D. Ang — PJB

FEBRUARY 28, 1998

RECEIVED

FEB 23 1998

NYSDEC - REG. 9
FOIL
X REL ___ UNREL

Mr. Albert C. Zaepfel
Industrial Monitoring Coordinator
NIAGARA FALLS WASTEWATER FACILITIES
P.O. Box 69
Niagara Falls, NY 14302-0069

RE: First Quarter 1998 Sampling
Occidental Chemical Corporation, Love Canal Leachate Treatment Facility
Permit No. 44

Dear Mr. Zaepfel:

Enclosed are the monitoring results and discharge report for the First Quarter of 1998.

When concentrations are reported as < or not detected at quantitation levels, calculated mass discharges are listed and included as zero in calculated averages. Similarly one or more < concentrations is averaged with other analyses as zero. When all data averaged are ND, the highest detection level is noted, i.e., <10, <5, <8 is shown as <10.

Should you have any questions, please contact me at 283-0111.

Sincerely yours,

Darrell Crockett
Lead Technician

DC/sc.
Enclosures

xc:	G.J. Rider, Jr., P.E.	NYSDEC, Albany
	P. Buechi	NYSDEC, Region 9
	D. Tuburidy/CENTRAL FILE	
	J. Westendorf	
	D. Crockett	Love Canal

H:97:DC0026

CITY OF NIAGARA FALLS
DEPARTMENT OF WASTEWATER FACILITIES
ENFORCEMENT DIVISION

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PERMIT NO. 44 QUARTER FIRST - 1998

INDUSTRY NAME OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT
FACILITY

Pursuant to federal pretreatment reporting requirements and the City Sewer Use Ordinance Chapter 250, Significant Industrial Users shall submit periodic self monitoring and compliance reports. Such reports shall be submitted using this form, according to the following schedule:

Quarterly	-	1st Quarter by February 28th
	-	2nd Quarter by May 31st
	-	3rd Quarter by August 31st
	-	4th Quarter by November 30th
Semi - Annual	-	by February 28th
		AND
	-	by August 31st

Each section of this report form shall be filled out for those parameters listed in Section "G" of the company's Wastewater Discharge Permit. The analysis results must be reported in both concentration and mass. In addition, the calculated annual average load (lbs/day) for each pollutant shall also be reported.

The samples shall be collected at the monitoring points identified in the user permit. Identification of those points in this report should be as listed on Page two (2) of the user permit.

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PAGE 2

PART II of the report is the Compliance Monitoring section. The user is obligated to determine if the analysis results indicate compliance or non-compliance. All violations noted should be brought to the City's attention immediately upon noting and should also be reported in this section. The analysis result should be compared against all applicable federal, state and local standards and limitations. If no violations are noted then "NO VIOLATIONS" should appear on the report.

Pursuant to 40 CFR Part 403.12 g of the federal standards, all violations noted must be followed up by a sample recollect/analysis and the results submitted to the City within thirty (30) days of first becoming aware of the violation.

Pursuant to 40 CFR Part 403.12 g , all Periodic Self Monitoring Reports must be signed by a "responsible company official" certifying the following statement.

> 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 assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who mange 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.

Signed: _____ Date: 2/20/98

D. Tuburidy
Site Manager

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS mg / L		RESULTS LBS / DAY		ANNUAL AVERAGE mg / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	1/6/98		1/6/98			
24 HOUR FLOW IN MGD	0.03405		0.03405		0.04476	(MGD)
TOTAL SUSPENDED SOLIDS						
SOLUBLE ORGANIC CARBON						
TOTAL PHOSPHOROUS						
TOTAL PHENOL	0.005		0.00142		0.010	0.0051
OIL AND GREASE						
CADMIUM						
CHROMIUM						
COPPER						
LEAD						
MERCURY						
NICKEL						
ZINC						
ARSENIC						
BERYLLIUM						
BARIUM						
TOTAL CYANIDE						
pH (STANDARD UNITS)						
RESIDUAL CHLORINE						
SODIUM CHLORIDE						

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SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS mg / L		RESULTS LBS / DAY		ANNUAL AVERAGE mg / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	12/19/97		12/19/97			
24 HOUR FLOW IN MGD	0.02910		0.02910		0.04353	(MGD)
TOTAL SUSPENDED SOLIDS	0		0.00		5.000	1.65
SOLUBLE ORGANIC CARBON	7		1.70		5.900	1.95
TOTAL PHOSPHOROUS						
TOTAL PHENOL						
OIL AND GREASE						
CADMIUM						
CHROMIUM						
COPPER						
LEAD						
MERCURY						
NICKEL						
ZINC						
ARSENIC						
BERYLLIUM						
BARIUM						
TOTAL CYANIDE						
pH (STANDARD UNITS)						
RESIDUAL CHLORINE						
SODIUM CHLORIDE						

