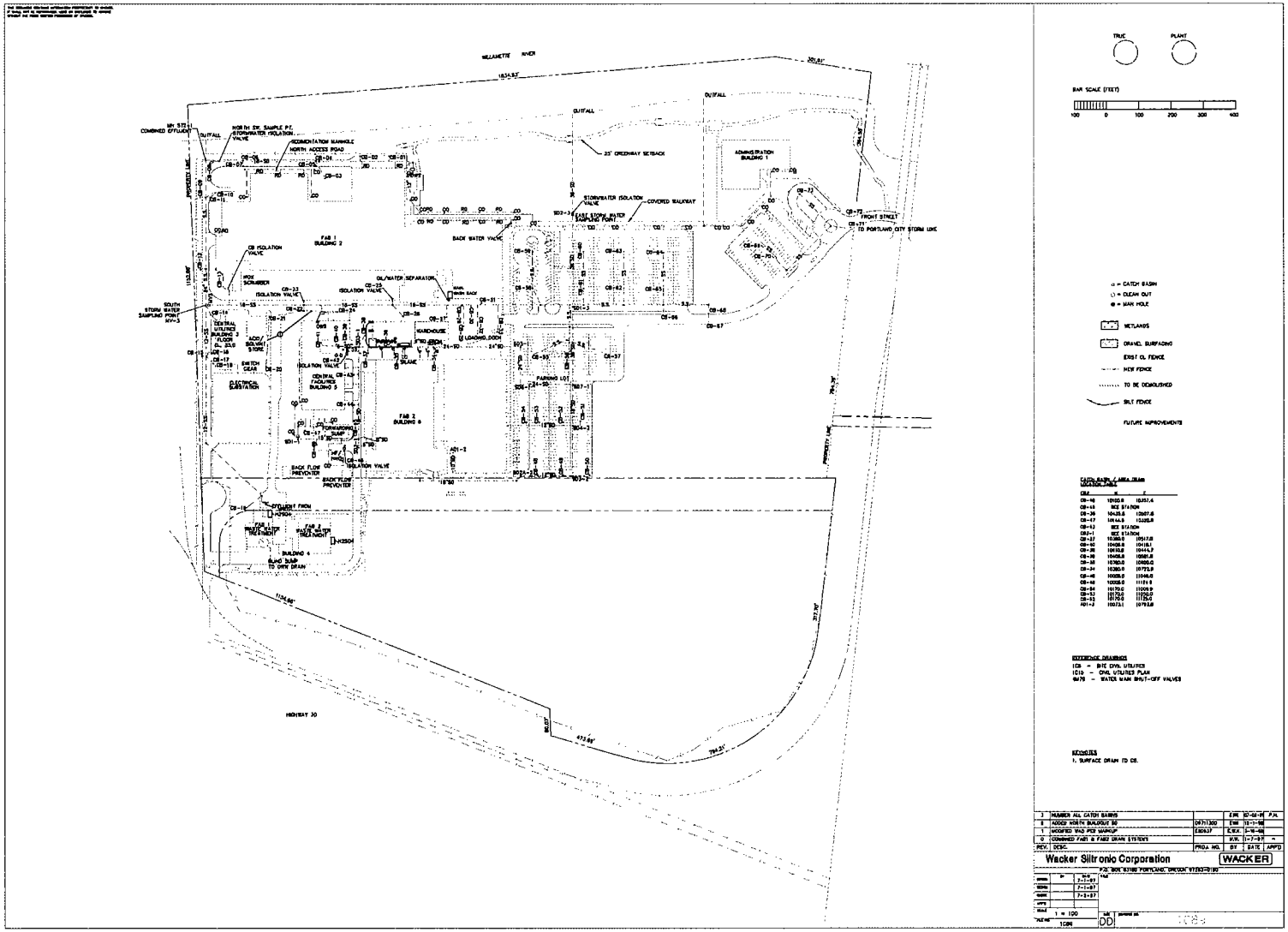
17 Monitoring and Reporting Requirements

Monitoring and reporting is conducted per Schedule B of General Permit #1200Z. The facilities chemist maintains specific sampling procedures. The identification of discharge outfalls and sample points (where storm water monitoring occurs) are included in section *10.2 Industrial Storm Water Discharge and section 18 Storm Drain System Plan.* For a complete description of environmental records and retention times see the *SCO Records* Policy.

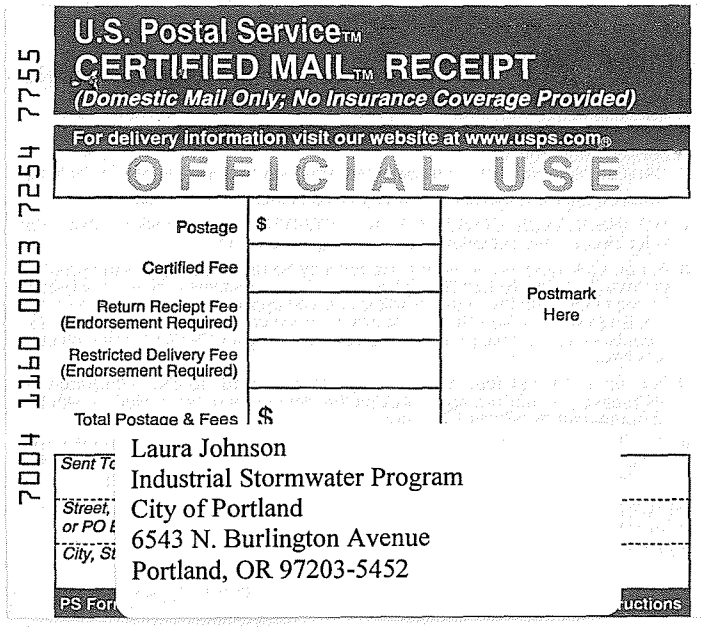
18 Storm Drain System Plan



19 Hazardous Material Storage



SCOEPA00025743



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Laura Johnson
Industrial Stormwater Program
City of Portland
6543 N. Burlington Avenue
Portland, OR 97203-5452

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Laura Johnson
Industrial Stormwater Program
City of Portland
6543 N. Burlington Avenue
Portland, OR 97203-5452

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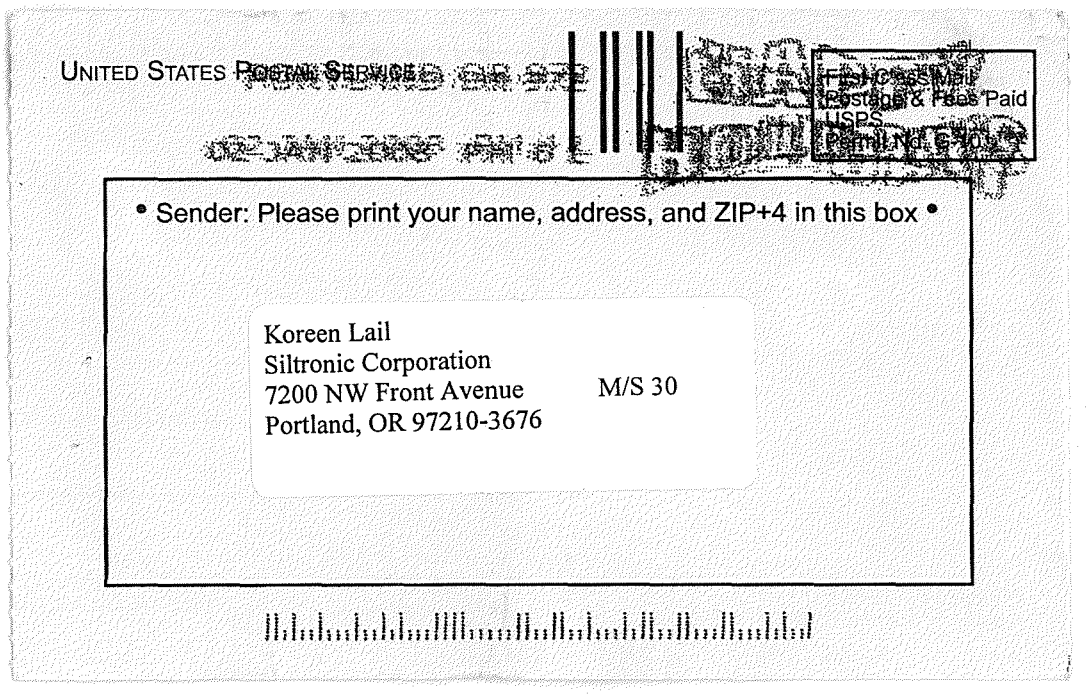
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Koreen Lail
Siltronic Corporation
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M/S 30
Portland, OR 97210-3676

siltronic
perfect silicon solutions

Koreen Lail
Environmental Affairs

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Fax 503-219-7599
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Laura Johnson
City of Portland
Industrial Stormwater Program
6543 N Burlington Avenue
Portland, Oregon 97203-5452

December 28, 2007

Industrial Storm Water NPDES 1200-Z October through December Analytical Reports

Dear Ms. Johnson,

Attached are Siltronic Corporation's Industrial Storm Water NPDES 1200-Z analyticals for October 16th, November 12th, November 15th, and December 3, 2007 as required by Siltronic's NPDES Storm Water Discharge Permit number 1200-Z issued July 1, 2007.

During the November 12th sampling event, the oil and grease bottle for the north sample point was out of stock. We postponed the oil and grease sampling of the north sample point until another bottle could be procured. On November 16th, the oil and grease sample for the north sample point was taken. The results were below detection limit.

As per our notification letter dated December 7, 2007, the November 12, 2007, sampling of the east stormwater sample point indicated an exceedance of the benchmark for oil and grease. We re-sampled the east sample point on December 3, 2007 and the results were below detection limit. We are working on further addressing the exceedance in our SWPCP.

The following materials are enclosed in this report:

1. A summary of the results for 2006-2007 including sample results, bench marks, detection limits and analytical methods used.
2. Siltronic Corporation laboratory bench sheets for TSS and pH.
3. Copies of outside laboratory reports including the chain of custody forms for copper, lead, zinc, and total oil & grease.

If you have any questions or comments, please contact me.

Best regards,

Koreen Lail
Siltronic Corporation
Environmental Affairs

siltronic
perfect silicon solutions

Summary of Results for Oct-Dec 2007

PARAMETER	Sample date	North results	East results	South results	BENCH MARK	Units	Detection limit	Method & Comments
Copper	10/16/07	0.0203	0.0149	<0.01	0.1	mg/L	0.03	EPA 200.8
	11/12/07	0.007	0.017	0.007				
Lead	10/16/07	<0.02	<0.02	<0.02	0.4	mg/L	0.005	EPA 200.8
	11/12/07	<0.001	0.002	0.001				
Zinc	10/16/07	0.25	0.21	0.0283	0.6	mg/L	0.05	EPA 200.8
	11/12/07	0.184	0.269	0.033				
pH	10/16/07	5.9	6.2	5.9	5.5-9	pH units	0.1	Standards Methods 1998, 20th ed, Section 4500-H^+
	11/12/07	6.21	6.37	6.08				
TSS	10/16/07	34.5	7.75	6.25	130	mg/L	0.1	Standards Methods 1998, 20th ed, Section 2540 D
	11/12/07	2.25	5.75	4.0				
Oil and Grease	10/16/07	<5.00	<5.00	<5.00	10	mg/L	3	EPA 1664A (Oil and grease sample bottle unavailable for north sample point sampling on Nov 12. Oil and grease sampling for north sample area delayed until Nov 16.)
	11/12/07	n/a	23.2	5.8				
	11/16/07	<5.00	n/a	n/a				
Oil and Grease resample	12/3/07	n/a	<5.00	n/a	10	mg/L	3	EPA 1664A (retest for oil and grease)

Specialty Analytical

Recd 11-8-07

19761 S.W. 95th Avenue
Tualatin, OR 97062
(503) 612-9007
Fax (503) 612-8572
1 (877) 612-9007

October 22, 2007

Thomas Rothschild
Siltronic Corporation
7200 NW Front Ave
M/S 30
Portland, OR 97210

TEL: (503) 219-7313
FAX (503) 219-7599

RE: Stormwater-1-07

Dear Thomas Rothschild:

Order No.: 0710121

Specialty Analytical received 3 samples on 10/18/2007 for the analyses presented in the following report.

There were no problems with the analysis and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative, or as qualified with flags. Results apply only to the samples analyzed. Without approval of the laboratory, the reproduction of this report is only permitted in its entirety.

If you have any questions regarding these tests, please feel free to call.

Sincerely,

Ned Engleson
Project Manager

Technical Review

SCOEPA00025749

Specialty Analytical

Date: *22-Oct-07*

CLIENT: Siltronic Corporation
Project: Stormwater-1-07
Lab Order: 0710121

Lab ID: 0710121-01
Collection Date: 10/16/2007 11:25:00 AM
Client Sample ID: 07-122-SW-N
Matrix: STORM WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS		**E200.7**				Analyst: **zau**
Copper	0.0203	0.0100		mg/L	1	10/19/2007 2:59:00 PM
Lead	ND	0.0200		mg/L	1	10/19/2007 2:59:00 PM
Zinc	0.250	0.0100		mg/L	1	10/19/2007 2:59:00 PM
POLAR/NON-POLAR OIL AND GREASE		**E1664**				Analyst: **ged**
HEM (Total Hexane Extractable Material)	ND	5.00		mg/L	1	10/18/2007

Lab ID: 0710121-02
Collection Date: 10/16/2007 10:35:00 AM
Client Sample ID: 07-123-SW-E
Matrix: STORM WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS		**E200.7**				Analyst: **zau**
Copper	0.0149	0.0100		mg/L	1	10/19/2007 3:19:09 PM
Lead	ND	0.0200		mg/L	1	10/19/2007 3:19:09 PM
Zinc	0.210	0.0100		mg/L	1	10/19/2007 3:19:09 PM
POLAR/NON-POLAR OIL AND GREASE		**E1664**				Analyst: **ged**
HEM (Total Hexane Extractable Material)	ND	5.00		mg/L	1	10/18/2007

Lab ID: 0710121-03
Collection Date: 10/16/2007 11:10:00 AM
Client Sample ID: 07-124-SW-S
Matrix: STORM WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS		**E200.7**				Analyst: **zau**
Copper	ND	0.0100		mg/L	1	10/19/2007 3:24:10 PM
Lead	ND	0.0200		mg/L	1	10/19/2007 3:24:10 PM
Zinc	0.0283	0.0100		mg/L	1	10/19/2007 3:24:10 PM
POLAR/NON-POLAR OIL AND GREASE		**E1664**				Analyst: **ged**
HEM (Total Hexane Extractable Material)	ND	5.00		mg/L	1	10/18/2007

SCOEPA00025750

Specialty Analytical

Date: *22-Oct-07*

CLIENT: Siltronic Corporation
Work Order: 0710121
Project: Stormwater-1-07

ANALYTICAL QC SUMMARY REPORT

TestCode: 1664_SPE

Sample ID	MB-R48829	SampType:	MBLK	TestCode:	1664_SPE	Units:	mg/L	Prep Date:		Run ID:	WETCHEM_071018C
Client ID:	ZZZZZ	Batch ID:	R48829	TestNo:	E1664			Analysis Date:	10/18/2007	SeqNo:	498512

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
HEM (Total Hexane Extractable Materi	0.8	5.00									J
SGT (Non-Polar Extractable Material)	ND	5.00									

Sample ID	LCS-R48829	SampType:	LCS	TestCode:	1664_SPE	Units:	mg/L	Prep Date:		Run ID:	WETCHEM_071018C
Client ID:	ZZZZZ	Batch ID:	R48829	TestNo:	E1664			Analysis Date:	10/18/2007	SeqNo:	498510

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
HEM (Total Hexane Extractable Materi	37.1	5.00	40	0.8	90.8	78	114	0	0		
SGT (Non-Polar Extractable Material)	25.7	5.00	20	0	128	64	132	0	0		

Sample ID	LCSD	SampType:	LCSD	TestCode:	1664_SPE	Units:	mg/L	Prep Date:		Run ID:	WETCHEM_071018C
Client ID:	ZZZZZ	Batch ID:	R48829	TestNo:	E1664			Analysis Date:	10/18/2007	SeqNo:	498511

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
HEM (Total Hexane Extractable Materi	37	5.00	40	0.8	90.5	78	114	37.1	0.270	20	
SGT (Non-Polar Extractable Material)	24.2	5.00	20	0	121	64	132	25.7	6.01	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blan

SCOEPA00025751

CLIENT: Siltronic Corporation
Work Order: 0710121
Project: Stormwater-1-07

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7

Sample ID	MBLK-19746	SampType:	MBLK	TestCode:	200.7	Units:	mg/L	Prep Date:	10/19/2007	Run ID:	TJAIRIS_071019A
Client ID:	ZZZZZ	Batch ID:	19746	TestNo:	E200.7			Analysis Date:	10/19/2007	SeqNo:	498547

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	ND	0.0100									
Lead	ND	0.0200									
Zinc	ND	0.0100									

Sample ID	LCS-19746	SampType:	LCS	TestCode:	200.7	Units:	mg/L	Prep Date:	10/19/2007	Run ID:	TJAIRIS_071019A
Client ID:	ZZZZZ	Batch ID:	19746	TestNo:	E200.7			Analysis Date:	10/19/2007	SeqNo:	498548

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	0.4768	0.0100	0.5	0	95.4	89.7	117	0	0		
Lead	0.9874	0.0200	1	0	98.7	93.1	112	0	0		
Zinc	0.4941	0.0100	0.5	0	98.8	92.3	111	0	0		

Sample ID	0710121-03BMS	SampType:	MS	TestCode:	200.7	Units:	mg/L	Prep Date:	10/19/2007	Run ID:	TJAIRIS_071019A
Client ID:	07-124-SW-S	Batch ID:	19746	TestNo:	E200.7			Analysis Date:	10/19/2007	SeqNo:	498555

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	0.4887	0.0100	0.5	0.0095	95.8	92.7	114	0	0		
Lead	0.9989	0.0200	1	0	99.9	91.9	112	0	0		
Zinc	0.5214	0.0100	0.5	0.0283	98.6	93	110	0	0		

Sample ID	0710121-03BMSD	SampType:	MSD	TestCode:	200.7	Units:	mg/L	Prep Date:	10/19/2007	Run ID:	TJAIRIS_071019A
Client ID:	07-124-SW-S	Batch ID:	19746	TestNo:	E200.7			Analysis Date:	10/19/2007	SeqNo:	498556

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	0.4974	0.0100	0.5	0.0095	97.6	92.7	114	0.4887	1.76	20	
Lead	0.9891	0.0200	1	0	98.9	91.9	112	0.9989	0.986	20	
Zinc	0.5233	0.0100	0.5	0.0283	99	93	110	0.5214	0.364	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blan

SCOEPA00025752

CLIENT: Siltronic Corporation
Work Order: 0710121
Project: Stormwater-1-07

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7

Sample ID	0710121-03BDUP	SampType:	DUP	TestCode:	200.7	Units:	mg/L	Prep Date:	10/19/2007	Run ID:	TJAIRIS_071019A
Client ID:	07-124-SW-S	Batch ID:	19746	TestNo:	E200.7			Analysis Date:	10/19/2007	SeqNo:	498554

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	0.0094	0.0100	0	0	0	0	0	0.0095	0	20	J
Lead	ND	0.0200	0	0	0	0	0	0	0	20	
Zinc	0.027	0.0100	0	0	0	0	0	0.0283	4.70	20	

Sample ID	CCV	SampType:	CCV	TestCode:	200.7	Units:	mg/L	Prep Date:		Run ID:	TJAIRIS_071019A
Client ID:	ZZZZZ	Batch ID:	19746	TestNo:	E200.7			Analysis Date:	10/19/2007	SeqNo:	498550

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	0.4787	0.0100	0.5	0	95.7	90	110	0	0		
Lead	0.9914	0.0200	1	0	99.1	90	110	0	0		
Zinc	0.4964	0.0100	0.5	0	99.3	90	110	0	0		

Sample ID	CCV	SampType:	CCV	TestCode:	200.7	Units:	mg/L	Prep Date:		Run ID:	TJAIRIS_071019A
Client ID:	ZZZZZ	Batch ID:	19746	TestNo:	E200.7			Analysis Date:	10/19/2007	SeqNo:	498559

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	0.4811	0.0100	0.5	0	96.2	90	110	0	0		
Lead	1.003	0.0200	1	0	100	90	110	0	0		
Zinc	0.4925	0.0100	0.5	0	98.5	90	110	0	0		

Sample ID	ICV	SampType:	ICV	TestCode:	200.7	Units:	mg/L	Prep Date:		Run ID:	TJAIRIS_071019A
Client ID:	ZZZZZ	Batch ID:	19746	TestNo:	E200.7			Analysis Date:	10/19/2007	SeqNo:	498546

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	0.497	0.0100	0.5	0	99.4	95	105	0	0		
Lead	1.013	0.0200	1	0	101	95	105	0	0		
Zinc	0.5091	0.0100	0.5	0	102	95	105	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blan

SCOEPA00025753

KEY TO FLAGS

A	This sample contains a Gasoline Range Organic not identified as a specific hydrocarbon product. The result was quantified against gasoline calibration standards.
A1	This sample contains a Diesel Range Organic not identified as a specific hydrocarbon product. The result was quantified against diesel calibration standards.
A2	This sample contains a Lube Oil Range Organic not identified as a specific hydrocarbon product. The result was quantified against a lube oil calibration standard.
A3	The result was determined to be Non-Detect based on hydrocarbon pattern recognition. The product was carry-over from another hydrocarbon type.
B	The blank exhibited a positive result greater than the reporting limit for this compound.
CN	See Case Narrative.
D	Result is based from a dilution.
E	Result exceeds the calibration range for this compound. The result should be considered as estimate.
F	The positive result for this hydrocarbon is due to single component contamination. The product does not match any hydrocarbon in the fuels library.
H	Sample was analyzed outside recommended hold time.
HT	At clients request, sample was analyzed outside recommended hold time.
J	The result for this analyte is between the MDL and the PQL and should be considered as estimated concentration.
K	Diesel result is biased high due to amount of Oil contained in the sample.
L	Diesel result is biased high due to amount of Gasoline contained in the sample.
M	Oil result is biased high due to amount of Diesel contained in the sample.
N	Gasoline result is biased high due to amount of Diesel contained in the sample.
MC	Sample concentration is greater than 4x the spiked value, the spiked value is considered insignificant.
MI	Result is outside control limits due to matrix interference.
MSA	Value determined by Method of Standard Addition.
O	Laboratory Control Standard (LCS) exceeded laboratory control limits, but meets CCV criteria. Data meets EPA requirements.
P	Detection levels of Methylene Chloride may be laboratory contamination, due to previous analysis or background levels.
Q	Detection levels elevated due to sample matrix.
R	RPD control limits were exceeded.
RF	Duplicate failed due to result being at or near the method-reporting limit.
RP	Matrix spike values exceed established QC limits, post digestion spike is in control.
S	Recovery is outside control limits.
SC	Closing CCV or LCS exceeded high recovery control limits, but associated samples are non-detect. Data meets EPA requirements.
*	The result for this parameter was greater that the maximum contaminant level of the TCLP regulatory limit.

Rev Dec 15, 2004

CHAIN OF CUSTODY RECORD

Page ___ of ___

Specialty Analytical
19761 S.W. 95th. Avenue
Tualatin, OR 97062
(503) 612-9007 - Phone
(503) 612-8572 - Fax

Contact Person/Project Manager: Tom Rothschild
Company: Sultronic
Address: 7200 NW Front Ave
Portland, OR 97210
Phone: 503-219-7374 Fax: 503-219-4144
Project No. _____ Project Name: Stormwater-1-07
Invoice To _____ P.O. No.: 4500521869

Collected By:
Signature: Thomas J. Rothschild
Printed: Thomas J. Rothschild
Signature: Richard H Bell
Printed: Richard H Bell

Turn Around Time
☒ Normal
☐ Rush _____
Specify
Rush Analyses Must Be Scheduled With The Lab In Advance

For Laboratory Use
Lab Job No.: 0710121
Shipped Via: Specialty
Air Bill No.: —
Temperature On Receipt: 4 °C
Specialty Analytical Containers? Y / N
Specialty Analytical Trip Blanks? Y / N

Date	Time	Sample I.D.	Matrix	No. of Containers	Analyses: Total Copper	Total Lead	Total Zinc	Oil & Grease	Comments	Lab I.D.
10/16/07	1125	07-122-SW-N	WW	2	X	X	X	X		
10/16/07	1035	07-123-SW-E	WW	2	X	X	X	X		
10/16/07	1110	07-124-SW-S	WW	2	X	X	X	X		

Relinquished By	Date	Time	Received By	Relinquished By	Date	Time
Company: Sultronic	10/18/07	1210 1015 (R)	Company: Specialty	Company: →		

Unless Reclaimed, Samples Will Be Disposed of 60 Days After Receipt.
Copies: White-Original Yellow-Project File Pink-Customer Copy

Received For Lab By: Nikki Sutton — Date: 10/18/07 — Time: 1308

SCOEPA00025755

Siltronic Corporation Storm Water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

DATE:	10/16/07		INITIAL:	Di	
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Floating Solids	No visible discharge	Yes or No	No	No	No
Oil and Grease Sheen*	No visible sheen	Yes or No	No	No	No

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

STORM WATER SAMPLING – Semiannual:

DATE:	10/16/07	INITIAL:	Di		
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Total Copper	0.1	mg/L	0.0203	0.0149	<0.01
Total Lead	0.4	mg/L	<0.02	<0.02	<0.02
Total Zinc	0.6	mg/L	0.25	0.21	0.0283
PH	5.5-9	Su	5.9	6.2	5.9
TSS	130	mg/L	34.5	7.75	6.25
Oil and Grease	10	mg/L	<5.00	<5.00	<5.00

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Koreen Lail in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Koreen Lail.

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SILTRONIC CORPORATION
STORM WATER RUN-OFF SAMPLE

Location: North ① Sample ID#: 07-122

Date: 10.16.07 Time: 1125 Sampled by: Tom Rothschild
Rick Bell

OBSERVATIONS UPON SAMPLING:

Oil Sheen: yes:____ No: X Floating Solids: yes:____ No: X

IN HOUSE ANALYTICAL DATA:

COD, mg/L: N/A F-, mg/L: 0.25 pH: 5.9

TSS, mg/L: 34.5 Nitrate, mg/L: 1.32

OUTSIDE LAB ANALYTICAL DATA:

Oil & Grease (EPA 1664), mg/L:_____

Metals(EPA 200.8), mg/L:

Copper: _____ Lead: _____ Zinc: _____

Notes:
① Drainage well east of outfall sheet.

Rain Water pH =

DEM 10 Oct 96
DEI 02 Feb 2005 Revised

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SILTRONIC CORPORATION
STORM WATER RUN-OFF SAMPLE

Location: East ① Sample ID#: ~~123~~ 07-123

Date: 10.16.07 Time: 1035 Sampled by: Tom Rothschelol
Rick Bell

OBSERVATIONS UPON SAMPLING:

Oil Sheen: yes:____ No: X Floating Solids: yes:____ No: X

IN HOUSE ANALYTICAL DATA:

COD, mg/L: N/A F-, mg/L: 0.29 pH: 6.2

TSS, mg/L: 7.75 Nitrate, mg/L: 0.88

OUTSIDE LAB ANALYTICAL DATA:

Oil & Grease (EPA 1664), mg/L:_____

Metals(EPA 200.8), mg/L:

Copper: _____ Lead: _____ Zinc: _____

Notes:
① Drainage pipe leading to the river bank ~ half way between FAB 1 and Administration buildings.

DEM 10 Oct 96
DEI 02 Feb 2005 Revised

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SILTRONIC CORPORATION
STORM WATER RUN-OFF SAMPLE

Location: South ⓓ Sample ID#: 07-124

Date: 10-16-07 Time: 1110 Sampled by Tom Rothschild
Rick Bell

OBSERVATIONS UPON SAMPLING:

Oil Sheen: yes:____ No: X Floating Solids: yes:____ No: X

IN HOUSE ANALYTICAL DATA:

COD, mg/L: N/A F-, mg/L: 0.18 pH: 5.9

TSS, mg/L: 6.25 Nitrate, mg/L: 0.44

OUTSIDE LAB ANALYTICAL DATA:

Oil & Grease (EPA 1664), mg/L:_____

Metals(EPA 200.8), mg/L:

Copper: _____ Lead: _____ Zinc: _____

Notes:
ⓓ manhole in paved area 10' SW of outside stair well
coming from FAB 1 upstairs office area

DEM 10 Oct 96
DEI 02 Feb 2005 Revised

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BENCHSHEET

NITRATE ANALYSIS

Test Date: 10·16·07 Sample Date: 10·16·07 Analyst: DI

Data:

Sample	Nitrate Nitrogen(N)	x Dilution	x 4.4*=	Nitrate, mg/L
North	0.3	x N/A	x 4.4 =	1.32
East	0.2	x N/A	x 4.4 =	0.88
South	0.1	x N/A	x 4.4 =	0.44
		x	x 4.4 =	

*Multiplication of 4.4 converts Nitrate Nitrogen to Nitrate.

Quality Control: Spike each of the above samples with 0.1 ml of 100 mg/L Standard. The Nitrate Nitrogen (N) concentration should increase by 1.0 mg/L.
Manufacturer: HACH
Lot Number: A1361

	Sample: North	East	South
After Spike Concentration:	1.4 mg/L	1.2 mg/L	1.1 mg/L
Recovery:	~~130~~ 110 %	100 %	~~80~~ 100 %

Notes: _____

_____

_____

Waste is to be disposed in satellite Cadmium Waste container

References:

1. Standard Methods For The Examination of Water And Wastewater, 1998, 20th Edition, Section 4500-N03-E, page 4-117.
2. Hach DR/4000 Spectrophotometer Instrument Manual; Nitrogen, Nitrate Method 8171, Mid Range:0-5.0 mg/L Cadmium Reduction Method. HACH Program 2520.

TJR/JB 27 Jun 1996
DEI 12 Nov 2002 Revised

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BENCHSHEET

FLUORIDE ANALYSIS

Test Date: 10.16.07 Sample Date: 10.16.07 Analyst: DJ

Slope: -57.5 (Range: -54 to -60 mV)

Standards:

1.0 mg/L: Lot #: A7039 Date Opened: 10/16/07

10.0 mg/L: Lot #: A7222 Date Opened: 10/16/07

Data:

Sample	Fluoride, mg/L
North	0.25
East	0.29
South	0.18

Quality Control: Spike each of the above samples with 0.1 ml of 1000 mg/L Standard. The Fluoride concentration should increase by 2.0 mg/L.
Manufacturer: RICCA
Lot Number: 1707358

	North	East	South
After Spike Concentration:	2.2 mg/L	2.1 mg/L	2.0 mg/L
Recovery:	97.5 %	90.5 %	91 %

Comments: _____

_____

_____

Note: NPDES permit: monthly avg. 17.4 mg/L, daily max. 32 mg/L.

References:
1. Standard Methods For The Examination of Water And Wastewater, 1998 20th Edition, Section 4500-F C, page 4-81.
2. Orion Research Manual for the Fluoride Electrode, Model 940900, 1991.
3. NPDES Permit #101128.

TJR 06 Apr 1987
DEM 11 Jan 2000 Revised

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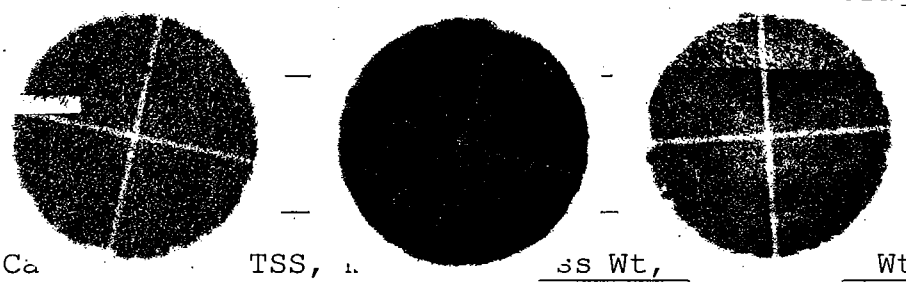
BENCHSHEET

TOTAL SUSPENDED SOLIDS (TSS)

Sample Date: 10.16.07 Oven Temp: 107 C Analyst: DI

Date In: 10.16.07 Time In/Out: 1420 / 0745 (10.18.07)

Tin #	Sample	Vol, ml	Gross Wt, g	Tare Wt, g	TSS, mg/L
5	blank	—	0.0891	0.0891	
6	North	200	0.0969	0.0901	34
8	North	200	0.0962	0.0892	35
			North	Average TSS	34.5
9	East	200	0.0906	0.0892	7
14	East	200	0.0905	0.0888	8.5
			East	Average TSS	7.75
15	South	200	0.0919	0.0907	6
17	South	200	0.0912	0.0899	6.5
			S	verage TSS	6.25



Ca TSS, ss Wt, Wt, mg) X 1000
Volume of sample, ml

Note: NPDES permit: monthly avg. 23 mg/L, daily max. 61 mg/L.
POTW permit: daily max 350 mg/L.

Reference: 1. Standard Methods for the Examination of Water and Wastewater, 1998, 20th Edition, Section 2540 D, page 2-57.
2. National Pollution Discharge Elimination System Permit #101128.

TJR 21 Mar 1987
DEI 12 Nov 2003 Revised

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SCOEPA00025762

BENCHSHEET

pH

Test Date: 10·16·07 Sample Date: 10·16·07 Analyst: DI

Slope: 99.7 (Range: 92 to 102%)

Standards:

4.0 mg/L: Lot #: 1603735 Date Opened: 8/18/06

7.0 mg/L: Lot #: 1611562 Date Opened: 5/9/07

10.0 mg/L: Lot #: 1608475 Date Opened: 2/1/07

Sample	pH Units
North	5.9
East	6.2
South	5.9

Notes: Rain water collected in beaker during rain event: pH: 5.1

Reference: 1. Standard Methods For The Examination of Water And Wastewater, 1998, 20th Edition, Section 4500-H^+B page 4-87.

DEI 13 Aug 2003

N:\ENVIRONMENTAL\FACLAB\DIANNES\STORM WATER\PHB.DOC

Specialty Analytical

19761 S.W. 95th Avenue
Tualatin, OR 97062
(503) 612-9007
Fax (503) 612-8572
1 (877) 612-9007

December 05, 2007

Thomas Rothschild
Siltronic Corporation
7200 NW Front Ave
M/S 30
Portland, OR 97210

TEL: (503) 219-7313
FAX (503) 219-7599

RE: Stormwater East

Dear Thomas Rothschild:

Order No.: 0712012

Specialty Analytical received 1 sample on 12/4/2007 for the analyses presented in the following report.

There were no problems with the analysis and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative, or as qualified with flags. Results apply only to the samples analyzed. Without approval of the laboratory, the reproduction of this report is only permitted in its entirety.

If you have any questions regarding these tests, please feel free to call.

Sincerely,

Ned Engleson
Project Manager

Technical Review

SCOEPA00025764

Specialty Analytical

Date: *05-Dec-07*

CLIENT:	Siltronic Corporation	**Lab Order:**	0712012
Project:	Stormwater East		

Lab ID:	0712012-01	**Collection Date:**	12/3/2007 10:20:00 AM
Client Sample ID:	07-149 (1)	**Matrix:**	STORM WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
POLAR/NON-POLAR OIL AND GREASE		**E1664**				Analyst: **ged**
HEM (Total Hexane Extractable Material)	ND	5.00		mg/L	1	12/4/2007

(1) Stormwater East resample. JJR

SCOEPA00025765

Specialty Analytical

Date: *05-Dec-07*

CLIENT: Siltronic Corporation
Work Order: 0712012
Project: Stormwater East

ANALYTICAL QC SUMMARY REPORT

TestCode: 1664_SPE

Sample ID **MBLK**	SampType: **MBLK**	TestCode: **1664_SPE**	Units: **mg/L**	Prep Date:			Run ID: **WETCHEM_071204C**			
Client ID: **ZZZZZ**	Batch ID: **R49464**	TestNo: **E1664**		Analysis Date: **12/4/2007**			SeqNo: **507946**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
HEM (Total Hexane Extractable Materi	0.7	5.00									J

Sample ID **LCS**	SampType: **LCS**	TestCode: **1664_SPE**	Units: **mg/L**	Prep Date:			Run ID: **WETCHEM_071204C**			
Client ID: **ZZZZZ**	Batch ID: **R49464**	TestNo: **E1664**		Analysis Date: **12/4/2007**			SeqNo: **507945**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
HEM (Total Hexane Extractable Materi	39.3	5.00	40	0.7	96.5	78	114	0	0		

Sample ID **LCSD**	SampType: **LCSD**	TestCode: **1664_SPE**	Units: **mg/L**	Prep Date:			Run ID: **WETCHEM_071204C**			
Client ID: **ZZZZZ**	Batch ID: **R49464**	TestNo: **E1664**		Analysis Date: **12/4/2007**			SeqNo: **507947**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
HEM (Total Hexane Extractable Materi	35	5.00	40	0.7	85.8	78	114	39.3	11.6	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blan

SCOEPA00025766

KEY TO FLAGS

A	This sample contains a Gasoline Range Organic not identified as a specific hydrocarbon product. The result was quantified against gasoline calibration standards.
A1	This sample contains a Diesel Range Organic not identified as a specific hydrocarbon product. The result was quantified against diesel calibration standards.
A2	This sample contains a Lube Oil Range Organic not identified as a specific hydrocarbon product. The result was quantified against a lube oil calibration standard.
A3	The result was determined to be Non-Detect based on hydrocarbon pattern recognition. The product was carry-over from another hydrocarbon type.
B	The blank exhibited a positive result greater than the reporting limit for this compound.
CN	See Case Narrative.
D	Result is based from a dilution.
E	Result exceeds the calibration range for this compound. The result should be considered as estimate.
F	The positive result for this hydrocarbon is due to single component contamination. The product does not match any hydrocarbon in the fuels library.
H	Sample was analyzed outside recommended hold time.
HT	At clients request, sample was analyzed outside recommended hold time.
J	The result for this analyte is between the MDL and the PQL and should be considered as estimated concentration.
K	Diesel result is biased high due to amount of Oil contained in the sample.
L	Diesel result is biased high due to amount of Gasoline contained in the sample.
M	Oil result is biased high due to amount of Diesel contained in the sample.
N	Gasoline result is biased high due to amount of Diesel contained in the sample.
MC	Sample concentration is greater than 4x the spiked value, the spiked value is considered insignificant.
MI	Result is outside control limits due to matrix interference.
MSA	Value determined by Method of Standard Addition.
O	Laboratory Control Standard (LCS) exceeded laboratory control limits, but meets CCV criteria. Data meets EPA requirements.
P	Detection levels of Methylene Chloride may be laboratory contamination, due to previous analysis or background levels.
Q	Detection levels elevated due to sample matrix.
R	RPD control limits were exceeded.
RF	Duplicate failed due to result being at or near the method-reporting limit.
RP	Matrix spike values exceed established QC limits, post digestion spike is in control.
S	Recovery is outside control limits.
SC	Closing CCV or LCS exceeded high recovery control limits, but associated samples are non-detect. Data meets EPA requirements.
*	The result for this parameter was greater that the maximum contaminant level of the TCLP regulatory limit.