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SIU PERMIT NO: 44

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DATE SAMPLED	1/6/98		1/6/98			
24 HOUR FLOW IN MGD	0.03405		0.03405			
BENZENE	< 3		0		< 1.2	0
CARBON TETRACHLORIDE	< 3		0		< 1.2	0
CHLORODIBROMOMETHANE	< 2		0		< 1.2	0
MONOCHLOROBENZENE	<		0		<	0
DICHLOROBROMOMETHANE	< 2		0		< 1.1	0
CHLOROFORM	< 3		0		< 1.5	0
1,1 - DICHLOROETHYLENE	< 3		0		< 1.2	0
1,2 - DICHLOROETHYLENE	< 2		0		< 1.7	0
BROMOFORM	< 2		0		< 1	0
DICHLOROPROPYLENES	< 3		0		< 1.4	0
ETHYLBENZENE	< 3		0		< 1.4	0
1,1,2,2 - TETRACHLOROETHANE	< 3		0		< 1.3	0
TETRACHLOROETHYLENE	<		0		<	0
TOLUENE	<		0		<	0
1,1,1 - TRICHLOROETHANE	< 3		0		< 1.2	0
1,1,2 - TRICHLOROETHANE	< 3		0		< 1.1	0
TRICHLOROETHYLENE	< 2		0		< 0.9	0
METHYLENE CHLORIDE	<		0		<	0
MONOCHLOROTOLUENES	<		0		<	0
MONOCHLOROBENZOTRIFLUROIDE	<		0		<	0
VINYL CHLORIDE	< 3		0		< 1.3	0
TETRAHYDRAFURAN						
XYLENE						

PART I
ANALYTICAL RESULTS

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Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

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	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	12/19/97		12/19/97			
24 HOUR FLOW IN MGD	0.0291		0.0291			
BENZENE	<		0		<	0
CARBON TETRACHLORIDE	<		0		<	0
CHLORODIBROMOMETHANE	<		0		<	0
MONOCHLOROBENZENE	< 1		0		< 1	0
DICHLOROBROMOMETHANE	<		0		<	0
CHLOROFORM	<		0		<	0
1,1 - DICHLOROETHYLENE	<		0		<	0
1,2 - DICHLOROETHYLENE	<		0		<	0
BROMOFORM	<		0		<	0
DICHLOROPROPYLENES	<		0		<	0
ETHYLBENZENE	<		0		<	0
1,1,2,2 - TETRACHLOROETHANE	<		0		<	0
TETRACHLOROETHYLENE	< 2		0		< 0.8	0
TOLUENE	< 1		0		< 1	0
1,1,1 - TRICHLOROETHANE	<		0		<	0
1,1,2 - TRICHLOROETHANE	<		0		<	0
TRICHLOROETHYLENE	< 2		0		< 0.9	0
METHYLENE CHLORIDE	<		0		<	0
MONOCHLOROTOLUENES	< 1		0		< 1	0
MONOCHLOROBENZOTRIFLUROIDE	< 1		0		< 1	0
VINYL CHLORIDE	<		0		<	0
TETRAHYDRAFURAN						
XYLENE						

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ANALYTICAL RESULTS

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	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	1/6/98		1/6/98			
24 HOUR FLOW IN MGD	0.03405		0.03405			
DIMETHYL PHTHALATE	< 3		0		< 3	0
BUTYL BENZYL PHTHALATE	< 3		0		< 3	0
DIBUTYL PHTHALATE	< 4		0		< 4	0
NITROSODIPHENYLAMINE	< 7		0		< 7	0
DICHLOROBENZENES	<		0		<	0
DICHLOROTOLUENE	<		0		<	0
ACENAPHTHENE	< 3		0		< 3	0
FLUORANTHENE	< 3		0		< 3	0
CHRYSENE	< 3		0		< 3	0
NAPHTHALENE	< 3		0		< 3	0
BENZO (a) ANTHRACENE	< 3		0		< 3	0
PYRENE	< 4		0		< 4	0
TRICHLOROBENZENE	<		0		<	0
TRICHLOROTOLUENE	< 3		0		< 3	0
HEXACHLOROBUTADIENE	<		0		<	0
TETRACHLOROBENZENE	<		0		<	0
HEXACHLOROCYCLOPENTADIEN	<		0		<	0
HEXACHLOROBENZENE	< 4		0		< 4	0
DICHLOROBENZOTRIFLUORIDE	<		0		<	0
DIOCTYL PHTHALATE	< 3		0		< 3	0
DIETHYL PHTHALATE	< 3		0		< 3	0

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	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	12/19/97		12/19/97			
24 HOUR FLOW IN MGD	0.02910		0.02910			
DIMETHYL PHTHALATE	<		0		<	0
BUTYL BENZYL PHTHALATE	<		0		<	0
DIBUTYL PHTHALATE	<		0		<	0
NITROSODIPHENYLAMINE	<		0		<	0
DICHLOROBENZENES	< 1		0		< 1	0
DICHLOROTOLUENE	< 1		0		< 1	0
ACENAPHTHENE	<		0		<	0
FLUORANTHENE	<		0		<	0
CHRYSENE	<		0		<	0
NAPHTHALENE	<		0		<	0
BENZO (a) ANTHRACENE	<		0		<	0
PYRENE	<		0		<	0
TRICHLOROBENZENE	< 1		0		< 1	0
TRICHLOROTOLUENE	<		0		<	0
HEXACHLOROBUTADIENE	< 1		0		< 1	0
TETRACHLOROBENZENE	< 1		0		< 1	0
HEXACHLOROCYCLOPENTADIEN	< 1		0		< 1	0
HEXACHLOROBENZENE	<		0		<	0
DICHLOROBENZOTRIFLUORIDE	< 1		0		< 1	0
DIOCTYL PHTHALATE	<		0		<	0
DIETHYL PHTHALATE	<		0		<	0