Rev Dec 15, 2004

CHAIN OF CUSTODY RECORD

Page 1 of 1

Specialty Analytical

19761 S.W. 95th. Avenue
Tualatin, OR 97062
(503) 612-9007 - Phone
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Contact Person/Project Manager: Thomas J. Rothschild
Company: Sitronic Corporation
Address: 7200 N.W. Front Avenue
Portland, Oregon 97210
Phone: 503-219-7374 Fax: 503-219-4144
Project No.: 07-149 Project Name: Stormwater East
Invoice To: Accounts Payable P.O. No.: 4500521867

Collected By:
Signature: Thomas J. Rothschild
Printed: Thomas J. Rothschild

Signature: —
Printed: —

Turn Around Time
☐ Normal
☒ Rush 2 Days
Specify

Rush Analyses Must Be Scheduled With The Lab In Advance

For Laboratory Use
Lab Job No.: OM12012
Shipped Via: Specialty
Air Bill No.:
Temperature On Receipt: 5 °C
Specialty Analytical Containers? Y / N
Specialty Analytical Trip Blanks? Y / N

Date	Time	Sample I.D.	Matrix	No. of Containers	Analyses: Oil and Grease	Comments	Lab I.D.
3 Dec 2007	1026	07-149	Water	1	X		

Relinquished By	Company	Date	Time	Received By	Company
Thomas J. Rothschild	Sitronic Corporation	12/4/07	0912	Nikki Dalton	Specialty

Relinquished By	Company	Date	Time

Received For Lab By	Date	Time
Nikki Dalton	12/4/07	1021

Unless Reclaimed, Samples Will Be Disposed of 60 Days After Receipt.
Copies: White-Original Yellow-Project File Pink-Customer Copy

Specialty Analytical

19761 S.W. 95th Avenue
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November 27, 2007

Thomas Rothschild
Siltronic Corporation
7200 NW Front Ave
M/S 30
Portland, OR 97210

TEL: (503) 219-7313
FAX: (503) 219-7599

RE: Storm Water

Dear Thomas Rothschild:

Order No.: 0711046

Specialty Analytical received 3 samples on 11/13/2007 for the analyses presented in the following report.

There were no problems with the analysis and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative, or as qualified with flags. Results apply only to the samples analyzed. Without approval of the laboratory, the reproduction of this report is only permitted in its entirety.

If you have any questions regarding these tests, please feel free to call.

Sincerely,

Ned Engleson
Project Manager

Technical Review

SCOEPA00025769

Specialty Analytical

Date: *27-Nov-07*

CLIENT: Siltronic Corporation
Project: Storm Water
Lab Order: 0711046

CASE NARRATIVE

The percent recovery for Total HEM in the LCS/LCSD for Oil and Grease by EPA 1664 exceeded control limits (low recovery). All other QC parameters were in control. No volume remained for re-extraction and analysis.

SCOEPA00025770

Specialty Analytical

Date: *27-Nov-07*

CLIENT: Siltronic Corporation
Project: Storm Water
Lab Order: 0711046

Lab ID: 0711046-01 **Collection Date:** 11/12/2007 11:20:00 AM
Client Sample ID: 07-141-N **Matrix:** STORM WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS		**200.8**				Analyst: **zau**
Copper	7.05	0.500		ug/L	1	11/15/2007 7:30:00 PM
Lead	0.370	0.100		ug/L	1	11/15/2007 7:30:00 PM
Zinc	184	50.0		ug/L	5	11/25/2007 9:07:00 PM

Lab ID: 0711046-02 **Collection Date:** 11/12/2007 10:40:00 AM
Client Sample ID: 07-142-E **Matrix:** STORM WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS		**200.8**				Analyst: **zau**
Copper	17.4	0.500		ug/L	1	11/15/2007 8:11:00 PM
Lead	1.64	0.100		ug/L	1	11/15/2007 8:11:00 PM
Zinc	269	100		ug/L	10	11/25/2007 9:33:00 PM
NON-POLAR OIL AND GREASE EPA 1664		**E1664**				Analyst: **ged**
HEM (Total Hexane Extractable Material)	23.2	5.00	(1)	mg/L	1	11/16/2007
SGT (Non-Polar Extractable Material	ND	5.00		mg/L	1	11/16/2007

Lab ID: 0711046-03 **Collection Date:** 11/12/2007 11:05:00 AM
Client Sample ID: 07-143-S **Matrix:** STORM WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS		**200.8**				Analyst: **zau**
Copper	6.71	0.500		ug/L	1	11/15/2007 8:17:00 PM
Lead	0.913	0.100		ug/L	1	11/15/2007 8:17:00 PM
Zinc	32.8	10.0		ug/L	1	11/15/2007 8:17:00 PM
NON-POLAR OIL AND GREASE EPA 1664		**E1664**				Analyst: **ged**
HEM (Total Hexane Extractable Material)	5.80	5.00		mg/L	1	11/16/2007

(1) Resampled on 3Dec2007. JJR

SCOEPA00025771

Specialty Analytical

Date: *27-Nov-07*

CLIENT: Siltronic Corporation
Work Order: 0711046
Project: Storm Water

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8

Sample ID	MBLK19943	SampType:	MBLK	TestCode:	200.8	Units:	ug/L	Prep Date:	11/14/2007	Run ID:	ICPMS_071115B	
Client ID:	ZZZZZ	Batch ID:	19943	TestNo:	200.8			Analysis Date:	11/15/2007	SeqNo:	503938	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper		ND	0.500									
Lead		ND	0.100									
Zinc		0.9318	10.0									J

Sample ID	LCS-19943	SampType:	LCS	TestCode:	200.8	Units:	ug/L	Prep Date:	11/14/2007	Run ID:	ICPMS_071115B	
Client ID:	ZZZZZ	Batch ID:	19943	TestNo:	200.8			Analysis Date:	11/15/2007	SeqNo:	503941	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper		48.53	0.500	50	0	97.1	85	115	0	0		
Lead		48.97	0.100	50	0	97.9	85	115	0	0		
Zinc		49.24	10.0	50	0	98.5	85	115	0	0		

Sample ID	0711046-01AMS	SampType:	MS	TestCode:	200.8	Units:	ug/L	Prep Date:	11/14/2007	Run ID:	ICPMS_071115B	
Client ID:	07-141-N	Batch ID:	19943	TestNo:	200.8			Analysis Date:	11/15/2007	SeqNo:	503943	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper		57.86	0.500	50	7.051	102	70	130	0	0		
Lead		51.42	0.100	50	0.37	102	70	130	0	0		

Sample ID	0711046-01AMS	SampType:	MS	TestCode:	200.8	Units:	ug/L	Prep Date:	11/14/2007	Run ID:	ICPMS_071115B	
Client ID:	07-141-N	Batch ID:	19943	TestNo:	200.8			Analysis Date:	11/25/2007	SeqNo:	505730	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Zinc		250	50.0	50	184.4	131	70	130	0	0		S,MC

Sample ID	0711046-01AMSD	SampType:	MSD	TestCode:	200.8	Units:	ug/L	Prep Date:	11/14/2007	Run ID:	ICPMS_071115B	
Client ID:	07-141-N	Batch ID:	19943	TestNo:	200.8			Analysis Date:	11/15/2007	SeqNo:	503944	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; B - Analyte detected in the associated Method Blan

SCOEPA00025772

CLIENT: Siltronic Corporation
Work Order: 0711046
Project: Storm Water

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8

Sample ID	0711046-01AMSD	SampType:	MSD	TestCode:	200.8	Units:	ug/L	Prep Date:	11/14/2007	Run ID:	ICPMS_071115B	
Client ID:	07-141-N	Batch ID:	19943	TestNo:	200.8			Analysis Date:	11/15/2007	SeqNo:	503944	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Copper	55.4	0.500	50	7.051	96.7	70	130	57.86	4.34	20		
Lead	50.09	0.100	50	0.37	99.4	70	130	51.42	2.62	20		

Sample ID	0711046-01AMSD	SampType:	MSD	TestCode:	200.8	Units:	ug/L	Prep Date:	11/14/2007	Run ID:	ICPMS_071115B	
Client ID:	07-141-N	Batch ID:	19943	TestNo:	200.8			Analysis Date:	11/25/2007	SeqNo:	505731	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Zinc	257.1	50.0	50	184.4	145	70	130	250	2.78	20	S,MC	

Sample ID	0711046-01ADUP	SampType:	DUP	TestCode:	200.8	Units:	ug/L	Prep Date:	11/14/2007	Run ID:	ICPMS_071115B	
Client ID:	07-141-N	Batch ID:	19943	TestNo:	200.8			Analysis Date:	11/15/2007	SeqNo:	503942	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Copper	7.032	0.500	0	0	0	0	0	7.051	0.270	20		
Lead	0.4773	0.100	0	0	0	0	0	0.37	25.3	20	RF	

Sample ID	0711046-01ADUP	SampType:	DUP	TestCode:	200.8	Units:	ug/L	Prep Date:	11/14/2007	Run ID:	ICPMS_071115B	
Client ID:	07-141-N	Batch ID:	19943	TestNo:	200.8			Analysis Date:	11/25/2007	SeqNo:	505729	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Zinc	193.8	50.0	0	0	0	0	0	184.4	4.92	20		

Sample ID	CCV	SampType:	CCV	TestCode:	200.8	Units:	ug/L	Prep Date:		Run ID:	ICPMS_071115B	
Client ID:	ZZZZZ	Batch ID:	19943	TestNo:	200.8			Analysis Date:	11/15/2007	SeqNo:	503937	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Copper	48.33	0.500	50	0	96.7	90	110	0	0			
Lead	48.96	0.100	50	0	97.9	90	110	0	0			
Zinc	49.23	10.0	50	0	98.5	90	110	0	0			

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blan

SCOEPA00025773

CLIENT: Siltronic Corporation
Work Order: 0711046
Project: Storm Water

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8

Sample ID	CCV	SampType:	CCV	TestCode:	200.8	Units:	ug/L	Prep Date:		Run ID:	ICPMS_071115B
Client ID:	ZZZZZ	Batch ID:	19943	TestNo:	200.8			Analysis Date:	11/15/2007	SeqNo:	503940

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	48.76	0.500	50	0	97.5	90	110	0	0		
Lead	48.8	0.100	50	0	97.6	90	110	0	0		
Zinc	49.37	10.0	50	0	98.7	90	110	0	0		

Sample ID	CCV	SampType:	CCV	TestCode:	200.8	Units:	ug/L	Prep Date:		Run ID:	ICPMS_071115B
Client ID:	ZZZZZ	Batch ID:	19943	TestNo:	200.8			Analysis Date:	11/15/2007	SeqNo:	503947

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	47.26	0.500	50	0	94.5	90	110	0	0		
Lead	48.91	0.100	50	0	97.8	90	110	0	0		
Zinc	48.2	10.0	50	0	96.4	90	110	0	0		

Sample ID	CCV	SampType:	CCV	TestCode:	200.8	Units:	ug/L	Prep Date:		Run ID:	ICPMS_071115B
Client ID:	ZZZZZ	Batch ID:	19943	TestNo:	200.8			Analysis Date:	11/25/2007	SeqNo:	505733

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Zinc	53.9	10.0	50	0	108	90	110	0	0		

Sample ID	ICV	SampType:	ICV	TestCode:	200.8	Units:	ug/L	Prep Date:		Run ID:	ICPMS_071115B
Client ID:	ZZZZZ	Batch ID:	19943	TestNo:	200.8			Analysis Date:	11/15/2007	SeqNo:	503936

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	49.88	0.500	50	0	99.8	90	110	0	0		
Lead	49.69	0.100	50	0	99.4	90	110	0	0		
Zinc	50.36	10.0	50	0	101	90	110	0	0		

Sample ID	ICV	SampType:	ICV	TestCode:	200.8	Units:	ug/L	Prep Date:		Run ID:	ICPMS_071115B
Client ID:	ZZZZZ	Batch ID:	19943	TestNo:	200.8			Analysis Date:	11/25/2007	SeqNo:	505727

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blan

SCOEPA00025774

CLIENT: Siltronic Corporation
Work Order: 0711046
Project: Storm Water

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8

Sample ID	ICV	SampType:	ICV	TestCode:	200.8	Units:	ug/L	Prep Date:		Run ID:	ICPMS_071115B
Client ID:	ZZZZZ	Batch ID:	19943	TestNo:	200.8			Analysis Date:	11/25/2007	SeqNo:	505727

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Zinc	50.86	10.0	50	0	102	90	110	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blan

SCOEPA00025775

CLIENT: Siltronic Corporation
Work Order: 0711046
Project: Storm Water

ANALYTICAL QC SUMMARY REPORT

TestCode: HEM_W

Sample ID: MBLK	SampType: MBLK	TestCode: HEM_W	Units: mg/L	Prep Date:	Run ID: WETCHEM_071116A
Client ID: ZZZZZ	Batch ID: R49250	TestNo: E1664		Analysis Date: 11/16/2007	SeqNo: 504403

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
HEM (Total Hexane Extractable Materia	ND	5.00									
SGT (Non-Polar Extractable Material)	ND	5.00									

Sample ID: LCS	SampType: LCS	TestCode: HEM_W	Units: mg/L	Prep Date:	Run ID: WETCHEM_071116A
Client ID: ZZZZZ	Batch ID: R49250	TestNo: E1664		Analysis Date: 11/16/2007	SeqNo: 504401

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
HEM (Total Hexane Extractable Materia	29.3	5.00	40	0	73.2	78	114	0	0		S
SGT (Non-Polar Extractable Material)	14.2	5.00	20	0	71	64	132	0	0		

Sample ID: LCSD	SampType: LCSD	TestCode: HEM_W	Units: mg/L	Prep Date:	Run ID: WETCHEM_071116A
Client ID: ZZZZZ	Batch ID: R49250	TestNo: E1664		Analysis Date: 11/16/2007	SeqNo: 504402

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
HEM (Total Hexane Extractable Materia	30	5.00	40	0	75	78	114	29.3	2.36	20	S
SGT (Non-Polar Extractable Material)	13.6	5.00	20	0	68	64	132	14.2	4.32	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blan

SCOEPA00025776

KEY TO FLAGS

A	This sample contains a Gasoline Range Organic not identified as a specific hydrocarbon product. The result was quantified against gasoline calibration standards.
A1	This sample contains a Diesel Range Organic not identified as a specific hydrocarbon product. The result was quantified against diesel calibration standards.
A2	This sample contains a Lube Oil Range Organic not identified as a specific hydrocarbon product. The result was quantified against a lube oil calibration standard.
A3	The result was determined to be Non-Detect based on hydrocarbon pattern recognition. The product was carry-over from another hydrocarbon type.
B	The blank exhibited a positive result greater than the reporting limit for this compound.
CN	See Case Narrative.
D	Result is based from a dilution.
E	Result exceeds the calibration range for this compound. The result should be considered as estimate.
F	The positive result for this hydrocarbon is due to single component contamination. The product does not match any hydrocarbon in the fuels library.
H	Sample was analyzed outside recommended hold time.
HT	At clients request, sample was analyzed outside recommended hold time.
J	The result for this analyte is between the MDL and the PQL and should be considered as estimated concentration.
K	Diesel result is biased high due to amount of Oil contained in the sample.
L	Diesel result is biased high due to amount of Gasoline contained in the sample.
M	Oil result is biased high due to amount of Diesel contained in the sample.
N	Gasoline result is biased high due to amount of Diesel contained in the sample.
MC	Sample concentration is greater than 4x the spiked value, the spiked value is considered insignificant.
MI	Result is outside control limits due to matrix interference.
MSA	Value determined by Method of Standard Addition.
O	Laboratory Control Standard (LCS) exceeded laboratory control limits, but meets CCV criteria. Data meets EPA requirements.
P	Detection levels of Methylene Chloride may be laboratory contamination, due to previous analysis or background levels.
Q	Detection levels elevated due to sample matrix.
R	RPD control limits were exceeded.
RF	Duplicate failed due to result being at or near the method-reporting limit.
RP	Matrix spike values exceed established QC limits, post digestion spike is in control.
S	Recovery is outside control limits.
SC	Closing CCV or LCS exceeded high recovery control limits, but associated samples are non-detect. Data meets EPA requirements.
*	The result for this parameter was greater that the maximum contaminant level of the TCLP regulatory limit.

Rev Dec 15, 2004

CHAIN OF CUSTODY RECORD

Page ___ of ___

Specialty Analytical

19761 S.W. 95th. Avenue
Tualatin, OR 97062
(503) 612-9007 - Phone
(503) 612-8572 - Fax

Contact Person/Project Manager: Tom Rothschild
Company: Jettronic
Address: 7200 NW Front Ave
Portland, OR 97210
Phone: 503-219-7374 Fax: 503-219-4144
Project No.: _____ Project Name: _____
Invoice To: Accts Pay P.O. No.: 4500

Collected By:
Signature: _____
Printed: Tom Rothschild
Signature: _____
Printed: ~~Greg Williams~~ D. Greg Williams

Turn Around Time
☒ ~~Normal~~
☐ Rush _____
Specify

Rush Analyses Must Be Scheduled With The Lab In Advance

For Laboratory Use
Lab Job No. OR110416
Shipped Via Specialty
Air Bill No. _____
Temperature On Receipt 5 °C
Specialty Analytical Containers? Y / N
Specialty Analytical Trip Blanks? Y / N

Date	Time	Sample I.D.	Matrix	No. of Containers	Analyses: (T) Cu (200.8)	(T) Pb (200.8)	(T) Zn (200.8)	Oil & Grease (1664)	Comments	Lab I.D.
11.12.07	1120	07-141-N	~~WW~~	1	X	X	X			
11.12.07	1040	07-142-E		2	X	X	X	X		
11.12.07	1105	07-143-S		2	X	X	X	X		

Relinquished By:	Date	Time	Received By:	Relinquished By:	Date	Time
Company: Jettronic	11.13.07	1050	Company: Specialty	Company:		

Unless Reclaimed, Samples Will Be Disposed of 60 Days After Receipt.
Copies: White-Original Yellow-Project File Pink-Customer Copy

Received For Lab By: Nikki Sutton — Date: 11/13/07 — Time: 1310

SCOEPA00025778

Specialty Analytical

19761 S.W. 95th Avenue
Tualatin, OR 97062
(503) 612-9007
Fax (503) 612-8572
1 (877) 612-9007

December 03, 2007

Thomas Rothschild
Siltronic Corporation
7200 NW Front Ave
M/S 30
Portland, OR 97210

TEL: (503) 219-7313
FAX: (503) 219-7599

RE: Stormwater / 07145

Order No.: 0712008

Dear Thomas Rothschild:

Specialty Analytical received 1 sample on 11/21/2007 for the analyses presented in the following report.

There were no problems with the analysis and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative, or as qualified with flags. Results apply only to the samples analyzed. Without approval of the laboratory, the reproduction of this report is only permitted in its entirety.

If you have any questions regarding these tests, please feel free to call.

Sincerely,

Ned Engleson
Project Manager

Technical Review

SCOEPA00025779

Specialty Analytical **Date:** *03-Dec-07*

CLIENT:	Siltronic Corporation
Project:	Stormwater / 07145
Lab Order:	0712008

CASE NARRATIVE

The percent recovery for Total HEM in the LCS/LCSD for Oil and Grease by EPA 1664 exceeded control limits (low recovery). All other QC parameters were in control. No volume remained for re-extraction and analysis.

SCOEPA00025780

Specialty Analytical

Date: *03-Dec-07*

CLIENT:	Siltronic Corporation	**Lab Order:**	0712008
Project:	Stormwater / 07145		

Lab ID:	0712008-01	**Collection Date:**	11/16/2007 11:30:00 AM
Client Sample ID:	07-145 (1)	**Matrix:**	STORM WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NON-POLAR OIL AND GREASE EPA 1664		**E1664**				Analyst: **ged**
HEM (Total Hexane Extractable Material)	ND	5.00		mg/L	1	11/28/2007

(1) Stormwater North. 3yR

SCOEPA00025781

Specialty Analytical

Date: *03-Dec-07*

CLIENT: Siltronic Corporation
Work Order: 0712008
Project: Stormwater / 07145

ANALYTICAL QC SUMMARY REPORT

TestCode: HEM_W

Sample ID **MBLK**	SampType: **MBLK**	TestCode: **HEM_W**	Units: **mg/L**	Prep Date:			Run ID: **WETCHEM_071128B**			
Client ID: **ZZZZZ**	Batch ID: **R49373**	TestNo: **E1664**		Analysis Date: **11/28/2007**			SeqNo: **506264**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
HEM (Total Hexane Extractable Materia	ND	5.00									

Sample ID **LCS**	SampType: **LCS**	TestCode: **HEM_W**	Units: **mg/L**	Prep Date:			Run ID: **WETCHEM_071128B**			
Client ID: **ZZZZZ**	Batch ID: **R49373**	TestNo: **E1664**		Analysis Date: **11/28/2007**			SeqNo: **506262**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
HEM (Total Hexane Extractable Materia	25.1	5.00	40	0	62.8	78	114	0	0		S

Sample ID **LCSD**	SampType: **LCSD**	TestCode: **HEM_W**	Units: **mg/L**	Prep Date:			Run ID: **WETCHEM_071128B**			
Client ID: **ZZZZZ**	Batch ID: **R49373**	TestNo: **E1664**		Analysis Date: **11/28/2007**			SeqNo: **506263**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
HEM (Total Hexane Extractable Materia	22.4	5.00	40	0	56	78	114	25.1	11.4	20	S

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blan

SCOEPA00025782

KEY TO FLAGS

A	This sample contains a Gasoline Range Organic not identified as a specific hydrocarbon product. The result was quantified against gasoline calibration standards.
A1	This sample contains a Diesel Range Organic not identified as a specific hydrocarbon product. The result was quantified against diesel calibration standards.
A2	This sample contains a Lube Oil Range Organic not identified as a specific hydrocarbon product. The result was quantified against a lube oil calibration standard.
A3	The result was determined to be Non-Detect based on hydrocarbon pattern recognition. The product was carry-over from another hydrocarbon type.
B	The blank exhibited a positive result greater than the reporting limit for this compound.
CN	See Case Narrative.
D	Result is based from a dilution.
E	Result exceeds the calibration range for this compound. The result should be considered as estimate.
F	The positive result for this hydrocarbon is due to single component contamination. The product does not match any hydrocarbon in the fuels library.
H	Sample was analyzed outside recommended hold time.
HT	At clients request, sample was analyzed outside recommended hold time.
J	The result for this analyte is between the MDL and the PQL and should be considered as estimated concentration.
K	Diesel result is biased high due to amount of Oil contained in the sample.
L	Diesel result is biased high due to amount of Gasoline contained in the sample.
M	Oil result is biased high due to amount of Diesel contained in the sample.
N	Gasoline result is biased high due to amount of Diesel contained in the sample.
MC	Sample concentration is greater than 4x the spiked value, the spiked value is considered insignificant.
MI	Result is outside control limits due to matrix interference.
MSA	Value determined by Method of Standard Addition.
O	Laboratory Control Standard (LCS) exceeded laboratory control limits, but meets CCV criteria. Data meets EPA requirements.
P	Detection levels of Methylene Chloride may be laboratory contamination, due to previous analysis or background levels.
Q	Detection levels elevated due to sample matrix.
R	RPD control limits were exceeded.
RF	Duplicate failed due to result being at or near the method-reporting limit.
RP	Matrix spike values exceed established QC limits, post digestion spike is in control.
S	Recovery is outside control limits.
SC	Closing CCV or LCS exceeded high recovery control limits, but associated samples are non-detect. Data meets EPA requirements.
*	The result for this parameter was greater that the maximum contaminant level of the TCLP regulatory limit.

Rev Dec 15, 2004

CHAIN OF CUSTODY RECORD

Page ___ of ___

Specialty Analytical
19761 S.W. 95th. Avenue
Tualatin, OR 97062
(503) 612-9007 - Phone
(503) 612-8572 - Fax

Contact Person/Project Manager ___

Company Siltronic Corporation

Address ~~7200 NW Front Avenue~~ 7200 NW Front Avenue
Portland, Oregon 97210

Phone 503-~~246~~ 219-7374 Fax 503-219-4144

Project No. 07-145 Project Name Stormwater

Invoice To Accounts Payable P.O. No. 4500521869

07120008

Collected By:

Signature Thomas J. Rothschild

Printed Thomas J. Rothschild

Signature ___

Printed ___

Turn Around Time

☒ Normal

☐ Rush ___

Specify

Rush Analyses Must Be Scheduled With The Lab In Advance

For Laboratory Use

Lab Job No. ~~07H03~~

Shipped Via Specialty

Air Bill No. ___

Temperature On Receipt 4 °C

Specialty Analytical Containers? Y / N

Specialty Analytical Trip Blanks? Y / N

Date	Time	Sample I.D.	Matrix	No. of Containers	Analyses: Oil and Grease	Analyses: BOD	Analyses: Chromium, Total	Comments	Lab I.D.
16 Nov 2007	1130	07-145	Water	1	X				
21 Nov 2007	0720	07-146-CE-C	Water	2		X	X		

Relinquished By	Company	Date	Time	Received By	Company
Thomas J. Rothschild	Siltronic Corporation	21 Nov 2007	0800	Nikki Sutton	Specialty

Relinquished By:	Company:	Date	Time

Unless Reclaimed, Samples Will Be Disposed of 60 Days After Receipt.

Copies: White-Original Yellow-Project File Pink-Customer Copy

Received For Lab By:	Date	Time
Nikki Sutton	11/21/07	0917

SCOEPA00025784

Siltronic Corporation Storm Water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

DATE:	11.12.07		INITIAL:	DI	
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Floating Solids	No visible discharge	Yes or No	No	No	No
Oil and Grease Sheen*	No visible sheen	Yes or No	No	No	No

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

STORM WATER SAMPLING – Semiannual:

DATE:	11.12.07	INITIAL:	DI		
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Total Copper	0.1	mg/L	0.007	0.017	0.007
Total Lead	0.4	mg/L	< 0.001	0.002	0.001
Total Zinc	0.6	mg/L	0.184	0.269	0.033
PH	5.5-9	Su	6.21	6.37	6.08
TSS	130	mg/L	2.25	5.75	4.0
Oil and Grease	10	mg/L	<5	23.2 (1) <5 (2)	5.8

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Koreen Lail in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Koreen Lail.

N:\ENVIRONMENTAL\FACLAB\WWTP\LOG\STORMWATER.DOC

(1) 12 Nov 2007.
(2) 3 Dec 2007.

SILTRONIC CORPORATION
STORM WATER RUN-OFF SAMPLE

Location: North Sample ID#: 07-141

Date: 11.12.07 Time: 1120 Sampled by: Tom Rothschild
Greg Williams

OBSERVATIONS UPON SAMPLING:

Oil Sheen: yes: ____ No: X Floating Solids: yes: ____ No: X

IN HOUSE ANALYTICAL DATA:

F-, mg/L: 0.28 pH: 6.21

TSS, mg/L: 2.25 Nitrate, mg/L: 1.32

OUTSIDE LAB ANALYTICAL DATA:

Oil & Grease (EPA 1664), mg/L: _____

Metals(EPA 200.8), mg/L:

Copper: _____ Lead: _____ Zinc: _____

Notes:

_____

_____

_____

DEM 10 Oct 96
DEI 12 Oct 2007 Revised

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TSS Pad

SILTRONIC CORPORATION
STORM WATER RUN-OFF SAMPLE

Location: East Sample ID#: 07-142

Date: 11.12.07 Time: 1040 Sampled by: Tom Rothschild
Greg Williams

OBSERVATIONS UPON SAMPLING:

Oil Sheen: yes:____ No: X Floating Solids: yes:____ No: X

IN HOUSE ANALYTICAL DATA:

F-, mg/L: 0.16 pH: 6.37

TSS, mg/L: 5.75 Nitrate, mg/L: 0.44

OUTSIDE LAB ANALYTICAL DATA:

Oil & Grease (EPA 1664), mg/L:_____

Metals(EPA 200.8), mg/L:

Copper: _____ Lead: _____ Zinc: _____

Notes:

_____

_____

_____

DEM 10 Oct 96
DEI 12 Oct 2007 Revised

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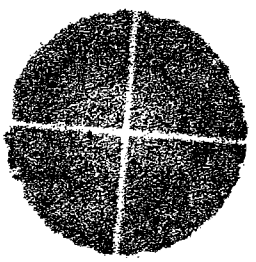

TSS Pad

SILTRONIC CORPORATION
STORM WATER RUN-OFF SAMPLE

Location: South Sample ID#: 07-143

Date: 11.12.07 Time: 1105 Sampled by: Tom Rothschild
Greg Williams

OBSERVATIONS UPON SAMPLING:

Oil Sheen: yes:____ No: X Floating Solids: yes:____ No: X

IN HOUSE ANALYTICAL DATA:

F-, mg/L: 0.17 pH: 6.08

TSS, mg/L: 4.0 Nitrate, mg/L: 0.88

OUTSIDE LAB ANALYTICAL DATA:

Oil & Grease (EPA 1664), mg/L:_____

Metals(EPA 200.8), mg/L:

Copper: _____ Lead: _____ Zinc: _____

Notes:

_____

_____

_____

DEM 10 Oct 96
DEI 12 Oct 2007 Revised

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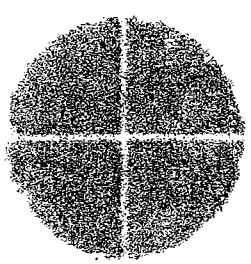

TSS Pad

BENCHSHEET

FLUORIDE ANALYSIS

Test Date: 11.12.07 Sample Date: 11.12.07 Analyst: DJ

Slope: -55.4 (Range: -54 to -60 mV)

Standards:

1.0 mg/L: Lot #: A7039 Date Opened: 10.16.07

10.0 mg/L: Lot #: A7222 Date Opened: 10.16.07

Data:

Sample	Fluoride, mg/L
North	0.28
East	0.16
South	0.17

Quality Control: Spike each of the above samples with 0.1 ml of 1000 mg/L Standard. The Fluoride concentration should increase by 2.0 mg/L.
Manufacturer: RICCA
Lot Number: 1707358

	North	East	South
After Spike Concentration:	2.2 mg/L	2.1 mg/L	2.1 mg/L
Recovery:	96 %	97 %	96.5 %

Comments: _____

_____

_____

Note: NPDES permit: monthly avg. 17.4 mg/L, daily max. 32 mg/L.

References:
1. Standard Methods For The Examination of Water And Wastewater, 1998 20th Edition, Section 4500-F C, page 4-81.
2. Orion Research Manual for the Fluoride Electrode, Model 940900, 1991.
3. NPDES Permit #101128.

TJR 06 Apr 1987
DEM 11 Jan 2000 Revised

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SCOEPA00025789

BENCHSHEET

NITRATE ANALYSIS

Test Date: 11·12·07 Sample Date: 11·12·07 Analyst: DI

Data:

Sample	Nitrate Nitrogen(N)	x Dilution	x 4.4* =	Nitrate, mg/L
North	0.3	x N/A	x 4.4 =	1.32
East	0.1	x N/A	x 4.4 =	0.44
South	0.2	x N/A	x 4.4 =	0.88
		x	x 4.4 =	

*Multiplication of 4.4 converts Nitrate Nitrogen to Nitrate.

Quality Control: Spike each of the above samples with 0.1 ml of 100 mg/L Standard. The Nitrate Nitrogen (N) concentration should increase by 1.0 mg/L.
Manufacturer: HACH
Lot Number: A1361

	Sample: North	East	South
After Spike Concentration:	1.2 mg/L	1.0 mg/L	1.0 mg/L
Recovery:	90 %	90 %	80 %

Notes: _____

_____

_____

Waste is to be disposed in satellite Cadmium Waste container

References:

1. Standard Methods For The Examination of Water And Wastewater, 1998, 20th Edition, Section 4500-N03-E, page 4-117.
2. Hach DR/4000 Spectrophotometer Instrument Manual; Nitrogen, Nitrate Method 8171, Mid Range:0-5.0 mg/L Cadmium Reduction Method. HACH Program 2520.

TJR/JB 27 Jun 1996
DEI 12 Nov 2002 Revised

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BENCHSHEET

pH

Test Date: 11.12.07 Sample Date: 11.12.07 Analyst: DI

Slope: 99.7 (Range: 92 to 102%)

Standards:

4.0 mg/L: Lot #: 1603735 Date Opened: 8.18.06

7.0 mg/L: Lot #: 1611562 Date Opened: 5.9.07

10.0 mg/L: Lot #: 1608475 Date Opened: 2.1.07

Sample	pH Units
North	6.21
East	6.37
South	6.08

Notes: Rain Water collected @ time of rain event: 6.51

Reference: 1. Standard Methods For The Examination of Water And Wastewater, 1998, 20th Edition, Section 4500-H^+B page 4-87.

DEI 13 Aug 2003

N:\ENVIRONMENTAL\FACLAB\DIANNES\STORM WATER\PHB.DOC

BENCHSHEET

TOTAL SUSPENDED SOLIDS (TSS)

Sample Date: 11.12.07 Oven Temp: 108 C Analyst: DI

Date In: 11.12.07 Time In/Out: 1230 / 1400

Tin #	Sample	Vol, ml	Gross Wt, g	Tare Wt, g	TSS, mg/L
1	blank	N/A	0.0902	0.0902	
2	North	200	0.0897	0.0893	2.0
3	North	200	0.0913	0.0908	2.5
				North Average TSS	2.25
4	East	200	0.0901	0.0889	6.0
5	East	200	0.0888	0.0877	5.5
				East Average TSS	5.75
8	South	200	0.0894	0.0886	4
9	South	200	0.0911	0.0903	4
				South Average TSS	4

Notes: _____

Calculation: TSS, mg/L = $\frac{\text{(Gross Wt, mg - Tare Wt, mg) X 1000}}{\text{Volume of Sample, ml}}$

Note: NPDES permit: monthly avg. 23 mg/L, daily max. 61 mg/L.
POTW permit: daily max 350 mg/L.

Reference: 1. Standard Methods for the Examination of Water and Wastewater, 1998, 20th Edition, Section 2540 D, page 2-57.
2. National Pollution Discharge Elimination System Permit #101128.

TJR 21 Mar 1987
DEI 12 Nov 2003 Revised

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Sen Loren Shelley
Industrial Stormwater Division
Water Pollution Control Laboratory
Str 6543 N. Burlington Ave.
or F
City Portland, OR 97203-5452

#029

PS nstructions

SCOEPA00025793

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PS Form 3800, June 2002 (Reverse)

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5/16

FAB 1-Jan 1984

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- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Loren Shelley
Industrial Stormwater Division
Water Pollution Control Laboratory
6543 N. Burlington Ave.
Portland, OR 97203-5452

26 JUN 2007 PM 6 T

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X A.C. Peschke
☒ Agent
☐ Addressee

B. Received by *(Printed Name)*
ANGELA PESCHKE

C. Date of Delivery
6/26/07

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

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PORTLAND OR 972

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

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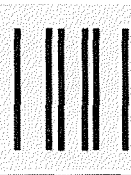

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Koreen Lail
Siltronic Corporation
7200 NW Front Avenue M/S 30
Portland, OR 97210-3676

#029

Koreen Lail
Environmental Affairs

Siltronic Corporation
7200 NW Front Avenue, M/S 30
Portland OR 97210-3676, USA
Tel. 503-219-7994
Fax 503-219-7599
Koreen.lail@siltronic.com

ER:029KLL

Loren Shelley
City of Portland
Industrial Stormwater Program
6543 N Burlington Avenue
Portland, Oregon 97203-5452

June 1st, 2007

Industrial Storm Water NPDES 1200-Z Monitoring Report for July 1, 2006 to June 30, 2007

Dear Mr. Shelley,

Attached is Siltronic Corporation's Industrial Storm Water NPDES 1200-Z Monitoring Report for July 1, 2006 to June 30, 2007 as required by Siltronic's NPDES Storm Water Discharge Permit number 1200-Z issued October 1, 2002. Sampling was conducted November 2, 2006, May 2, 2007, and May 21, 2007.

The November 2, 2006, sampling of the east sample point indicated an exceedance of the benchmark for copper. Upon investigation, it was determined that the sample tube at the east storm water collection site was drawing its sample from the bottom of the pipe instead of midflow. This observation is supported by the TSS data which is higher than usual but below the benchmark. A work order was written to shorten the line 3 inches and Metro Rooter was called out to clean out the catch basin/manhole where the sample was taken.

During the May 3rd, sampling event, the south sample point oil and grease bottle was broken before the tests could be run. Additionally, the east sample was above benchmark for oil and grease. Upon investigation of the east sample point, it was determined that the bottle probably hit the bottom of the pipe during the sampling process since the depth of the water was low. The oil & grease samples for both the east and south sample points were re-taken on May 21st. The east oil & grease sample was taken from the end of the outfall pipe in order to avoid the prior issue.

Our investigation of the east sampling point also indicated that the outfall is somewhat obstructed by rocks and tress which tends to back up the flow in the storm water line. We are currently looking into how to remove this obstruction. After removal of this obstruction,

siltronic
perfect silicon solutions

we are also considering permanently moving our east sampling point to this outfall location in order to improve the sampling technique.

The following materials are enclosed in this report:

1. A summary of the results for 2006-2007 including sample results, bench marks, detection limits and analytical methods used.
2. Siltronic Corporation laboratory bench sheets for TSS and pH.
3. Copies of outside laboratory reports including the chain of custody forms for copper, lead, zinc, and total oil & grease.

If you have any questions or comments, please contact me.

Best regards,

Koreen Lail
Siltronic Corporation
Environmental Affairs

CC: BES Storm Water File
Tom Rothschild

siltronic
perfect silicon solutions

Summary of Results for 2006 - 2007

PARAMETER	Sample date	North results	South results	East results	BENCH MARK	Units	Detection limit	Method & Comments
Copper	11/2/06	0.00911	0.00911	0.604	0.1	mg/L	0.03	EPA 200.8 (11/2 exceedance due to sample tube at the east storm water collection site drawing its sample from the bottom of the pipe instead of midflow).
	5/2/07	0.0220	0.0112	0.0305				
Lead	11/2/06	0.00349	0.00166	0.0125	0.4	mg/L	0.005	EPA 200.8
	5/2/07	0.00400	0.00398	0.00618				
Zinc	11/2/06	0.164	0.260	0.458	0.6	mg/L	0.05	EPA 200.8
	5/2/07	0.203	0.0309	0.193				
pH	11/2/06	6.44	6.35	6.37	5.5-9	pH units	0.1	Standards Methods 1998, 20th ed, Section 4500-H^+
	5/2/07	5.63	5.97	6.14				
TSS	11/2/06	18.2	9.6	78.2	130	mg/L	0.1	Standards Methods 1998, 20th ed, Section 2540 D (11/2 increase in TSS due to sample tube at the east storm water collection site drawing its sample from the bottom of the pipe instead of midflow)
	5/2/07	26.5	33.8	27.0				
Oil and Grease	11/2/06	<3.97	<4.9	<4.55	10	mg/L	3	EPA 1664A (5/2 n/a on south sample point oil and grease due to bottle being broken 5/2 exceedance at east sample point, probably due to hitting the bottom of the pipe during the sampling process because the depth of the water was low.
	5/2/07	<4.00	n/a	39.4				
Oil and Grease resample	5/21/07	n/a	<4.08	<4.13	10	mg/L	3	EPA 1664A (retest for oil and grease)

Industrial Source Control Division

INDUSTRIAL STORMWATER

NPDES 1200-Z MONITORING REPORT

Industry Name: Siltronic Corporation

Site Address: 7200 NW Front Ave., Portland, OR 97210-3676

The permittee shall monitor stormwater **twice** per year for the parameters outlined in their NPDES 1200-Z Stormwater Discharge Permit Schedule B.1.a., and submit results to the City as stated in Schedule D.2.

Stormwater samples were taken for the above permittee, on these days and at these sample points:

Sample Date(s)	Sample Point(s)
11/2/06	North, East, South
5/2/07	North, East, South
5/21/07	East, South

The permittee shall submit by **July 15** of each year a copy of the **laboratory analysis reports**, which show analytical methods and detection limits, for stormwater samples collected for the previous monitoring year (July 1- June 30).

❑ **Monitoring Waiver Reduction Notification**:
Check the box if your facility is exercising a waiver of monitoring based on meeting benchmarks listed in Schedule A.9., AND site conditions have not changed to impact stormwater run-off. Note: This does not exclude your facility from notifying DEQ about the waiver of monitoring. Please read Schedule B of the permit to clearly understand the monitor waiver reduction guidelines. If waiver request is for select pollutants, list the parameters excluded from monitoring: _____.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: Koreen Said for Siltronic
Title: Environmental Engineer
Date: 6/11/07

Revised 6/1/2007

TestAmerica
ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

RECEIVED NOV 17 2006

November 15, 2006

Thomas Rothschild
Siltronic
7200 N.W. Front Ave
Portland, OR 97210

RE: Storm Water

Enclosed are the results of analyses for samples received by the laboratory on 11/02/06 17:10. The following list is a summary of the Work Orders contained in this report, generated on 11/15/06 18:08.

If you have any questions concerning this report, please feel free to contact me.