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	1/6/98		1/6/98			
24 HOUR FLOW IN MGD	0.03405		0.03405			
PHENANTHRENE						
MONOCHLOROPHENOL	< 3		0		< 3	0
DICHLOROPHENOL	< 3		0		< 3	0
MONOCHLOROCRESOL	< 3		0		< 3	0
TRICHLOROPHENOL	< 3		0		< 3	0
PENTACHLOROPHENOL	< 4		0		< 4	0
HEXACHLOROCYCLOHEXANES						
PCB'S						
ENDOSULFAN I + ENDOSULFAN II + ENDOSULFAN SULFATE						
MIREX						
DECHLORANE PLUS						
HEPTACHLOR + HEPTACHLOR EPOXIDE						

OCCIDENTAL CHEMICAL CORPORATION

LOVE CANAL LEACHATE TREATMENT FACILITY

PERMIT NO. 44

FIRST QUARTER 1998

DATE	FLOW(GPD)	
11/6/97	19,250	
11/7/97	58,830	
11/10/97	47,040	
11/14/97	38,900	
11/20/97	43,600	
11/21/97	40,910	
11/24/97	41,400	
11/25/97	31,790	
11/26/97	24,830	
SUBTOTAL	**346,550**	
12/1/97	65,936	
12/2/97	51,754	
12/3/97	45,250	
12/8/97	52,650	
12/9/97	51,000	
12/12/97	38,200	
12/19/97	29,100	***Quarterly sampling***
12/23/97	54,500	***Niagara Lab***
12/26/97	61,430	
12/29/97	48,100	
12/31/97	26,840	
SUBTOTAL	**524,760**	
1/2/98	17,800	
1/5/98	42,753	
1/6/98	34,046	***Quarterly sampling***
1/7/98	53,222	
1/8/98	53,124	
1/9/98	61,615	
1/12/98	72,500	
1/13/98	91,682	
1/14/98	95,603	
1/15/98	37,679	
1/19/98	48,307	
1/21/98	12,358	
1/27/98	51,386	
1/28/98	28,995	
SUBTOTAL	**701,070**	

PART II
COMPLIANCE MONITORING

INDUSTRY NAME: OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT FACILITY

PERMIT NO. 44

FOURTH QUARTER 1997

VIOLATION PARAMETER	DATE	FLOW (MGD)	SAMPLE POINT LOCATION	ACTUAL DISCHARGE	PERMIT LIMIT	TYPE LIMIT VIOLATED **
NO VIOLATIONS						

NOTE:

* - ACTUAL DISCHARGE - LIST ACTUAL ANALYTICAL RESULTS AND APPROPRIATE UNITS

** - TYPE LIMIT VIOLATED - LIST TYPE:

A.A. = ANNUAL AVERAGE

D.M. = DAILY MAXIMUM

L.L. = LOCAL LIMITS (ORDINANCE 250.5.1)

OXYCHEM
Chain of Custody Record

Project / Program: QTY LOVE CANAL

Ship To: NIAGARA Q & E 278 7083

Requested Analyses

Sampler (Print & Sign Name): DARRELL CROCKETT

Facility / Location: NIAGARA

Sample Site: LOVE CANAL, 805 97TH ST

Send Report to: LOVE CANAL, 805 97TH ST, NIAGARA FALLS NY 14304
FAX 283 2856
DAILY GRAB

Sample Identification (SAMPLE NO)	Date	Time	Matrix				Container Type	# of Containers	MICROAGL	MICROPH	TOBOL				Preservative	Temperature
EFFLUENT 97 TH ST(001) 69-1A,B,C,D,E,F,G,H	12/8/97	8A	WW		X		250ML AG	8	X							4oC 1HNO
EFFLUENT 97 TH ST(001) 69-2A,B,C	12/8/97	8A	WW	X			AG.L	3		X					H2SO4 PHC2	4oC CuSO4
EFFLUENT 97 TH ST(001) 69-3A,B	12/8/97	8A	WW	X			AG.L	2			X				H2SO4 PHC2	4oC
EFFLUENT 97 TH ST(001) 69-4	12/8/97	8A	WW	X			AG.L	1				X				4oC
EFFLUENT 97 TH ST(001) 69-5	12/8/97	8A	WW	X			AG.L	1					X		H2SO4	4oC PHC2

Total Number of Containers: 15

* Suggested Codes Listed On Back

Relinquished by	Date	Time	Received by	Employer
	12/8/97	8:15A	Catherine Burdy	OCCIDENTAL CHEM
Relinquished by	Date	Time	Received by	Employer
Relinquished by	Date	Time	Received by	Employer
Relinquished by	Date	Time	Received by	Employer
Relinquished by	Date	Time	Received by	Employer