Work Order	Project	ProjectNumber
PPK0120	Storm Water	PO# 4500186654

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Brian Cone, Industrial Services Manager

SCOEPA00025801

TestAmerica
ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Storm Water**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	11/15/06 18:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
06-96-SW-N	PPK0120-01	Water	11/02/06 09:15	11/02/06 17:10
06-97-SW-S	PPK0120-02	Water	11/02/06 08:45	11/02/06 17:10
06-98-SW-E	PPK0120-03	Water	11/02/06 09:50	11/02/06 17:10
06-97-SW-SA	PPK0120-04	Water	11/02/06 08:45	11/02/06 17:10

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Brian Cone, Industrial Services Manager

SCOEPA00025802

TestAmerica
ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Storm Water**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	11/15/06 18:08

Total Metals by EPA 200 Series Methods

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PPK0120-01 (06-96-SW-N)		**Water**			**Sampled: 11/02/06 09:15**					
Copper	EPA 200.8	**0.00911**	----	0.00100	mg/l	1x	6K08050	11/08/06 13:23	11/09/06 16:03	
Lead	"	**0.00349**	----	0.00100	"	"	"	"	"	
Zinc	"	**0.164**	----	0.0100	"	"	"	"	"	
PPK0120-02 (06-97-SW-S)		**Water**			**Sampled: 11/02/06 08:45**					
Copper	EPA 200.8	**0.00911**	----	0.00100	mg/l	1x	6K08050	11/08/06 13:23	11/09/06 16:09	
Lead	"	**0.00166**	----	0.00100	"	"	"	"	"	
Zinc	"	**0.260**	----	0.0100	"	"	"	"	"	
PPK0120-03 (06-98-SW-E)		**Water**			**Sampled: 11/02/06 09:50**					
Lead	EPA 200.8	**0.0125**	----	0.00100	mg/l	1x	6K08050	11/08/06 13:23	11/09/06 16:26	
PPK0120-03RE1 (06-98-SW-E)		**Water**			**Sampled: 11/02/06 09:50**					
Copper	EPA 200.8	**0.604**	----	0.00200	mg/l	2x	6K08050	11/08/06 13:23	11/10/06 06:22	
Zinc	"	**0.458**	----	0.0200	"	"	"	"	"	

TestAmerica - Portland, OR

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Brian Cone, Industrial Services Manager

SCOEPA00025803

TestAmerica
ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Storm Water**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	11/15/06 18:08

Conventional Chemistry Parameters by APHA/EPA Methods

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PPK0120-01 (06-96-SW-N)		**Water**			**Sampled: 11/02/06 09:15**					
Oil & Grease (HEM)	EPA 1664A	ND	----	3.97	mg/l	1x	6K08023	11/08/06 09:32	11/08/06 18:21	
PPK0120-02 (06-97-SW-S)		**Water**			**Sampled: 11/02/06 08:45**					
Oil & Grease (HEM)	EPA 1664A	ND	----	4.90	mg/l	1x	6K08023	11/08/06 09:32	11/08/06 18:21	
PPK0120-03 (06-98-SW-E)		**Water**			**Sampled: 11/02/06 09:50**					
Oil & Grease (HEM)	EPA 1664A	ND	----	4.55	mg/l	1x	6K08023	11/08/06 09:32	11/08/06 18:21	
PPK0120-04 (06-97-SW-SA)		**Water**			**Sampled: 11/02/06 08:45**					
Oil & Grease (HEM)	EPA 1664A	**10.1**	----	3.97	mg/l	1x	6K08023	11/08/06 09:32	11/08/06 18:21	

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Brian Cone, Industrial Services Manager

SCOEPA00025804

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Siltronic	Project Name:	**Storm Water**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	11/15/06 18:08

Total Metals by EPA 200 Series Methods - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6K08050 **Water Preparation Method: EPA 200 Series**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6K08050-BLK1)								Extracted: 11/08/06 13:23						
Copper	EPA 200.8	ND	---	0.00100	mg/l	1x	--	--	--	--	--	--	11/09/06 14:04	
Lead	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Zinc	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
LCS (6K08050-BS1)								Extracted: 11/08/06 13:23						
Zinc	EPA 200.8	0.0903	---	0.0100	mg/l	1x	--	0.0800	113%	(85-115)	--	--	11/09/06 14:10	
Lead	"	0.0810	---	0.00100	"	"	--	"	101%	"	--	--	"	
Copper	"	0.0808	---	0.00100	"	"	--	"	101%	"	--	--	"	
Duplicate (6K08050-DUP1)				QC Source: BPK0143-01				Extracted: 11/08/06 13:23						
Lead	EPA 200.8	0.00105	---	0.00100	mg/l	1x	0.00109	--	--	--	3.74%	(20)	11/09/06 14:27	
Copper	"	0.00290	---	0.00100	"	"	0.00321	--	--	--	10.1%	"	"	
Duplicate (6K08050-DUP2)				QC Source: BPK0143-01RE1				Extracted: 11/08/06 13:23						
Zinc	EPA 200.8	0.518	---	0.0200	mg/l	2x	0.516	--	--	--	0.387%	(20)	11/10/06 06:04	
Matrix Spike (6K08050-MS1)				QC Source: BPK0143-01				Extracted: 11/08/06 13:23						
Lead	EPA 200.8	0.0826	---	0.00100	mg/l	1x	0.00109	0.0800	102%	(75-125)	--	--	11/09/06 14:16	
Copper	"	0.0832	---	0.00100	"	"	0.00321	"	100%	"	--	--	"	
Matrix Spike (6K08050-MS2)				QC Source: BPK0147-01				Extracted: 11/08/06 13:23						
Lead	EPA 200.8	0.0818	---	0.00100	mg/l	1x	0.000270	0.0800	102%	(75-125)	--	--	11/09/06 14:22	
Zinc	"	0.166	---	0.0100	"	"	0.0850	"	101%	"	--	--	"	
Copper	"	0.0836	---	0.00100	"	"	0.00254	"	101%	"	--	--	"	
Matrix Spike (6K08050-MS3)				QC Source: BPK0143-01RE1				Extracted: 11/08/06 13:23						
Copper	EPA 200.8	0.0813	---	0.00200	mg/l	2x	0.00321	0.0800	97.6%	(75-125)	--	--	11/10/06 05:58	

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Siltronic	Project Name:	**Storm Water**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	11/15/06 18:08

Conventional Chemistry Parameters by APHA/EPA Methods - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6K08023 **Water Preparation Method: Gravimetric (hexane)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6K08023-BLK1)								**Extracted: 11/08/06 09:32**						
Oil & Grease (HEM)	EPA 1664A	ND	---	5.00	mg/l	1x	--	--	--	--	--	--	11/08/06 18:21	
LCS (6K08023-BS1)								**Extracted: 11/08/06 09:32**						
Oil & Grease (HEM)	EPA 1664A	36.9	---	5.00	mg/l	1x	--	40.0	92.2%	(78-114)	--	--	11/08/06 18:21	
LCS Dup (6K08023-BSD1)								**Extracted: 11/08/06 09:32**						
Oil & Grease (HEM)	EPA 1664A	39.0	---	5.00	mg/l	1x	--	40.0	97.5%	(78-114)	5.53%	(18)	11/08/06 18:21	

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Brian Cone, Industrial Services Manager

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11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244 425-420-9200 FAX ...-9210
11922 E. First Ave, Spokane, WA 99206-5302 509-924-9200 FAX 924-9290
9405 SW Nimbus Ave, Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #:

CLIENT: Siltronic

REPORT TO: Tom Rothschild
ADDRESS: 7200 NW Front Ave
Portland, OR
PHONE: 503-219-7371 FAX: 503-219-4144

INVOICE TO: Accts. Payable

P.O. NUMBER: 4500186654

PROJECT NAME: STORM WATER. FALL 06

PROJECT NUMBER: 96-98

SAMPLED BY: TR/PW

TURNAROUND REQUEST
in Business Days *
Organic & Inorganic Analyses
[X] STD. | 7 | 5 | 4 | 3 | 2 | 1 | <1
Petroleum Hydrocarbon Analyses
5 STD. | 4 | 3 | 2 | 1 | <1
OTHER Specify:
* *Turnaround Requests less than standard* may incur Rush Charges.

PRESERVATIVE

REQUESTED ANALYSES

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	Oil/Grease (1664)	Cu 200.8	Pb 200.8	Zn 200.8	MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	TA WO ID
1	06-96-SW-N	11/2/06 0915	X	X	X	X	2			
2	06-97-SW-S	11/2/06 0845	X	X	X	X	2			
3	06-98-SW-E	11/2/06 0950	X	X	X	X	2			
4	06-97-SW-SA	11/2/06 0845	X				1			
5										
6										
7										
8										
9										
10										

RELEASED BY: Dianne Irish
PRINT NAME: Dianne Irish FIRM: Siltronic DATE: 11/2/06 TIME: 13:33

RECEIVED BY: Bob K
PRINT NAME: Bob K FIRM: TAP DATE: 11/2/06 TIME: 13:33

RELEASED BY: PRINT NAME: FIRM: DATE: TIME:

RECEIVED BY: PRINT NAME: FIRM: DATE: TIME:

ADDITIONAL REMARKS:

TEMP:

COC REV 05/2006 PAGE OF

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and for any additional analyses performed on this project.
Payment for services is due within 30 days from the date of invoice unless otherwise contracted. Sample(s) will be disposed of after 30 days unless otherwise contracted.

SCOEPA00025807

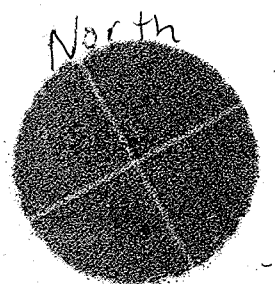
BENCHSHEET

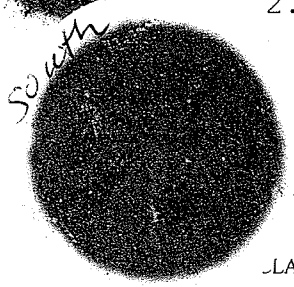
TOTAL SUSPENDED SOLIDS (TSS)

Sample Date: 11/2/06 Oven Temp: 104 C Analyst: DJ

Date In: 11/2/06 Time In/Out: 1015 / 1310

Tin #	Sample	Vol, ml	Gross Wt, g	Tare Wt, g	TSS, mg/L
1	Blank	NA	0.0901	0.0901	0
6	North	500	0.0980	0.0892	17.6
7	North	500	0.0990	0.0896	18.8
				North Average TSS	18.2
10	East	250	0.1074	0.0891	73.2
13	East	250	0.1079	0.0871	83.2
				East Average TSS	78.2
8	South	500	0.0963	0.0914	9.8
9	South	500	0.0945	0.0898	9.4
				South Average TSS	9.6





ion: TSS, mg/L = $\frac{\text{(Gross Wt, mg - Tare Wt, mg) X 1000}}{\text{Volume of Sample, ml}}$

DES permit: monthly avg. 23 mg/L, daily max. 61 mg/L.
W permit: daily max 350 mg/L.

1. Standard Methods for the Examination of Water and Wastewater, 1998, 20th Edition, Section 2540 D, page 2-57.
2. National Pollution Discharge Elimination System Permit #101128.

TJR 21 Mar 1987
DEI 12 Nov 2003 Revised

LAB\DIANNES\storm water\TSSSWB.DOC

BENCHSHEET

pH

Test Date: 11.2.06 Sample Date: 11.2.06 Analyst: DI

Slope: 100.1 (Range: 92 to 102%)

Standards:

4.0 mg/L: Lot #: 1603735 Date Opened: 8/18/06

7.0 mg/L: Lot #: 1504752 Date Opened: 11/1/05

10.0 mg/L: Lot #: 1506586 Date Opened: 4/6/06

Sample	pH Units
North	6.44
East	6.37
South	6.35

Notes: _____

_____

_____

Reference: 1. Standard Methods For The Examination of Water And Wastewater, 1998, 20th Edition, Section 4500-H^+B page 4-87.

DEI 13 Aug 2003

N:\ENVIRONMENTAL\FACLAB\DIANNES\STORM WATER\PHB.DOC

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
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May 16, 2007

Thomas Rothschild
Siltronic
7200 N.W. Front Ave
Portland, OR 97210

RE: Storm Water

Enclosed are the results of analyses for samples received by the laboratory on 05/03/07 14:45. The following list is a summary of the Work Orders contained in this report, generated on 05/16/07 18:35.

If you have any questions concerning this report, please feel free to contact me.

Work Order	Project	ProjectNumber
PQE0170	Storm Water	Spring 2007

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Brian Cone, Industrial Services Manager

SCOEPA00025810

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ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Storm Water**	
7200 N.W. Front Ave	Project Number:	Spring 2007	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	05/16/07 18:35

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
07-49-N	PQE0170-01	Water	05/02/07 12:45	05/03/07 14:45
07-50-S	PQE0170-02	Water	05/02/07 13:00	05/03/07 14:45
07-51-E	PQE0170-03	Water	05/02/07 13:15	05/03/07 14:45

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Siltronic	Project Name:	**Storm Water**	
7200 N.W. Front Ave	Project Number:	Spring 2007	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	05/16/07 18:35

Oil and Grease Analysis per EPA Method 1664

TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQE0170-01 (07-49-N)		**Water**				**Sampled: 05/02/07 12:45**				
Oil & Grease	EPA 1664	ND	—	4.00	mg/l	1x	7050531	05/10/07 14:10	05/11/07 16:01	
PQE0170-03 (07-51-E)		**Water**				**Sampled: 05/02/07 13:15**				
Oil & Grease	EPA 1664	**39.4**	—	4.00	mg/l	1x	7050531	05/10/07 14:10	05/11/07 16:01	

TestAmerica - Portland, OR

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ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Storm Water**	
7200 N.W. Front Ave	Project Number:	Spring 2007	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	05/16/07 18:35

Total Metals per EPA 200 Series Methods

TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQE0170-01 (07-49-N)		**Water**			**Sampled: 05/02/07 12:45**					
Copper	EPA 200.8	**0.0220**	----	0.00200	mg/l	1x	7050312	05/07/07 11:05	05/11/07 21:31	
Lead	"	**0.00400**	----	0.00100	"	"	"	"	"	
Zinc	"	**0.203**	----	0.00500	"	"	"	"	"	
PQE0170-02 (07-50-S)		**Water**			**Sampled: 05/02/07 13:00**					
Copper	EPA 200.8	**0.0112**	----	0.00200	mg/l	1x	7050312	05/07/07 11:05	05/11/07 21:47	
Lead	"	**0.00398**	----	0.00100	"	"	"	"	"	
Zinc	"	**0.0309**	----	0.00500	"	"	"	"	"	
PQE0170-03 (07-51-E)		**Water**			**Sampled: 05/02/07 13:15**					
Copper	EPA 200.8	**0.0305**	----	0.00200	mg/l	1x	7050312	05/07/07 11:05	05/11/07 22:02	
Lead	"	**0.00618**	----	0.00100	"	"	"	"	"	
Zinc	"	**0.193**	----	0.00500	"	"	"	"	"	

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Siltronic	Project Name:	**Storm Water**	
7200 N.W. Front Ave	Project Number:	Spring 2007	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	05/16/07 18:35

Oil and Grease Analysis per EPA Method 1664 - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 7050531 **Water Preparation Method: O&G prep CE**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7050531-BLK1)								Extracted: 05/10/07 12:10						
Oil & Grease	EPA 1664	ND	---	5.00	mg/l	1x	--	--	--	--	--	--	05/11/07 16:01	
LCS (7050531-BS1)								Extracted: 05/10/07 12:10						
Oil & Grease	EPA 1664	36.8	---		mg/l	1x	--	40.2	91.5%	(78-114)	--	--	05/11/07 16:01	

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Siltronic	Project Name:	**Storm Water**	
7200 N.W. Front Ave	Project Number:	Spring 2007	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	05/16/07 18:35

Total Metals per EPA 200 Series Methods - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 7050312 **Water Preparation Method: EPA 200/3005**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7050312-BLK1)									Extracted: 05/07/07 11:05					
Copper	EPA 200.8	ND	---	0.00200	mg/l	1x	--	--	--	--	--	--	05/11/07 21:15	
Lead	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Zinc	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
LCS (7050312-BS1)									Extracted: 05/07/07 11:05					
Copper	EPA 200.8	0.0922	---	0.0100	mg/l	5x	--	0.100	92.2%	(85-115)	--	--	05/11/07 21:24	
Lead	"	0.101	---	0.00500	"	"	--	"	101%	"	--	--	"	
Zinc	"	0.0990	---	0.0250	"	"	--	"	99.0%	"	--	--	"	
Duplicate (7050312-DUP1)				QC Source: PQE0170-01					Extracted: 05/07/07 11:05					
Copper	EPA 200.8	0.0217	---	0.00200	mg/l	1x	0.0220	--	--	--	1.37%	(20)	05/11/07 21:39	
Lead	"	0.00395	---	0.00100	"	"	0.00400	--	--	--	1.26%	"	"	
Zinc	"	0.197	---	0.00500	"	"	0.203	--	--	--	3.00%	"	"	
Matrix Spike (7050312-MS1)				QC Source: PQE0170-03					Extracted: 05/07/07 11:05					
Copper	EPA 200.8	0.124	---	0.00200	mg/l	1x	0.0305	0.100	93.5%	(75-125)	--	--	05/11/07 22:17	
Lead	"	0.105	---	0.00100	"	"	0.00618	"	98.8%	"	--	--	"	
Zinc	"	0.275	---	0.00500	"	"	0.193	"	82.0%	(70-130)	--	--	"	
Matrix Spike (7050312-MS2)				QC Source: PQE0170-02					Extracted: 05/07/07 11:05					
Copper	EPA 200.8	0.104	---	0.00200	mg/l	1x	0.0112	0.100	92.8%	(75-125)	--	--	05/11/07 21:56	
Lead	"	0.101	---	0.00100	"	"	0.00398	"	97.0%	"	--	--	"	
Zinc	"	0.114	---	0.00500	"	"	0.0309	"	83.1%	(70-130)	--	--	"	

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Brian Cone, Industrial Services Manager

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ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Storm Water**	
7200 N.W. Front Ave	Project Number:	Spring 2007	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	05/16/07 18:35

Notes and Definitions

Report Specific Notes:

None

Laboratory Reporting Conventions:

DET	-	Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
ND	-	Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
NR/NA	-	Not Reported / Not Available
dry	-	Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
wet	-	Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
RPD	-	RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
MRL	-	METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
MDL*	-	METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
Dil	-	Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
Reporting Limits	-	Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
Electronic Signature	-	Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy.* Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Brian Cone, Industrial Services Manager

SCOEPA00025816

TestAmerica
ANALYTICAL TESTING CORPORATION

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508 (425) 420-9200 FAX 420-9210
East 11115 Montgomery, Suite B, Spokane, WA 99206-4779 (509) 924-9200 FAX 924-9290
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 (503) 906-9200 FAX 906-9210 X
20354 Empire Avenue, Suite E-9, Bend, OR 97708-1883 (541) 383-9310 FAX 382-7588

CHAIN OF CUSTODY REPORT

Work Order #: PQE0170

CLIENT: SILTRONIC CORPORATION
REPORT TO: TOM ROTHSCHILD
ADDRESS: 7200 NW FRONT AVE
PORTLAND, OREGON 97210
PHONE: 503-219-7374 FAX: 503-219-4144

INVOICE TO. ACCOUNTS PAYABLE
7200 NW FRONT AVE
PORTLAND, OREGON 97210

P.O. NUMBER: 4500186654

PROJECT NAME: Stormwater Spring 2007
PROJECT NUMBER:
SAMPLED BY: Tom Rothschild and Paul Wittke

TURNAROUND REQUEST in Business Days *
Organic & Inorganic Analyses: ~~10~~ 7 5 4 3 2 1 <1 (STD.)
Petroleum Hydrocarbon Analyses: 5 4 3 2 1 <1 (STD.)
OTHER Specify:
* Turnaround Requests less than standard may incur Rush Charges

REQUESTED ANALYSES

	CLIENT SAMPLE INDENTIFICATION	SAMPLING DATE/TIME	Oil & Grease (EPA 1664)	Total Cu (EPA200.8)	Total Pb (EPA200.8)	Total Zn (EPA200.8)	MATRIX (W, S, O)	# OF CONT.	COMMENTS	NCA WO ID
1	07-49-N	5-2-07 1245	X	X	X	X	2		stormwater	
2	07-50-S	5.2.07 1300		X	X	X	1		"	
3	07-51-E	5.2.07 1315	X	X	X	X	2		"	
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										

RELINQUISHED BY: Dianne Irish DATE: 5-3-07
PRINT NAME: DIANNE IRISH FIRM: Siltronic TIME: 12:25

RECEIVED BY: [signature] DATE: 5/3/07
PRINT NAME: Bob F FIRM: TAP TIME: 12:25

RELINQUISHED BY: DATE:
PRINT NAME: FIRM: TIME:

RECEIVED BY: DATE: lab
PRINT NAME: FIRM: TIME: 14:45

ADDITIONAL REMARKS:

TEMP: 5.1

PAGE OF

COC Rev 9. 1 99

SCOEPA00025817

TestAmerica Sample Receipt Checklist

Received by: *(section A)* Date: 5/3/07 Time: 1:25 Initials: JL

Unpacked by: *(section B)* Date: 5/3/07 Initials: HB

Logged-in by: Date: 513 Initials: SM

Work Order No. PQE0170 Cooler ID(s): _____

Client: Siltronics

Project: No

Temperature out of range:
___No Ice
___Ice Melted
___Win 4 Hours
___Other: _____

***ESI Clients *(see Section C)*

Cooler Temperature (IR): 2.1 °C plastic / glass NA *(oil/air samples, ESI client)*

A

Custody Seals: (#____)

Signature: Y N Dated: _____

X None

Container Type:

1 #Cooler(s)

____#Box(s)

____None (___#Other: _____)

Coolant Type:

X Gel Ice

X Loose Ice

____None

Packing Material:

____Bubble Bags

____Styrofoam Cubbies

____None (1 Other: Box)

Received by:

X TA Courier

____Senvoy

____UPS

____Fed Ex

____Client

____TDP

____DHL

____SDS

____Mid-Valley

____GS/TA

____GS/Senvoy

____Other: _____

B

Sample Status:

(If N circled, see NOD)

General:

Intact?	(Y)	N	
# Containers Match COC?	(Y)	N	none given
IDs Match COC?	(Y)	N	

For Analyses Requested:

Correct Type & Preservation?	(Y)	N	
Adequate Volume?	(Y)	N	
Within Hold Time?	(Y)	N	

Volatiles:

Voas Free of Headspace?	Y	N	(NA)
TB on COC? not provided	Y	N	(NA)

Metals:

HNO3 Preserved?	(Y)	N	NA

C

***ESI Clients Only:

Temperature Blank: _____°C not provided

All preserved bottles checked Y N NA *(voas)*

All preserved accordingly? Y N *(see NOD)* NA *(voas)*

Army Corp: Geiger (ticks/min): ____ ____ ____ ____

Temperatures (IR): _____°C _____°C _____°C _____°C

(left) (middle) (right) (air)

Project Managers:

Comments: _____

PM Reviewed: _____ *(Initial/Date)*

SCOEPA00025818

Rec'd; 5/25/07 Di

TestAmerica
ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

May 25, 2007

Thomas Rothschild
Siltronic
7200 N.W. Front Ave
Portland, OR 97210

RE: Storm Water

Enclosed are the results of analyses for samples received by the laboratory on 05/23/07 14:15. The following list is a summary of the Work Orders contained in this report, generated on 05/25/07 16:28.

If you have any questions concerning this report, please feel free to contact me.

Work Order	Project	ProjectNumber
PQE0900	Storm Water	PO# 4500186654

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Brian Cone, Industrial Services Manager

SCOEPA00025819

TestAmerica
ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Storm Water**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	05/25/07 16:28

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
07-68-SW-E	PQE0900-01	Water	05/21/07 14:20	05/23/07 14:15
07-69-SW-S	PQE0900-02	Water	05/21/07 14:20	05/23/07 14:15

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Brian Cone, Industrial Services Manager

SCOEPA00025820

TestAmerica
ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Storm Water**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	05/25/07 16:28

Oil and Grease Analysis per EPA Method 1664

TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQE0900-01 (07-68-SW-E)		**Water**				**Sampled: 05/21/07 14:20**				
Oil & Grease	EPA 1664	ND	----	4.13	mg/l	1x	7051196	05/24/07 13:05	05/24/07 17:01	
PQE0900-02 (07-69-SW-S)		**Water**				**Sampled: 05/21/07 14:20**				
Oil & Grease	EPA 1664	ND	----	4.08	mg/l	1x	7051196	05/24/07 13:05	05/24/07 17:01	

TestAmerica - Portland, OR

Brian Cone, Industrial Services Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

SCOEPA00025821

TestAmerica
ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Storm Water**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	05/25/07 16:28

Oil and Grease Analysis per EPA Method 1664 - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 7051196 **Water Preparation Method: O&G prep CE**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7051196-BLK1)								**Extracted: 05/24/07 10:30**						
Oil & Grease	EPA 1664	ND	---	5.00	mg/l	1x	--	--	--	--	--	--	05/24/07 17:01	
LCS (7051196-BS1)								**Extracted: 05/24/07 10:30**						
Oil & Grease	EPA 1664	37.4	---		mg/l	1x	--	40.2	93.0%	(78-114)	--	--	05/24/07 17:01	

TestAmerica - Portland, OR

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Brian Cone, Industrial Services Manager

SCOEPA00025822

TestAmerica
ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Storm Water**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	05/25/07 16:28

Notes and Definitions

Report Specific Notes:

None

Laboratory Reporting Conventions:

DET	-	Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
ND	-	Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
NR/NA	-	Not Reported / Not Available
dry	-	Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
wet	-	Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
RPD	-	RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
MRL	-	METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
MDL*	-	METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
Dil	-	Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
Reporting Limits	-	Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
Electronic Signature	-	Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy.* Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Brian Cone, Industrial Services Manager

SCOEPA00025823

TestAmerica
ANALYTICAL TESTING CORPORATION

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9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 (503) 906-9200 FAX 906-9210
20354 Empire Avenue, Suite E-9, Bend, OR 97708-1883 (541) 383-9310 FAX 382-7588

CHAIN OF CUSTODY REPORT

Work Order #: PQE7100

CLIENT: SILTRONIC CORPORATION
REPORT TO: TOM ROTHSCHILD
ADDRESS: 7200 NW FRONT AVE
PORTLAND, OREGON 97210
PHONE: 503-219-7374 FAX: 503-219-4144

INVOICE TO: ACCOUNTS PAYABLE
7200 NW FRONT AVE
PORTLAND, OREGON 97210

P.O. NUMBER: 4500186654

PROJECT NAME: Stormwater Spring 2007
PROJECT NUMBER:
SAMPLED BY: Dianne Irish, Justin Darr, Tom Rothschild

TURNAROUND REQUEST in Business Days *
Organic & Inorganic Analyses: [10] [7] [5] [4] [3] [2] [1] [<1]
STD. Petroleum Hydrocarbon Analyses: [5] [4] [3] [X] [1] [<1]
STD. [OTHER] Specify:
* Turnaround Requests less than standard may incur Rush Charges

CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	Oil & Grease (EPA 1664)	Total Cu (EPA200.8)	Total Pb (EPA200.8)	Total Zn (EPA200.8)	MATRIX (W, S, O)	# OF CONT.	COMMENTS	NCA WO ID
1. 07-68-SW-E	5-21-07 / 1420	X				W	1		
2. 07-69-SW-S	5-21-07 / 1420	X				W	1		
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									

REQUESTED ANALYSES

RELINQUISHED BY: Dianne Irish DATE: 5/23/07
PRINT NAME: DIANNE IRISH FIRM: Siltronic TIME: 12:00
RECEIVED BY: Bob F DATE: 5/23/07
PRINT NAME: Bob F FIRM: TAP TIME: 12:00

RELINQUISHED BY: DATE:
PRINT NAME: FIRM: TIME:
RECEIVED BY: DATE: Lab
PRINT NAME: FIRM: TIME: 14:15

ADDITIONAL REMARKS:
TEMP: 5.6
PAGE OF

COC Rev 9, 1.99

SCOEPA00025824

TestAmerica Sample Receipt Checklist

Cooler IDs: _____

Received by: *(section A)
Date: 5-23-07
Time: 13:00
Initials: [illegible]

Unpacked by: *(section B)
Date: 5/23/07
Initials: [illegible]

Logged-in by:
Date: 5/23/07
Initials: [illegible]

Work Order No. PKE0900
Client: S. Hennig
Project: Storm Water Spring 2007

Temperature out of range:
___No Ice
___Ice Melted
___W/in 4 Hours
___Other: _____

***ESI Clients *(see Section C)*

Cooler Temperature (IR): 5.6 °C (plastic) glass NA *(oil/air samples, ESI client)*

A

Custody Seals: (#___)

Signature: (Y) N Dated: 5-23-07
___None

Container Type:
1 #Cooler(s)
___#Box(s)
___None (___#Other:_____)

Coolant Type:
___Gel Ice
X Loose Ice
___None

Packing Material:
___Bubble Bags
___Styrofoam Cubbies
___None (___Other: plastic)

Received from:
X TA Courier
___Senvoy
___UPS
___Fed Ex
___Client
___TDP
___DHL
___SDS
___Mid-Valley
___GS/TA
___GS/Senvoy
___Other:_____

B

Sample Status:
(If N circled, see NOD)

General:			
Intact?	(Y)	N	
# Containers Match COC?	(Y)	N	none given
IDs Match COC?	(Y)	N	
For Analyses Requested:			
Correct Type & Preservation?	(Y)	N	
Adequate Volume?	(Y)	N	
Within Hold Time?	(Y)	N	
Volatiles:			
VOAs Free of Headspace?	Y	N	(NA)
TB on COC? not provided	Y	N	(NA)
Metals:			
HNO3 Preserved?	Y	N	(NA)

C

***ESI Clients Only:

Temperature Blank: _____°C not provided

All preserved bottles checked Y N NA *(voas/soils/all unp.)*
All preserved accordingly? Y N *(see NOD)* NA *(voas/soils/all unp.)*

Army Corp: Geiger (ticks/min): ___ ___ ___ ___

Temperatures (IR): _____°C _____°C _____°C _____°C
(left) (middle) (right) (air)

Project Managers:

Comments: _____

PM Reviewed: _____ *(Initial/Date)*

SCOEPA00025825

BENCHSHEET

TOTAL SUSPENDED SOLIDS (TSS)

Sample Date: 5.2.07 Oven Temp: 105 C Analyst: Di

Date In: 5.3.07 Time In/Out: 1135 / 1300

Tin #	Sample	Vol, ml	Gross Wt, g	Tare Wt, g	TSS, mg/L
1	Blank	N/A	0.0905	0.0905	
6	North	200	0.0953	0.0901	26
7	North	200	0.0951	0.0897	27
				North Average TSS	26.5
8	East	200	0.0946	0.0893	26.5
9	East	200	0.0955	0.0900	27.5
				East Average TSS	27
13	South	200	0.0966	0.0899	33.5
14	South	200	0.0978	0.0910	34
				South Average TSS	33.75

Notes: TSS Peels on back - Di

Calculation: TSS, mg/L = $\frac{\text{(Gross Wt, mg - Tare Wt, mg) X 1000}}{\text{Volume of Sample, ml}}$

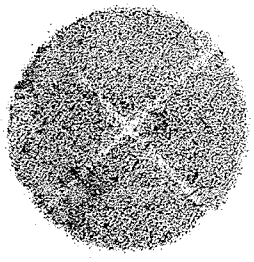
Note: NPDES permit: monthly avg. 23 mg/L, daily max. 61 mg/L.
POTW permit: daily max 350 mg/L.

Reference: 1. Standard Methods for the Examination of Water and Wastewater, 1998, 20th Edition, Section 2540 D, page 2-57.
2. National Pollution Discharge Elimination System Permit #101128.

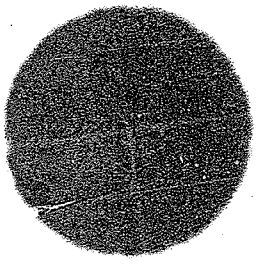
TJR 21 Mar 1987
DEI 12 Nov 2003 Revised

N:\Environmental\FACLAB\DIANNES\storm water\TSSSWB.DOC

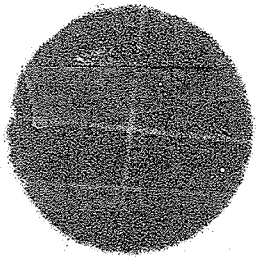
North -



East -



South



BENCHSHEET

pH

Test Date: 5-2-07 Sample Date: 5-7-07 Analyst: DI

Slope: 100.2 (Range: 92 to 102%)

Standards:

4.0 mg/L: Lot #: 1603735 Date Opened: 8/2/06

7.0 mg/L: Lot #: 1504752 Date Opened: 11/1/05

10.0 mg/L: Lot #: 1608475 Date Opened: 2/1/07

Sample	pH Units
North	5.63
East	6.14
South	5.97

Notes: _____

_____

_____

Reference: 1. Standard Methods For The Examination of Water And Wastewater, 1998, 20th Edition, Section 4500-H^+B page 4-87.

DEI 13 Aug 2003

N:\ENVIRONMENTAL\FACLAB\DIANNES\STORM WATER\PHB.DOC

Siltronic Corporation Storm Water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

DATE:	7-12-06		INITIAL:	DI TPW	
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Floating Solids	No visible discharge	Yes or No	No	No	No
Oil and Grease Sheen*	No visible sheen	Yes or No	No	No	No

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

STORM WATER SAMPLING – Semiannual:

DATE:		INITIAL:			
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Total Copper	0.1	mg/L			
Total Lead	0.4	mg/L			
Total Zinc	0.6	mg/L			
PH	5.5-9	Su			
TSS	130	mg/L			
Oil and Grease	10	mg/L			

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Koreen Lail in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Koreen Lail.

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Siltronic Corporation Storm Water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

DATE:	30 Aug 2006	0820-0830 (1)	INITIAL:	JJR	
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Floating Solids	No visible discharge	Yes or No	No	No	No
Oil and Grease Sheen*	No visible sheen	Yes or No	No	No	No

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

STORM WATER SAMPLING – Semiannual:

DATE:		INITIAL:			
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Total Copper	0.1	mg/L			
Total Lead	0.4	mg/L			
Total Zinc	0.6	mg/L			
PH	5.5-9	Su			
TSS	130	mg/L			
Oil and Grease	10	mg/L			

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Koreen Lail in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Koreen Lail.

N:\ENVIRONMENTAL\FACLAB\WWTP\LOG\STORMWATER.DOC

(1) Had just stopped raining. JJR

Siltronic Corporation Storm Water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

DATE:	29 Sep 2006		INITIAL:	3jR	
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Floating Solids	No visible discharge	Yes or No	(1)	(1)	(1)
Oil and Grease Sheen*	No visible sheen	Yes or No	(1)	(1)	(1)

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

STORM WATER SAMPLING – Semiannual:

DATE:		INITIAL:			
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Total Copper	0.1	mg/L			
Total Lead	0.4	mg/L			
Total Zinc	0.6	mg/L			
PH	5.5-9	Su			
TSS	130	mg/L			
Oil and Grease	10	mg/L			

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Koreen Lail in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Koreen Lail.

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(1) Insufficient Rain Fall during September 2006. 3jR

Siltronic Corporation Storm Water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

DATE:	31 Oct 2006		INITIAL:	JJR	
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Floating Solids	No visible discharge	Yes or No	(1)	(1)	(1)
Oil and Grease Sheen*	No visible sheen	Yes or No	(1)	(1)	(1)

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

STORM WATER SAMPLING – Semiannual:

DATE:		INITIAL:			
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Total Copper	0.1	mg/L			
Total Lead	0.4	mg/L			
Total Zinc	0.6	mg/L			
PH	5.5-9	Su			
TSS	130	mg/L			
Oil and Grease	10	mg/L			

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Koreen Lail in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Koreen Lail.

N:\ENVIRONMENTAL\FACLAB\WWTP\LOG\STORMWATER.DOC

(1) Insufficient Rain Fall during October 2006 JJR

Siltronic Corporation Storm Water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

DATE:	11/2/06		INITIAL: DT		
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Floating Solids	No visible discharge	Yes or No	No	YES	No
Oil and Grease Sheen*	No visible sheen	Yes or No	No	No	No

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

STORM WATER SAMPLING – Semiannual:

DATE:	11/2/06	INITIAL:	DT		
PARAMETER	**BENCHMARK[1]**	**UM**	North 06-96	East 06-98	South 06-97
Total Copper	0.1	mg/L	0.00911	0.604	0.00911
Total Lead	0.4	mg/L	0.00349	0.0125	0.00166
Total Zinc	0.6	mg/L	0.164	0.458	0.260
PH	5.5-9	Su	6.44	6.37	6.35
TSS	130	mg/L	18.2	78.2	9.6
Oil and Grease	10	mg/L	<3.97	<4.55	<4.9

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Koreen Lail in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Koreen Lail.

N:\ENVIRONMENTAL\FACLAB\WWTP\LOG\STORMWATER.DOC

Siltronic Corporation Storm Water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

DATE:	14 Dec 2006 (1300)	[1]	INITIAL:	JJR	
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Floating Solids	No visible discharge	Yes or No	No	No	No
Oil and Grease Sheen*	No visible sheen	Yes or No	No	No	No

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

STORM WATER SAMPLING – Semiannual:

DATE:		INITIAL:			
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Total Copper	0.1	mg/L			
Total Lead	0.4	mg/L			
Total Zinc	0.6	mg/L			
PH	5.5-9	Su			
TSS	130	mg/L			
Oil and Grease	10	mg/L			

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Koreen Lail in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Koreen Lail.

[1] Rainfall: ~0.7 inches 0800, 13 Dec 2006 to 0800, 14 Dec 2006
~0.4 inches 0800, 14 Dec 2006 to 1300, 14 Dec 2006

Siltronic Corporation Storm Water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

DATE:	31Jan 2007		INITIAL:	JJR	
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Floating Solids	No visible discharge	Yes or No	Insufficient Rain Fall		
Oil and Grease Sheen*	No visible sheen	Yes or No	↓	↓	↓

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

STORM WATER SAMPLING – Semiannual:

DATE:		INITIAL:			
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Total Copper	0.1	mg/L			
Total Lead	0.4	mg/L			
Total Zinc	0.6	mg/L			
PH	5.5-9	Su			
TSS	130	mg/L			
Oil and Grease	10	mg/L			

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Koreen Lail in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Koreen Lail.

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Siltronic Corporation Storm Water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

DATE:	14 Feb 2007 (1)(2)		INITIAL:	3gR	
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Floating Solids	No visible discharge	Yes or No	No	No	No
Oil and Grease Sheen*	No visible sheen	Yes or No	No	No	No

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

STORM WATER SAMPLING – Semiannual:

DATE:		INITIAL:			
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Total Copper	0.1	mg/L			
Total Lead	0.4	mg/L			
Total Zinc	0.6	mg/L			
PH	5.5-9	Su			
TSS	130	mg/L			
Oil and Grease	10	mg/L			

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Koreen Lail in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Koreen Lail.

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Note: (1) 0.39 inches of rain between ~0800, 14 Feb 2007 and ~0800, 15 Feb 2007. 3gR
(2) Inspected ~1400, 3gR

Siltronic Corporation Storm Water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

DATE:	30 Mar 2007		INITIAL:	3JR	
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Floating Solids	No visible discharge	Yes or No	Insufficient Rain Fall		
Oil and Grease Sheen*	No visible sheen	Yes or No	↓	↓	↓

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

STORM WATER SAMPLING – Semiannual:

DATE:		INITIAL:			
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Total Copper	0.1	mg/L			
Total Lead	0.4	mg/L			
Total Zinc	0.6	mg/L			
PH	5.5-9	Su			
TSS	130	mg/L			
Oil and Grease	10	mg/L			

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Koreen Lail in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Koreen Lail.

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Note: (1) Asked Facilities operators to do visual inspection on 31 Mar 2007 if it rained. 3JR

(2) Did not rain on 31 Mar 2007. 2 Apr 2007 3JR

Siltronic Corporation Storm Water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

DATE:	30 Apr 2007	(1)	INITIAL:	JJR	
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Floating Solids	No visible discharge	Yes or No	No	No	No
Oil and Grease Sheen*	No visible sheen	Yes or No	No	No	No

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

STORM WATER SAMPLING – Semiannual:

DATE:		INITIAL:			
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Total Copper	0.1	mg/L			
Total Lead	0.4	mg/L			
Total Zinc	0.6	mg/L			
PH	5.5-9	Su			
TSS	130	mg/L			
Oil and Grease	10	mg/L			

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Koreen Lail in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Koreen Lail.

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(1) 1400-1430. Not Raining. Visual Inspection of standing water. JJR

Siltronic Corporation Storm Water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

DATE:	5-2-07		INITIAL:	Di'	
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Floating Solids	No visible discharge	Yes or No	No	No	No
Oil and Grease Sheen*	No visible sheen	Yes or No	No	No	No

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

STORM WATER SAMPLING – Semiannual:

DATE:	5.2.07	INITIAL:	Di'		
PARAMETER	**BENCHMARK[1]**	**UM**	North 07-49-N	East 07-51-E	South 07-50-S
Total Copper	0.1	mg/L	0.022	0.0305	0.0112
Total Lead	0.4	mg/L	0.004	0.00618	0.00398
Total Zinc	0.6	mg/L	0.203	0.193	0.0309
PH	5.5-9	Su	5.63	6.14	5.97
TSS	130	mg/L	26.5	27	33.75
Oil and Grease	10	mg/L	<4.00	39.4 ①	sample bottle broke ①

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Koreen Lail in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Koreen Lail.

① Need to resample Oil+Grease

N:\ENVIRONMENTAL\FACLAB\WWTP\LOG\STORMWATER.DOC Resampled on 5/21/07

East # 07-68-SW-E = <4.13 mg/L

South # 07-69-SW-S; <4.08 mg/L

Siltronic Corporation Storm Water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

DATE:	6/24/07		INITIAL:	RB	
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Floating Solids	No visible discharge	Yes or No	No	No	No
Oil and Grease Sheen*	No visible sheen	Yes or No	No	No	No

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

STORM WATER SAMPLING – Semiannual:

DATE:		INITIAL:			
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Total Copper	0.1	mg/L			
Total Lead	0.4	mg/L			
Total Zinc	0.6	mg/L			
PH	5.5-9	Su			
TSS	130	mg/L			
Oil and Grease	10	mg/L			

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Koreen Lail in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Koreen Lail.

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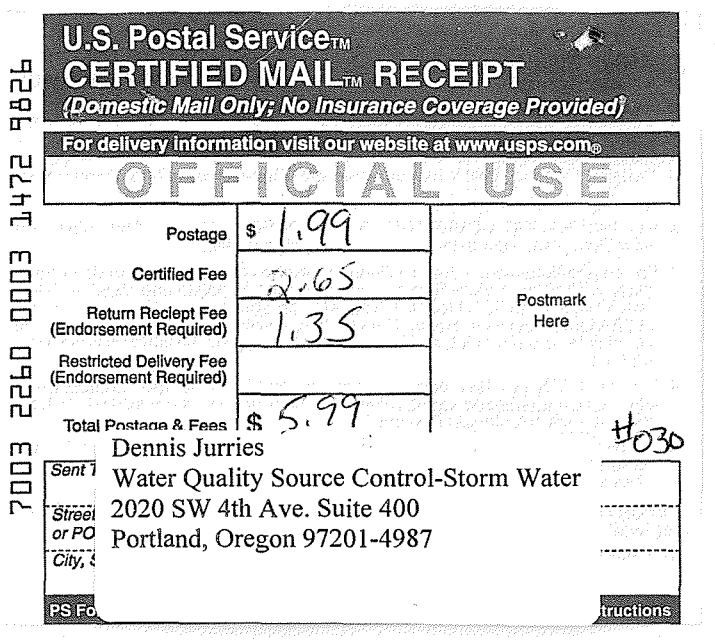

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Dennis Jurries
Water Quality Source Control-Storm Water
2020 SW 4th Ave. Suite 400
Portland, Oregon 97201-4987

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Dennis Jurries
Water Quality Source Control-Storm Water
2020 SW 4th Ave. Suite 400
Portland, Oregon 97201-4987

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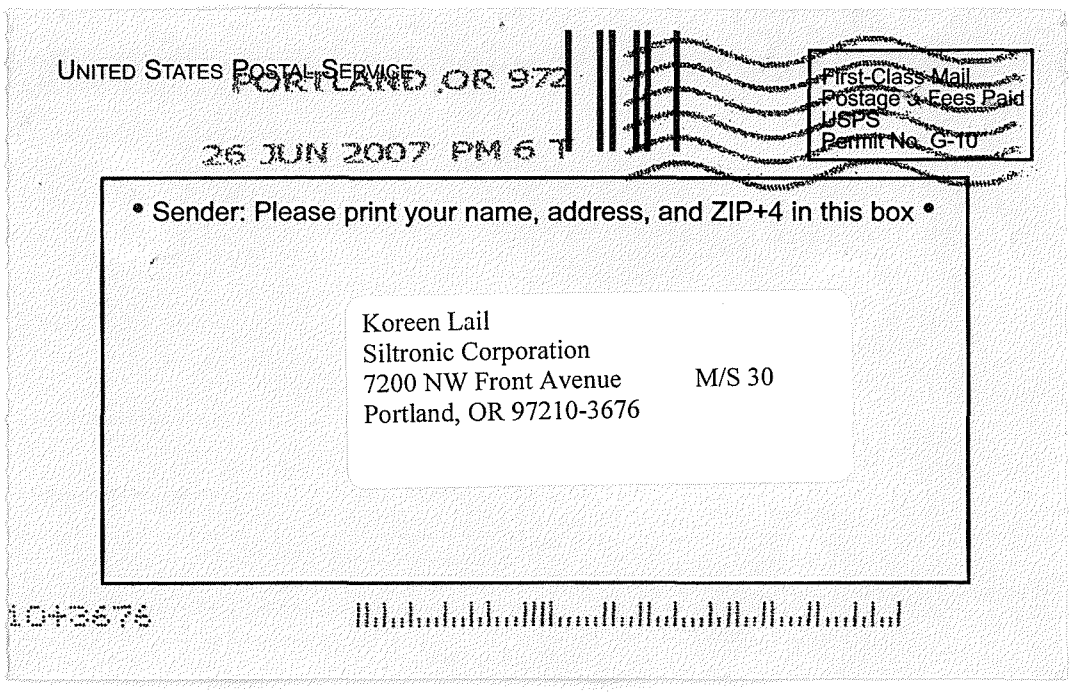
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Koreen Lail
Siltronic Corporation
7200 NW Front Avenue M/S 30
Portland, OR 97210-3676
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Koreen Lail
Environmental Affairs

Siltronic Corporation
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Portland OR 97210-3676, USA
Tel. 503-219-7994
Fax 503-219-7599
koreen.lail@siltronic.com

ER:030KLL

Mr. Dennis Jurries, PE
Oregon Department of Environmental Quality
Water Quality Source Control Storm Water
2020 SW 4th Avenue, Suite 400
Portland, Oregon 97201-4987

June 1st, 2007

Industrial Storm Water NPDES 1200-Z Monitoring Report for July 1, 2006 to June 30, 2007

Dear Mr. Jurries,

Attached is Siltronic Corporation's Industrial Storm Water NPDES 1200-Z Monitoring Report for July 1, 2006 to June 30, 2007 as required by Siltronic's NPDES Storm Water Discharge Permit number 1200-Z issued October 1, 2002. Sampling was conducted November 2, 2006, May 2, 2007, and May 21, 2007.

The November 2, 2006, sampling of the east sample point indicated an exceedance of the benchmark for copper. Upon investigation, it was determined that the sample tube at the east storm water collection site was drawing its sample from the bottom of the pipe instead of midflow. This observation is supported by the TSS data which is higher than usual but below the benchmark. A work order was written to shorten the line 3 inches and Metro Rooter was called out to clean out the catch basin/manhole where the sample was taken.

During the May 3rd, sampling event, the south sample point oil and grease bottle was broken before the tests could be run. Additionally, the east sample was above benchmark for oil and grease. Upon investigation of the east sample point, it was determined that the bottle probably hit the bottom of the pipe during the sampling process since the depth of the water was low. The oil & grease samples for both the east and south sample points were re-taken on May 21st. The east oil & grease sample was taken from the end of the outfall pipe in order to avoid the prior issue.

Our investigation of the east sampling point also indicated that the outfall is somewhat obstructed by rocks and tress which tends to back up the flow in the storm water line. We are currently looking into how to remove this obstruction. After removal of this obstruction, we are also considering permanently moving our east sampling point to this outfall location in order to improve the sampling technique.

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The following materials are enclosed in this report:

1. A summary of the results for 2006-2007 including sample results, bench marks, detection limits and analytical methods used.
2. Siltronic Corporation laboratory bench sheets for TSS and pH.
3. Copies of outside laboratory reports including the chain of custody forms for copper, lead, zinc, and total oil & grease.

If you have any questions or comments, please contact me.

Best regards,

Koreen Lail
Siltronic Corporation
Environmental Affairs

CC: Loren Shelley
BES Storm Water File
Tom Rothschild

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Summary of Results for 2006 - 2007

PARAMETER	Sample date	North results	South results	East results	BENCH MARK	Units	Detection limit	Method & Comments
Copper	11/2/06	0.00911	0.00911	0.604	0.1	mg/L	0.03	EPA 200.8 (11/2 exceedance due to sample tube at the east storm water collection site drawing its sample from the bottom of the pipe instead of midflow).
	5/2/07	0.0220	0.0112	0.0305				
Lead	11/2/06	0.00349	0.00166	0.0125	0.4	mg/L	0.005	EPA 200.8
	5/2/07	0.00400	0.00398	0.00618				
Zinc	11/2/06	0.164	0.260	0.458	0.6	mg/L	0.05	EPA 200.8
	5/2/07	0.203	0.0309	0.193				
pH	11/2/06	6.44	6.35	6.37	5.5-9	pH units	0.1	Standards Methods 1998, 20th ed, Section 4500-H^+
	5/2/07	5.63	5.97	6.14				
TSS	11/2/06	18.2	9.6	78.2	130	mg/L	0.1	Standards Methods 1998, 20th ed, Section 2540 D (11/2 increase in TSS due to sample tube at the east storm water collection site drawing its sample from the bottom of the pipe instead of midflow)
	5/2/07	26.5	33.8	27.0				
Oil and Grease	11/2/06	<3.97	<4.9	<4.55	10	mg/L	3	EPA 1664A (5/2 n/a on south sample point oil and grease due to bottle being broken 5/2 exceedance at east sample point, probably due to hitting the bottom of the pipe during the sampling process because the depth of the water was low.
	5/2/07	<4.00	n/a	39.4				
Oil and Grease resample	5/21/07	n/a	<4.08	<4.13	10	mg/L	3	EPA 1664A (retest for oil and grease)

Industrial Source Control Division

INDUSTRIAL STORMWATER

NPDES 1200-Z MONITORING REPORT

Industry Name: Siltronic Corporation

Site Address: 7200 NW Front Ave., Portland, OR 97210-3676

The permittee shall monitor stormwater **twice** per year for the parameters outlined in their NPDES 1200-Z Stormwater Discharge Permit Schedule B.1.a., and submit results to the City as stated in Schedule D.2.

Stormwater samples were taken for the above permittee, on these days and at these sample points:

Sample Date(s)	Sample Point(s)
11/2/06	North, East, South
5/2/07	North, East, South
5/21/07	East, South

The permittee shall submit by **July 15** of each year a copy of the **laboratory analysis reports**, which show analytical methods and detection limits, for stormwater samples collected for the previous monitoring year (July 1- June 30).

☐ **Monitoring Waiver Reduction Notification**:
Check the box if your facility is exercising a waiver of monitoring based on meeting benchmarks listed in Schedule A.9., AND site conditions have not changed to impact stormwater run-off. Note: This does not exclude your facility from notifying DEQ about the waiver of monitoring. Please read Schedule B of the permit to clearly understand the monitor waiver reduction guidelines. If waiver request is for select pollutants, list the parameters excluded from monitoring: _____.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: Karen Said for Siltronic
Title: Environmental Engineer
Date: 6/11/07

Revised 6/1/2007

RECEIVED NOV 17 2006

TestAmerica
ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

November 15, 2006

Thomas Rothschild
Siltronic
7200 N.W. Front Ave
Portland, OR 97210

RE: Storm Water

Enclosed are the results of analyses for samples received by the laboratory on 11/02/06 17:10. The following list is a summary of the Work Orders contained in this report, generated on 11/15/06 18:08.

If you have any questions concerning this report, please feel free to contact me.

Work Order	Project	ProjectNumber
PPK0120	Storm Water	PO# 4500186654

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Brian Cone, Industrial Services Manager

SCOEPA00025848

TestAmerica
ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Storm Water**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	11/15/06 18:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
06-96-SW-N	PPK0120-01	Water	11/02/06 09:15	11/02/06 17:10
06-97-SW-S	PPK0120-02	Water	11/02/06 08:45	11/02/06 17:10
06-98-SW-E	PPK0120-03	Water	11/02/06 09:50	11/02/06 17:10
06-97-SW-SA	PPK0120-04	Water	11/02/06 08:45	11/02/06 17:10

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Brian Cone, Industrial Services Manager

SCOEPA00025849

TestAmerica
ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Storm Water**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	11/15/06 18:08

Total Metals by EPA 200 Series Methods

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PPK0120-01 (06-96-SW-N)		**Water**			**Sampled: 11/02/06 09:15**					
Copper	EPA 200.8	**0.00911**	----	0.00100	mg/l	1x	6K08050	11/08/06 13:23	11/09/06 16:03	
Lead	"	**0.00349**	----	0.00100	"	"	"	"	"	
Zinc	"	**0.164**	----	0.0100	"	"	"	"	"	
PPK0120-02 (06-97-SW-S)		**Water**			**Sampled: 11/02/06 08:45**					
Copper	EPA 200.8	**0.00911**	----	0.00100	mg/l	1x	6K08050	11/08/06 13:23	11/09/06 16:09	
Lead	"	**0.00166**	----	0.00100	"	"	"	"	"	
Zinc	"	**0.260**	----	0.0100	"	"	"	"	"	
PPK0120-03 (06-98-SW-E)		**Water**			**Sampled: 11/02/06 09:50**					
Lead	EPA 200.8	**0.0125**	----	0.00100	mg/l	1x	6K08050	11/08/06 13:23	11/09/06 16:26	
PPK0120-03RE1 (06-98-SW-E)		**Water**			**Sampled: 11/02/06 09:50**					
Copper	EPA 200.8	**0.604**	----	0.00200	mg/l	2x	6K08050	11/08/06 13:23	11/10/06 06:22	
Zinc	"	**0.458**	----	0.0200	"	"	"	"	"	

TestAmerica - Portland, OR

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Brian Cone, Industrial Services Manager

SCOEPA00025850

TestAmerica
ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Storm Water**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	11/15/06 18:08

Conventional Chemistry Parameters by APHA/EPA Methods

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PPK0120-01 (06-96-SW-N)		**Water**				**Sampled: 11/02/06 09:15**				
Oil & Grease (HEM)	EPA 1664A	ND	----	3.97	mg/l	1x	6K08023	11/08/06 09:32	11/08/06 18:21	
PPK0120-02 (06-97-SW-S)		**Water**				**Sampled: 11/02/06 08:45**				
Oil & Grease (HEM)	EPA 1664A	ND	----	4.90	mg/l	1x	6K08023	11/08/06 09:32	11/08/06 18:21	
PPK0120-03 (06-98-SW-E)		**Water**				**Sampled: 11/02/06 09:50**				
Oil & Grease (HEM)	EPA 1664A	ND	----	4.55	mg/l	1x	6K08023	11/08/06 09:32	11/08/06 18:21	
PPK0120-04 (06-97-SW-SA)		**Water**				**Sampled: 11/02/06 08:45**				
Oil & Grease (HEM)	EPA 1664A	**10.1**	----	3.97	mg/l	1x	6K08023	11/08/06 09:32	11/08/06 18:21	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Brian Cone, Industrial Services Manager

SCOEPA00025851

TestAmerica
ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Storm Water**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	11/15/06 18:08

Total Metals by EPA 200 Series Methods - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6K08050 **Water Preparation Method: EPA 200 Series**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6K08050-BLK1)								**Extracted: 11/08/06 13:23**						
Copper	EPA 200.8	ND	---	0.00100	mg/l	1x	--	--	--	--	--	--	11/09/06 14:04	
Lead	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Zinc	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
LCS (6K08050-BS1)								**Extracted: 11/08/06 13:23**						
Zinc	EPA 200.8	0.0903	---	0.0100	mg/l	1x	--	0.0800	113%	(85-115)	--	--	11/09/06 14:10	
Lead	"	0.0810	---	0.00100	"	"	--	"	101%	"	--	--	"	
Copper	"	0.0808	---	0.00100	"	"	--	"	101%	"	--	--	"	
Duplicate (6K08050-DUP1)				**QC Source: BPK0143-01**				**Extracted: 11/08/06 13:23**						
Lead	EPA 200.8	0.00105	---	0.00100	mg/l	1x	0.00109	--	--	--	3.74%	(20)	11/09/06 14:27	
Copper	"	0.00290	---	0.00100	"	"	0.00321	--	--	--	10.1%	"	"	
Duplicate (6K08050-DUP2)				**QC Source: BPK0143-01RE1**				**Extracted: 11/08/06 13:23**						
Zinc	EPA 200.8	0.518	---	0.0200	mg/l	2x	0.516	--	--	--	0.387%	(20)	11/10/06 06:04	
Matrix Spike (6K08050-MS1)				**QC Source: BPK0143-01**				**Extracted: 11/08/06 13:23**						
Lead	EPA 200.8	0.0826	---	0.00100	mg/l	1x	0.00109	0.0800	102%	(75-125)	--	--	11/09/06 14:16	
Copper	"	0.0832	---	0.00100	"	"	0.00321	"	100%	"	--	--	"	
Matrix Spike (6K08050-MS2)				**QC Source: BPK0147-01**				**Extracted: 11/08/06 13:23**						
Lead	EPA 200.8	0.0818	---	0.00100	mg/l	1x	0.000270	0.0800	102%	(75-125)	--	--	11/09/06 14:22	
Zinc	"	0.166	---	0.0100	"	"	0.0850	"	101%	"	--	--	"	
Copper	"	0.0836	---	0.00100	"	"	0.00254	"	101%	"	--	--	"	
Matrix Spike (6K08050-MS3)				**QC Source: BPK0143-01RE1**				**Extracted: 11/08/06 13:23**						
Copper	EPA 200.8	0.0813	---	0.00200	mg/l	2x	0.00321	0.0800	97.6%	(75-125)	--	--	11/10/06 05:58	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Brian Cone, Industrial Services Manager

SCOEPA00025852

TestAmerica
ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Storm Water**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	11/15/06 18:08

Conventional Chemistry Parameters by APHA/EPA Methods - Laboratory Quality Control Results

TestAmerica - Seattle, WA

QC Batch: 6K08023 **Water Preparation Method: Gravimetric (hexane)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6K08023-BLK1)													**Extracted: 11/08/06 09:32**	
Oil & Grease (HEM)	EPA 1664A	ND	---	5.00	mg/l	1x	--	--	--	--	--	--	11/08/06 18:21	
LCS (6K08023-BS1)													**Extracted: 11/08/06 09:32**	
Oil & Grease (HEM)	EPA 1664A	36.9	---	5.00	mg/l	1x	--	40.0	92.2%	(78-114)	--	--	11/08/06 18:21	
LCS Dup (6K08023-BSD1)													**Extracted: 11/08/06 09:32**	
Oil & Grease (HEM)	EPA 1664A	39.0	---	5.00	mg/l	1x	--	40.0	97.5%	(78-114)	5.53%	(18)	11/08/06 18:21	

TestAmerica - Portland, OR

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Brian Cone, Industrial Services Manager

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11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244 425-420-9200 FAX ...-9210
11922 E. First Ave, Spokane, WA 99206-5302 509-924-9200 FAX 924-9290
9405 SW Nimbus Ave, Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #:

CLIENT: Siltronic

INVOICE TO: Accts. Payable

REPORT TO: Tom Rothschild
ADDRESS: 7200 NW Front Ave
Portland, OR
PHONE: 503-219-7371 FAX: 503-219-4144

P.O. NUMBER: 4500186654

PROJECT NAME: STORM WATER. FALL 06

PROJECT NUMBER: 96-98

SAMPLED BY: TR/PW

TURNAROUND REQUEST
in Business Days *
Organic & Inorganic Analyses: [X] STD. | 7 | 5 | 4 | 3 | 2 | 1 | <1
Petroleum Hydrocarbon Analyses: 5 STD. | 4 | 3 | 2 | 1 | <1
OTHER Specify:
* *Turnaround Requests less than standard* may incur Rush Charges.

CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	PRESERVATIVE	REQUESTED ANALYSES: O&G (1664)	Cu 200.8	Pb 200.8	Zn 200.8	MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	TA WO ID
1 06-96-SW-N	11/2/06 0915		X	X	X	X	2			
2 06-97-SW-S	11/2/06 0845		X	X	X	X	2			
3 06-98-SW-E	11/2/06 0950		X	X	X	X	2			
4 06-97-SW-SA	11/2/06 0845		X				1			
5										
6										
7										
8										
9										
10										

RELEASED BY: Dianne Drish
PRINT NAME: Dianne Drish FIRM: Siltronic DATE: 11/2/06 TIME: 13:33

RECEIVED BY: Bob E
PRINT NAME: Bob E FIRM: TAP DATE: 11/2/06 TIME: 13:33

RELEASED BY: PRINT NAME: FIRM: DATE: TIME:

RECEIVED BY: PRINT NAME: FIRM: DATE: TIME:

ADDITIONAL REMARKS:

TEMP:

COC REV 05/2006

PAGE OF

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and for any additional analyses performed on this project.
Payment for services is due within 30 days from the date of invoice unless otherwise contracted. Sample(s) will be disposed of after 30 days unless otherwise contracted.

SCOEPA00025854

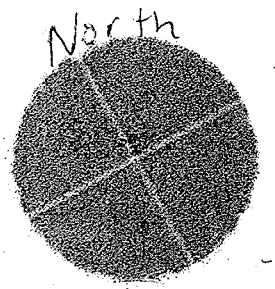
BENCHSHEET

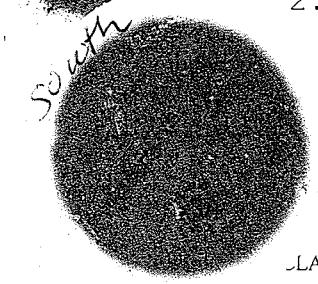
TOTAL SUSPENDED SOLIDS (TSS)

Sample Date: 11/2/06 Oven Temp: 104 C Analyst: DI

Date In: 11/2/06 Time In/Out: 1015 / 1310

Tin #	Sample	Vol, ml	Gross Wt, g	Tare Wt, g	TSS, mg/L
1	Blank	NA	0.0901	0.0901	0
6	North	500	0.0980	0.0892	17.6
7	North	500	0.0990	0.0896	18.8
				North Average TSS	18.2
10	East	250	0.1074	0.0891	73.2
13	East	250	0.1079	0.0871	83.2
				East Average TSS	78.2
8	South	500	0.0963	0.0914	9.8
9	South	500	0.0945	0.0898	9.4
				South Average TSS	9.6





ion: TSS, mg/L = $\frac{\text{(Gross Wt, mg - Tare Wt, mg) X 1000}}{\text{Volume of Sample, ml}}$

DES permit: monthly avg. 23 mg/L, daily max. 61 mg/L.
W permit: daily max 350 mg/L.

1. Standard Methods for the Examination of Water and Wastewater, 1998, 20th Edition, Section 2540 D, page 2-57.
2. National Pollution Discharge Elimination System Permit #101128.

TJR 21 Mar 1987
DEI 12 Nov 2003 Revised

LAB\DIANNES\storm water\TSSSWB.DOC

BENCHSHEET

pH

Test Date: 11.2.06 Sample Date: 11.2.06 Analyst: DI

Slope: 100.1 (Range: 92 to 102%)

Standards:

4.0 mg/L: Lot #: 1603735 Date Opened: 8/18/06

7.0 mg/L: Lot #: 1504752 Date Opened: 11/1/05

10.0 mg/L: Lot #: 1506586 Date Opened: 4/6/06

Sample	pH Units
North	6.44
East	6.37
South	6.35

Notes: _____

_____

_____

Reference:1. Standard Methods For The Examination of Water And Wastewater, 1998, 20th Edition, Section 4500-H^+B page 4-87.

DEI 13 Aug 2003

N:\ENVIRONMENTAL\FACLAB\DIANNES\STORM WATER\PHB.DOC

SCOEPA00025856

Siltronic Corporation Storm Water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

DATE:	11/2/06		INITIAL: DH		
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Floating Solids	No visible discharge	Yes or No	No	YES	No
Oil and Grease Sheen*	No visible sheen	Yes or No	No	No	No

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

STORM WATER SAMPLING – Semiannual:

DATE:	11/2/06	INITIAL:	DH		
PARAMETER	**BENCHMARK[1]**	**UM**	North 06-96	East 06-98	South 06-97
Total Copper	0.1	mg/L	0.00911	0.604	0.00911
Total Lead	0.4	mg/L	0.00349	0.0125	0.00166
Total Zinc	0.6	mg/L	0.164	0.458	0.260
PH	5.5-9	Su	6.44	6.37	6.35
TSS	130	mg/L	18.2	78.2	9.6
Oil and Grease	10	mg/L	<3.97	<4.55	<4.9

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Koreen Lail in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Koreen Lail.

N:\ENVIRONMENTAL\FACLAB\WWTP\LOG\STORMWATER.DOC

RECEIVED MAY 17 2007

TJR

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ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

May 16, 2007

Thomas Rothschild
Siltronic
7200 N.W. Front Ave
Portland, OR 97210

RE: Storm Water

Enclosed are the results of analyses for samples received by the laboratory on 05/03/07 14:45. The following list is a summary of the Work Orders contained in this report, generated on 05/16/07 18:35.

If you have any questions concerning this report, please feel free to contact me.

Work Order	Project	ProjectNumber
PQE0170	Storm Water	Spring 2007

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Brian L Cone

Brian Cone, Industrial Services Manager

SCOEPA00025858

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BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Storm Water**	
7200 N.W. Front Ave	Project Number:	Spring 2007	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	05/16/07 18:35

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
07-49-N	PQE0170-01	Water	05/02/07 12:45	05/03/07 14:45
07-50-S	PQE0170-02	Water	05/02/07 13:00	05/03/07 14:45
07-51-E	PQE0170-03	Water	05/02/07 13:15	05/03/07 14:45

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ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Storm Water**	
7200 N.W. Front Ave	Project Number:	Spring 2007	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	05/16/07 18:35

Oil and Grease Analysis per EPA Method 1664

TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQE0170-01 (07-49-N)		**Water**				**Sampled: 05/02/07 12:45**				
Oil & Grease	EPA 1664	ND	----	4.00	mg/l	1x	7050531	05/10/07 14:10	05/11/07 16:01	
PQE0170-03 (07-51-E)		**Water**				**Sampled: 05/02/07 13:15**				
Oil & Grease	EPA 1664	**39.4**	----	4.00	mg/l	1x	7050531	05/10/07 14:10	05/11/07 16:01	

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Brian Cone, Industrial Services Manager

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BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Storm Water**	
7200 N.W. Front Ave	Project Number:	Spring 2007	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	05/16/07 18:35

Total Metals per EPA 200 Series Methods

TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQE0170-01 (07-49-N)		**Water**			**Sampled: 05/02/07 12:45**					
Copper	EPA 200.8	**0.0220**	----	0.00200	mg/l	1x	7050312	05/07/07 11:05	05/11/07 21:31	
Lead	"	**0.00400**	----	0.00100	"	"	"	"	"	
Zinc	"	**0.203**	----	0.00500	"	"	"	"	"	
PQE0170-02 (07-50-S)		**Water**			**Sampled: 05/02/07 13:00**					
Copper	EPA 200.8	**0.0112**	----	0.00200	mg/l	1x	7050312	05/07/07 11:05	05/11/07 21:47	
Lead	"	**0.00398**	----	0.00100	"	"	"	"	"	
Zinc	"	**0.0309**	----	0.00500	"	"	"	"	"	
PQE0170-03 (07-51-E)		**Water**			**Sampled: 05/02/07 13:15**					
Copper	EPA 200.8	**0.0305**	----	0.00200	mg/l	1x	7050312	05/07/07 11:05	05/11/07 22:02	
Lead	"	**0.00618**	----	0.00100	"	"	"	"	"	
Zinc	"	**0.193**	----	0.00500	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Brian Cone, Industrial Services Manager

SCOEPA00025861

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Storm Water**	
7200 N.W. Front Ave	Project Number:	Spring 2007	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	05/16/07 18:35

Oil and Grease Analysis per EPA Method 1664 - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 7050531 **Water Preparation Method: O&G prep CE**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7050531-BLK1)								**Extracted: 05/10/07 12:10**						
Oil & Grease	EPA 1664	ND	---	5.00	mg/l	1x	--	--	--	--	--	--	05/11/07 16:01	
LCS (7050531-BS1)								**Extracted: 05/10/07 12:10**						
Oil & Grease	EPA 1664	36.8	---		mg/l	1x	--	40.2	91.5%	(78-114)	--	--	05/11/07 16:01	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Brian Cone, Industrial Services Manager

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Storm Water**	
7200 N.W. Front Ave	Project Number:	Spring 2007	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	05/16/07 18:35

Total Metals per EPA 200 Series Methods - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 7050312 **Water Preparation Method: EPA 200/3005**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7050312-BLK1)								Extracted: 05/07/07 11:05						
Copper	EPA 200.8	ND	---	0.00200	mg/l	1x	--	--	--	--	--	--	05/11/07 21:15	
Lead	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Zinc	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
LCS (7050312-BS1)								Extracted: 05/07/07 11:05						
Copper	EPA 200.8	0.0922	---	0.0100	mg/l	5x	--	0.100	92.2%	(85-115)	--	--	05/11/07 21:24	
Lead	"	0.101	---	0.00500	"	"	--	"	101%	"	--	--	"	
Zinc	"	0.0990	---	0.0250	"	"	--	"	99.0%	"	--	--	"	
Duplicate (7050312-DUP1)				QC Source: PQE0170-01				Extracted: 05/07/07 11:05						
Copper	EPA 200.8	0.0217	---	0.00200	mg/l	1x	0.0220	--	--	--	1.37%	(20)	05/11/07 21:39	
Lead	"	0.00395	---	0.00100	"	"	0.00400	--	--	--	1.26%	"	"	
Zinc	"	0.197	---	0.00500	"	"	0.203	--	--	--	3.00%	"	"	
Matrix Spike (7050312-MS1)				QC Source: PQE0170-03				Extracted: 05/07/07 11:05						
Copper	EPA 200.8	0.124	---	0.00200	mg/l	1x	0.0305	0.100	93.5%	(75-125)	--	--	05/11/07 22:17	
Lead	"	0.105	---	0.00100	"	"	0.00618	"	98.8%	"	--	--	"	
Zinc	"	0.275	---	0.00500	"	"	0.193	"	82.0%	(70-130)	--	--	"	
Matrix Spike (7050312-MS2)				QC Source: PQE0170-02				Extracted: 05/07/07 11:05						
Copper	EPA 200.8	0.104	---	0.00200	mg/l	1x	0.0112	0.100	92.8%	(75-125)	--	--	05/11/07 21:56	
Lead	"	0.101	---	0.00100	"	"	0.00398	"	97.0%	"	--	--	"	
Zinc	"	0.114	---	0.00500	"	"	0.0309	"	83.1%	(70-130)	--	--	"	

TestAmerica - Portland, OR

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Brian Cone, Industrial Services Manager

SCOEPA00025863

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ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Storm Water**	
7200 N.W. Front Ave	Project Number:	Spring 2007	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	05/16/07 18:35

Notes and Definitions

Report Specific Notes:

None

Laboratory Reporting Conventions:

DET	-	Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
ND	-	Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
NR/NA	-	Not Reported / Not Available
dry	-	Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
wet	-	Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
RPD	-	RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
MRL	-	METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
MDL*	-	METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
Dil	-	Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
Reporting Limits	-	Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
Electronic Signature	-	Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy.* Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Brian Cone, Industrial Services Manager

SCOEPA00025864

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ANALYTICAL TESTING CORPORATION

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508 (425) 420-9200 FAX 420-9210
East 11115 Montgomery, Suite B, Spokane, WA 99206-4779 (509) 924-9200 FAX 924-9290
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 (503) 906-9200 FAX 906-9210
20354 Empire Avenue, Suite E-9, Bend, OR 97708-1883 (541) 383-9310 FAX 382-7588

CHAIN OF CUSTODY REPORT

Work Order #: PQE0170

CLIENT: SILTRONIC CORPORATION
REPORT TO: TOM ROTHSCHILD
ADDRESS: 7200 NW FRONT AVE
PORTLAND, OREGON 97210
PHONE: 503-219-7374 FAX: 503-219-4144

INVOICE TO: ACCOUNTS PAYABLE
7200 NW FRONT AVE
PORTLAND, OREGON 97210

P.O. NUMBER: 4500186654

PROJECT NAME: Stormwater Spring 2007
PROJECT NUMBER:
SAMPLED BY: Tom Rothschild and Paul Wittke

TURNAROUND REQUEST in Business Days *
Organic & Inorganic Analyses: [10] STD. | 7 | 5 | 4 | 3 | 2 | 1 | <1
Petroleum Hydrocarbon Analyses: 5 | 4 | 3 | 2 | 1 | <1 (STD.)
OTHER Specify:
* Turnaround Requests less than standard may incur Rush Charges

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	Oil & Grease (EPA 1664)	Total Cu (EPA200.8)	Total Pb (EPA200.8)	Total Zn (EPA200.8)	MATRIX (W, S, O)	# OF CONT.	COMMENTS	NCA WO ID
1	07-49-N	5-2-07 1245	X	X	X	X	2		stormwater	
2	07-50-S	5.2.07 1300		X	X	X	1		"	
3	07-51-E	5.2.07 1315	X	X	X	X	2		"	
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										

RELINQUISHED BY: Dianne Irish DATE: 5-3-07
PRINT NAME: DIANNE IRISH FIRM: Siltronic TIME: 12:25

RECEIVED BY: Bob F
PRINT NAME: Bob F FIRM: TAL DATE: 5/3/07 TIME: 12:25

RELINQUISHED BY: DATE:
PRINT NAME: FIRM: TIME:

RECEIVED BY: DATE: lab
PRINT NAME: FIRM: TIME: 14:45

ADDITIONAL REMARKS:

TEMP: 5.1

COC Rev 9, 1 90

PAGE OF

SCOEPA00025865

TestAmerica Sample Receipt Checklist

Received by: *(section A)* Date: 5/3/07 Time: 1:25 Initials: JL

Unpacked by: *(section B)* Date: 5/3/07 Initials: HB

Logged-in by: Date: 5/3 Initials: SM

Work Order No. PQE0170 Client: Siltronics Project: Mo

Cooler ID(s): _____ _____ _____

***ESI Clients *(see Section C)*

Cooler Temperature (IR): 2.1 °C plastic / glass NA *(oil/air samples, ESI client)*

Temperature out of range:
___No Ice
___Ice Melted
___Wlin 4 Hours
___Other: _____

A

Custody Seals: (#____)

Signature: Y N Dated: _____

X None

Container Type:

1 #Cooler(s)

____#Box(s)

____None (___#Other: _____)

Coolant Type:

X Gel Ice

X Loose Ice

____None

Packing Material:

____Bubble Bags

____Styrofoam Cubbies

____None (1 Other: Box)

Received by:

X TA Courier

____Senvoy

____UPS

____Fed Ex

____Client

____TDP

____DHL

____SDS

____Mid-Valley

____GS/TA

____GS/Senvoy

____Other: _____

B

Sample Status:

(If N circled, see NOD)

General:

Intact?	(Y)	N	
# Containers Match COC?	(Y)	N	none given
IDs Match COC?	(Y)	N	

For Analyses Requested:

Correct Type & Preservation?	(Y)	N	
Adequate Volume?	(Y)	N	
Within Hold Time?	(Y)	N	

Volatiles:

Voas Free of Headspace?	Y	N	(NA)
TB on COC? not provided	Y	N	(NA)

Metals:

HNO3 Preserved?	(Y)	N	NA

C

***ESI Clients Only:

Temperature Blank: _____ °C not provided

All preserved bottles checked Y N NA *(voas)*

All preserved accordingly? Y N *(see NOD)* NA *(voas)*

Army Corp: Geiger (ticks/min): ____ ____ ____ ____

Temperatures (IR): _____ °C _____ °C _____ °C _____ °C

(left) (middle) (right) (air)

Project Managers:

Comments: _____

PM Reviewed: _____ *(Initial/Date)*

SCOEPA00025866

Rec'd; 5/25/07 Di

TestAmerica
ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

May 25, 2007

Thomas Rothschild
Siltronic
7200 N.W. Front Ave
Portland, OR 97210

RE: Storm Water

Enclosed are the results of analyses for samples received by the laboratory on 05/23/07 14:15. The following list is a summary of the Work Orders contained in this report, generated on 05/25/07 16:28.

If you have any questions concerning this report, please feel free to contact me.