Custody Remarks: ALL CAPS TIGHT

Contact Person: DARRELL CROCKETT
FAX#

Contact Phone: 283 1553
283 2856

OXYCHEM
Chain of Custody Record

Project / Program: QTY LOVE CANAL

Ship To: NIAGARA Q & E 278-7083

Requested Analyses

Sampler (Print & Sign Name): DARRELL CROCKETT

Facility / Location: NIAGARA

Sample Site: LOVE CANAL 805 97TH ST

Send Report to: LOVE CANAL
805 97TH ST
NIAGARA FALLS NY 14304
FAX 283-1553
DAILY GRAB

Sample Identification / SAMPLE NO.	Date M/D/Y	Time	Matrix	Comp	Grab	Other	Container Type	# of Containers	SEMI VOLATILE	VOLATILE						Sample Remarks	Sample Preservative
EFFLUENT 97 TH ST(001) 69-6A,B,C,D,E,F,G,H	12/8/97	8A	WW		X		40HV	8	X								4oC THIO
EFFLUENT 97 TH ST(001) 69-7A,B,C	12/8/97	8A	WW	X			AG,L	3		X							4oC
																	4oC
																	4oC
							Total Number of Containers	11									

* Suggested Codes Listed On Back

Relinquished by	Date	Time	Received by	Employer
	12/8/97	8am	Catherine Burdon	OCCIDENTAL CHEM
Relinquished by	Date	Time	Received by	Employer
Relinquished by	Date	Time	Received by	Employer
Relinquished by	Date	Time	Received by	Employer
Relinquished by	Date	Time	Received by	Employer

Custody Remarks
ALL CAPS TIGHT

Contact (print): DARRELL CROCKETT
FAX#

Contact phone: 283-1553
283-2856

OXYCHEM
Chain of Custody Record

Project / Program: QTY LOVE CANAL

Ship To: NIAGARA Q & E 278-7083

Requested Analyses

Sampler (Print & Sign Name): DARRELL CROCKETT

Facility / Location: NIAGARA

Sample Site: LOVE CANAL, 805 97TH ST

Send Report to: LOVE CANAL, 805 97TH ST, NIAGARA FALLS NY 14304
FAX 283-2856
DAILY GRAB

Sample Identification / SAMPLE NO.	Date MO/DY	Time	Matrix	Grab	Comp	Other	Container Type	# of Containers	MICROVOA	MICROORG	THOPHENOL	TSS	TSS		Sample Remarks	Sample Preservative
EFFLUENT 97 TH ST(001) 71-1A,B,C,D,E,F,G,H	1/6/98	2:00	WW		X		250ML AG	8	X							4oC THIO
EFFLUENT 97 TH ST(001) 71-2A,B,C	1/6/98	2:00	WW	X			AG,L	3		X					H2SO4 PHC2	4oC CuSO4
EFFLUENT 97 TH ST(001) 71-3A,B	1/6/98	2:00	WW	X			AG,L	2			X				H2SO4 PHC2	4oC
EFFLUENT 97 TH ST(001) 71-4	1/6/98	2:00	WW	X			AG,L	1				X				4oC
EFFLUENT 97 TH ST(001) 71-5	1/6/98	2:00	WW	X			AG,L	1					X		H2SO4	4oc PHC2
Total Number of Containers								15							* Suggested Codes Listed On Back	

Relinquished by	Date	Time	Received by	Employer
[signature]	1/6/98	[illegible]	[signature]	OCCIDENTAL CHEM
Relinquished by	Date	Time	Received by	Employer
Relinquished by	Date	Time	Received by	Employer
Relinquished by	Date	Time	Received by	Employer
Relinquished by	Date	Time	Received by	Employer

Custody Remarks: ALL CAPS TIGHJ

Contact (print): DARRELL CROCKETT
FAX#

Contact phone: 283-1553
283-2856

OXYCHEM
Chain of Custody Record

Project / Program: QTY LOVE CANAL

Ship To: NIAGARA Q & E 278-7083

Sampler (Print & Sign Name): DARRELL CROCKETT

Facility / Location: NIAGARA

Sample Site: LOVE CANAL 805 97TH ST

Send Report to: LOVE CANAL
805 97TH ST
NIAGARA FALLS NY 14304
FAX 283-1553
DAILY GRAB

Requested Analyses

Sample Identification / SAMPLE NO.	Date M/D/Y	Time	Matrix	Comp	Grab	Other	Container Type	# of Containers	SEMI VOLATIL	VOLATIL						Sample Remarks	Sample Preservative
EFFLUENT 97 TH ST(001) 71-6A,B,C,D,E,F,G,H	1/6/98	2:00pm	WW		X		40HV	8	X								4oC THIO
EFFLUENT 97 TH ST(001) 71-7A,B,C	1/6/98	2:00pm	WW	X			AG,L	3		X							4oC
																	4oC
																	4oC
							Total Number of Containers	11									

* Suggested Codes Listed On Back

Relinquished by	Date	Time	Received by	Employer
	1/6/98	2PM	Catherine Beerden	OCCIDENTAL CHEM
Relinquished by	Date	Time	Received by	Employer
Relinquished by	Date	Time	Received by	Employer
Relinquished by	Date	Time	Received by	Employer
Relinquished by	Date	Time	Received by	Employer

Custody Remarks: ALL CAPS TIGHT

Contact (print): DARRELL CROCKETT
FAX#

Contact phone: 283-1553
283-2856

D. KING DKK

AB

BPA

MAY 30, 1998

Mr. Albert C. Zaepfel
Industrial Monitoring Coordinator
NIAGARA FALLS WASTEWATER FACILITIES
P.O. Box 69
Niagara Falls, NY 14302-0069

RE: Second Quarter 1998 Sampling
Occidental Chemical Corporation, Love Canal Leachate Treatment Facility
Permit No. 44

Dear Mr. Zaepfel:

Enclosed are the monitoring results and discharge report for the Second Quarter of 1998.