Work Order	Project	ProjectNumber
PQE0900	Storm Water	PO# 4500186654

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Brian Cone, Industrial Services Manager

SCOEPA00025867

TestAmerica
ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Storm Water**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	05/25/07 16:28

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
07-68-SW-E	PQE0900-01	Water	05/21/07 14:20	05/23/07 14:15
07-69-SW-S	PQE0900-02	Water	05/21/07 14:20	05/23/07 14:15

TestAmerica - Portland, OR

Brian L Cone

Brian Cone, Industrial Services Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

SCOEPA00025868

TestAmerica
ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Storm Water**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	05/25/07 16:28

Oil and Grease Analysis per EPA Method 1664

TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQE0900-01 (07-68-SW-E)		**Water**				**Sampled: 05/21/07 14:20**				
Oil & Grease	EPA 1664	ND	---	4.13	mg/l	1x	7051196	05/24/07 13:05	05/24/07 17:01	
PQE0900-02 (07-69-SW-S)		**Water**				**Sampled: 05/21/07 14:20**				
Oil & Grease	EPA 1664	ND	---	4.08	mg/l	1x	7051196	05/24/07 13:05	05/24/07 17:01	

TestAmerica - Portland, OR

Brian Cone, Industrial Services Manager

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TestAmerica
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PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Storm Water**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	05/25/07 16:28

Oil and Grease Analysis per EPA Method 1664 - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 7051196 **Water Preparation Method: O&G prep CE**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7051196-BLK1)								**Extracted: 05/24/07 10:30**						
Oil & Grease	EPA 1664	ND	---	5.00	mg/l	1x	--	--	--	--	--	--	05/24/07 17:01	
LCS (7051196-BS1)								**Extracted: 05/24/07 10:30**						
Oil & Grease	EPA 1664	37.4	---		mg/l	1x	--	40.2	93.0%	(78-114)	--	--	05/24/07 17:01	

TestAmerica - Portland, OR

Brian Cone, Industrial Services Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

SCOEPA00025870

TestAmerica
ANALYTICAL TESTING CORPORATION

PORTLAND, OR 9405 S.W. NIMBUS AVENUE
BEAVERTON, OR 97008-7132
ph: (503) 906.9200 fax: (503) 906.9210

Siltronic	Project Name:	**Storm Water**	
7200 N.W. Front Ave	Project Number:	PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	05/25/07 16:28

Notes and Definitions

Report Specific Notes:

None

Laboratory Reporting Conventions:

DET	-	Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
ND	-	Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
NR/NA	-	Not Reported / Not Available
dry	-	Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
wet	-	Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
RPD	-	RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
MRL	-	METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
MDL*	-	METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
Dil	-	Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
Reporting Limits	-	Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
Electronic Signature	-	Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy.* Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Brian Cone, Industrial Services Manager

SCOEPA00025871

TestAmerica
ANALYTICAL TESTING CORPORATION

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508 (425) 420-9200 FAX 420-9210
East 11115 Montgomery, Suite B, Spokane, WA 99206-4779 (509) 924-9200 FAX 924-9290
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 (503) 906-9200 FAX 906-9210
20354 Empire Avenue, Suite E-9, Bend, OR 97708-1883 (541) 383-9310 FAX 382-7588

CHAIN OF CUSTODY REPORT

Work Order #: PQE0900

CLIENT: **SILTRONIC CORPORATION**
REPORT TO: **TOM ROTHSCHILD**
ADDRESS: **7200 NW FRONT AVE**
PORTLAND, OREGON 97210
PHONE: **503-219-7374** FAX: **503-219-4144**

INVOICE TO: **ACCOUNTS PAYABLE**
7200 NW FRONT AVE
PORTLAND, OREGON 97210

P.O. NUMBER: **4500186654**

PROJECT NAME: **Stormwater Spring 2007**
PROJECT NUMBER:
SAMPLED BY: Dianne Irish, Justin Darr, Tom Rothschild

TURNAROUND REQUEST in Business Days *

Organic & Inorganic Analyses: [10] [7] [5] [4] [3] [2] [1] [<1]

STD. Petroleum Hydrocarbon Analyses: [5] [4] [3] [X] [1] [<1]

STD. [OTHER] Specify:

* Turnaround Requests less than standard may incur Rush Charges

CLIENT SAMPLE INDENTIFICATION	SAMPLING DATE/TIME	REQUESTED ANALYSES: Oil & Grease (EPA 1664)	Total Cu (EPA200.8)	Total Pb (EPA200.8)	Total Zn (EPA200.8)	MATRIX (W, S, O)	# OF CONT.	COMMENTS	NCA WO ID
1. 07-68-SW-E	5-21-07 / 1420	X				W	1		
2. 07-69--SW-S	5-21-07 / 1420	X				W	1		
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									

RELINQUISHED BY: Dianne Irish DATE: 5/23/07
PRINT NAME: DIANNE IRISH FIRM: Siltronic TIME: 12:00

RECEIVED BY: [signature] DATE: 5/23/07
PRINT NAME: Bob F FIRM: TAP TIME: 12:00

RELINQUISHED BY: DATE:
PRINT NAME: FIRM: TIME:

RECEIVED BY: DATE: Lab
PRINT NAME: FIRM: TIME: 14:15

ADDITIONAL REMARKS:

TEMP: 5.6

CQC Rev 9, 4.99

PAGE OF

SCOEPA00025872

TestAmerica Sample Receipt Checklist

Cooler IDs:

Received by: *(section A)*
Date: 5-23-07
Time: 12:00
Initials: [illegible]

Unpacked by: *(section B)*
Date: 5/23/07
Initials: [illegible]

Logged-in by:
Date: 5/23/07
Initials: [illegible]

Work Order No. PRE0900
Client: S. Hennig
Project: Storm water Spring 2007

Temperature out of range:
___ *No Ice*
___ *Ice Melted*
___ *W/in 4 Hours*
___ *Other:* _____

***ESI Clients *(see Section C)*

Cooler Temperature (IR): 5.6 °C plastic glass NA *(oil/air samples, ESI client)*

A

Custody Seals: (#___)

Signature: Y N Dated: 5-23-07
___ None

Container Type:
1 #Cooler(s)
___ #Box(s)
___ None (___ #Other: _____)

Coolant Type:
___ Gel Ice
X Loose Ice
___ None

Packing Material:
___ Bubble Bags
___ Styrofoam Cubbies
___ None (___ Other: plastic)

Received from:
X TA Courier
___ Senvoy
___ UPS
___ Fed Ex
___ Client
___ TDP
___ DHL
___ SDS
___ Mid-Valley
___ GS/TA
___ GS/Senvoy
___ Other: _____

B

Sample Status:
(If N circled, see NOD)

General:			
Intact?	Y	N	
# Containers Match COC?	Y	N	none given
IDs Match COC?	Y	N	
For Analyses Requested:			
Correct Type & Preservation?	Y	N	
Adequate Volume?	Y	N	
Within Hold Time?	Y	N	
Volatiles:			
VOAs Free of Headspace?	Y	N	NA
TB on COC? not provided	Y	N	NA
Metals:			
HNO3 Preserved?	Y	N	NA

C

***ESI Clients Only:

Temperature Blank: _____ °C not provided

All preserved bottles checked Y N NA *(voas/soils/all unp.)*
All preserved accordingly? Y N *(see NOD)* NA *(voas/soils/all unp.)*

Army Corp: Geiger (ticks/min): ___ ___ ___ ___

Temperatures (IR): _____ °C _____ °C _____ °C _____ °C
(left) (middle) (right) (air)

Project Managers:

Comments: _____

PM Reviewed: _____ *(Initial/Date)*

SCOEPA00025873

BENCHSHEET

TOTAL SUSPENDED SOLIDS (TSS)

Sample Date: 5.2.07 Oven Temp: 105 C Analyst: Di

Date In: 5.3.07 Time In/Out: 1135 / 1300

Tin #	Sample	Vol, ml	Gross Wt, g	Tare Wt, g	TSS, mg/L
1	Blank	N/A	0.0905	0.0905	
6	North	200	0.0953	0.0901	26
7	North	200	0.0951	0.0897	27
				North Average TSS	26.5
8	East	200	0.0946	0.0893	26.5
9	East	200	0.0955	0.0900	27.5
				East Average TSS	27
13	South	200	0.0966	0.0899	33.5
14	South	200	0.0978	0.0910	34
				South Average TSS	33.75

Notes: TSS Peaks on back - Di

Calculation: TSS, mg/L = $\frac{\text{(Gross Wt, mg - Tare Wt, mg) X 1000}}{\text{Volume of Sample, ml}}$

Note: NPDES permit: monthly avg. 23 mg/L, daily max. 61 mg/L.
POTW permit: daily max 350 mg/L.

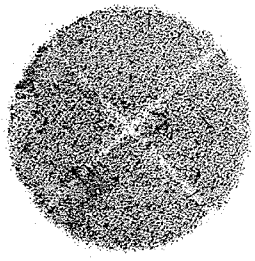
Reference: 1. Standard Methods for the Examination of Water and Wastewater, 1998, 20th Edition, Section 2540 D, page 2-57.
2. National Pollution Discharge Elimination System Permit #101128.

TJR 21 Mar 1987
DEI 12 Nov 2003 Revised

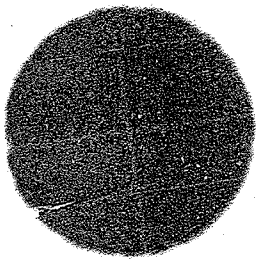
N:\Environmental\FACLAB\DIANNES\storm water\TSSSWB.DOC

SCOEPA00025874

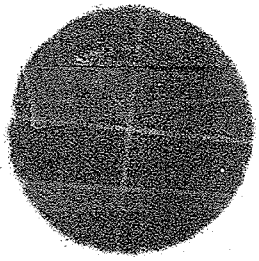
North -



East -



South



BENCHSHEET

pH

Test Date: 5-2-07 Sample Date: 5-7-07 Analyst: DI

Slope: 100.2 (Range: 92 to 102%)

Standards:

4.0 mg/L: Lot #: 1603735 Date Opened: 8/2/06

7.0 mg/L: Lot #: 1504752 Date Opened: 11/1/05

10.0 mg/L: Lot #: 1608475 Date Opened: 2/1/07

Sample	pH Units
North	5.63
East	6.14
South	5.97

Notes: _____

_____

_____

Reference:1. Standard Methods For The Examination of Water And Wastewater, 1998, 20th Edition, Section 4500-H^+B page 4-87.

DEI 13 Aug 2003

N:\ENVIRONMENTAL\FACLAB\DIANNES\STORM WATER\PHB.DOC

Siltronic Corporation Storm Water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

DATE:	5-2-07		INITIAL:	Di	
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Floating Solids	No visible discharge	Yes or No	No	No	No
Oil and Grease Sheen*	No visible sheen	Yes or No	No	No	No

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

STORM WATER SAMPLING – Semiannual:

DATE:	5.2.07	INITIAL:	Di		
PARAMETER	**BENCHMARK[1]**	**UM**	North 07-49-N	East 07-51-E	South 07-50-S
Total Copper	0.1	mg/L	0.022	0.0305	0.0112
Total Lead	0.4	mg/L	0.004	0.00618	0.00398
Total Zinc	0.6	mg/L	0.203	0.193	0.0309
PH	5.5-9	Su	5.63	6.14	5.97
TSS	130	mg/L	26.5	27	33.75
Oil and Grease	10	mg/L	<4.00	39.4 ①	sample bottle broke ①

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Koreen Lail in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Koreen Lail.

① Need to resample Oil+Grease

N:\ENVIRONMENTAL\FACLAB\WWTP\LOG\STORMWATER.DOC Resampled on 5/21/07

East # 07-68-SW-E = <4.13 mg/L

South # 07-69-SW-S; <4.08 mg/L

Siltronic Corporation Storm Water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

DATE:	7-12-06		INITIAL:		
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Floating Solids	No visible discharge	Yes or No	No	No	No
Oil and Grease Sheen*	No visible sheen	Yes or No	No	No	No

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

STORM WATER SAMPLING – Semiannual:

DATE:		INITIAL:			
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Total Copper	0.1	mg/L			
Total Lead	0.4	mg/L			
Total Zinc	0.6	mg/L			
PH	5.5-9	Su			
TSS	130	mg/L			
Oil and Grease	10	mg/L			

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Koreen Lail in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Koreen Lail.

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Siltronic Corporation Storm Water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

DATE:	30 Aug 2006	0800-0830 (1)	INITIAL:	JJR	
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Floating Solids	No visible discharge	Yes or No	No	No	No
Oil and Grease Sheen*	No visible sheen	Yes or No	No	No	No

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

STORM WATER SAMPLING – Semiannual:

DATE:		INITIAL:			
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Total Copper	0.1	mg/L			
Total Lead	0.4	mg/L			
Total Zinc	0.6	mg/L			
PH	5.5-9	Su			
TSS	130	mg/L			
Oil and Grease	10	mg/L			

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Koreen Lail in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Koreen Lail.

N:\ENVIRONMENTAL\FACLAB\WWTP\LOG\STORMWATER.DOC

(1) Had just stopped raining. JJR

Siltronic Corporation Storm Water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

DATE:	29 Sep 2006		INITIAL:	3jR	
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Floating Solids	No visible discharge	Yes or No	(1)	(1)	(1)
Oil and Grease Sheen*	No visible sheen	Yes or No	(1)	(1)	(1)

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

STORM WATER SAMPLING – Semiannual:

DATE:		INITIAL:			
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Total Copper	0.1	mg/L			
Total Lead	0.4	mg/L			
Total Zinc	0.6	mg/L			
PH	5.5-9	Su			
TSS	130	mg/L			
Oil and Grease	10	mg/L			

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Koreen Lail in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Koreen Lail.

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(1) Insufficient Rain Fall during September 2006. 3jR

Siltronic Corporation Storm Water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

DATE:	31 Oct 2006		INITIAL:	JJR	
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Floating Solids	No visible discharge	Yes or No	(1)	(1)	(1)
Oil and Grease Sheen*	No visible sheen	Yes or No	(1)	(1)	(1)

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

STORM WATER SAMPLING – Semiannual:

DATE:		INITIAL:			
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Total Copper	0.1	mg/L			
Total Lead	0.4	mg/L			
Total Zinc	0.6	mg/L			
PH	5.5-9	Su			
TSS	130	mg/L			
Oil and Grease	10	mg/L			

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Koreen Lail in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Koreen Lail.

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(1) Insufficient Rain Fall during October 2006 JJR

Siltronic Corporation Storm Water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

DATE:	14 Dec 2006 (1300)	U1)	INITIAL:	JJR	
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Floating Solids	No visible discharge	Yes or No	No	No	No
Oil and Grease Sheen*	No visible sheen	Yes or No	No	No	No

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

STORM WATER SAMPLING – Semiannual:

DATE:		INITIAL:			
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Total Copper	0.1	mg/L			
Total Lead	0.4	mg/L			
Total Zinc	0.6	mg/L			
PH	5.5-9	Su			
TSS	130	mg/L			
Oil and Grease	10	mg/L			

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Koreen Lail in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Koreen Lail.

U1) Rainfall: ~0.7 inches 0800, 13 Dec 2006 to 0800, 14 Dec 2006
~0.4 inches 0800, 14 Dec 2006 to 1300, 14 Dec 2006

Siltronic Corporation Storm Water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

DATE:	31Jan 2007		INITIAL:	JJR	
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Floating Solids	No visible discharge	Yes or No	Insufficient Rain Fall		
Oil and Grease Sheen*	No visible sheen	Yes or No	↓	↓	↓

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

STORM WATER SAMPLING – Semiannual:

DATE:		INITIAL:			
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Total Copper	0.1	mg/L			
Total Lead	0.4	mg/L			
Total Zinc	0.6	mg/L			
PH	5.5-9	Su			
TSS	130	mg/L			
Oil and Grease	10	mg/L			

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Koreen Lail in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Koreen Lail.

N:\ENVIRONMENTAL\FACLAB\WWTP\LOG\STORMWATER.DOC

Siltronic Corporation Storm Water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

DATE:	14 Feb 2007 (1)(2)		INITIAL:	3jR	
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Floating Solids	No visible discharge	Yes or No	No	No	No
Oil and Grease Sheen*	No visible sheen	Yes or No	No	No	No

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

STORM WATER SAMPLING – Semiannual:

DATE:		INITIAL:			
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Total Copper	0.1	mg/L			
Total Lead	0.4	mg/L			
Total Zinc	0.6	mg/L			
PH	5.5-9	Su			
TSS	130	mg/L			
Oil and Grease	10	mg/L			

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Koreen Lail in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Koreen Lail.

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Note: (1) 0.39 inches of rain between ~0800, 14 Feb 2007 and ~0800, 15 Feb 2007. 3jR
(2) Inspected ~1400, 3jR

Siltronic Corporation Storm Water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

DATE:	30 Mar 2007		INITIAL:	3JR	
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Floating Solids	No visible discharge	Yes or No	Insufficient Rain Fall		
Oil and Grease Sheen*	No visible sheen	Yes or No	↓	↓	↓

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

STORM WATER SAMPLING – Semiannual:

DATE:		INITIAL:			
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Total Copper	0.1	mg/L			
Total Lead	0.4	mg/L			
Total Zinc	0.6	mg/L			
PH	5.5-9	Su			
TSS	130	mg/L			
Oil and Grease	10	mg/L			

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Koreen Lail in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Koreen Lail.

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Note: (1) Asked Facilities operators to do visual inspection on 31 Mar 2007 if it rained. 3JR

(2) Did not rain on 31 Mar 2007. 2 Apr 2007 3JR

Siltronic Corporation Storm Water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

DATE:	30 Apr 2007	(1)	INITIAL:	JJR	
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Floating Solids	No visible discharge	Yes or No	No	No	No
Oil and Grease Sheen*	No visible sheen	Yes or No	No	No	No

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

STORM WATER SAMPLING – Semiannual:

DATE:		INITIAL:			
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Total Copper	0.1	mg/L			
Total Lead	0.4	mg/L			
Total Zinc	0.6	mg/L			
PH	5.5-9	Su			
TSS	130	mg/L			
Oil and Grease	10	mg/L			

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Koreen Lail in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Koreen Lail.

N:\ENVIRONMENTAL\FACLAB\WWTP\LOG\STORMWATER.DOC

(1) 1400-1430. Not Raining. Visual Inspection of standing water. JJR

Siltronic Corporation Storm Water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

DATE:	6/24/07		INITIAL:	RB	
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Floating Solids	No visible discharge	Yes or No	No	No	No
Oil and Grease Sheen*	No visible sheen	Yes or No	No	No	No

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

STORM WATER SAMPLING – Semiannual:

DATE:		INITIAL:			
PARAMETER	**BENCHMARK[1]**	**UM**	North	East	South
Total Copper	0.1	mg/L			
Total Lead	0.4	mg/L			
Total Zinc	0.6	mg/L			
PH	5.5-9	Su			
TSS	130	mg/L			
Oil and Grease	10	mg/L			

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Koreen Lail in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Koreen Lail.

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City, St: Water Pollution Control Laboratory
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Portland, OR 97203-5452

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Loren Shelley
Industrial Stormwater Division
Water Pollution Control Laboratory
6543 N. Burlington Ave.
Portland, OR 97203-5452

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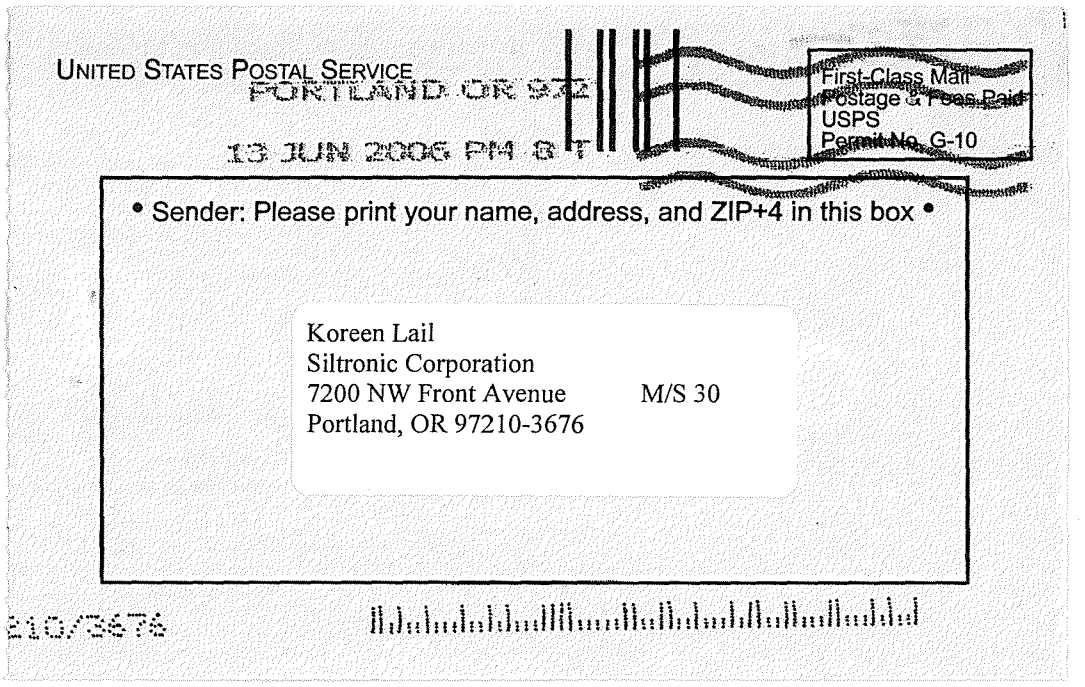
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Koreen Lail
Siltronic Corporation
7200 NW Front Avenue M/S 30
Portland, OR 97210-3676
210/3676

siltronic
perfect silicon solutions

Koreen Lail
Environmental Engineer

Siltronic Corporation
7200 NW Front Avenue, M/S 30
Portland OR 97210-3676, USA
Tel. 503-219-7994
Fax 503-219-7599
Koreen.lail@siltronic.com

Loren Shelley
City of Portland
Industrial Stormwater Program
6543 N Burlington Avenue
Portland, Oregon 97203-5452

ER:027KLL

June 9, 2006

Industrial Storm Water NPDES 1200-Z Monitoring Report for July 1, 2005 to June 30, 2006

Dear Mr. Shelley,

Attached is Siltronic Corporation's Industrial Storm Water NPDES 1200-Z Monitoring Report for July 1, 2005 to June 30, 2006 as required by Siltronic's NPDES Storm Water Discharge Permit number 1200-Z issued October 1, 2002. Sampling was conducted November 1, 2005 and April 10, 2006 meeting the requirement of conducting two monitoring events per sample point between July 1, 2005 and June 30, 2006. All parameters were below benchmarks.

The following materials are enclosed in this report:

1. A summary of the results for 2005-2006 including sample results, bench marks, detection limits and analytical methods used.
2. Siltronic Corporation laboratory bench sheets for TSS and pH.
3. Copies of outside laboratory reports including the chain of custody forms for copper, lead, zinc and total oil & grease.

If you have any questions or comments, please contact me.

Best regards,

Siltronic Corporation

Koreen Lail
Environmental Engineer

CC: BES Storm water File
Tom Rothschild

siltronic
perfect silicon solutions

Summary of Results for 2005 - 2006

PARAMETER	Sample date	North results	East results	South results	BENCH MARK	Units	Detection limit	Method & Comments
Copper	11/1/2005	<0.03	<0.03	<0.03	0.1	mg/L	0.03	EPA 200.7
	4/10/06	<0.03	<0.03	<0.03				
Lead	11/1/2005	<0.0052	<0.0052	<0.0052	0.4	mg/L	0.005	EPA 239.2
	4/10/06	<0.001	<0.001	.00106				
Zinc	11/1/2005	0.06	.08	0. 1	0.6	mg/L	0.05	EPA 200.7
	4/10/06	.0887	.156	.117				
pH	11/1/2005	6.0	6.1	6.3	5.5-9	pH units	0.1	Standards Methods 1998, 20th ed, Section 4500-H^+
	4/10/06	5.76	6.31	6.49				
TSS	11/1/2005	4.75	6.0	10.5	130	mg/L	0.1	Standards Methods 1998, 20th ed, Section 2540 D
	4/10/06	2.6	10.2	4.0				
Oil and Grease	11/1/2005	<3	<3	<3	10	mg/L	3	EPA 1664
	4/10/06	<4.81	<4.81	<4.81				

Industrial Source Control Division

INDUSTRIAL STORMWATER

NPDES 1200-Z MONITORING REPORT

Industry Name:

Site Address:

The permittee shall monitor stormwater **twice** per year for the parameters outlined in their NPDES 1200-Z Stormwater Discharge Permit Schedule B.1.a., and submit results to the City as stated in Schedule D.2.

Stormwater samples were taken for the above permittee, on these days and at these sample points:

Sample Date(s)	Sample Point(s)
11/1/05	North, East, South
4/10/06	North, East, South

The permittee shall submit by **July 15** of each year a copy of the **laboratory analysis reports,** which show analytical methods and detection limits, for stormwater samples collected for the previous monitoring year (July 1- June 30).

☐ **Monitoring Waiver Reduction Notification**:
Check the box if your facility is exercising a waiver of monitoring based on meeting benchmarks listed in Schedule A.9., AND site conditions have not changed to impact stormwater run-off. Note: This does not exclude your facility from notifying DEQ about the waiver of monitoring. Please read Schedule B of the permit to clearly understand the monitor waiver reduction guidelines. If waiver request is for select pollutants, list the parameters excluded from monitoring: _____.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: Karen Said
Title: Environmental Engineer
Date: 6/9/06

Comment [BoES1]: Page 2

Revised 6/8/2006

RECEIVED DEC 5 2005

3JR

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COVER LETTER

Cover Letter: Page 1 of 1
Report Date: November 28, 2005
Job Number: A51102BV WackerSilt
Purchase Order: 45000186654
Project Name: Fall '05 Stormwater
Project No: 99-101/0511028

Tom Rothschild
Siltronic Corporation
7200 NW Front Avenue
Portland, OR 97210

Dear Tom Rothschild,

Enclosed please find Coffey Laboratories (CLI) analytical report Job Number A51102BV organized into the following sections:

Section	*Pages*
Cover Letter	1-1
Analytical Narrative	1-2
Sample Results	1-1
Lab Specific QC	1-1

This report and any other report completed by CLI dating back to 1979 is available in PDF format for you to view or download anytime from **www.onlinelab.com** with a valid username and password. If you do not have an online account with us, please give Customer Services a call and ask them to establish one.

Should you have any questions about this report or any other matter, please do not hesitate to contact us. We are here to help

President, Coffey Laboratories Incorporated:		
Susan Coffey	Susan.Coffey@CoffeyLabs.com	(503) 254-1794 ext. 209
Quality Assurance:		
Ragheda Kaady	Ragheda.Kaady@CoffeyLabs.com	(503) 254-1794 ext.214
Customer Service, Portland:		
Linda Bangs	Linda.Bangs@CoffeyLabs.com	(503) 254-1794 ext.216
Mark Leed	Mark.Leed@CoffeyLabs.com	(503) 254-1794 ext.217
Customer Service, Pendleton:		
Renee Struthers	Renee.Struthers@CoffeyLabs.com	(541) 276-0385
Diane Garton	Diane.Garton@CoffeyLabs.com	(541) 276-0385
Customer Service, Redmond:		
Ann Llewellyn	Ann.Llewellyn@CoffeyLabs.com	(541) 548-0972

Thank you for allowing CLI to be of service to you, we appreciate your business.

Sincerely,

Technical Services

Coffey Laboratories, Inc.
12423 N.E. Whitaker Way, Portland, OR, 97230, (503) 254-1794, FAX (503) 254-1452
419 SW 5th St, Pendleton, OR, 97801, (541)276-0385, FAX (541) 276-0385
1810 SE 1st Street Suite L, Redmond, OR, 97756, (541) 548-0972, FAX (541) 548-6345

SCOEPA00025894

ANALYTICAL NARRATIVE

Job Comments:
The samples listed below were received at CLI Portland on 11/2/2005 as Job Number A51102BV.

Sample Comments:
All samples were properly preserved, in good condition, and in the appropriate containers.

Method Comments:
Recommended holding time was in accordance with method specific and/or data quality objectives specified in the CLI QAP. All analyses were performed according to the CLI QAP and met requirements of NELAC standards as documented in the Sample Results section of this report.

The Notes column at the Method line on Sample Results pages indicate which CLI branch performed the analyses and whether there were any holding time violations.
1. Analysis done at Portland Branch, ORELAP# OR100028
2. Analysis done at Pendelton Branch, ORELAP# OR100029
3. Analysis done at Redmond Branch
4. Method holding time exception

Analyte Comments:

B	Blank Contamination	MI	Matrix Interference
CV	Calculated Value	R	RPD ouside limit
D	Diluted out of range	RE	Re-Extracted and Re-Analyzed
E	Analyte Concentration Exceeds Range	S	Spike Recovery Outside Limit
H	Holding time exceeded	X	Non ORELAP accredited
J	Estimated Value, below MRL	Z	RPD Not Calculable with Duplicate ND

Miscellaneous Comments:
All results pertain only to samples submitted, are for the sole and exclusive use of the above-named client, and are provided under the terms and conditions of the CLI Chain of Custody. Samples will be retained a maximum of 15 days from the report date unless prior arrangements have been made.

Acronyms:

CLI	Coffey Laboratories, Incorporated
NELAC	National Environmental Laboratory Accreditation Conference
ORELAP	Oregon Environmental Laboratory Accreditation Program
NR	Not Reported
MRL	Method Reporting Limit
NA	Not Applicable
ND	None Detected at or Above MRL
NP	Not Provided
NC	Not Calculable
QAP	(Coffey Laboratories) Quality Assurance Plan
RPD	Relative Percent Difference

Abbreviations:
g = grams
L = liter
m = metric systemprefix for milli or 10E-3
u = metric system prefix for micro or 10E-6.

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SCOEPA00025895

ANALYTICAL NARRATIVE

Field ID / Container	Size	Preservative	Matrix / Lab ID	Collect Date	Collect Time	Notes
05-99-SW-10			**Storm Water**			
Glass	*1L*	*HCl*	*51102BV1i*	*11/01/2005*	*08:50*	
Plastic	*250ml*	*HNO3*	*51102BV1j*	*11/01/2005*	*08:50*	
05-100-SW-S			**Storm Water**			
Glass	*1L*	*HCl*	*51102BV2i*	*11/01/2005*	*08:30*	
Plastic	*250ml*	*HNO3*	*51102BV2j*	*11/01/2005*	*08:30*	
05-101-SW-E			**Storm Water**			
Glass	*1L*	*HCl*	*51102BV3i*	*11/01/2005*	*08:10*	
Plastic	*250ml*	*HNO3*	*51102BV3j*	*11/01/2005*	*08:10*	

Coffey Laboratories, Inc.
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SAMPLE RESULTS

Sample results: Page 1 of 1
Report Date: November 28, 2005
Job Number: A51102BV SW
Custabbr WackerSilt

Parameter	Results	MRL	Unit	Dilution	Batch	Extracted	Analyzed	Analyst	Notes
05-99-SW-10 (A51102BV-1)									
EPA 1664: Inorganic Chemicals									1
Total Oil & Grease	ND	3.	mg/l	1	5110242		11/15/05	NAC	
EPA 200.7: Inorganic Chemicals									1
Copper	ND	0.03	mg/L	1	5110094		11/03/05	MGH	
Zinc	0.06	0.05	mg/L	1	5110094		11/03/05	MGH	
EPA 239.2: Inorganic Chemicals									1
Lead	ND	0.0052	mg/L	1	5110186		11/08/05	CV	
05-100-SW-S (A51102BV-2)									
EPA 1664: Inorganic Chemicals									1
Total Oil & Grease	ND	3.	mg/l	1	5110242		11/15/05	NAC	
EPA 200.7: Inorganic Chemicals									1
Copper	ND	0.03	mg/L	1	5110094		11/03/05	MGH	
Zinc	0.08	0.05	mg/L	1	5110094		11/03/05	MGH	
EPA 239.2: Inorganic Chemicals									1
Lead	ND	0.0052	mg/L	1	5110186		11/08/05	CV	
05-101-SW-E (A51102BV-3)									
EPA 1664: Inorganic Chemicals									1
Total Oil & Grease	ND	3.	mg/l	1	5110242		11/15/05	NAC	
EPA 200.7: Inorganic Chemicals									1
Copper	ND	0.03	mg/L	1	5110094		11/03/05	MGH	
Zinc	0.1	0.05	mg/L	1	5110094		11/03/05	MGH	
EPA 239.2: Inorganic Chemicals									1
Lead	ND	0.0052	mg/L	1	5110186		11/08/05	CV	

See Narrative for explanation of notes and abbreviations

Coffey Laboratories, Inc.
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Laboratory Specific QC

Report Date: November 28, 2005
Job Number: A51102BV
Custabbr: WackerSilt

Analyte	MRL	Result	Units	%Recovery	Limit	RPD	Limit	Notes
EPA 200.7	**Batch:** 5110094	**Runid:** CPIMULTI3 (Continuing Calibration Verif.)						
Copper	6.	98.	mg/L	98	75.-125.			
Zinc	10.	100.	mg/L	100	75.-125.			
EPA 200.7	**Batch:** 5110094	**Runid:** CPIMULTI3 (Initial Calibration Verif.)						
Copper	3.	99.	mg/L	99	75.-125.			
Zinc	5.	100.	mg/L	100	75.-125.			
EPA 200.7	**Batch:** 5110094	**Runid:** 3010MS-8 (Laboratory Control Sample)						
Copper	0.03	0.37	mg/L	95	75.-125.			
Zinc	0.05	0.39	mg/L	100	75.-125.			
EPA 200.7	**Batch:** 5110094	**Runid:** 51102W1J (Post Digestion Spike)						
Copper	0.03	1.8	mg/L	90	75.-125.			
Zinc	0.05	2.	mg/L	99	75.-125.			
EPA 239.2	**Batch:** 5110186	**Runid:** CPI-1 (Continuing Calibration Verif.)						
Lead	2.	9.	mg/L	90	75.-125.			
EPA 239.2	**Batch:** 5110186	**Runid:** JTB-6 (Initial Calibration Verif.)						
Lead	5.	10.	mg/L	100	75.-125.			
EPA 239.2	**Batch:** 5110186	**Runid:** CPIMULTI3 (Laboratory Control Sample)						
Lead	0.052	0.22	mg/L	101	75.-125.			
EPA 239.2	**Batch:** 5110186	**Runid:** CPIMULTI3 (Laboratory Control Sample)						
Lead	0.052	0.22	mg/L	99	75.-125.			
EPA 239.2	**Batch:** 5110186	**Runid:** 51031G2J (Post Digestion Spike)						
Lead	0.01	0.05	mg/L	101	75.-125.			
EPA 1664	**Batch:** 5110242	**Runid:** 1664LCS-1 (Laboratory Control Sample)						
Total Oil & Grease	3.	38.	mg/l	95	83.-101.			
EPA 1664	**Batch:** 5110242	**Runid:** 1664LCS-1 (Laboratory Control Duplicate)						
Total Oil & Grease	3.	39.	mg/l	97	83.-101.	2	34	

See Narrative for explanation of notes and abbreviations

Coffey Laboratories, Inc.
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SCOEPA00025898

COFFEY LABORATORIES, INC.

CHAIN OF CUSTODY RECORD

Page ____ of ____

CENTRAL OREGON BRANCH
1810 SE 1st Street, Suite L
Redmond, OR 97756
Phone: (541)548-0972 Fax: (541)548-6345

CORPORATE HEADQUARTERS
12423 NE Whitaker Way
Portland, OR 97230
Phone: (503)254-1794 Fax: (503)254-1452

EASTERN OREGON BRANCH
419 SW 5th Street
Pendleton, OR 97801
Phone: (541) 276-0385 Fax: (541) 276-2041

Company: Siltronic Corp.
Contact: Tom Rothschild
Address: 7200 NW Front Ave
Portland, Oregon
Phone: (503) 219-7374 Fax: (503) 219-4144
Billing (if different):

Purchase Order Number: 45000186654
Project Number: 99~101
Project Name: Fall '05 Storm Water

- ☐ Report Instructions:
- ☐ State Compliance Format
- ☐ Fax Preliminary Results
- ☒ Fax Final Results
- ☐ Verbal Results
- Other:

Analysis Requested

Sample ID	Date/Time Collected		Oil/Grease EPA 1664	Total Cu, Pb+Zn EPA 200.8									Matrix	Comments	ID	Loc.	#
05-99-SW-N	11.1.05	0850	X	X													
05-100-SW-S	11.1.05	0830	X	X													
05-101-SW-E	11.1.05	0810	X	X													

Collected By: TR/JD/BK

- ☒ Standard
- ☐ Priority (1.5 Times Standard)
- ☐ Rush (2 Times Standard)
- ☐ Emergency (3 Times Standard)

Ask About Availability

Relinquished By:	Date	Time	Received By:	Date	Time
Dianne Irish	11.1.05		[signature]	11-1-05	1400

Laboratory Use Only:
Custabbr: ____
Job Number: ____
- ☐ Proper Container
- ☐ Sample Condition
- ☐ Temperature 4 ± 2°C
- ☐ Shipped Via: ____
- ☐ Cash/Check/CC/Net 30/ ____

SUBMISSION OF SAMPLES WITH TESTING REQUIREMENTS TO CLI WILL BE UNDERSTOOD TO BE AN AGREEMENT FOR SERVICES IN ACCORDANCE WITH THE CONDITIONS LISTED ON THE BACK OF THIS FORM.

BENCHSHEET

TOTAL SUSPENDED SOLIDS (TSS)

Sample Date: 11-01-05 Oven Temp: 103 C Analyst: DI

Date In: 11-01-05 Time In/Out: 1100 / 1357

Tin #	Sample	Vol, ml	Gross Wt, g	Tare Wt, g	TSS, mg/L
1	Blank	N/A	0.0915	0.0915	0
2	05-99-N	200	0.0895	0.0885	5
3	05-99-N	200	0.0885	0.0876	4.5
				North Average TSS	4.75
4	05-100-E	200	0.0897	0.0882	7.5
5	05-100-E	200	0.0883	0.0874	4.5
				East Average TSS	6
6	05-100-S	200	0.0942	0.0921	10.5
7	05-100-S	200	0.0929	0.0908	10.5
				South Average TSS	10.5

Notes: See TSS Pads on Back ->

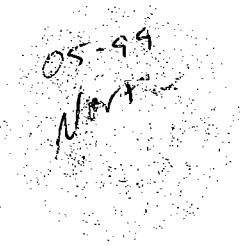
Calculation: TSS, mg/L = $\frac{\text{(Gross Wt, mg - Tare Wt, mg) X 1000}}{\text{Volume of Sample, ml}}$

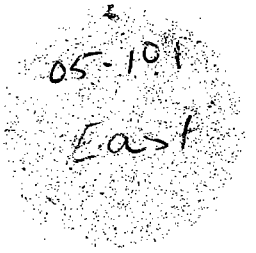
Note: NPDES permit: monthly avg. 23 mg/L, daily max. 61 mg/L.
POTW permit: daily max 350 mg/L.

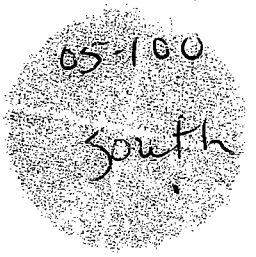
Reference: 1. Standard Methods for the Examination of Water and Wastewater, 1998, 20th Edition, Section 2540 D, page 2-57.
2. National Pollution Discharge Elimination System Permit #101128.

TJR 21 Mar 1987
DEI 12 Nov 2003 Revised

N:\Environmental\FACLAB\DIANNES\storm water\TSSSWB.DOC


05-99
North


05-101
East


05-100
South

BENCHSHEET

pH

Test Date: 11-01-05 Sample Date: 11-01-05 Analyst: DI

Slope: 99.6 (Range: 92 to 102%)

Standards:

4.0 mg/L: Lot #: 1407303 Date Opened: 3/28/05

7.0 mg/L: Lot #: 1504757 Date Opened: 11/01/05

10.0 mg/L: Lot #: 1410129 Date Opened: 5/28/05

Sample	pH Units
North 05-99	6.0
East 05-101	6.1
South 05-100	6.3

Notes: Rainwater collected for 24 hrs in a beaker = 5.1 pH

Reference: 1. Standard Methods For The Examination of Water And Wastewater, 1998, 20th Edition, Section 4500-H^+B page 4-87.

DEI 13 Aug 2003

N:\ENVIRONMENTAL\FACLAB\DIANNES\STORM WATER\PHB.DOC

Siltronic Corporation Storm Water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

PARAMETER	BENCHMARK[1]	UM	DATE:	11.1.05	
			North 05-99	East 05-101	South 05-100
Floating Solids	No visible discharge	Yes or No	No	No	No
Oil and Grease Sheen*	No visible sheen	Yes or No	No	No	No

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

STORM WATER SAMPLING – Semiannual:

PARAMETER	BENCHMARK[1]	UM	DATE:	11.1.05	
			North 05-99	East 05-101	South 05-100
Total Copper	0.1	mg/L	<0.03	<0.03	<0.03
Total Lead	0.4	mg/L	<0.0052	<0.0052	<0.0052
Total Zinc	0.6	mg/L	0.06	0.08	0.1
PH	5.5-9	Su	6.0	6.1	6.3
TSS	130	mg/L	4.75	6	10.5
Oil and Grease	10	mg/L	<3.0	<3.0	<3.0

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Jim Claxton in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Jim Claxton.

N:\ENVIRONMENTAL\FACLAB\WWTP\LOG\STORMWATER.DOC

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907.563.9200 fax 907.563.9210

April 30, 2006

RECEIVED MAY 3 2006

Thomas Rothschild
Siltronic
7200 N.W. Front Ave
Portland, OR 97210

RE: Storm Water

Enclosed are the results of analyses for samples received by the laboratory on 04/10/06 16:00.
The following list is a summary of the NCA Work Orders contained in this report.
If you have any questions concerning this report, please feel free to contact me.

Work	Project	ProjectNumber
PPD0384	Storm Water	Spring 2006/22-24/PO# 450

Thank You,

Brian L Cone

Brian Cone, Industrial Services Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

North Creek Analytical, Inc.
Environmental Laboratory Network

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Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
phone: (907) 563.9200 fax: (907) 563.9210

Siltronic	Project Name:	**Storm Water**	
7200 N.W. Front Ave	Project Number:	Spring 2006/22-24/PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	04/30/06 18:00

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
06-22-SW-N	PPD0384-01	Water	04/10/06 08:00	04/10/06 16:00
06-23-SW-E	PPD0384-02	Water	04/10/06 08:15	04/10/06 16:00
06-24-SW-S	PPD0384-03	Water	04/10/06 07:45	04/10/06 16:00

North Creek Analytical - Portland

Brian L Cone

Brian Cone, Industrial Services Manager

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Siltronic	Project Name:	Storm Water	
7200 N.W. Front Ave	Project Number:	Spring 2006/22-24/PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	04/30/06 18:00

Total Metals per EPA 200 Series Methods

North Creek Analytical - Portland

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PPD0384-01	Water	06-22-SW-N		Sampled: 04/10/06 08:00							
Copper		EPA 200.8	0.00480	-----	0.00200	mg/l	1x	6040691	04/14/06	04/26/06 09:22	
Lead		"	ND	-----	0.00100	"	"	"	"	04/16/06 23:59	
Zinc		"	0.0887	-----	0.00500	"	"	"	"	04/26/06 09:22	
PPD0384-02	Water	06-23-SW-E		Sampled: 04/10/06 08:15							
Copper		EPA 200.8	0.00813	-----	0.00200	mg/l	1x	6040691	04/14/06	04/26/06 09:38	
Lead		"	ND	-----	0.00100	"	"	"	"	04/17/06 00:07	
Zinc		"	0.156	-----	0.00500	"	"	"	"	04/26/06 09:38	
PPD0384-03	Water	06-24-SW-S		Sampled: 04/10/06 07:45							
Copper		EPA 200.8	0.00505	-----	0.00200	mg/l	1x	6040691	04/14/06	04/26/06 09:54	
Lead		"	0.00106	-----	0.00100	"	"	"	"	04/17/06 00:29	
Zinc		"	0.117	-----	0.00500	"	"	"	"	04/26/06 09:54	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Brian L Cone

Brian Cone, Industrial Services Manager

SCOEPA00025906

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Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
phone: (907) 563.9200 fax: (907) 563.9210

Siltronic	Project Name:	Storm Water	
7200 N.W. Front Ave	Project Number:	Spring 2006/22-24/PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	04/30/06 18:00

Conventional Chemistry Parameters by APHA/EPA Methods

North Creek Analytical - Bothell

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PD0384-01 Water	**06-22-SW-N**		**Sampled: 04/10/06 08:00**							
Oil & Grease (HEM)	EPA 1664A	ND	-----	4.81	mg/l	1x	6D18011	04/18/06	04/19/06 16:54	
Total Petroleum Hydrocarbons (SGT-HEM)	"	ND	-----	4.81	"	"	"	"	"	
PD0384-02 Water	**06-23-SW-E**		**Sampled: 04/10/06 08:15**							
Oil & Grease (HEM)	EPA 1664A	ND	-----	4.81	mg/l	1x	6D18011	04/18/06	04/19/06 16:54	
Total Petroleum Hydrocarbons (SGT-HEM)	"	ND	-----	4.81	"	"	"	"	"	
PD0384-03 Water	**06-24-SW-S**		**Sampled: 04/10/06 07:45**							
Oil & Grease (HEM)	EPA 1664A	ND	-----	4.81	mg/l	1x	6D18011	04/18/06	04/19/06 16:54	
Total Petroleum Hydrocarbons (SGT-HEM)	"	ND	-----	4.81	"	"	"	"	"	

North Creek Analytical - Portland

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Brian L Cone

Brian Cone, Industrial Services Manager

North Creek Analytical, Inc.
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Siltronic	Project Name: Storm Water	
7200 N.W. Front Ave	Project Number: Spring 2006/22-24/PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager: Thomas Rothschild	04/30/06 18:00

Total Metals per EPA 200 Series Methods - Laboratory Quality Control Results

North Creek Analytical - Portland

QC Batch: 6040691 Water Preparation Method: EPA 200/3005

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6040691-BLK1)								Extracted: 04/14/06 15:23						
Copper	EPA 200.8	ND	---	0.00200	mg/l	1x	--	--	--	--	--	--	04/26/06 04:19	
Lead	"	ND	---	0.00100	"	"	--	--	--	--	--	--	04/16/06 21:33	
Zinc	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Blank (6040691-BLK2)								Extracted: 04/14/06 15:23						
Lead	EPA 200.8	ND	---	0.00100	mg/l	1x	--	--	--	--	--	--	04/26/06 04:19	
Zinc	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
LCS (6040691-BS1)								Extracted: 04/14/06 15:23						
Copper	EPA 200.8	0.103	---	0.00200	mg/l	1x	--	0.100	103%	(85-115)	--	--	04/26/06 04:35	
Lead	"	0.104	---	0.00100	"	"	--	"	104%	"	--	--	04/16/06 21:41	
Zinc	"	0.0904	---	0.00500	"	"	--	"	90.4%	"	--	--	"	
LCS (6040691-BS2)								Extracted: 04/14/06 15:23						
Lead	EPA 200.8	0.101	---	0.00100	mg/l	1x	--	0.100	101%	(85-115)	--	--	04/26/06 04:35	
Zinc	"	0.0940	---	0.00500	"	"	--	"	94.0%	"	--	--	"	
Duplicate (6040691-DUP1)				QC Source: PPD0321-01				Extracted: 04/14/06 15:23						
Copper	EPA 200.8	0.144	---	0.00200	mg/l	1x	0.144	--	--	--	0.00%	(20)	04/26/06 05:23	
Lead	"	0.0181	---	0.00100	"	"	0.0182	--	--	--	0.551%	"	04/16/06 22:04	
Zinc	"	0.320	---	0.00500	"	"	0.325	--	--	--	1.55%	"	"	
Matrix Spike (6040691-MS1)				QC Source: PPD0321-01				Extracted: 04/14/06 15:23						
Copper	EPA 200.8	0.239	---	0.00200	mg/l	1x	0.144	0.100	95.0%	(75-125)	--	--	04/26/06 05:39	
Lead	"	0.120	---	0.00100	"	"	0.0182	"	102%	"	--	--	04/16/06 22:20	
Zinc	"	0.420	---	0.00500	"	"	0.325	"	95.0%	(70-130)	--	--	"	
Matrix Spike (6040691-MS2)				QC Source: PPD0380-01				Extracted: 04/14/06 15:23						
Copper	EPA 200.8	0.276	---	0.0200	mg/l	10x	0.181	0.100	95.0%	(75-125)	--	--	04/26/06 10:58	
Lead	"	0.167	---	0.0100	"	"	0.0831	"	83.9%	"	--	--	04/27/06 06:01	
Zinc	"	2.08	---	0.0500	"	"	1.95	"	130%	(70-130)	--	--	04/26/06 10:58	

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Brian L Cone

Brian Cone, Industrial Services Manager

North Creek Analytical, Inc.
Environmental Laboratory Network

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Siltronic	Project Name: Storm Water	
7200 N.W. Front Ave	Project Number: Spring 2006/22-24/PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager: Thomas Rothschild	04/30/06 18:00

Conventional Chemistry Parameters by APHA/EPA Methods - Laboratory Quality Control Results

North Creek Analytical - Bothell

QC Batch: 6D18011 Water Preparation Method: Gravimetric (hexane)

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6D18011-BLK1)								Extracted: 04/18/06 08:46						
Oil & Grease (HEM)	EPA 1664A	ND	---	5.00	mg/l	1x	--	--	--	--	--	--	04/19/06 16:54	
Total Petroleum Hydrocarbons (SGT-HEM)	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
LCS (6D18011-BS1)								Extracted: 04/18/06 08:46						
Oil & Grease (HEM)	EPA 1664A	35.7	---	5.00	mg/l	1x	--	40.0	89.2%	(78-114)	--	--	04/19/06 16:54	
Total Petroleum Hydrocarbons (SGT-HEM)	"	15.1	---	5.00	"	"	--	20.0	75.5%	(64-132)	--	--	"	
LCS Dup (6D18011-BSD1)								Extracted: 04/18/06 08:46						
Oil & Grease (HEM)	EPA 1664A	35.9	---	5.00	mg/l	1x	--	40.0	89.8%	(78-114)	0.559%	(18)	04/19/06 16:54	
Total Petroleum Hydrocarbons (SGT-HEM)	"	13.8	---	5.00	"	"	--	20.0	69.0%	(64-132)	9.00%	(34)	"	

North Creek Analytical - Portland

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Brian Cone, Industrial Services Manager

North Creek Analytical, Inc.
Environmental Laboratory Network

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Siltronic	Project Name:	Storm Water	
7200 N.W. Front Ave	Project Number:	Spring 2006/22-24/PO# 4500186654	Report Created:
Portland, OR 97210	Project Manager:	Thomas Rothschild	04/30/06 18:00

Notes and Definitions

Report Specific Notes:

None

Laboratory Reporting Conventions:

DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.

ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).

NR / NA - Not Reported / Not Available

dry - Sample results reported on a dry weight basis. Reporting Limits have been corrected for %Solids.

wet - Sample results and reporting limits reported on a wet weight basis (as received).

RPD - Relative Percent Difference. (RPDs calculated using Results, not Percent Recoveries).

MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.

MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated results.

Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.

Reporting limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Brian L Cone

an Cone, Industrial Services Manager

SCOEPA00025910

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2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: PPD0384

NCA CLIENT: Siltronic

REPORT TO: Tom Rothschild

ADDRESS: 7200 NW Front Ave
Portland, Oregon

PHONE: 503-219-7374 FAX: 503-219-4144

INVOICE TO: Accts Payable

P.O. NUMBER: 4500186654

PROJECT NAME: Stormwater-Spring '06

PROJECT NUMBER: 22~24

SAMPLED BY: Tom Rothschild
Paul Wittke

TURNAROUND REQUEST in Business Days *

Organic & Inorganic Analyses: [X] STD [7] [5] [4] [3] [2] [1] [<1]

Petroleum Hydrocarbon Analyses: [X] STD [4] [3] [2] [1] [<1]

OTHER Specify:

* Turnaround Request less than standard may incur Rush Charges.

CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	PRESERVATIVE	REQUESTED ANALYSES												MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID
			oil/grease (1664)	Cu, Pb, Zn (200.8)														
1 06-22-SW-N	4/10/06 0800		X	X											W	2		
2 06-23-SW-E	4/10/06 0815		X	X											W	2		
3 06-24-SW-S	4/10/06 0745		X	X											W	2		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

RELEASED BY: Dianne Irish		DATE: 4.10.06	RECEIVED BY:		DATE: 4/10/06
PRINT NAME: Dianne Irish	FIRM: Siltronic	TIME:	PRINT NAME: Bob E	FIRM: NCA	TIME: 15:25
RELEASED BY:		DATE:	RECEIVED BY:		DATE: Tab 16:20
PRINT NAME:	FIRM:	TIME:	PRINT NAME:	FIRM:	TIME:

ADDITIONAL REMARKS:

TEMP:

COC REV 09/04

PAGE OF

SCOEPA00025911

Non-Conformances?
Circle Y or N
(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: (applies to temp at receipt)	Logged-in By:	Unpacked/Labeled By:	Cooler ID: ____ (____ of ____)
Date: 4/10/06	Date: 4.10.06	Date: 4.10.06	Work Order No PPD0384
Time: 15 25	Initials: [illegible]	Initials: [illegible]	Client: Siltronix
Initials: [illegible]			Project: Stormwater - Spring '06

Container Type:
1 Cooler
____ Box
____ None/Other ____

COC Seals
____ Ship. Container ____ Sign By
____ On Bottles ____ Date
X None

Packing Material
____ Bubble Bags ____ Styrofoam
____ Foam Packs
____ None/Other Other ____

Refrigerant
____ Gel Ice Pack ____ ____ None
X Loose Ice
____ None/Other ____

Received Via. Bill#
____ Fed Ex ____ Client
____ UPS X NCA Courier BOB
____ DHL ____ Mid Valley
____ Senvoy ____ TDP
____ GS ____ Other ____

Cooler Temperature (IR): 43 °C Plastic Glass (circle one) (Frozen filters, Tedlars and aqueous Metals exempt)

Temperature Blank? ____ °C or NA Trip Blank? Y or N or NA

Sample Containers:		ID			ID
Intact?	Y or N		Metals Preserved?	Y or N or NA	
Provided by NCA?	Y or N		Client QAPP Preserved?	Y or N or NA	
Correct Type?	Y or N		Adequate Volume? (for tests requested)	Y or N	
#Containers match COC?	Y or N		Water VOAs: Headspace?	Y or N or NA	
IDs/time/date match COC?	Y or N		Comments:		
Hold Times in hold?	Y or N				

PROJECT MANAGEMENT

Is the Chain of Custody complete? Y or N If N, circle the items that were incomplete

Comments Problems ____

Total access set up? Y or N
Has client been contacted regarding non-conformances? Y or N If Y, ____/____ Date Time

PM initials ____ Date ____ Time ____

rrev 0 09/12/05

SCOEPA00025912

BENCHSHEET

TOTAL SUSPENDED SOLIDS (TSS)

Sample Date: 4.10.06 Oven Temp: 103 C Analyst: DI

Date In: 4.10.06 Time In/Out: 1000 / 1315

Tin #	Sample	Vol, ml	Gross Wt, g	Tare Wt, g	TSS, mg/L
1	Blank	N/A	0.0907	0.0907	
2	North	500	0.0922	0.0909	2.6
3	North	500	0.0928	0.0915	2.6
				North Average TSS	2.6
4	East	500	0.0970	0.0921	9.8
5	East	500	0.0962	0.0909	10.6
				East Average TSS	10.2
6	South	500	0.0935	0.0914	4.2
7	South	500	0.0939	0.0920	3.8
				South Average TSS	4.0

Notes: See back for TSS Pads.

Calculation: TSS, mg/L = $\frac{\text{(Gross Wt, mg - Tare Wt, mg) X 1000}}{\text{Volume of Sample, ml}}$

Note: NPDES permit: monthly avg. 23 mg/L, daily max. 61 mg/L.
POTW permit: daily max 350 mg/L.

Reference: 1. Standard Methods for the Examination of Water and Wastewater, 1998, 20th Edition, Section 2540 D, page 2-57.
2. National Pollution Discharge Elimination System Permit #101128.

TJR 21 Mar 1987
DEI 12 Nov 2003 Revised

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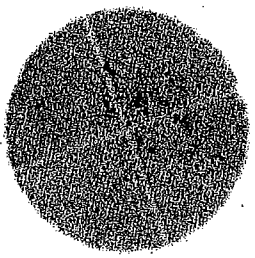
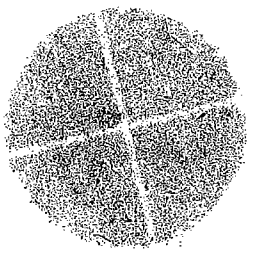
North



East

South



BENCHSHEET

pH

Test Date: 4.10.06 Sample Date: 4.10.06 Analyst: DI

Slope: 99.3 (Range: 92 to 102%)

Standards:

4.0 mg/L: Lot #: 1407303 Date Opened: 3/28/05

7.0 mg/L: Lot #: 1504752 Date Opened: 11/01/05

10.0 mg/L: Lot #: 1506586 Date Opened: 4/6/06

Sample	pH Units
North	5.76
East	6.31
South	6.49

Notes: _____

_____

_____

Reference:1. Standard Methods For The Examination of Water And Wastewater, 1998, 20th Edition, Section 4500-H^+B page 4-87.

DEI 13 Aug 2003

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Siltronic Corporation Storm Water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

PARAMETER	BENCHMARK[1]	UM	DATE:	4.10.06	D1
			North	East	South
Floating Solids	No visible discharge	Yes or No	No	No	No
Oil and Grease Sheen*	No visible sheen	Yes or No	No	No	No

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

STORM WATER SAMPLING – Semiannual:

PARAMETER	BENCHMARK[1]	UM	DATE:		
			North	East	South
Total Copper	0.1	mg/L	0.00480	0.00813	0.00505
Total Lead	0.4	mg/L	<0.001	<0.001	0.00106
Total Zinc	0.6	mg/L	0.0887	0.156	0.117
PH	5.5-9	Su	5.76	6.31	6.49
TSS	130	mg/L	2.6	10.2	4.0
Oil and Grease	10	mg/L	<4.81	<4.81	<4.81

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Jim Claxton in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Jim Claxton.

N:\ENVIRONMENTAL\FACLAB\WWTP\LOG\STORMWATER.DOC

7003 2260 0001 3454 3374

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Street, or PO

City, S

Wesley McDaniel
Water Pollution Control Laboratory
6543 N. Burlington Ave.
Portland, OR 97203-5452

PS Form 3800, June 2002 See Reverse for Instructions

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Wesley McDaniel
Water Pollution Control Laboratory
6543 N. Burlington Ave.
Portland, OR 97203-5452

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* C. Date of Delivery 6-10-08

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

PORTLAND, OR SAINT JOHNS JUN 10 2008 STATION

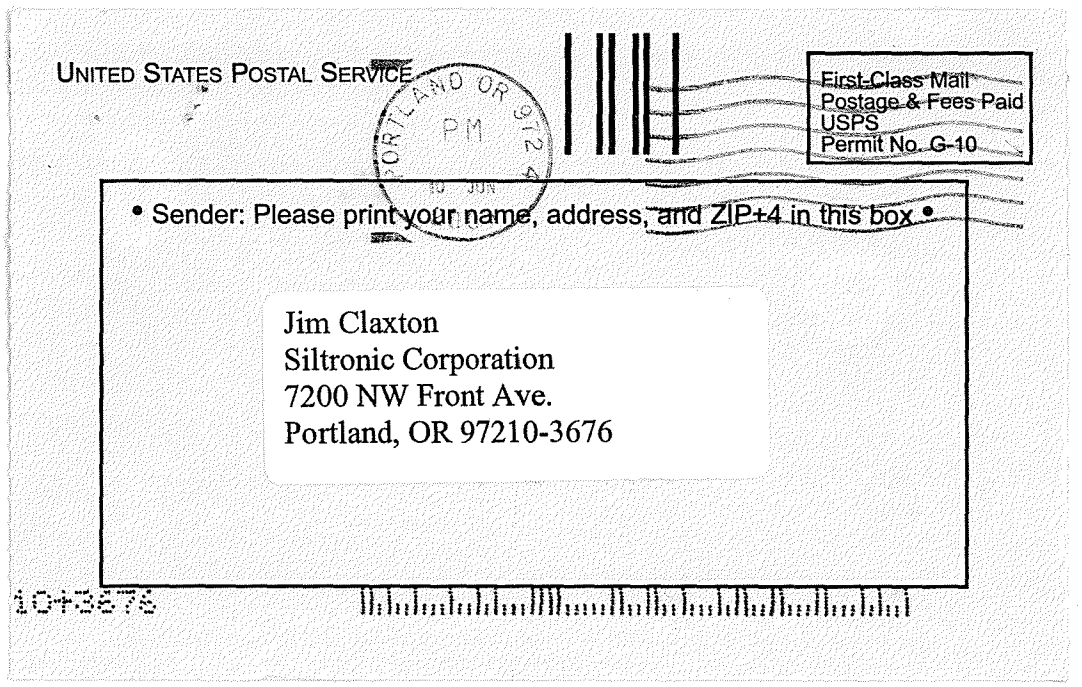
3. Service Type
☒ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? *(Extra Fee)* ☐ Yes

2. Article Number *(Transfer from service label)* 7003 2260 0001 3454 3374

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SCOEPA00025918


UNITED STATES POSTAL SERVICE
PORTLAND OR 972
PM
10 JUN
First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10
• Sender: Please print your name, address, and ZIP+4 in this box •
Jim Claxton
Siltronic Corporation
7200 NW Front Ave.
Portland, OR 97210-3676
10+3676

Jim Claxton
Environmental Engineer

Siltronic Corporation
7200 NW Front Avenue, M/S 30
Portland OR 97210-3676, USA
Tel. 503-219-7313
Fax 503-219-7599
jim.claxton@siltronic.com

Wesley McDaniel
City of Portland
Industrial Stormwater Program
6543 N Burlington Avenue
Portland, Oregon 97203-5452

ER: 024.JWC

June 9, 2005

Industrial Storm Water NPDES 1200-Z Monitoring Report for July 1, 2004 to June 30, 2005

Dear Mr. McDaniel,

Attached is Siltronic Corporation's Industrial Storm Water NPDES 1200-Z Monitoring Report for July 1, 2004 to June 30, 2005 as required by Siltronic's NPDES Storm Water Discharge Permit number 1200-Z issued October 1, 2002. Sampling was conducted November 2, 2004 and March 23 & 28, 2005 meeting the requirement of conducting two monitoring events per sample point between July 1, 2004 and June 30, 2005. All parameters were below benchmarks.

The following materials are enclosed in this report:

1. A summary of the results for 2004-2005 including sample results, bench marks, detection limits and analytical methods used.
2. Siltronic Corporation laboratory bench sheets for TSS and pH.
3. Copies of outside laboratory reports including the chain of custody forms for copper, lead, zinc and total oil & grease.

If you have any questions or comments, please contact me.

Best regards,

Siltronic Corporation

J Claxton

Jim Claxton
Environmental Engineer

CC: BES Storm water File
Tom Rothschild

Industrial Source Control Division

INDUSTRIAL STORMWATER

NPDES 1200-Z MONITORING REPORT

Industry Name: **SILTRONICS CORPORATION**

Site Address: **7200 NW Front Avenue, Portland, OR 97210-3676**

The permittee shall monitor stormwater **twice** per year for the parameters outlined in their NPDES 1200-Z Stormwater Discharge Permit Schedule B.1.a., and submit results to the City as stated in Schedule D.2.

Stormwater samples were taken for the above permittee, on these days and at these sample points:

Sample Date(s)	Sample Point(s)
11/2/04	NORTH, EAST, SOUTH
3/23/05	NORTH
3/28/05	EAST, SOUTH

The permittee shall submit by **July 15** of each year a copy of the **laboratory analysis reports,** which show analytical methods and detection limits, for stormwater samples collected for the previous monitoring year (July 1- June 30).

☐ **Monitoring Waiver Reduction Notification:**
Check the box if your facility is exercising a waiver of monitoring based on meeting benchmarks listed in Schedule A.9., AND site conditions have not changed to impact stormwater run-off. Note: This does not exclude your facility from notifying DEQ about the waiver of monitoring. Please read Schedule B of the permit to clearly understand the monitor waiver reduction guidelines. If waiver request is for select pollutants, list the parameters excluded from monitoring: _____.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: J Claxton
Title: ENVIRONMENTAL ENGINEER
Date: 6/9/05

Revised 06/09/2005

SCOEPA00025921

siltronic
perfect silicon solutions

Summary of results for 2004 - 2005

PARAMETER	Sample date	North results	South results	East results	BENCH MARK	Units	Detection limit	Method & Comments
Copper	11/2/2004	<0.03	<0.03	<0.03	0.1	mg/L	0.03	EPA 200.7
	3/23-28/05	**<0.03**	**<0.03**	**0.03**				
Lead	11/2/2004	<0.005	<0.005	<0.005	0.4	mg/L	0.005	EPA 239.2
	3/23-28/05	**<0.005**	**<0.005**	**<0.005**				
Zinc	11/2/2004	<0.1	<0.1	0.1	0.6	mg/L	0.05	EPA 200.7
	3/23-28/05	**0.17**	**0.15**	**0.23**				
pH	11/2/2004	5.95	6.17	6.16	5.5-9	pH units	0.1	Standards Methods 1998, 20th ed, Section 4500-H^+
	3/23-28/05	**5.8**	**6.5**	**6.8**				
TSS	11/2/2004	5.0	17.3	3.6	130	mg/L	0.1	Standards Methods 1998, 20th ed, Section 2540 D
	3/23-28/05	**1.7**	**11.2**	**16.2**				
Oil and Grease	11/2/2004	<3	<3	<3	10	mg/L	3	EPA 1664
	3/23-28/05	**<3**	**<3**	**<3**				

ORELAP 100028

RECEIVED NOV 2 9 2004

Report Date: November 22, 2004
Job Number: A41104AX
PO Number: 4500075102
Project No: 110-112
Project Name: Storm Water Fall 2004

Tom Rothschild
Siltronic Corporation
7200 NW Front Avenue
Portland, OR 97210-3676

Analytical Narrative

The sample was received on 11/04/04 by Coffey Laboratories, Inc. (CLI) Sample Reception personnel under strict chain of custody protocol. The following information was provided at the time of sample reception:

Laboratory Sample ID	Field Identification	Matrix	Collection Date	Collection Time
A41104AX-1	04-110-SW-N	Storm Water	11/02/04	0915
A41104AX-2	04-111-SW-E	Storm Water	11/02/04	0945
A41104AX-3	04-112-SW-S	Storm Water	11/02/04	0930

The recommended holding time for each batch of analyses was in accordance with the data quality objectives as specified in the CLI Quality Assurance Plan unless otherwise noted.

Acceptable precision and accuracy were achieved for all analyses associated with this work order as demonstrated by the recoveries of the quality control samples analyzed concurrently with each batch.

The data submitted in this report is for the sole and exclusive use of the above-named client. All samples associated with the work order will be retained a maximum of 15 days from the report date or until the maximum holding time expires. All results pertain only to samples submitted.

Thank you for allowing Coffey Laboratories to be of service to you. If you have questions or need further assistance, please do not hesitate to call our Customer Services Department.

Sincerely,

John A. Guild

Technical Services

TS /atc

ORELAP 100028

Analytical Data

Siltronic Corporation

Job Number: A41104AX
Page Number: 2 of 4

Lab Sample ID: A41104AX-1
Field ID: 04-110-SW-N
Date/Time: 11/02/04 0915
Matrix: Storm Water

EPA Category: Inorganic Chemicals

Parameter	Method	Detection Limit	Analytical Result	Units
Total Oil & Grease	EPA 1664	3.	ND	mg/L
Copper	EPA 200.7	0.03	ND	mg/L
Zinc	EPA 200.7	0.1	ND	mg/L
Lead*	EPA 239.2	0.005	ND	mg/L

ND means none detected at or above the detection limit listed.
*The analysis is not covered under ORELAP scope of accreditation.

Coffey Laboratories, Inc.
12423 N.E. Whitaker Way • Portland, OR • 97230 • (503) 254-1794 • FAX (503) 254-1452

SCOEPA00025924

ORELAP 100028

Analytical Data

Siltronic Corporation

Job Number: A41104AX
Page Number: 3 of 4

Lab Sample ID: A41104AX-2
Field ID: 04-111-SW-E
Date/Time: 11/02/04 0945
Matrix: Storm Water

EPA Category: Inorganic Chemicals

Parameter	Method	Detection Limit	Analytical Result	Units
Total Oil & Grease	EPA 1664	3.	ND	mg/L
Copper	EPA 200.7	0.03	ND	mg/L
Zinc	EPA 200.7	0.1	0.1	mg/L
Lead*	EPA 239.2	0.005	ND	mg/L

ND means none detected at or above the detection limit listed.
*The analysis is not covered under ORELAP scope of accreditation.

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ORELAP 100028

Analytical Data

Siltronic Corporation

Job Number: A41104AX
Page Number: 4 of 4

Lab Sample ID: A41104AX-3
Field ID: 04-112-SW-S
Date/Time: 11/02/04 0930
Matrix: Storm Water

EPA Category: Inorganic Chemicals

Parameter	Method	Detection Limit	Analytical Result	Units
Total Oil & Grease	EPA 1664	3.	ND	mg/L
Copper	EPA 200.7	0.03	ND	mg/L
Zinc	EPA 200.7	0.1	ND	mg/L
Lead*	EPA 239.2	0.005	ND	mg/L

ND means none detected at or above the detection limit listed.
*The analysis is not covered under ORELAP scope of accreditation.

Coffey Laboratories, Inc.
12423 N.E. Whitaker Way • Portland, OR • 97230 • (503) 254-1794 • FAX (503) 254-1452

COFFEY LABORATORIES, INC.
CHAIN OF CUSTODY AGREEMENT

CENTRAL OREGON BRANCH
827 SW 7th
Redmond, OR 97756
PHONE/FAX (541) 548-0972

CORPORATE HEADQUARTERS
12423 NE Whitaker Way
Portland, OR 97230
(503) 254-1794 FAX: (503) 254-1452

EASTERN OREGON BRANCH
419 SW 5th
Pendleton, OR 97801
PHONE/FAX (541) 276-0385

Report Attention: Tom Rothschild
Company Name: Siltronic
Mailing Address: 7200 N W Front Ave
Portland, Oregon
Phone: (503) 219-7274 FAX: (503) 417-4141

Report Instructions (Special - Additional- Job Specific):

PO Number: 4500075102
Project Number: 110 ~ 112
Project Name: Storm Water - Fall - 2004
EPA Protocol Containers: Y/N Other:

Sample Turnaround
- [x] Standard
- [ ] Priority (Additional Fee)
- [ ] Rush (Additional Fee)
- [ ] Emergency (Additional Fee)

Reporting Request
- [ ] State Compliance Format
- [x] FAX Results - Preliminary
- [ ] FAX Results-Final
- [ ] Verbals Results
- [ ] Extra Report Copy (Fees Associated)

Initials: DI

FOR LABORATORY USE ONLY — Page ___ of ___
Job Number
Custody
NEW
VISA M/C Cardholder
Card #
Exp
Cash Check CC#
Billing Code
RECEIVED
FEDEX UPS BUS COURIER UPS NW LAB CLIENT EMAIL AIR

Sample ID	Doc	ID	#	Collection Date	Collection Time	Media	Analysis Requested	Test Profile
04-110-SW-N				11/2/04	0915		Oil+Grease (EPA 1664) Cu, Pb, Zn CEPA 200.8	
04-111-SW-E				11/2/04	0945		" "	
04-112-SW-S				11/2/04	0930		" "	

Sampled By: JR+FT
AUTHORIZED CUSTOMER SIGNATURE: Dianne Thrush DATE: 11/2/04

Sample Comments	Relinquished by: (Please Sign)	Date	Time	Received by: (Sign)	Date	Time
	Dianne Thrush	11/4/04	1030	Walter W. Allen	11/4/04	1030

White Copy-Laboratory Yellow Copy - Customer

COMPLETE THIS FORM PER INSTRUCTIONS ON REVERSE SIDE

SUBMISSION OF SAMPLES WITH TESTING REQUIREMENTS TO CLI WILL BE UNDERSTOOD TO BE AN AGREEMENT FOR SERVICES IN ACCORDANCE WITH THE CONDITIONS LISTED ON THE BACK OF THE CLIENT COPY.

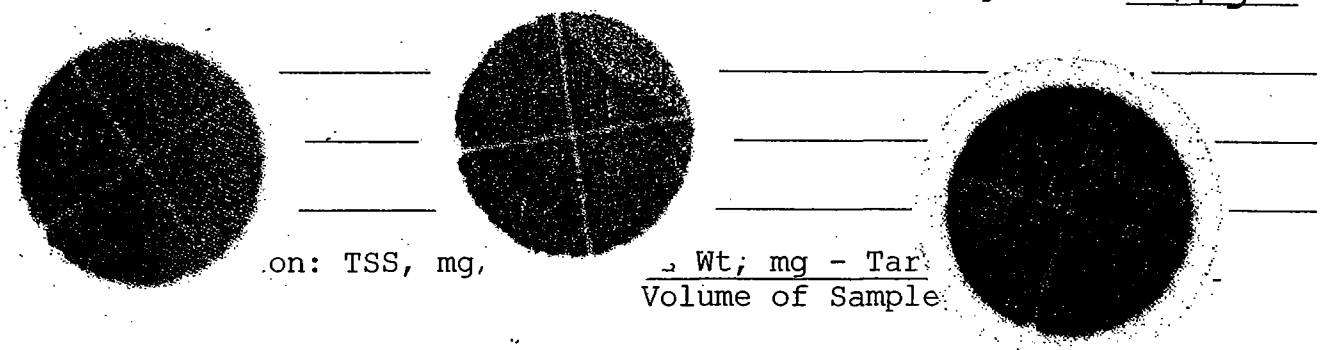
BENCHSHEET

TOTAL SUSPENDED SOLIDS (TSS)

Sample Date: 11·2·04 Oven Temp: 105 C Analyst: DI

Date In: 11·2·04 Time In/Out: 1100 / 1340

Tin #	Sample	Vol, ml	Gross Wt, g	Tare Wt, g	TSS, mg/L
1	Blank	N/A	0.0876	0.0876	0
2	04-110-N	500	0.0898	0.0872	4.8
3	04-110-N	500	0.0927	0.0901	5.2
				North Average TSS	5.0
4	04-111-E	500	0.0910	0.0892	3.6
5	04-111-E	500	0.0907	0.0889	3.6
				East Average TSS	3.6
6	04-112-S	500	0.0964	0.0879	17.0
7	04-112-S	500	0.0980	0.0892	17.6
				South Average TSS	17.3



on: TSS, mg, Wt; mg - Tar
Volume of Sample

Note: NPDES permit: monthly avg. 23 mg/L, daily max. 61 mg/L.
POTW permit: daily max 350 mg/L.

Reference: 1. Standard Methods for the Examination of Water and Wastewater, 1998, 20th Edition, Section 2540 D, page 2-57.
2. National Pollution Discharge Elimination System Permit #101128.

TJR 21 Mar 1987
DEI 12 Nov 2003 Revised

SCOEPA00025928

BENCHSHEET

pH

Test Date: 11/2/04 Sample Date: 11/2/04 Analyst: DI

Slope: 99.7 (Range: 92 to 102%)

Standards:

4.0 mg/L: Lot #: 1301302 Date Opened: 8/28/03

7.0 mg/L: Lot #: 1311022 Date Opened: 2/27/04

10.0 mg/L: Lot #: 1307336 Date Opened: 11/26/03

Sample	pH Units
North	5.95
East	6.16
South	6.17

Notes: _____

_____

_____

Reference: 1. Standard Methods For The Examination of Water And Wastewater, 1998, 20th Edition, Section 4500-H^+B page 4-87.

DEI 13 Aug 2003

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Siltronic Corporation Storm Water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

PARAMETER	BENCHMARK[1]	UM	DATE:	11/2/04	Di
			North	East	South
Floating Solids	No visible discharge	Yes or No	No	No	No
Oil and Grease Sheen*	No visible sheen	Yes or No	No	No	No

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

STORM WATER SAMPLING – Semiannual:

PARAMETER	BENCHMARK[1]	UM	DATE:	11/2/04	Di
			North	East	South
Total Copper	0.1	mg/L	<0.03	<0.03	<0.03
Total Lead	0.4	mg/L	<0.005	<0.005	<0.005
Total Zinc	0.6	mg/L	<0.1	0.1	<0.1
PH	5.5-9	Su	5.95	6.16	6.17
TSS	130	mg/L	5.0	3.6	17.3
Oil and Grease	10	mg/L	<3	<3	<3

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Jim Claxton in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Jim Claxton.

N:\ENVIRONMENTAL\FACLAB\WWTP\LOG\STORMWATER.DOC

ORELAP 100028

RECEIVED APR 11 2005

Report Date: April 6, 2005
Job Number: A50324BF
PO Number: 4500075102
Project No: None Provided
Project Name: 05-23 Stormwater - North

Tom Rothschild
Siltronic Corporation
7200 NW Front Avenue
Portland, OR 97210-3676

Analytical Narrative

The sample was received on 03/24/05 by Coffey Laboratories, Inc. (CLI) Sample Reception personnel under strict chain of custody protocol. The following information was provided at the time of sample reception:

Laboratory Sample ID	Field Identification	Matrix	Collection Date	Collection Time
A50324BF-1	05-23 Stormwater - North	Waste Water	03/23/05	1300

The recommended holding time for each batch of analyses was in accordance with the data quality objectives as ecified in the CLI Quality Assurance Plan unless otherwise noted.

Acceptable precision and accuracy were achieved for all analyses associated with this work order as demonstrated by the recoveries of the quality control samples analyzed concurrently with each batch.

The data submitted in this report is for the sole and exclusive use of the above-named client. All samples associated with the work order will be retained a maximum of 15 days from the report date or until the maximum holding time expires. All results pertain only to samples submitted.

Thank you for allowing Coffey Laboratories to be of service to you. If you have questions or need further assistance, please do not hesitate to call our Customer Services Department.

Sincerely,

John A. Guild

Technical Services

TS /atc

Coffey Laboratories, Inc.
12423 N.E. Whitaker Way • Portland, OR • 97230 • (503) 254-1794 • FAX (503) 254-1452

SCOEPA00025931

ORELAP 100028

Analytical Data

Siltronic Corporation

Job Number: A50324BF
Page Number: 2 of 2

Lab Sample ID: A50324BF-1
Field ID: 05-23 Stormwater - North
Date/Time: 03/23/05 1300
Matrix: Waste Water

EPA Category: Inorganic Chemicals

Parameter	Method	Detection Limit	Analytical Result	Units
Total Oil & Grease	EPA 1664	3.	ND	mg/L
Biochemical Oxygen Demand	EPA 405.1	3.	ND	mg/L
Copper	EPA 200.7	0.03	ND	mg/L
Zinc	EPA 200.7	0.05	0.17	mg/L
Chromium	EPA 218.2	0.001	ND	mg/L
Lead	EPA 239.2	0.005	ND	mg/L

) means none detected at or above the detection limit listed.

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COFFEY LABORATORIES, INC.
CHAIN OF CUSTODY AGREEMENT

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Redmond, OR 97756
PHONE/FAX (541) 548-0972

CORPORATE HEADQUARTERS
12423 NE Whitaker Way
Portland, OR 97230
(503) 254-1794 FAX: (503) 254-1452

EASTERN OREGON BRANCH
419 SW 5th
Pendleton, OR 97801
PHONE/FAX (541) 276-0385

Report Attention: Tom Rothschild
Company Name: Siltronic
Mailing Address: 7200 N W Front Ave
Portland, Oregon
Phone: (503) 219-7274 FAX: (503) 417-4141

Report Instructions (Special - Additional- Job Specific):

PO Number: 4500075102
Project Number:
Project Name: Storm Water
EPA Protocol Containers: Y/N Other:

Sample Turnaround
- [x] Standard
- [ ] Priority (Additonal Fee)
- [ ] Rush (Additional Fee)
- [ ] Emergency (Additional Fee)

Initials: JJR

Reporting Request
- [ ] State Compliance Format
- [x] FAX Results - Preliminary
- [ ] FAX Results-Final
- [ ] Verbals Results
- [ ] Extra Report Copy (Fees Associated)

FOR LABORATORY USE ONLY — Page ___ of ___
Job Number:
Custody: NEW
☐ VISA ☐ M/C Cardholder:
Card #: Exp:
Cash / Check CC $:
Billing Code: 1 2 3 4
QC LEVEL: 1 2 3 4
FEDX TBUS COURIERS UPS SNEAB CLIENT MAIL AIR

Sample ID	Collection Date / Time		Media	Analysis Requested	Metals Profile
05-23 Storm Water - North	23 Mar 2005	1300	Water	Oil and Grease; BOD; Ca, Pb, Zn, Cr TD	

Sampled By: Thomas J. Rothschild
AUTHORIZED CUSTOMER SIGNATURE: Thomas J. Rothschild DATE: 23 Mar 2005

Sample Comments	Relinquished by: (Please Sign)	Date	Time	Received by: (Sign)	Date	Time
	Thomas J. Rothschild	24 Mar 2005	0915	V. Thompson	3/24/05	9:15

White Copy-Laboratory Yellow Copy - Customer

COMPLETE THIS FORM PER INSTRUCTIONS ON REVERSE SIDE

SUBMISSION OF SAMPLES WITH TESTING REQUIREMENTS TO CLI WILL BE UNDERSTOOD TO BE AN AGREEMENT FOR SERVICES IN ACCORDANCE WITH THE CONDITIONS LISTED ON THE BACK OF THE CLIENT COPY.

ORELAP 100028

RECEIVED APR 2 2 2005

Report Date: April 18, 2005
Job Number: A50328BJ
PO Number: 4500075102
Project No: None Provided
Project Name: Stormwater

Tom Rothschild
Siltronic Corporation
7200 NW Front Avenue
Portland, OR 97210-3676

Analytical Narrative

The sample was received on 03/28/05 by Coffey Laboratories, Inc. (CLI) Sample Reception personnel under strict chain of custody protocol. The following information was provided at the time of sample reception:

Laboratory Sample ID	Field Identification	Matrix	Collection Date	Collection Time
A50328BJ-1	05 - 26 - Stormwater - East	Storm Water	03/28/05	1030
A50328BJ-2	05 - 25 - Stormwater - South	Storm Water	03/28/05	1050

The recommended holding time for each batch of analyses was in accordance with the data quality objectives as specified in the CLI Quality Assurance Plan unless otherwise noted.