When concentrations are reported as < or not detected at quantitation levels, calculated mass discharges are listed and included as zero in calculated averages. Similarly one or more < concentrations is averaged with other analyses as zero. When all data averaged are ND, the highest detection level is noted, i.e., <10, <5, <8 is shown as <10.

Should you have any questions, please contact me at 283-1153.

Sincerely yours,

Darrell Crockett
Process Supervisor

DC/sc.
Enclosures

xc: G.J. Rider, Jr., P.E. — NYSDEC, Albany
P. Buechi — NYSDEC, Region 9
D. Tuburidy/CENTRAL FILE
J. Westendorf
D. Crockett — Love Canal

H:97 DC0026

CITY OF NIAGARA FALLS
DEPARTMENT OF WASTEWATER FACILITIES
ENFORCEMENT DIVISION

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PERMIT NO. 44 QUARTER SECOND – 1998

INDUSTRY NAME OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT
FACILITY

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	-	2nd Quarter by May 31st
	-	3rd Quarter by August 31st
	-	4th Quarter by November 30th
Semi - Annual	-	by February 28th
		AND
	-	by August 31st

Each section of this report form shall be filled out for those parameters listed in Section "G" of the company's Wastewater Discharge Permit. The analysis results must be reported in both concentration and mass. In addition, the calculated annual average load (lbs/day) for each pollutant shall also be reported.

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SIGNIFICANT INDUSTRIAL USERS

PAGE 2

PART II of the report is the Compliance Monitoring section. The user is obligated to determine if the analysis results indicates compliance or non-compliance. All violations noted should be brought to the City's attention immediately upon noting and should also be reported in this section. The analysis result should be compared against all applicable federal, state and local standards and limitations. If no violations are noted then"NO VIOLATIONS" should appear on the report.

Pursuant to 40 CFR Part 403.12 g of the federal standards, all violations noted must be followed up by a sample recollect/analysis and the results submitted to the City within thirty (30) days of first becoming aware of the violation.

Pursuant to 40 CFR Part 403.12 g , all Periodic Self Monitoring Reports must be signed by a "responsible company official" certifying the following statement.

> 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 assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who mange 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.

Signed: _____ Date:

D. Tuburidy
Site Manager

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) MS#1 - 97th Street

	RESULTS mg / L		RESULTS LBS / DAY		ANNUAL AVERAGE mg / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	3/25/98		3/25/98			
24 HOUR FLOW IN MGD	0.05678		0.05678		0.04353	(MGD)
TOTAL SUSPENDED SOLIDS	1		0.47		5.000	1.51
SOLUBLE ORGANIC CARBON	4.6		2.18		5.900	2.36
TOTAL PHOSPHOROUS						
TOTAL PHENOL	0.009		0.0043		0.010	0.0042
OIL AND GREASE						
CADMIUM						
CHROMIUM						
COPPER						
LEAD						
MERCURY						
NICKEL						
ZINC						
ARSENIC						
BERYLLIUM						
BARIUM						
TOTAL CYANIDE						
pH (STANDARD UNITS)						
RESIDUAL CHLORINE						
SODIUM CHLORIDE						

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) MS#1 - 97th Street

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	3/25/98		3/25/98			
24 HOUR FLOW IN MGD	0.05678		0.05678			
BENZENE	< 2		0		< 1.2	0
CARBON TETRACHLORIDE	< 2		0		< 1.2	0
CHLORODIBROMOMETHANE	< 4		0		< 1.2	0
MONOCHLOROBENZENE	< 1		0		< 1	0
DICHLOROBROMOMETHANE	< 1		0		< 1.1	0
CHLOROFORM	< 2		0		< 1.5	0
1,1 - DICHLOROETHYLENE	< 2		0		< 1.2	0
1,2 - DICHLOROETHYLENE	< 2		0		< 1.7	0
BROMOFORM	< 4		0		< 1	0
DICHLOROPROPYLENES	< 1		0		< 1.4	0
ETHYLBENZENE	< 1		0		< 1.4	0
1,1,2,2 - TETRACHLOROETHANE	< 3		0		< 1.3	0
TETRACHLOROETHYLENE	< 1		0		< 0.8	0
TOLUENE	< 1		0		< 1	0
1,1,1 - TRICHLOROETHANE	< 2		0		< 1.2	0
1,1,2 - TRICHLOROETHANE	< 2		0		< 1.1	0
TRICHLOROETHYLENE	< 1		0		< 0.9	0
METHYLENE CHLORIDE	< 3		0		< 4.1	0
MONOCHLOROTOLUENES	< 1		0		< 1	0
MONOCHLOROBENZOTRIFLUROIDE	< 1		0		< 1	0
VINYL CHLORIDE	< 1		0		< 1.3	0
TETRAHYDRAFURAN						
XYLENE						