Acceptable precision and accuracy were achieved for all analyses associated with this work order as demonstrated by the recoveries of the quality control samples analyzed concurrently with each batch.

The data submitted in this report is for the sole and exclusive use of the above-named client. All samples associated with the work order will be retained a maximum of 15 days from the report date or until the maximum holding time expires. All results pertain only to samples submitted.

Thank you for allowing Coffey Laboratories to be of service to you. If you have questions or need further assistance, please do not hesitate to call our Customer Services Department.

Sincerely,

John A. Guild

Technical Services

TS /atc

SCOEPA00025934

ORELAP 100028

Analytical Data

Siltronic Corporation

Job Number: A50328BJ
Page Number: 3 of 3

Lab Sample ID: A50328BJ-2
Field ID: 05 - 25 - Stormwater - South
Date/Time: 03/28/05 1050
Matrix: Storm Water

EPA Category: Inorganic Chemicals

Parameter	Method	Detection Limit	Analytical Result	Units
Total Oil & Grease	EPA 1664	3.	ND	mg/L
Biochemical Oxygen Demand	EPA 405.1	3.	ND	mg/L
Copper	EPA 200.7	0.03	ND	mg/L
Zinc	EPA 200.7	0.05	0.15	mg/L
Chromium	EPA 218.2	0.001	ND	mg/L
Lead	EPA 239.2	0.005	ND	mg/L

means none detected at or above the detection limit listed.

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ORELAP 100028

Analytical Data

Siltronic Corporation

Job Number: A50328BJ
Page Number: 2 of 3

Lab Sample ID: A50328BJ-1
Field ID: 05 - 26 - Stormwater - East
Date/Time: 03/28/05 1030
Matrix: Storm Water

EPA Category: Inorganic Chemicals

Parameter	Method	Detection Limit	Analytical Result	Units
Total Oil & Grease	EPA 1664	3.	ND	mg/L
Biochemical Oxygen Demand	EPA 405.1	3.	ND	mg/L
Copper	EPA 200.7	0.03	0.03	mg/L
Zinc	EPA 200.7	0.05	0.23	mg/L
Chromium	EPA 218.2	0.001	ND	mg/L
Lead	EPA 239.2	0.005	ND	mg/L

ND means none detected at or above the detection limit listed.

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EASTERN OREGON BRANCH
419 SW 5th
Pendleton, OR 97801
PHONE/FAX (541) 276-0385

Report Attention: Tom Rothschild
Company Name: Siltronic
Mailing Address: 7200 N W Front Ave
Portland, Oregon
Phone: (503) 219-7274 FAX: (503) 417-4141

Report Instructions (Special - Additional- Job Specific):

PO Number: 4500075102
Project Number:
Project Name: Stormwater
EPA Protocol Containers: Y/N Other:

Sample Turnaround
- [x] Standard
- [ ] Priority (Additonal Fee)
- [ ] Rush (Additional Fee)
- [ ] Emergency (Additional Fee)

Reporting Request
- [ ] State Compliance Format
- [x] FAX Results - Preliminary
- [ ] FAX Results-Final
- [ ] Verbals Results
- [ ] Extra Report Copy (Fees Associated)

Initials:

FOR LABORATORY USE ONLY Page ___ of ___
Job Number:
Custabbr: NEW
VISA M/C Cardholder:
Card # Exp:
Cash / Check / CC $ #
Billing Code: 1 2 3 4
QC LEVEL: 1 2 3 4
FEDX BUS COURIERS UPS LAB CLIENT MAIL AIR

Sample ID	Loc	ID	#	Collection Date	Collection Time	Media	Analysis Requested	Test Profile
~~05-23 - Stormwater - North~~						Storm-water	~~Oil + Grease; BOD; Cu, Pb, Zn + Cr (total)~~	
05-26 - Stormwater - East				28 Mar 2005	1030	↓	" " "	
05-25 - Stormwater - South				↓	1050	↓	" " "	

Sampled By: Thomas J. Rothschild
AUTHORIZED CUSTOMER SIGNATURE Thomas J. Rothschild DATE: 28 Mar 2005

Sample Comments	Relinquished by: (Please Sign)	Date	Time	Received by: (Sign)	Date	Time
(1) 05-23 was sent Previously - JJR	Thomas J. Rothschild	28 Mar 2005	1205	[signature]	3-28-05	1205

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BENCHSHEET

TOTAL SUSPENDED SOLIDS (TSS)

Sample Date: 23 Mar 2005 (2) 29 Mar 2005 Oven Temp: 107 C 111 C (2) 1020 Analyst: JJR 1305

Date In: 24 Mar 2005 Time In/Out: 0946 / ~1145

Tin #	Sample	Vol, ml	Gross Wt, g	Tare Wt, g	TSS, mg/L
1 (2)	Blank	–	0.0871 ~~0.0872~~ JJR	0.0872	–
1	Blank	–	0.0872	0.0875	–
6	North	500	0.0888	0.0880	1.6
7	North	500	0.0879	0.0870	1.8
				North Average TSS	1.7
2	East (2)	500	0.0956	0.0876	16
3	East (2)	500	0.0967	0.0885	16.4
				East Average TSS	16.2
4	South (2)	500	0.0923	0.0864	11.8
5	South (2)	500	0.0940	0.0887	10.6
				South Average TSS	11.2

Notes: (2) Sampled 28 Mar 2005, ~1050

Calculation: TSS, mg/L = $\frac{\text{(Gross Wt, mg - Tare Wt, mg) X 1000}}{\text{Volume of Sample, ml}}$

Note: NPDES permit: monthly avg. 23 mg/L, daily max. 61 mg/L.
POTW permit: daily max 350 mg/L.

Reference: 1. Standard Methods for the Examination of Water and Wastewater, 1998, 20th Edition, Section 2540 D, page 2-57.
2. National Pollution Discharge Elimination System Permit #101128.

TJR 21 Mar 1987
DEI 12 Nov 2003 Revised

SCOEPA00025938

BENCHSHEET

pH

Test Date: 28Mar2005 Sample Date: 28Mar2005 Analyst: JJR

Slope: 101.7 % (1) (Range: 92 to 102%)
95.7 (2)

Standards:

4.0 mg/L:	Lot #:	1407303 (2) 1301302 (1)	Date Opened:	28 ~~Aug~~ Mar 2005 (2) 28Aug 2003
7.0 mg/L:	Lot #:	1311022 (1)(2)	Date Opened:	27Feb 2004
10.0 mg/L:	Lot #:	—	Date Opened:	

Sample	pH Units
North (1)	5.8
East (2)	~~6.9~~ 6.8 JJR
South (2)	6.5

Notes: (1) 23 Mar 2005, 1306
(2) 28 Mar 2005, ~1050.

Reference: 1. Standard Methods For The Examination of Water And Wastewater, 1998, 20th Edition, Section 4500-H^+B page 4-87.

DEI 13 Aug 2003

L:\FACLAB\WWTP\BENCH\PHB.DOC

Wacker Siltronic Corporation Storm water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

PARAMETER	BENCHMARK[1]	UM	DATE: 23 Mar 2005	28 Mar 2005	28 Mar 2005
			North	East	South
Floating Solids	No visible discharge	Yes or No	No	No	No
Oil and Grease Sheen*	No visible sheen	Yes or No	No	No	No

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Jim Claxton in Environmental Engineering.

STORM WATER SAMPLING – Semiannual:

PARAMETER	BENCHMARK[1]	UM	DATE: 3/23/05	3/28/05	3/28/05
			North	East	South
Total Copper	0.1	mg/L	< 0.03	0.03	< 0.03
Total Lead	0.4	mg/L	< 0.005	< 0.005	< 0.005
Total Zinc	0.6	mg/L	0.17	0.23	0.15
pH (1)	5.5-9	Su	5.8	~~6.9~~ 6.8 3jR	6.5
TSS	130	mg/L	1.7	16.2	11.2
Oil and Grease	10	mg/L	<3	<3	<3
Chromium, Total		mg/L	<0.001	<0.001	<0.001

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Jim Claxton in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Jim Claxton.

(1) Rain Water pH: 5.1 ± 0.1. 3jR

Stormwater Analyses.

JmR

1420
23Nov2005

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COVER LETTER

Cover Letter: Page 1 of 1
Report Date: November 21, 2005
Job Number: A51102BV WackerSilt
Purchase Order: 45000186654
Project Name: Fall '05 Stormwater
Project No: 99-101/0511028

Tom Rothschild
Siltronic Corporation
7200 NW Front Avenue
Portland, OR 97210

Dear Tom Rothschild,

Enclosed please find Coffey Laboratories (CLI) analytical report Job Number A51102BV organized into the following sections:

Section	*Pages*
Cover Letter	1-1
Analytical Narrative	1-2
Sample Results	1-1
Lab Specific QC	1-1

This report and any other report completed by CLI dating back to 1979 is available in PDF format for you to view or download anytime from www.onlinelab.com with a valid username and password. If you do not have an online account with us, please give Customer Services a call and ask them to establish one.

Should you have any questions about this report or any other matter, please do not hesitate to contact us. We are here to help

President, Coffey Laboratories Incorporated:
Susan Coffey Susan.Coffey@CoffeyLabs.com (503) 254-1794 ext. 209
Quality Assurance:
Ragheda Kaady Ragheda.Kaady@CoffeyLabs.com (503) 254-1794 ext.214
Customer Service, Portland:
Linda Bangs Linda.Bangs@CoffeyLabs.com (503) 254-1794 ext.216
Mark Leed Mark.Leed@CoffeyLabs.com (503) 254-1794 ext.217
Customer Service, Pendleton:
Renee Struthers Renee.Struthers@CoffeyLabs.com (541) 276-0385
Diane Garton Diane.Garton@CoffeyLabs.com (541) 276-0385
Customer Service, Redmond:
Ann Llewellyn Ann.Llewellyn@CoffeyLabs.com (541) 548-0972

Thank you for allowing CLI to be of service to you, we appreciate your business.

Sincerely,

Mark W. Leed

Technical Services

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SCOEPA00025942

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Report Date: November 21, 2005
Job Number: A51102BV
Custabbr: WackerSilt

ANALYTICAL NARRATIVE

Job Comments:
The samples listed below were received at CLI Portland on 11/2/2005 as Job Number A51102BV.
Sample Comments:
All samples were properly preserved, in good condition, and in the appropriate containers.
Method Comments:
Recommended holding time was in accordance with method specific and/or data quality objectives specified in the CLI QAP. All analyses were performed according to the CLI QAP and met requirements of NELAC standards as documented in the Sample Results section of this report.

The Notes column at the Method line on Sample Results pages indicate which CLI branch performed the analyses and whether there were any holding time violations.
1. Analysis done at Portland Branch, ORELAP# OR100028
2. Analysis done at Pendelton Branch, ORELAP# OR100029
3. Analysis done at Redmond Branch
4. Method holding time exception

Analyte Comments:

B	Blank Contamination	MI	Matrix Interference
CV	Calculated Value	R	RPD ouside limit
D	Diluted out of range	RE	Re-Extracted and Re-Analyzed
E	Analyte Concentration Exceeds Range	S	Spike Recovery Outside Limit
H	Holding time exceeded	X	Non ORELAP accredited
J	Estimated Value, below MRL	Z	RPD Not Calculable with Duplicate ND

Miscellaneous Comments:
All results pertain only to samples submitted, are for the sole and exclusive use of the above-named client, and are provided under the terms and conditions of the CLI Chain of Custody. Samples will be retained a maximum of 15 days from the report date unless prior arrangements have been made.

Acronyms:

CLI	Coffey Laboratories, Incorporated
NELAC	National Environmental Laboratory Accreditation Conference
ORELAP	Oregon Environmental Laboratory Accreditation Program
NR	Not Reported
MRL	Method Reporting Limit
NA	Not Applicable
ND	None Detected at or Above MRL
NP	Not Provided
NC	Not Calculable
QAP	(Coffey Laboratories) Quality Assurance Plan
RPD	Relative Percent Difference

Abbreviations:
g = grams
L = liter
m = metric system prefix for milli or 10E-3
u = metric system prefix for micro or 10E-6.

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ANALYTICAL NARRATIVE

Field ID			Matrix			Notes
Container	*Size*	*Preservative*	*Lab ID*	*Collect Date*	*Collect Time*	
[illegible]			[illegible]			
Glass	*1L*	*HCl*	*51102BV1i*	*11/01/2005*	*08:50*	
Plastic	*250ml*	*HNO3*	*51102BV1j*	*11/01/2005*	*08:50*	
[illegible]			[illegible]			
Glass	*1L*	*HCl*	*51102BV2i*	*11/01/2005*	*08:30*	
Plastic	*250ml*	*HNO3*	*51102BV2j*	*11/01/2005*	*08:30*	
[illegible]			[illegible]			
Glass	*1L*	*HCl*	*51102BV3i*	*11/01/2005*	*08:10*	
Plastic	*250ml*	*HNO3*	*51102BV3j*	*11/01/2005*	*08:10*	

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SAMPLE RESULTS

Sample results: Page 1 of 1
Report Date: November 21, 2005
Job Number: A51102BV SW
Custabbr WackerSilt

Parameter	Results	MRL	Unit	Dilution	Batch	Extracted	Analyzed	Analyst	Notes
05-99-SW-10 (A51102BV-1)									
EPA 1664 Aqueous Chemicals									
Total Oil & Grease	ND	3.	mg/l	1	5110242		11/15/05	NAC	
EPA 200.7 Inorganic Chemicals									
Copper	ND	0.03	mg/L	1	5110094		11/03/05	MGH	
Zinc	0.06	0.05	mg/L	1	5110094		11/03/05	MGH	
EPA 239.2 Inorganic Chemicals									
Lead	ND	0.0052	mg/L	1	5110186		11/08/05	CV	
05-100-SW-S (A51102BV-2)									
EPA 1664 Aqueous Chemicals									
Total Oil & Grease	ND	3.	mg/l	1	5110242		11/15/05	NAC	
EPA 200.7 Inorganic Chemicals									
Copper	ND	0.03	mg/L	1	5110094		11/03/05	MGH	
Zinc	0.08	0.05	mg/L	1	5110094		11/03/05	MGH	
EPA 239.2 Inorganic Chemicals									
Lead	ND	0.0052	mg/L	1	5110186		11/08/05	CV	
05-101-SW-E (A51102BV-3)									
EPA 1664 Aqueous Chemicals									
Total Oil & Grease	ND	3.	mg/l	1	5110242		11/15/05	NAC	
EPA 200.7 Inorganic Chemicals									
Copper	ND	0.03	mg/L	1	5110094		11/03/05	MGH	
Zinc	0.1	0.05	mg/L	1	5110094		11/03/05	MGH	
EPA 239.2 Inorganic Chemicals									
Lead	ND	0.0052	mg/L	1	5110186		11/08/05	CV	

See Narrative for explanation of notes and abbreviations

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Lab QC: Page 1 of 1
Report Date: November 21, 2005
Job Number: A51102BV
Custabbr: WackerSilt

Laboratory Specific QC

Analyte	MRL	Result	Units	%Recovery	Limit	RPD	Limit	Notes
EPA 200.7	**Batch:** 5110094	**Runid:** CPIMULTI3 (Continuing Calibration Verif.)						
Copper	6.	98.	mg/L	98	75.-125.			
Zinc	10.	100.	mg/L	100	75.-125.			
EPA 200.7	**Batch:** 5110094	**Runid:** CPIMULTI3 (Initial Calibration Verif.)						
Copper	3.	99.	mg/L	99	75.-125.			
Zinc	5.	100.	mg/L	100	75.-125.			
EPA 200.7	**Batch:** 5110094	**Runid:** 3010MS-8 (Laboratory Control Sample)						
Copper	0.03	0.37	mg/L	95	75.-125.			
Zinc	0.05	0.39	mg/L	100	75.-125.			
EPA 200.7	**Batch:** 5110094	**Runid:** 51102W1J (Post Digestion Spike)						
Copper	0.03	1.8	mg/L	90	75.-125.			
Zinc	0.05	2.	mg/L	99	75.-125.			
EPA 239.2	**Batch:** 5110186	**Runid:** CPI-1 (Continuing Calibration Verif.)						
Lead	2.	9.	mg/L	90	75.-125.			
EPA 239.2	**Batch:** 5110186	**Runid:** JTB-6 (Initial Calibration Verif.)						
Lead	5.	10.	mg/L	100	75.-125.			
EPA 239.2	**Batch:** 5110186	**Runid:** CPIMULTI3 (Laboratory Control Sample)						
Lead	0.052	0.22	mg/L	101	75.-125.			
EPA 239.2	**Batch:** 5110186	**Runid:** CPIMULTI3 (Laboratory Control Sample)						
Lead	0.052	0.22	mg/L	99	75.-125.			
EPA 239.2	**Batch:** 5110186	**Runid:** 51031G2J (Post Digestion Spike)						
Lead	0.01	0.05	mg/L	101	75.-125.			
EPA 1664	**Batch:** 5110242	**Runid:** 1664LCS-1 (Laboratory Control Sample)						
Total Oil & Grease	3.	38.	mg/l	95	-			
EPA 1664	**Batch:** 5110242	**Runid:** 1664LCS-1 (Laboratory Control Duplicate)						
Total Oil & Grease	3.	39.	mg/l	97	-	2		

Ver 2005285 qc3 11/21/05 13:38:09

See Narrative for explanation of notes and abbreviations

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OR DEQ
WATER QUALITY SOURCE
CONTROL STORM WATER
2020 SW 4th, SUITE 400
PORTLAND, OR 97201-4987
ATT: DENNIS JURRIES

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X DEQ/NWR ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* JUN 10 2005 C. Date of Delivery

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If YES, enter delivery address below: ☐ No

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Jim Claxton
Siltronic Corporation
7200 NW Front Ave.
Portland, OR 97210-3676

24

siltronic
perfect silicon solutions

Jim Claxton
Environmental Engineer

Siltronic Corporation
7200 NW Front Avenue, M/S 30
Portland OR 97210-3676, USA
Tel. 503-219-7313
Fax 503-219-7599
jim.claxton@siltronic.com

Mr. Dennis Jurries, PE
Oregon Department of Environmental Quality
Water Quality Source Control Storm Water
2020 SW 4th Avenue, Suite 400
Portland, Oregon 97201-4987

ER: 025.JWC

June 9, 2005

Industrial Storm Water NPDES 1200-Z Monitoring Report for July 1, 2004 to June 30, 2005

Dear Mr. Jurries,

Attached is Siltronic Corporation's Industrial Storm Water NPDES 1200-Z Monitoring Report for July 1, 2004 to June 30, 2005 as required by Siltronic's NPDES Storm Water Discharge Permit number 1200-Z issued October 1, 2002. Sampling was conducted November 2, 2004 and March 23 & 28, 2005 meeting the requirement of conducting two monitoring events per sample point between July 1, 2004 and June 30, 2005. All parameters were below benchmarks.

The following materials are enclosed in this report:

1. A summary of the results for 2004-2005 including sample results, bench marks, detection limits and analytical methods used.
2. Siltronic Corporation laboratory bench sheets for TSS and pH.
3. Copies of outside laboratory reports including the chain of custody forms for copper, lead, zinc and total oil & grease.
4. Copies of monthly visual inspection reports for floating solids and oil & grease sheen.

If you have any questions or comments, please contact me.

Best regards,

Siltronic Corporation

J Claxton

Jim Claxton
Environmental Engineer

CC: DEQ Storm Water File
Tom Rothschild

Industrial Source Control Division

INDUSTRIAL STORMWATER

NPDES 1200-Z MONITORING REPORT

Industry Name: **SILTRONICS CORPORATION**

Site Address: **7200 NW Front Avenue, Portland, OR 97210-3676**

The permittee shall monitor stormwater **twice** per year for the parameters outlined in their NPDES 1200-Z Stormwater Discharge Permit Schedule B.1.a., and submit results to the City as stated in Schedule D.2.

Stormwater samples were taken for the above permittee, on these days and at these sample points:

Sample Date(s)	Sample Point(s)
11/2/04	NORTH, EAST, SOUTH
3/23/05	NORTH
3/28/05	EAST, SOUTH

The permittee shall submit by **July 15** of each year a copy of the **laboratory analysis reports,** which show analytical methods and detection limits, for stormwater samples collected for the previous monitoring year (July 1- June 30).

❑ **Monitoring Waiver Reduction Notification:**
Check the box if your facility is exercising a waiver of monitoring based on meeting benchmarks listed in Schedule A.9., AND site conditions have not changed to impact stormwater run-off. Note: This does not exclude your facility from notifying DEQ about the waiver of monitoring. Please read Schedule B of the permit to clearly understand the monitor waiver reduction guidelines. If waiver request is for select pollutants, list the parameters excluded from monitoring: _____.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: J Claxton
Title: ENVIRONMENTAL ENGINEER
Date: 6/9/05

Revised 06/09/2005

SCOEPA00025951

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Summary of Results for 2004 - 2005

PARAMETER	Sample date	North results	South results	East results	BENCH MARK	Units	Detection limit	Method & Comments
Copper	11/2/2004	<0.03	<0.03	<0.03	0.1	mg/L	0.03	EPA 200.7
	3/23-28/05	**<0.03**	**<0.03**	**0.03**				
Lead	11/2/2004	<0.005	<0.005	<0.005	0.4	mg/L	0.005	EPA 239.2
	3/23-28/05	**<0.005**	**<0.005**	**<0.005**				
Zinc	11/2/2004	<0.1	<0.1	0.1	0.6	mg/L	0.05	EPA 200.7
	3/23-28/05	**0.17**	**0.15**	**0.23**				
pH	11/2/2004	5.95	6.17	6.16	5.5-9	pH units	0.1	Standards Methods 1998, 20th ed, Section 4500-H^+
	3/23-28/05	**5.8**	**6.5**	**6.8**				
TSS	11/2/2004	5.0	17.3	3.6	130	mg/L	0.1	Standards Methods 1998, 20th ed, Section 2540 D
	3/23-28/05	**1.7**	**11.2**	**16.2**				
Oil and Grease	11/2/2004	<3	<3	<3	10	mg/L	3	EPA 1664
	3/23-28/05	**<3**	**<3**	**<3**				

ORELAP 100028

RECEIVED NOV 2 9 2004

Report Date: November 22, 2004
Job Number: A41104AX
PO Number: 4500075102
Project No: 110-112
Project Name: Storm Water Fall 2004

Tom Rothschild
Siltronic Corporation
7200 NW Front Avenue
Portland, OR 97210-3676

Analytical Narrative

The sample was received on 11/04/04 by Coffey Laboratories, Inc. (CLI) Sample Reception personnel under strict chain of custody protocol. The following information was provided at the time of sample reception:

Laboratory Sample ID	Field Identification	Matrix	Collection Date	Collection Time
A41104AX-1	04-110-SW-N	Storm Water	11/02/04	0915
A41104AX-2	04-111-SW-E	Storm Water	11/02/04	0945
A41104AX-3	04-112-SW-S	Storm Water	11/02/04	0930

The recommended holding time for each batch of analyses was in accordance with the data quality objectives as specified in the CLI Quality Assurance Plan unless otherwise noted.

Acceptable precision and accuracy were achieved for all analyses associated with this work order as demonstrated by the recoveries of the quality control samples analyzed concurrently with each batch.

The data submitted in this report is for the sole and exclusive use of the above-named client. All samples associated with the work order will be retained a maximum of 15 days from the report date or until the maximum holding time expires. All results pertain only to samples submitted.

Thank you for allowing Coffey Laboratories to be of service to you. If you have questions or need further assistance, please do not hesitate to call our Customer Services Department.

Sincerely,

John A. Guild

Technical Services

TS /atc

ORELAP 100028

Analytical Data

Siltronic Corporation

Job Number: A41104AX
Page Number: 2 of 4

Lab Sample ID: A41104AX-1
Field ID: 04-110-SW-N
Date/Time: 11/02/04 0915
Matrix: Storm Water

EPA Category: Inorganic Chemicals

Parameter	Method	Detection Limit	Analytical Result	Units
Total Oil & Grease	EPA 1664	3.	ND	mg/L
Copper	EPA 200.7	0.03	ND	mg/L
Zinc	EPA 200.7	0.1	ND	mg/L
Lead*	EPA 239.2	0.005	ND	mg/L

ND means none detected at or above the detection limit listed.
*The analysis is not covered under ORELAP scope of accreditation.

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ORELAP 100028

Analytical Data

Siltronic Corporation

Job Number: A41104AX
Page Number: 3 of 4

Lab Sample ID: A41104AX-2
Field ID: 04-111-SW-E
Date/Time: 11/02/04 0945
Matrix: Storm Water

EPA Category: Inorganic Chemicals

Parameter	Method	Detection Limit	Analytical Result	Units
Total Oil & Grease	EPA 1664	3.	ND	mg/L
Copper	EPA 200.7	0.03	ND	mg/L
Zinc	EPA 200.7	0.1	0.1	mg/L
Lead*	EPA 239.2	0.005	ND	mg/L

ND means none detected at or above the detection limit listed.
*The analysis is not covered under ORELAP scope of accreditation.

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ORELAP 100028

Analytical Data

Siltronic Corporation

Job Number: A41104AX
Page Number: 4 of 4

Lab Sample ID: A41104AX-3
Field ID: 04-112-SW-S
Date/Time: 11/02/04 0930
Matrix: Storm Water

EPA Category: Inorganic Chemicals

Parameter	Method	Detection Limit	Analytical Result	Units
Total Oil & Grease	EPA 1664	3.	ND	mg/L
Copper	EPA 200.7	0.03	ND	mg/L
Zinc	EPA 200.7	0.1	ND	mg/L
Lead*	EPA 239.2	0.005	ND	mg/L

ND means none detected at or above the detection limit listed.
*The analysis is not covered under ORELAP scope of accreditation.

Coffey Laboratories, Inc.
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SCOEPA00025956

COFFEY LABORATORIES, INC.
CHAIN OF CUSTODY AGREEMENT

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Redmond, OR 97756
PHONE/FAX (541) 548-0972

CORPORATE HEADQUARTERS
12423 NE Whitaker Way
Portland, OR 97230
(503) 254-1794 FAX: (503) 254-1452

EASTERN OREGON BRANCH
419 SW 5th
Pendleton, OR 97801
PHONE/FAX (541) 276-0385

Report Attention: Tom Rothschild
Company Name: Siltronic
Mailing Address: 7200 N W Front Ave
Portland, Oregon
Phone: (503) 219-7274 FAX: (503) 417-4141

Report Instructions (Special - Additional- Job Specific):

PO Number: 4500075102
Project Number: 110 ~ 112
Project Name: Storm Water - Fall-2004
EPA Protocol Containers: Y/N Other:

Sample Turnaround
- [x] Standard
- [ ] Priority (Additonal Fee)
- [ ] Rush (Additional Fee)
- [ ] Emergency (Additional Fee)

Reporting Request
- [ ] State Compliance Format
- [x] FAX Results - Preliminary
- [ ] FAX Results-Final
- [ ] Verbals Results
- [ ] Extra Report Copy (Fees Associated)

Initials: Di

FOR LABORATORY USE ONLY Page ___ of ___
Job Number:
Custabbr: NEW
VISA M/C Cardholder:
Card #: Exp:
Cash / Check / CC$ /
Billing Code: 1 2 3 4
QC LEVEL: 1 2 3 4
FEDX BUS COURIERS UPS LAB CLIENT MAIL AIR

Sample ID	Loc	ID	#	Collection Date	Collection Time	Media	Analysis Requested	Test Profile
04-110 - SW.N				11/2/04	0915		Oil+Grease (EPA 1664) Cu, Pb, Zn (EPA 2008)	
04-111 - SWE				11/2/04	0945		" "	
04-112 - SW.S				11/2/04	0930		" "	

Sampled By: JR+FT
AUTHORIZED CUSTOMER SIGNATURE Dianne Irish DATE: 11/2/04

Sample Comments	Relinquished by: (Please Sign)	Date	Time	Received by: (Sign)	Date	Time
	Dianne Irish	11/4/04	1030	[signature]	11-4-04	1030
				LAB		

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COMPLETE THIS FORM PER INSTRUCTIONS ON REVERSE SIDE

SUBMISSION OF SAMPLES WITH TESTING REQUIREMENTS TO CLI WILL BE UNDERSTOOD TO BE AN AGREEMENT FOR SERVICES IN ACCORDANCE WITH THE CONDITIONS LISTED ON THE BACK OF THE CLIENT COPY.

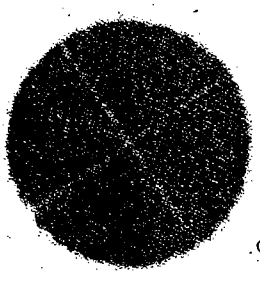
BENCHSHEET

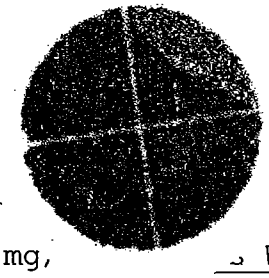
TOTAL SUSPENDED SOLIDS (TSS)

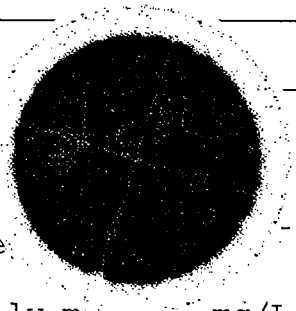
Sample Date: 11.2.04 Oven Temp: 105 C Analyst: DI

Date In: 11.2.04 Time In/Out: 1100 / 1340

Tin #	Sample	Vol, ml	Gross Wt, g	Tare Wt, g	TSS, mg/L
1	Blank	N/A	0.0876	0.0876	0
2	04-110-N	500	0.0898	0.0872	4.8
3	04-110-N	500	0.0927	0.0901	5.2
				North Average TSS	5.0
4	04-111-E	500	0.0910	0.0892	3.6
5	04-111-E	500	0.0907	0.0889	3.6
				East Average TSS	3.6
6	04-112-S	500	0.0964	0.0879	17.0
7	04-112-S	500	0.0980	0.0892	17.6
				South Average TSS	17.3







on: TSS, mg, Wt, mg - Tar
Volume of Sample

Note: NPDES permit: monthly avg. 23 mg/L, daily max. of mg/L.
POTW permit: daily max 350 mg/L.

Reference: 1. Standard Methods for the Examination of Water and Wastewater, 1998, 20th Edition, Section 2540 D, page 2-57.
2. National Pollution Discharge Elimination System Permit #101128.

TJR 21 Mar 1987
DEI 12 Nov 2003 Revised

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SCOEPA00025958

BENCHSHEET

pH

Test Date: 11/2/04 Sample Date: 11/2/04 Analyst: DI

Slope: 99.7 (Range: 92 to 102%)

Standards:

4.0 mg/L: Lot #: 1301302 Date Opened: 8/28/03

7.0 mg/L: Lot #: 1311022 Date Opened: 2/27/04

10.0 mg/L: Lot #: 1307336 Date Opened: 11/26/03

Sample	pH Units
North	5.95
East	6.16
South	6.17

Notes: _____

_____

_____

Reference: 1. Standard Methods For The Examination of Water And Wastewater, 1998, 20th Edition, Section 4500-H^+B page 4-87.

DEI 13 Aug 2003

L:\FACLAB\WWTP\BENCH\PHB.DOC

ORELAP 100028

RECEIVED APR 11 2005

Report Date: April 6, 2005
Job Number: A50324BF
PO Number: 4500075102
Project No: None Provided
Project Name: 05-23 Stormwater - North

Tom Rothschild
Siltronic Corporation
7200 NW Front Avenue
Portland, OR 97210-3676

Analytical Narrative

The sample was received on 03/24/05 by Coffey Laboratories, Inc. (CLI) Sample Reception personnel under strict chain of custody protocol. The following information was provided at the time of sample reception:

Laboratory Sample ID	Field Identification	Matrix	Collection Date	Collection Time
A50324BF-1	05-23 Stormwater - North	Waste Water	03/23/05	1300

The recommended holding time for each batch of analyses was in accordance with the data quality objectives as ecified in the CLI Quality Assurance Plan unless otherwise noted.

Acceptable precision and accuracy were achieved for all analyses associated with this work order as demonstrated by the recoveries of the quality control samples analyzed concurrently with each batch.

The data submitted in this report is for the sole and exclusive use of the above-named client. All samples associated with the work order will be retained a maximum of 15 days from the report date or until the maximum holding time expires. All results pertain only to samples submitted.

Thank you for allowing Coffey Laboratories to be of service to you. If you have questions or need further assistance, please do not hesitate to call our Customer Services Department.

Sincerely,

John A. Guild

Technical Services

TS /atc

SCOEPA00025960

ORELAP 100028

Analytical Data

Siltronic Corporation

Job Number: A50324BF
Page Number: 2 of 2

Lab Sample ID: A50324BF-1
Field ID: 05-23 Stormwater - North
Date/Time: 03/23/05 1300
Matrix: Waste Water

EPA Category: Inorganic Chemicals

Parameter	Method	Detection Limit	Analytical Result	Units
Total Oil & Grease	EPA 1664	3.	ND	mg/L
Biochemical Oxygen Demand	EPA 405.1	3.	ND	mg/L
Copper	EPA 200.7	0.03	ND	mg/L
Zinc	EPA 200.7	0.05	0.17	mg/L
Chromium	EPA 218.2	0.001	ND	mg/L
Lead	EPA 239.2	0.005	ND	mg/L

ND means none detected at or above the detection limit listed.

Coffey Laboratories, Inc.
12423 N.E. Whitaker Way • Portland, OR • 97230 • (503) 254-1794 • FAX (503) 254-1452

COFFEY LABORATORIES, INC.
CHAIN OF CUSTODY AGREEMENT

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827 SW 7th
Redmond, OR 97756
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CORPORATE HEADQUARTERS
12423 NE Whitaker Way
Portland, OR 97230
(503) 254-1794 FAX: (503) 254-1452

EASTERN OREGON BRANCH
419 SW 5th
Pendleton, OR 97801
PHONE/FAX (541) 276-0385

Report Attention: Tom Rothschild
Company Name: Siltronic
Mailing Address: 7200 NW Front Ave
Portland, Oregon
Phone: (503) 219-7274 FAX: (503) 417-4141

Report Instructions (Special - Additional- Job Specific):

PO Number: 4500075102
Project Number:
Project Name: Storm Water
EPA Protocol Containers: Y/N Other:

Sample Turnaround
- [x] Standard
- [ ] Priority (Additonal Fee)
- [ ] Rush (Additional Fee)
- [ ] Emergency (Additional Fee)

Initials: JJR

Reporting Request
- [ ] State Compliance Format
- [x] FAX Results - Preliminary
- [ ] FAX Results-Final
- [ ] Verbals Results
- [ ] Extra Report Copy (Fees Associated)

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Job Number:
Custabbr: NEW
VISA M/C Cardholder:
Card #: Exp:
Cash / Check / CC $ #
Billing Code: 1 2 3 4
QC LEVEL: 1 2 3 4
FEDX BUS COURIERS UPS LAB CLIENT MAIL AIR

Sample ID	Loc	ID	#	Collection Date	Collection Time	Media	Analysis Requested	Test Profile
05-23 Storm Water - North				23 Mar 2005	1300	Waste Water	Oil and Grease; BOD; Cu, Pb, Zn, Cr(T)	

Sampled By: Thomas J. Rothschild
AUTHORIZED CUSTOMER SIGNATURE Thomas J. Rothschild DATE: 23 Mar 2005

Sample Comments	Relinquished by: (Please Sign)	Date	Time	Received by: (Sign)	Date	Time
	Thomas J. Rothschild	24 Mar 2005	0915	[signature]	3/24/05	9:15
				LAB		

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COMPLETE THIS FORM PER INSTRUCTIONS ON REVERSE SIDE

SUBMISSION OF SAMPLES WITH TESTING REQUIREMENTS TO CLI WILL BE UNDERSTOOD TO BE AN AGREEMENT FOR SERVICES IN ACCORDANCE WITH THE CONDITIONS LISTED ON THE BACK OF THE CLIENT COPY.

ORELAP 100028

RECEIVED APR 2 2 2005

Report Date: April 18, 2005
Job Number: A50328BJ
PO Number: 4500075102
Project No: None Provided
Project Name: Stormwater

Tom Rothschild
Siltronic Corporation
7200 NW Front Avenue
Portland, OR 97210-3676

Analytical Narrative

The sample was received on 03/28/05 by Coffey Laboratories, Inc. (CLI) Sample Reception personnel under strict chain of custody protocol. The following information was provided at the time of sample reception:

Laboratory Sample ID	Field Identification	Matrix	Collection Date	Collection Time
A50328BJ-1	05 - 26 - Stormwater - East	Storm Water	03/28/05	1030
A50328BJ-2	05 - 25 - Stormwater - South	Storm Water	03/28/05	1050

The recommended holding time for each batch of analyses was in accordance with the data quality objectives as specified in the CLI Quality Assurance Plan unless otherwise noted.

Acceptable precision and accuracy were achieved for all analyses associated with this work order as demonstrated by the recoveries of the quality control samples analyzed concurrently with each batch.

The data submitted in this report is for the sole and exclusive use of the above-named client. All samples associated with the work order will be retained a maximum of 15 days from the report date or until the maximum holding time expires. All results pertain only to samples submitted.

Thank you for allowing Coffey Laboratories to be of service to you. If you have questions or need further assistance, please do not hesitate to call our Customer Services Department.

Sincerely,

John A. Guild

Technical Services

TS /atc

Coffey Laboratories, Inc.
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ORELAP 100028

Analytical Data

Siltronic Corporation

Job Number: A50328BJ
Page Number: 3 of 3

Lab Sample ID: A50328BJ-2
Field ID: 05 - 25 - Stormwater - South
Date/Time: 03/28/05 1050
Matrix: Storm Water

EPA Category: Inorganic Chemicals

Parameter	Method	Detection Limit	Analytical Result	Units
Total Oil & Grease	EPA 1664	3.	ND	mg/L
Biochemical Oxygen Demand	EPA 405.1	3.	ND	mg/L
Copper	EPA 200.7	0.03	ND	mg/L
Zinc	EPA 200.7	0.05	0.15	mg/L
Chromium	EPA 218.2	0.001	ND	mg/L
Lead	EPA 239.2	0.005	ND	mg/L

means none detected at or above the detection limit listed.

Coffey Laboratories, Inc.
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ORELAP 100028

Analytical Data

Siltronic Corporation

Job Number: A50328BJ
Page Number: 2 of 3

Lab Sample ID: A50328BJ-1
Field ID: 05 - 26 - Stormwater - East
Date/Time: 03/28/05 1030
Matrix: Storm Water

EPA Category: Inorganic Chemicals

Parameter	Method	Detection Limit	Analytical Result	Units
Total Oil & Grease	EPA 1664	3.	ND	mg/L
Biochemical Oxygen Demand	EPA 405.1	3.	ND	mg/L
Copper	EPA 200.7	0.03	0.03	mg/L
Zinc	EPA 200.7	0.05	0.23	mg/L
Chromium	EPA 218.2	0.001	ND	mg/L
Lead	EPA 239.2	0.005	ND	mg/L

"ND" means none detected at or above the detection limit listed.