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) MS#1 - 97th Street

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	3/25/98		3/25/98			
24 HOUR FLOW IN MGD	0.05678		0.05678			
DIMETHYL PHTHALATE	< 3		0		< 3	0
BUTYL BENZYL PHTHALATE	< 3		0		< 3	0
DIBUTYL PHTHALATE	< 4		0		< 4	0
NITROSODIPHENYLAMINE	< 8		0		< 7	0
DICHLOROBENZENES	< 1		0		< 1	0
DICHLOROTOLUENE	< 1		0		< 1	0
ACENAPHTHENE	< 3		0		< 3	0
FLUORANTHENE	< 3		0		< 3	0
CHRYSENE	< 3		0		< 3	0
NAPHTHALENE	< 3		0		< 3	0
BENZO (a) ANTHRACENE	< 3		0		< 3	0
PYRENE	< 4		0		< 4	0
TRICHLOROBENZENE	< 1		0		< 1	0
TRICHLOROTOLUENE	< 3		0		< 3	0
HEXACHLOROBUTADIENE	< 1		0		< 1	0
TETRACHLOROBENZENE	< 1		0		< 1	0
HEXACHLOROCYCLOPENTADIEN	< 1		0		< 1	0
HEXACHLOROBENZENE	< 4		0		< 4	0
DICHLOROBENZOTRIFLUORIDE	< 1		0		< 1	0
DIOCTYL PHTHALATE	< 3		0		< 3	0
DIETHYL PHTHALATE	< 3		0		< 3	0

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	3/25/98		3/25/98			
24 HOUR FLOW IN MGD	0.05678		0.05678			
PHENANTHRENE						
MONOCHLOROPHENOL	< 3		0		< 3	0
DICHLOROPHENOL	< 3		0		< 3	0
MONOCHLOROCRESOL	< 3		0		< 3	0
TRICHLOROPHENOL	< 3		0		< 3	0
PENTACHLOROPHENOL	< 4		0		< 4	0
HEXACHLOROCYCLOHEXANES						
PCB'S						
ENDOSULFAN I + ENDOSULFAN II + ENDOSULFAN SULFATE						
MIREX						
DECHLORANE PLUS						
HEPTACHLOR + HEPTACHLOR EPOXIDE						

PART II
COMPLIANCE MONITORING

INDUSTRY NAME: OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT FACILITY

PERMIT NO. 44

SECOND QUARTER 1998

VIOLATION PARAMETER	DATE	FLOW (MGD)	SAMPLE POINT LOCATION	ACTUAL DISCHARGE	PERMIT LIMIT	TYPE LIMIT VIOLATED **
NO VIOLATIONS						

NOTE:

* - ACTUAL DISCHARGE - LIST ACTUAL ANALYTICAL RESULTS AND APPROPRIATE UNITS

** - TYPE LIMIT VIOLATED - LIST TYPE:

A.A. = ANNUAL AVERAGE

D.M. = DAILY MAXIMUM

L.L. = LOCAL LIMITS (ORDINANCE 250.5.1)

OCCIDENTAL CHEMICAL CORPORATION

LOVE CANAL LEACHATE TREATMENT FACILITY

PERMIT NO. 44

SECOND QUARTER 1998

DATE	FLOW(GPD)		
2/2/98	52,714		
2/3/98	56,247		
2/4/98	62,024		
2/9/98	20,459		
2/11/98	44,571		
2/13/98	27,128		
2/17/98	54,086		
2/18/98	57,038		
2/19/98	47,335		
2/23/98	39,383		
2/25/98	23,839		
SUBTOTAL	**484,824**		
3/4/98	56,056		
3/6/98	46,605		
3/10/98	52,612		
3/11/98	53,666		
3/12/98	45,467		
3/16/98	35,935		**MGD**
3/22/98	65,570		
3/25/98	56,780	***Quarterly sampling***	0.05678
3/27/98	48,865		
3/30/98	75,045		
3/31/98	70,787		
SUBTOTAL	**607,388**		
4/1/98	47,452		
4/2/98	28,691		
4/3/98	56,159		
4/4/98	46,376		
4/7/98	34,526		
4/9/98	19,082		
4/14/98	89,805		
4/21/98	76,590		
4/22/98	31,284		
4/23/98	13,609		
4/25/98	9,570		
4/28/98	314		
4/29/98	5,020		
SUBTOTAL	**458,478**		

OXYCH
Chain of Custody Record

Project / Program	Ship To: NIAGARA E 278-7083
QTY LOVE CANAL	

Sampler (Print & Sign Name): DARRELL CROCKETT

Facility / Location: NIAGARA

Sample Site: LOVE CANAL, 805 97TH ST

Send Report to: LOVE CANAL
805 97TH ST
NIAGARA FALLS NY 14304
FAX 283-1553
DAILY GRAB

Requested Analyses

Sample Identification / SAMPLE NO.	Date M/D/Y	Time	Matrix	Comp	Grab	Other	Container Type	# of Containers	VOLATVOA	SEMIVOLATIL						Sample Remarks	Sample Preservative
EFFLUENT 73-6A,B,C,D,E,F,G,H 97 TH ST(001)	3/25/98	6A	WW		X		40HV	8	X								4oC THIO
EFFLUENT 73,7A,B,C 97 TH ST(001)	3/25/98	6A	WW	X			AG,L	3		X							4oC
																	4oC
																	4oC
							Total Number of Containers	11									

* Suggested Codes Listed On Back

Relinquished by	Date	Time	Received by	Employer
	3/25/98	2:30 pm		OCCIDENTAL CHEM
Relinquished by	Date	Time	Received by	Employer
Relinquished by	Date	Time	Received by	Employer
Relinquished by	Date	Time	Received by	Employer
Relinquished by	Date	Time	Received by	Employer

Custody Remarks
ALL CAPS TIGHT.