Coffey Laboratories, Inc.
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COFFEY LABORATORIES, INC.
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(503) 254-1794 FAX: (503) 254-1452

EASTERN OREGON BRANCH
419 SW 5th
Pendleton, OR 97801
PHONE/FAX (541) 276-0385

Report Attention: Tom Rothschild
Company Name: Siltronic
Mailing Address: 7200 N W Front Ave
Portland, Oregon
Phone: (503) 219-7274 FAX: (503) 417-4141

Report Instructions (Special - Additional- Job Specific):

PO Number: 4500075102
Project Number:
Project Name: Stormwater
EPA Protocol Containers: Y/N Other:

Sample Turnaround
- [X] Standard
- [ ] Priority (Additional Fee)
- [ ] Rush (Additional Fee)
- [ ] Emergency (Additional Fee)

Reporting Request
- [ ] State Compliance Format
- [X] FAX Results - Preliminary
- [ ] FAX Results-Final
- [ ] Verbals Results
- [ ] Extra Report Copy (Fees Associated)

Initials:

FOR LABORATORY USE ONLY: Page 1 of 1
Job Number:
Custody: NEW
VISA M/C Cardholder:
Card #: Exp:
Cash Check CC $
Billing Code:
QC LEVEL:
FEDX BUS COURIER UPS PICKUP CLIENT EMAIL AIR

Sample ID	Lab ID	Collection Date / Time	Media	Analysis Requested	Test Profile
1) ~~05-23 - Stormwater - North~~			Storm-water	~~Oil+Grease; BOD; Cu, Pb, Zn + Cr(total)~~	
05-26 - Stormwater- East		23 Mar 2005 1030		" " "	
05-025 - Stormwater- South		↓ 1050	↓	" " "	

Sampled By: Thomas J. Rothschild
AUTHORIZED CUSTOMER SIGNATURE: Thomas J. Rothschild DATE: 28 Mar 2005

Sample Comments	Relinquished by: (Please Sign)	Date	Time	Received by: (Sign)	Date	Time
1) 05-23 was sent Previously - JSR	Thomas J. Rothschild	28 Mar 2005	1205	[signature]	3-28-05	1205

White Copy-Laboratory Yellow Copy - Customer

COMPLETE THIS FORM PER INSTRUCTIONS ON REVERSE SIDE

SUBMISSION OF SAMPLES WITH TESTING REQUIREMENTS TO CLI WILL BE UNDERSTOOD TO BE AN AGREEMENT FOR SERVICES IN ACCORDANCE WITH THE CONDITIONS LISTED ON THE BACK OF THE CLIENT COPY.

SCOEPA00025966

BENCHSHEET

TOTAL SUSPENDED SOLIDS (TSS)

Sample Date: 23 Mar 2005 (2) 29 Mar 2005 Oven Temp: 107 C 111 C (2) Analyst: TJR

Date In: 24 Mar 2005 Time In/Out: 0946 / ~1145 1020 1305

Tin #	Sample	Vol, ml	Gross Wt, g	Tare Wt, g	TSS, mg/L
1 (2)	Blank	–	0.0871 ~~0.0872~~ TJR	0.0872	–
1	Blank	–	0.0872	0.0875	–
6	North	500	0.0888	0.0880	1.6
7	North	500	0.0879	0.0870	1.8
				North Average TSS	1.7
2	East (2)	500	0.0956	0.0876	16
3	East (2)	500	0.0967	0.0885	16.4
				East Average TSS	16.2
4	South (2)	500	0.0923	0.0864	11.8
5	South (2)	500	0.0940	0.0887	10.6
				South Average TSS	11.2

Notes: (2) Sampled 28 Mar 2005, ~1050

Calculation: TSS, mg/L = $\frac{\text{(Gross Wt, mg - Tare Wt, mg) X 1000}}{\text{Volume of Sample, ml}}$

Note: NPDES permit: monthly avg. 23 mg/L, daily max. 61 mg/L.
POTW permit: daily max 350 mg/L.

Reference: 1. Standard Methods for the Examination of Water and Wastewater, 1998, 20th Edition, Section 2540 D, page 2-57.
2. National Pollution Discharge Elimination System Permit #101128.

TJR 21 Mar 1987
DEI 12 Nov 2003 Revised

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BENCHSHEET

pH

Test Date: 28Mar2005 Sample Date: 28Mar2005 Analyst: JJR

Slope: 101.7 % (1) (Range: 92 to 102%)
95.7 (2)

Standards:

4.0 mg/L:	Lot #:	1407303 (2) 1301302 (1)	Date Opened:	28 ~~Aug~~ Mar 2005 (2) JJR 28Aug 2003
7.0 mg/L:	Lot #:	1311022 (1)(2)	Date Opened:	27Feb 2004
10.0 mg/L:	Lot #:	—	Date Opened:	

Sample	pH Units
North (1)	5.8
East (2)	~~6.9~~ 6.8 JJR
South (2)	6.5

Notes: (1) 23 Mar 2005, 1306
(2) 28 Mar 2005, ~1050.

Reference: 1. Standard Methods For The Examination of Water And Wastewater, 1998, 20th Edition, Section 4500-H^+B page 4-87.

DEI 13 Aug 2003

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Siltronic Corporation Storm Water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

PARAMETER	BENCHMARK[1]	UM	DATE:	29 Jul 2004	
			North	East	South
Floating Solids	No visible discharge	Yes or No	Insufficient		
Oil and Grease Sheen*	No visible sheen	Yes or No	Rainfall 3/8		

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

STORM WATER SAMPLING – Semiannual:

PARAMETER	BENCHMARK[1]	UM	DATE:		
			North	East	South
Total Copper	0.1	mg/L			
Total Lead	0.4	mg/L			
Total Zinc	0.6	mg/L			
PH	5.5-9	Su			
TSS	130	mg/L			
Oil and Grease	10	mg/L			

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Jim Claxton in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Jim Claxton.

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Siltronic Corporation Storm Water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

PARAMETER	BENCHMARK[1]	UM	DATE:	8/24/04	D1
			North	East	South
Floating Solids	No visible discharge	Yes or No	No	No	No
Oil and Grease Sheen*	No visible sheen	Yes or No	No	No	No

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

STORM WATER SAMPLING – Semiannual:

PARAMETER	BENCHMARK[1]	UM	DATE:		
			North	East	South
Total Copper	0.1	mg/L			
Total Lead	0.4	mg/L			
Total Zinc	0.6	mg/L			
PH	5.5-9	Su			
TSS	130	mg/L			
Oil and Grease	10	mg/L			

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Jim Claxton in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Jim Claxton.

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Siltronic Corporation Storm Water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

PARAMETER	BENCHMARK[1]	UM	DATE:	9/30/09	
			North	East	South
Floating Solids	No visible discharge	Yes or No	No Rain	No Rain	No Rain ②
Oil and Grease Sheen*	No visible sheen	Yes or No	No Rain	No Rain	No Rain

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

② Was not able to coordinate Rain w/ avail. personnel.

STORM WATER SAMPLING – Semiannual:

PARAMETER	BENCHMARK[1]	UM	DATE:		
			North	East	South
Total Copper	0.1	mg/L			
Total Lead	0.4	mg/L			
Total Zinc	0.6	mg/L			
PH	5.5-9	Su			
TSS	130	mg/L			
Oil and Grease	10	mg/L			

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Jim Claxton in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Jim Claxton.

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Siltronic Corporation Storm Water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

PARAMETER	BENCHMARK[1]	UM	DATE:	10/26/04	
			North	East	South
Floating Solids	No visible discharge	Yes or No	No	No	No
Oil and Grease Sheen*	No visible sheen	Yes or No	No	No	No

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

STORM WATER SAMPLING – Semiannual:

PARAMETER	BENCHMARK[1]	UM	DATE:		
			North	East	South
Total Copper	0.1	mg/L			
Total Lead	0.4	mg/L			
Total Zinc	0.6	mg/L			
PH	5.5-9	Su			
TSS	130	mg/L			
Oil and Grease	10	mg/L			

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Jim Claxton in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Jim Claxton.

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Siltronic Corporation Storm Water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

PARAMETER	BENCHMARK[1]	UM	DATE:	11/2/04	Di
			North	East	South
Floating Solids	No visible discharge	Yes or No	No	No	No
Oil and Grease Sheen*	No visible sheen	Yes or No	No	No	No

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

STORM WATER SAMPLING – Semiannual:

PARAMETER	BENCHMARK[1]	UM	DATE:	11/2/04	Di
			North	East	South
Total Copper	0.1	mg/L	<0.03	<0.03	<0.03
Total Lead	0.4	mg/L	<0.005	<0.005	<0.005
Total Zinc	0.6	mg/L	<0.1	0.1	<0.1
PH	5.5-9	Su	5.95	6.16	6.17
TSS	130	mg/L	5.0	3.6	17.3
Oil and Grease	10	mg/L	<3	<3	<3

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Jim Claxton in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Jim Claxton.

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Siltronic Corporation Storm Water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

PARAMETER	BENCHMARK[1]	UM	DATE:	12/7/04	
			North	East	South
Floating Solids	No visible discharge	Yes or No	No	No	No
Oil and Grease Sheen*	No visible sheen	Yes or No	No	No	No

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

STORM WATER SAMPLING – Semiannual:

PARAMETER	BENCHMARK[1]	UM	DATE:		
			North	East	South
Total Copper	0.1	mg/L			
Total Lead	0.4	mg/L			
Total Zinc	0.6	mg/L			
PH	5.5-9	Su			
TSS	130	mg/L			
Oil and Grease	10	mg/L			

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Jim Claxton in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Jim Claxton.

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Siltronic Corporation Storm Water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

PARAMETER	BENCHMARK[1]	UM	DATE:	1/17/05	
			North	East	South
Floating Solids	No visible discharge	Yes or No	No	No	No
Oil and Grease Sheen*	No visible sheen	Yes or No	No	No	No

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

STORM WATER SAMPLING – Semiannual:

PARAMETER	BENCHMARK[1]	UM	DATE:		
			North	East	South
Total Copper	0.1	mg/L			
Total Lead	0.4	mg/L			
Total Zinc	0.6	mg/L			
PH	5.5-9	Su			
TSS	130	mg/L			
Oil and Grease	10	mg/L			

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Jim Claxton in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Jim Claxton.

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Siltronic Corporation Storm Water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

PARAMETER	BENCHMARK[1]	UM	DATE:	28Feb2005 JJR	
			North	East	South
Floating Solids	No visible discharge	Yes or No	(1)	(1)	(1)
Oil and Grease Sheen*	No visible sheen	Yes or No	(1)	(1)	(1)

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

STORM WATER SAMPLING – Semiannual:

PARAMETER	BENCHMARK[1]	UM	DATE:		
			North	East	South
Total Copper	0.1	mg/L			
Total Lead	0.4	mg/L			
Total Zinc	0.6	mg/L			
PH	5.5-9	Su			
TSS	130	mg/L			
Oil and Grease	10	mg/L			

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Jim Claxton in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Jim Claxton.

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(1) Insufficient rainfall. JJR

Wacker Siltronic Corporation Storm water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

PARAMETER	BENCHMARK[1]	UM	DATE: 23 Mar 2005	28 Mar 2005	28 Mar 2005
			North	East	South
Floating Solids	No visible discharge	Yes or No	No	No	No
Oil and Grease Sheen*	No visible sheen	Yes or No	No	No	No

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Jim Claxton in Environmental Engineering.

STORM WATER SAMPLING – Semiannual:

PARAMETER	BENCHMARK[1]	UM	DATE: 3/23/05	3/28/05	3/28/05
			North	East	South
Total Copper	0.1	mg/L	<0.03	0.03	<0.03
Total Lead	0.4	mg/L	<0.005	<0.005	<0.005
Total Zinc	0.6	mg/L	0.17	0.23	0.15
pH (1)	5.5-9	Su	5.8	~~6.96.8~~ 3JR	6.5
TSS	130	mg/L	1.7	16.2	11.2
Oil and Grease	10	mg/L	<3	<3	<3
Chromium, Total		mg/L	<0.001	<0.001	<0.001

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Jim Claxton in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Jim Claxton.

(1) Rain water pH: 5.1 ± 0.1. 3JR

Siltronic Corporation Storm Water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

PARAMETER	BENCHMARK[1]	UM	DATE:	25 Apr 2005 JJR	
			North	East	South
Floating Solids	No visible discharge	Yes or No	No	No	No
Oil and Grease Sheen*	No visible sheen	Yes or No	No	No	No

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

STORM WATER SAMPLING – Semiannual:

PARAMETER	BENCHMARK[1]	UM	DATE:		
			North	East	South
Total Copper	0.1	mg/L			
Total Lead	0.4	mg/L			
Total Zinc	0.6	mg/L			
PH	5.5-9	Su			
TSS	130	mg/L			
Oil and Grease	10	mg/L			

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Jim Claxton in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Jim Claxton.

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Note: Raining at 0800. JJR

Siltronic Corporation Storm Water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

PARAMETER	BENCHMARK[1]	UM	DATE:	18 May 2005 (2)	
			North	East (1)	South
Floating Solids	No visible discharge	Yes or No	No	No	No
Oil and Grease Sheen*	No visible sheen	Yes or No	No	No	No

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

STORM WATER SAMPLING – Semiannual:

PARAMETER	BENCHMARK[1]	UM	DATE:		
			North	East	South
Total Copper	0.1	mg/L			
Total Lead	0.4	mg/L			
Total Zinc	0.6	mg/L			
PH	5.5-9	Su			
TSS	130	mg/L			
Oil and Grease	10	mg/L			

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Jim Claxton in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Jim Claxton.

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(1) Muddy. JJR
(2) 1455-1515. Downpore. JJR

Siltronic Corporation Storm Water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

PARAMETER	BENCHMARK[1]	UM	DATE:	7 Jun 2005	
			North	East	South
Floating Solids	No visible discharge	Yes or No	No	No	No
Oil and Grease Sheen*	No visible sheen	Yes or No	No	No	No

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

STORM WATER SAMPLING – Semiannual:

PARAMETER	BENCHMARK[1]	UM	DATE:		
			North	East	South
Total Copper	0.1	mg/L			
Total Lead	0.4	mg/L			
Total Zinc	0.6	mg/L			
PH	5.5-9	Su			
TSS	130	mg/L			
Oil and Grease	10	mg/L			

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Jim Claxton in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Jim Claxton.

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Jim Claxton
Environmental Engineer

Siltronic Corporation
7200 NW Front Avenue, M/S 30
Portland OR 97210-3676, USA
Tel. 503-219-7313
Fax 503-219-7599
jim.claxton@siltronic.com

Wesley McDaniel
City of Portland
Industrial Stormwater Program
6543 N Burlington Avenue
Portland, Oregon 97203-5452

ER: 049.JWC

2004-07-13

Annual Stormwater monitoring data for July 1, 2003 to June 30, 2004

Dear Mr. McDaniel,

I have enclosed the stormwater monitoring data as required by Siltronic's NPDES Stormwater Discharge Permit number 1200-Z issued October 1, 2002. Sampling was conducted November 18, 2003 and May 26, 2004 meeting the requirement of conducting two monitoring events per sample point between July 1, 2003 and June 30, 2004.

All parameters were below benchmarks with the exception of the TSS sample taken May 26, 2004 at the North sample point. The TSS was 142 mg/L and the benchmark is 130 mg/L. Another sample could not be taken to confirm this result because of lack of rain.

We have reviewed the Stormwater Pollution Control Plan and feel that no changes are required at this time. We believe that the difficulties in collecting a sample at the North site are the reason for the high TSS value.

Sampling at the North sample site is difficult. Siltronic staff has had problems at this sample point in the past. For water year 2004-2005 the following changes are being considered:

1. Change sample date to earlier in the year. The samples from the North site are collected by "dipping" for sample in an 18" diameter pipe using a 6-foot pole with a collection cup at the end. In May the stormwater level in the pipe is very low making the collection of sample very difficult without "stirring up" the catch basin sediments. Reviewing TSS sample data from the North site for November shows that since 1997, samples taken in November have measured from 4 to 27 mg/L TSS. The historical average rainfall for November is 5" (136mm). The historical average rainfall for May is 2" (52mm). The volume of rainwater passing though the system is much greater in November. February and March historically average 4" (90mm). So we are considering changing our sampling to February or March. This should provide the increased sample flow and depth to improve sampling.

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2. Change sampling technique: The current sampling method is difficult. We are looking at installing a sampling pipe in the North site that can be connected to a pump. The level of water at the sample point may still be a problem in May, but it may be less problematic in February or March

3. Change the sample point. There might be another point that could reduce the sampling difficulties. We are investigating a new sample point.

A summary of the results for 2003-2004 are listed in the following table:

PARAMETER	Sample date	North results	South results	East results	BENCH MARK	Units	Detection limit	Method & Comments
Copper	11/18/2003	0.03	<0.03	0.04	0.1	mg/L	0.03	EPA 200.7
	5/26/2004	**0.07**	**0.05**	**<0.03**				
Lead	11/18/2003	<0.005	<0.005	<0.005	0.4	mg/L	0.005	EPA 239.2
	5/26/2004	**0.018**	**<0.005**	**<0.005**				
Zinc	11/18/2003	0.24	0.08	0.33	0.6	mg/L	0.05	EPA 200.7
	5/26/2004	**0.47**	**0.40**	**0.35**				
pH	11/18/2003	6.5	7.3	6.5	5.5-9	pH units	0.1	Standards Methods 1998, 20th ed, Section 4500-H^+
	5/26/2004	**6.2**	**6.1**	**6.4**				
TSS	11/18/2003	23	4	12	130	mg/L	0.1	Standards Methods 1998, 20th ed, Section 2540 D
	5/26/2004	**142**	**28**	**4**				
Oil and Grease	11/18/2003	<3.0	<3.0	<3.0	10	mg/L	3	EPA 1664
	5/26/2004	**<3.0**	**<3.0**	**<3.0**				

If you have any questions or comments, please contact me at 503-219-7313.

Best regards,

Siltronic Corporation

J Claxton

Jim Claxton
Environmental Engineer

Wacker Siltronic Corporation Storm water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

PARAMETER	BENCHMARK[1]	UM	DATE: November 18, 20, 2003		
			North	East	South
Floating Solids	No visible discharge	Yes or No	No	No	No
Oil and Grease Sheen*	No visible sheen	Yes or No	No	No	No

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Jim Claxton in Environmental Engineering.

STORM WATER SAMPLING – Semiannual:

PARAMETER	BENCHMARK[1]	UM	DATE: 11-18-03	11-18-03	11-20-03
			North	East	South
Total Copper	0.1	mg/L	0.03	0.04	<0.03
Total Lead	0.4	mg/L	<0.005	~~<0.005 0.33~~	<0.005
Total Zinc	0.6	mg/L	0.24	0.33	0.08
pH	5.5-9	Su	6.5	6.3	7.3
TSS	130	mg/L	23	~~29~~ 12 11 3.9	~~5.2~~
Oil and Grease	10	mg/L	<3.0	<3.0	<3.0

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Jim Claxton in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Jim Claxton.

(1) SJR 12 Jul 2004

SCOEPA00025986

RECEIVED DEC 15 2003

Report Date: December 9, 2003
Job Number: A31120AS
PO Number: 4500075102
Project No: None Provided
Project Name: Stormwater Fall 2003

Tom Rothschild
Wacker Siltronic
7200 NW Front Avenue
Portland, OR 97210-3676

Analytical Narrative

The sample was received on 11/20/03 by Coffey Laboratories, Inc. (CLI) Sample Reception personnel under strict chain of custody protocol. The following information was provided at the time of sample reception:

Laboratory Sample ID	Field Identification	Matrix	Collection Date	Collection Time
A31120AS-1	03-131-SW-N	Storm Water	11/18/03	1345
A31120AS-2	03-133-SW-E	Storm Water	11/18/03	1505

The recommended holding time for each batch of analyses was in accordance with the data quality objectives as specified in the CLI Quality Assurance Plan unless otherwise noted.

Acceptable precision and accuracy were achieved for all analyses associated with this work order as demonstrated by the recoveries of the quality control samples analyzed concurrently with each batch.

The data submitted in this report is for the sole and exclusive use of the above-named client. All samples associated with the work order will be retained a maximum of 15 days from the report date or until the maximum holding time expires. All results pertain only to samples submitted.

Thank you for allowing Coffey Laboratories to be of service to you. If you have questions or need further assistance, please do not hesitate to call our Customer Services Department.

Sincerely,

John A. Guild

Technical Services

TS /atc

SCOEPA00025987

Analytical Data

Wacker Siltronic

Job Number: A31120AS

Lab Sample ID: A31120AS-1
Field ID: 03-131-SW-N NORTH
Date/Time: 11/18/03 1345
Matrix: Storm Water

EPA Category: Inorganic Chemicals

Parameter	Method	Detection Limit	Analytical Result	Units
Total Oil & Grease	EPA 1664	3.	ND	mg/L
Copper	EPA 200.7	0.03	0.03	mg/L
Zinc	EPA 200.7	0.05	0.24	mg/L
Lead	EPA 239.2	0.005	ND	mg/L

ND means none detected at or above the detection limit listed.

SCOEPA00025988

Analytical Data

Wacker Siltronic

Job Number: A31120AS
Page Number: 3 of 3

Lab Sample ID: A31120AS-2
Field ID: 03-133-SW-E
Date/Time: 11/18/03 1505
Matrix: Storm Water

EAST

EPA Category: Inorganic Chemicals

Parameter	Method	Detection Limit	Analytical Result	Units
Total Oil & Grease	EPA 1664	3.	ND	mg/L
Copper	EPA 200.7	0.03	0.04	mg/L
Zinc	EPA 200.7	0.05	0.33	mg/L
Lead	EPA 239.2	0.005	ND	mg/L

ND means none detected at or above the detection limit listed.

SCOEPA00025989

Report Date: 12/18/2003
Job Number: A31121AR
PWSID:
PO Number: 4500075102
Project No.: None Provided
Project Name: Storm Water Fall 2003

Tom Rothschild
Wacker Siltronic
7200 NW Front Avenue
Portland, OR 97210

Sample Information

Laboratory Sample ID	Field Identification	Matrix	Collection Date	Collection Time
A31121AR-1	03-132-SW-S	Waste Water	11/20/2003	1410

Analytical results are on the following page(s).

Sincerely,

Technical Services

The data submitted in this report is for the sole and exclusive use of the above-named client. All samples associated with the work order will be retained a maximum of 15 days from the report date or until the maximum holding time expires. All results pertain only to samples submitted.

Thank you for allowing Coffey Laboratories to be of service to you. If you have questions or need further assistance, please do not hesitate to call our Customer Services Department.

TS/atc

Sample Identification

Lab Sample ID#: A31121AR-1 03-132-SW-S South

Inorganic Chemicals

Contaminant	Analysis	Method	Detection Limit	Analyst
Copper	ND mg/L	EPA 200.7	0.03 mg/L	MAJ
Lead	ND mg/L	EPA 239.2	0.005 mg/L	CV
Total Oil & Grease	ND mg/L	EPA 1664	3. mg/L	NAC
Zinc	0.08 mg/L	EPA 200.7	0.05 mg/L	MAJ

ND means none detected at or above the detection limit listed.

BENCHSHEET

TOTAL SUSPENDED SOLIDS (TSS)

Sample Date: 11·19·03 Oven Temp: 104 C Analyst: Di

Date In: ~~11·20~~ 11·20·03 Di Time In/Out: 1115 / 1300

Tin #	Sample	Vol, ml	Gross Wt, g	Tare Wt, g	TSS, mg/L
1	Blank		0.0870	0.0870	
6	03-131-W	500	0.0993	0.0881	Di ~~112~~ 22.4
7	03-131-W	500	0.0995	0.0877	Di ~~118~~ 23.6
				Average TSS	Di ~~115~~ 23
8	03-133-E	200	0.0892	0.0870	~~22~~ 11
9	03-133-E	200	0.0904	0.0878	~~26~~ 13
				Average TSS	~~24~~ 12
10	① 03-132-S	500	0.0894	0.0877	~~17~~ 3.4
11	03-132-S	500	0.0898	0.0876	~~22~~ 4.4
				Average TSS	~~19.5~~ 3.9

TJR 12 Jul 20

Notes: Storm Water Samples.

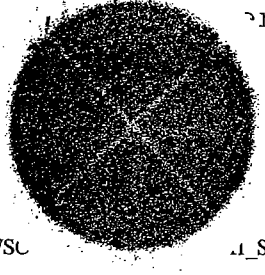
① 03-132-S was sampled on 11/20/03.

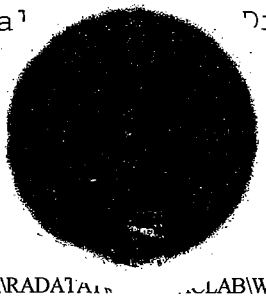
Calculation: TSS, mg/L = $\frac{\text{(Gross Wt, mg - Tare Wt, mg) X 1000}}{\text{Volume of Sample, ml}}$

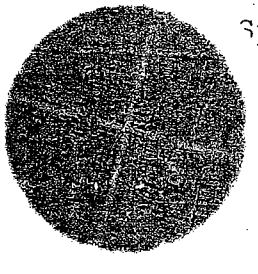
Note: NPDES permit: monthly avg. 23 mg/L, daily max. 61 mg/L.
POTW permit: daily max 350 mg/L.

Reference: 1. Standard Methods for the Examination of Water and Wastewater, 1998, 20th Edition, Section 2540 D, page 2-57.
National Discharge System
ermit

TJI
DEI evised







\\WSC ..._SERVER\RADATA... ...LAB\WWTP\BENCH\TSSSWB.DOC

North East South

COFFEY LABORATORIES, INC.
CHAIN OF CUSTODY AGREEMENT

CENTRAL OREGON BRANCH
827 SW 7th
Redmond, OR 97756
PHONE/FAX (541) 548-0972

CORPORATE HEADQUARTERS
12423 NE Whitaker Way
Portland, OR 97230
(503) 254-1794 FAX: (503) 254-1452

EASTERN OREGON BRANCH
419 SW 5th
Pendleton, OR 97801
PHONE/FAX (541) 276-0385

Report Attention: Tom Rothschild
Company Name: Wacker Siltronic
Mailing Address: 7200 N.W. Front Ave.
Portland, Oregon 97210
Phone: (503) 219-7374 FAX: (503) 417-4144

Report Instructions (Special - Additional- Job Specific):

PO Number: 4500075102
Project Number:
Project Name: Storm Water FALL 2003
EPA Protocol Containers: Y/N Other:

Sample Turnaround
- [X] Standard
- [ ] Priority (Additonal Fee)
- [ ] Rush (Additional Fee)
- [ ] Emergency (Additional Fee)

Reporting Request
- [ ] State Compliance Format
- [ ] FAX Results - Preliminary
- [ ] FAX Results-Final
- [ ] Verbals Results
- [ ] Extra Report Copy (Fees Associated)

Initials: DJ

FOR LABORATORY USE ONLY — Page ___ of ___
Job Number:
Custody Seal: Y N
VISA MC Cardholder:
Card #: Exp:
Cash / Check / COD $
Billing Codes: 1 2 3 4 5 6 7
QC LEVEL: 1 2 3 4
FEDX BUS COURIERS UPS LAB CLIENT MAIL AIR

Sample ID	Loc	ID	#	Collection Date / Time		Media	Analysis Requested	Test Prot
03-132-SW-S				11-20-03	1410		Oil+Grease (EPA 1664) Cu, Pb, Zn (EPA 200.8)	

Sampled By: Tom Rothschild, Koreen Lail
AUTHORIZED CUSTOMER SIGNATURE: Dianne Lush DATE: 11/21/03

Sample Comments	Relinquished by: (Please Sign)	Date	Time	Received by: (Sign)	Date	Time
	Dianne Lush	11/21/03	1115	Kate Williams	11-21-03	1115
				LAB		

White Copy-Laboratory Yellow Copy - Customer

COMPLETE THIS FORM PER INSTRUCTIONS ON REVERSE SIDE

SUBMISSION OF SAMPLES WITH TESTING REQUIREMENTS TO CLI WILL BE UNDERSTOOD TO BE AN AGREEMENT FOR SERVICES IN ACCORDANCE WITH THE CONDITIONS LISTED ON THE BACK OF THE CLIENT COPY.

COFFEY LABORATORIES, INC.
CHAIN OF CUSTODY AGREEMENT

CENTRAL OREGON BRANCH
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(503) 254-1794 FAX: (503) 254-1452

EASTERN OREGON BRANCH
419 SW 5th
Pendleton, OR 97801
PHONE/FAX (541) 276-0385

Report Attention: Tom Rothschild
Company Name: Wacker Siltronic
Mailing Address: 7200 N.W. Front Ave
Portland, Oregon 97210
Phone: (503) 219-7374 FAX: (503) 417-4144

Report Instructions (Special - Additional- Job Specific):

PO Number: 4500075102
Project Number:
Project Name: Storm Water - Fall 2003
EPA Protocol Containers: Y/N Other:

Sample Turnaround
- [x] Standard
- [ ] Priority (Additonal Fee)
- [ ] Rush (Additional Fee)
- [ ] Emergency (Additional Fee)

Reporting Request
- [ ] State Compliance Format
- [ ] FAX Results - Preliminary
- [x] FAX Results-Final
- [ ] Verbals Results
- [ ] Extra Report Copy (Fees Associated)

Initials: DN

FOR LABORATORY USE ONLY — Page ___ of ___
Job Number:
Custody: NEW
VISA MC Cardholder:
Card #: Exp:
Cash / Check / CC:
Billing Code: 1 2 3 4
QC LEVEL: 1 2 3 4
FEDX BUS COURIERS UPS LAB CLIENT MAIL AIR

Sample ID	Lab ID	Collection Date / Time	Media	Analysis Requested	Test / Profile
03-131-SW-N		11-18-03 1345		Oil & Grease (1664) Cu, Pb, Zn (200.8)	
~~03-132-SW-S~~ D				~~Oil & Grease (1664) Cu, Pb, Zn (200.8)~~	
03-133-SW-E		11.18.03 1505		Oil & Grease (1664) Cu, Pb, Zn (200.8	

Sampled By: Dianne Lush
AUTHORIZED CUSTOMER SIGNATURE: Dianne Lush DATE: 11/20/03

Sample Comments	Relinquished by: (Please Sign)	Date	Time	Received by: (Sign)	Date	Time
	Dianne Lush	11/20/03	1120	Peter Williams	11-2003	1120
				LAB		

White Copy-Laboratory Yellow Copy - Customer

COMPLETE THIS FORM PER INSTRUCTIONS ON REVERSE SIDE

SUBMISSION OF SAMPLES WITH TESTING REQUIREMENTS TO CLI WILL BE UNDERSTOOD TO BE AN AGREEMENT FOR SERVICES IN ACCORDANCE WITH THE CONDITIONS LISTED ON THE BACK OF THE CLIENT COPY.

SCOEPA00025994

Siltronic Corporation Storm Water Monitoring

STORM WATER SAMPLING – Monthly (when discharging):

PARAMETER	BENCHMARK[1]	UM	DATE:	5/26/04	DI
			North	East	South
Floating Solids	No visible discharge	Yes or No	No	No	No
Oil and Grease Sheen*	No visible sheen	Yes or No	No	No	No

- If oil and grease sheen is present please sample for total oil and grease.
- If there is no rain event in the month write "no rain" in the box.

STORM WATER SAMPLING – Semiannual:

PARAMETER	BENCHMARK[1]	UM	DATE:	5/26/04	DI
			North	East	South
Total Copper	0.1	mg/L	0.07	<0.03	0.05
Total Lead	0.4	mg/L	0.018	<0.005	<0.005
Total Zinc	0.6	mg/L	0.47	0.35	0.4
PH	5.5-9	Su	6.17	6.43	6.13
TSS	130	mg/L	142.25①	4	28
Oil and Grease	10	mg/L	<3	<3	<3

1. "Benchmark" is the term used by DEQ in the storm water permit. It is essentially a "limit". If a benchmark is exceeded resample and contact Jim Claxton in Environmental Engineering.
2. Please submit monitoring results and benchsheets to Jim Claxton.

① will resample asap. DI

N:\ENVIRONMENTAL\FACLAB\WWTP\LOG\STORMWATER.DOC

BENCHSHEET

TOTAL SUSPENDED SOLIDS (TSS)

Sample Date: 5/26/04 Oven Temp: 104 C Analyst: Di

Date In: 5/26/04 Time In/Out: 1500 / 0915 (5/27/04

Tin #	Sample	Vol, ml	Gross Wt, g	Tare Wt, g	TSS, mg/L
1	Blank		0.0888	0.0888	
2	04-28-N	200	0.1172	0.0883	144.5 ✓
3	04-28-N	200	0.1165	0.0885	140 ✓
				Average TSS	142.25 ✓ NORTH
4	04-29-E	200	0.0904	0.0896	4 ✓
5	04-29-E	200	0.0898	0.0890	4 ✓
				Average TSS	4 ✓ EAST
7	04-30-S	200	0.0939	0.0883	28 ✓
8	04-30-S	200	0.0927	0.0871	28 ✓
				Average TSS	28 ✓ SOUTH

Notes: Storm Water Samples.

Cal mg/L g - Tare Wt
= Sample,

No m /L, dai
dai

Refere andard Me e Examinati d
Wastewater, n Edition, Sect. ,
page 2-57.
2. National Pollution Discharge Elimination System Permit #101128.

TJR 21 Mar 1987
DEI 12 Nov 2003 Revised

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SCOEPA00025996

RECEIVED JUN 18 2004
3&R

Report Date: June 14, 2004
Job Number: A40527N
PO Number: 4500075102
Project No: 28-29-30
Project Name: Stormwater Spring 2004

Tom Rothschild
Wacker Siltronic
7200 NW Front Avenue
Portland, OR 97210-3676

Analytical Narrative

The sample was received on 05/27/04 by Coffey Laboratories, Inc. (CLI) Sample Reception personnel under strict chain of custody protocol. The following information was provided at the time of sample reception:

Laboratory Sample ID	Field Identification	Matrix	Collection Date	Collection Time
A40527N-1	04-28-SW-N	Stormwater	05/26/04	1435
A40527N-2	04-29-SW-E	Stormwater	05/26/04	1515
A40527N-3	04-30-SW-S	Stormwater	05/26/04	1445

The recommended holding time for each batch of analyses was in accordance with the data quality objectives as specified in the CLI Quality Assurance Plan unless otherwise noted.

Acceptable precision and accuracy were achieved for all analyses associated with this work order as demonstrated by the recoveries of the quality control samples analyzed concurrently with each batch.

The data submitted in this report is for the sole and exclusive use of the above-named client. All samples associated with the work order will be retained a maximum of 15 days from the report date or until the maximum holding time expires. All results pertain only to samples submitted.

Thank you for allowing Coffey Laboratories to be of service to you. If you have questions or need further assistance, please do not hesitate to call our Customer Services Department.

Sincerely,

Technical Services

TS /atc

Coffey Laboratories, Inc.
12423 N.E. Whitaker Way • Portland, OR • 97230 • (503) 254-1794 • FAX (503) 254-1452

Analytical Data

Wacker Siltronic

Job Number: A40527N

Lab Sample ID: A40527N-1
Field ID: 04-28-SW-N
Date/Time: 05/26/04 1435
Matrix: Storm Water

NORTH

EPA Category: Inorganic Chemicals

Parameter	Method	Detection Limit	Analytical Result	Units
Total Oil & Grease	EPA 1664A	3.	ND	mg/L
Copper	EPA 200.7	0.03	0.07	mg/L
Zinc	EPA 200.7	0.05	0.47	mg/L
Lead	EPA 239.2	0.005	0.018	mg/L

ND means none detected at or above the detection limit listed.

SCOEPA00025998

Analytical Data

Wacker Siltronic

Job Number: A40527N

Lab Sample ID: A40527N-2
Field ID: 04-29-SW-E
Date/Time: 05/26/04 1515
Matrix: Storm Water

FAST

EPA Category: Inorganic Chemicals

Parameter	Method	Detection Limit	Analytical Result	Units
Total Oil & Grease	EPA 1664A	3.	ND	mg/L
Copper	EPA 200.7	0.03	ND	mg/L
Zinc	EPA 200.7	0.05	0.35	mg/L
Lead	EPA 239.2	0.005	ND	mg/L

ND means none detected at or above the detection limit listed.

Coffey Laboratories, Inc.
12423 N.E. Whitaker Way • Portland, OR • 97230 • (503) 254-1794 • FAX (503) 254-1452

Analytical Data

Wacker Siltronic

Job Number: A40527N

Lab Sample ID: A40527N-3
Field ID: 04-30-SW-S
Date/Time: 05/26/04 1445
Matrix: Storm Water

SOUTH

EPA Category: Inorganic Chemicals

Parameter	Method	Detection Limit	Analytical Result	Units
Total Oil & Grease	EPA 1664A	3.	ND	mg/L
Copper	EPA 200.7	0.03	0.05	mg/L
Zinc	EPA 200.7	0.05	0.4	mg/L
Lead	EPA 239.2	0.005	ND	mg/L

ND means none detected at or above the detection limit listed.

Coffey Laboratories, Inc.
12423 N.E. Whitaker Way • Portland, OR • 97230 • (503) 254-1794 • FAX (503) 254-1452

COFFEY LAB RATORIES, INC.
CHAIN OF CUSTODY AGREEMENT

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Redmond, OR 97756
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CORPORATE HEADQUARTERS
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(503) 254-1794 FAX: (503) 254-1452

EASTERN OREGON BRANCH
419 SW 5th
Pendleton, OR 97801
PHONE/FAX (541) 276-0385

Report Attention: Tom Rothschild
Company Name: Siltronic
Mailing Address: 7200 N W Front Ave
Portland, Oregon
Phone: (503) 219-7274 FAX: (503) 417-4141

Report Instructions (Special - Additional- Job Specific):

PO Number: 4500075102
Project Number: 28-29-30
Project Name: Stormwater-Spring-2004
EPA Protocol Containers: Y/N Other:

Sample Turnaround
- [x] Standard
- [ ] Priority (Additonal Fee)
- [ ] Rush (Additional Fee)
- [ ] Emergency (Additional Fee)

Initials: [illegible]

Reporting Request
- [ ] State Compliance Format
- [x] FAX Results - Preliminary
- [ ] FAX Results-Final
- [ ] Verbals Results
- [ ] Extra Report Copy (Fees Associated)

FOR LABORATORY USE ONLY Page ___ of ___
Job Number:
Custabbr: NEW
VISA M/C Cardholder:
Card #: Exp:
Cash / Check / CC $ #
Billing Code: 1 2 3 4
QC LEVEL: 1 2 3 4
FEDX BUS COURIERS UPS LAB CLIENT MAIL AIR

Sample ID	Loc	ID	#	Collection Date	Collection Time	Media	Analysis Requested	Test Profile
04-28-SW-N				5/26/04	1435		Oil+Grease-1664, Cu, Pb, Zn 200.8	
04-29-SW-E				5/26/04	1515		"	
04-30-SW-S				5/26/04	1445		"	

Sampled By: Tom Rothschild + Frank Thrasher
AUTHORIZED CUSTOMER SIGNATURE Dianne Irish DATE: 5/27/04

Sample Comments	Relinquished by: (Please Sign)	Date	Time	Received by: (Sign)	Date	Time
	Dianne Irish	5/27/04	1030	[illegible]	5-27-04	1030
				LAB		

'te Copy-Laboratory Yellow Copy - Customer

COMPLETE THIS FORM PER INSTRUCTIONS ON REVERSE SIDE

BMISSION OF SAMPLES WITH TESTING REQUIREMENTS TO CLI WILL BE UNDERSTOOD TO BE AN AGREEMENT FOR RVICES IN ACCORDANCE WITH THE CONDITIONS LISTED ON THE BACK OF THE CLIENT COPY.

SCOEPA00026001

Industrial Source Control Division

INDUSTRIAL STORMWATER

NPDES 1200-Z MONITORING REPORT

Industry Name: **SILTRONIC CORP**

Site Address: **7200 NW FRONT AVE, PORTLAND, OR**

The permittee shall monitor stormwater **twice** per year for the parameters outlined in their NPDES 1200-Z Stormwater Discharge Permit Schedule B.1.a., and submit results to the City as stated in Schedule D.2.

Stormwater samples were taken for the above permittee, on these days and at these sample points:

Sample Date(s)	Sample Point(s)
11/18/03	NORTH & EAST
11/20/03	SOUTH
5/26/04	NORTH, EAST & SOUTH

The permittee shall submit by **July 15** of each year a copy of the **laboratory analysis reports**, which show analytical methods and detection limits, for stormwater samples collected for the previous monitoring year (July 1-June 30).

❑ **Monitoring Waiver Reduction Notification**:
Check the box if your facility is exercising a waiver of monitoring based on meeting benchmarks listed in Schedule A.9., AND site conditions have not changed to impact stormwater run-off. Note: This does not exclude your facility from notifying DEQ about the waiver of monitoring. Please read Schedule B of the permit to clearly understand the monitor waiver reduction guidelines. If waiver request is for select pollutants, list the parameters excluded from monitoring: _____.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: Jim Claxton

Title: ENVIRONMENTAL ENGINEER

Date: 7/13/04