Contact (print): DARRELL CROCKETT
FAX#

Contact phone: 283-1553
283-2856

OXYCH
Chain of Custody Record

Project / Program: QTY LOVE CANAL

Ship To: NIAGARA E 278-7083

Requested Analyses

Sampler (Print & Sign Name): DARRELL CROCKETT

Facility / Location: NIAGARA

Sample Site: LOVE CANAL 805 97TH ST

Send Report to: LOVE CANAL
805 97TH ST
NIAGARA FALLS NY 14304
FAX 283-2856
DAILY GRAB

Sample Identification / SAMPLE NO.	Date M/D/Y	Time	Matrix	Comp	Grab	Other	Container Type	# of Containers	MICROVOA	MICROORG	TOPHENOL	TSS	TSS		Sample Remarks	Sample Preservative
EFFLUENT 97 TH ST(001) 73-1A,B,C,D,E,F,G,H	3/25/98	6A	WW		X		250ML AG	8	X							4oC THIO
EFFLUENT 97 TH ST(001) 73-2A,B,C	3/25/98	6A	WW	X			AG,L	3		X					H2SO4 PhC2	4oC CusO4
EFFLUENT 97 TH ST(001) 73-3A,B	3/25/98	6A	WW	X			AG,L	2			X				H2SO4 PhC2	4oC
EFFLUENT 97 TH ST(001) 73-4	3/25/98	6A	WW	X			AG,L	1				X				4oC
EFFLUENT 97 TH ST(001) 73-5	3/25/98	6A	WW	X			AG,L	1					X		H2SO4	4oc PHC2
							Total Number of Containers	15	* Suggested Codes Listed On Back							

Relinquished by	Date	Time	Received by	Employer
Darrell Crockett	3/25/98	2:30 pm	Nolan Hunter	OCCIDENTAL CHEM
Relinquished by	Date	Time	Received by	Employer
Relinquished by	Date	Time	Received by	Employer
Relinquished by	Date	Time	Received by	Employer
Relinquished by	Date	Time	Received by	Employer

Custody Remarks: ALL CAPS TIGHT.

Contact (print): DARRELL CROCKETT
FAX#

Contact phone: 283-1553
283-2856

DIANE - AB
B. Sadowski BPS.
File -

AUGUST 31,1998

Mr. Albert C. Zaepfel
Industrial Monitoring Coordinator
NIAGARA FALLS WASTEWATER FACILITIES
P.O. Box 69
Niagara Falls, NY 14302-0069

RECEIVED
SEP 01 1998
NYSDEC - REG. 9
FOIL
REL UNREL

RE: Third Quarter 1998 Sampling
Occidental Chemical Corporation, Love Canal Leachate Treatment Facility
Permit No. 44

Dear Mr. Zaepfel:

Enclosed are the monitoring results and discharge report for the Third Quarter of 1998.

When concentrations are reported as < or not detected at quantitation levels, calculated mass discharges are listed and included as zero in calculated averages. Similarly one or more < concentrations is averaged with other analyses as zero. When all data averaged are ND, the highest detection level is noted, i.e., <10, <5, <8 is shown as <10.

Should you have any questions, please contact me at 283-0111.

Sincerely yours,

Darrell Crockett
Process Supervisor

DC/sc.
Enclosures

xc: G.J. Rider, Jr., P.E. NYSDEC, Albany
P. Buechi NYSDEC, Region 9
D. Tuburidy/CENTRAL FILE
J. Westendorf
D. Crockett Love Canal
B. Downie Love Canal

CITY OF NIAGARA FALLS
DEPARTMENT OF WASTEWATER FACILITIES
ENFORCEMENT DIVISION

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PERMIT NO. 44 QUARTER THIRD – 1998

INDUSTRY NAME OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT
FACILITY

Pursuant to federal pretreatment reporting requirements and the City Sewer Use Ordinance Chapter 250, Significant Industrial Users shall submit periodic self monitoring and compliance reports. Such reports shall be submitted using this form, according to the following schedule:

Quarterly	-	1st Quarter by February 28th
	-	2nd Quarter by May 31st
	-	3rd Quarter by August 31st
	-	4th Quarter by November 30th
Semi - Annual	-	by February 28th AND
	-	by August 31st

Each section of this report form shall be filled out for those parameters listed in Section "G" of the company's Wastewater Discharge Permit. The analysis results must be reported in both concentration and mass. In addition, the calculated annual average load (lbs/day) for each pollutant shall also be reported.

The samples shall be collected at the monitoring points identified in the user permit. Identification of those points in this report should be as listed on Page two (2) of the user permit.

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PAGE 2

PART II of the report is the Compliance Monitoring section. The user is obligated to determine if the analysis results indicates compliance or non-compliance. All violations noted should be brought to the City's attention immediately upon noting and should also be reported in this section. The analysis result should be compared against all applicable federal, state and local standards and limitations. If no violations are noted then"NO VIOLATIONS" should appear on the report.

Pursuant to 40 CFR Part 403.12 g of the federal standards, all violations noted must be followed up by a sample recollect/analysis and the results submitted to the City within thirty (30) days of first becoming aware of the violation.

Pursuant to 40 CFR Part 403.12 g , all Periodic Self Monitoring Reports must be signed by a "responsible company official" certifying the following statement.

> 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 assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who mange 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.

Signed: _____ Date:

D. Tuburidy
Site Manager

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS mg / L		RESULTS LBS / DAY		ANNUAL AVERAGE mg / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	6/24/98		6/24/98			
24 HOUR FLOW IN MGD	0.03550		0.03550		0.04753	(MGD)
TOTAL SUSPENDED SOLIDS	14		4.14		5.000	2.22
SOLUBLE ORGANIC CARBON	101		29.90		5.900	9.53
TOTAL PHOSPHOROUS						
TOTAL PHENOL	0.005		0.0015		0.010	0.0043
OIL AND GREASE						
CADMIUM						
CHROMIUM						
COPPER						
LEAD						
MERCURY						
NICKEL						
ZINC						
ARSENIC						
BERYLLIUM						
BARIUM						
TOTAL CYANIDE						
pH (STANDARD UNITS)						
RESIDUAL CHLORINE						
SODIUM CHLORIDE						

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) MS#1 - 97th Street

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	6/24/98		6/24/98			
24 HOUR FLOW IN MGD	0.0355		0.0355			
BENZENE	< 4.4		0		< 1.2	0
CARBON TETRACHLORIDE	< 2.8		0		< 1.2	0
CHLORODIBROMOMETHANE	< 3.1		0		< 1.2	0
MONOCHLOROBENZENE	< 6		0		< 1	0
DICHLOROBROMOMETHANE	< 2.2		0		< 1.1	0
CHLOROFORM	< 1.6		0		< 1.5	0
1,1 - DICHLOROETHYLENE	< 2.8		0		< 1.2	0
1,2 - DICHLOROETHYLENE	< 5		0		< 1.7	0
BROMOFORM	< 4.7		0		< 1	0
DICHLOROPROPYLENES	< 5		0		< 1.4	0
ETHYLBENZENE	< 7.2		0		< 1.4	0
1,1,2,2 - TETRACHLOROETHANE	< 6.9		0		< 1.3	0
TETRACHLOROETHYLENE	< 4.1		0		< 0.8	0
TOLUENE	< 6		0		< 1	0
1,1,1 - TRICHLOROETHANE	< 3.8		0		< 1.2	0
1,1,2 - TRICHLOROETHANE	< 5		0		< 1.1	0
TRICHLOROETHYLENE	< 1.9		0		< 0.9	0
METHYLENE CHLORIDE	< 2.8		0		< 4.1	0
MONOCHLOROTOLUENES	< 5		0		< 1	0
MONOCHLOROBENZOTRIFLUROIDE	< 10		0		< 1	0
VINYL CHLORIDE	< 10		0		< 1.3	0
TETRAHYDRAFURAN						
XYLENE						

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) MS#1 - 97th Street

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	6/24/98		6/24/98			
24 HOUR FLOW IN MGD	0.03550		0.03550			
DIMETHYL PHTHALATE	< 1.6		0		< 3	0
BUTYL BENZYL PHTHALATE	< 2.5		0		< 3	0
DIBUTYL PHTHALATE	< 2.5		0		< 4	0
NITROSODIPHENYLAMINE	< 1.9		0		< 7	0
DICHLOROBENZENES	< 4.4		0		< 1	0
DICHLOROTOLUENE	< 10		0		< 1	0
ACENAPHTHENE	< 1.9		0		< 3	0
FLUORANTHENE	< 2.2		0		< 3	0
CHRYSENE	< 2.5		0		< 3	0
NAPHTHALENE	< 1.6		0		< 3	0
BENZO (a) ANTHRACENE	< 7.8		0		< 3	0
PYRENE	< 1.9		0		< 4	0
TRICHLOROBENZENE	< 10		0		< 1	0
TRICHLOROTOLUENE	< 10		0		< 3	0
HEXACHLOROBUTADIENE	< 0.9		0		< 1	0
TETRACHLOROBENZENE	< 10		0		< 1	0
HEXACHLOROCYCLOPENTADIEN	< 1		0		< 1	0
HEXACHLOROBENZENE	< 1.9		0		< 4	0
DICHLOROBENZOTRIFLUORIDE	< 10		0		< 1	0
DIOCTYL PHTHALATE	< 2.5		0		< 3	0
DIETHYL PHTHALATE	< 1.9		0		< 3	0

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	6/24/98		6/24/98			
24 HOUR FLOW IN MGD	0.03550		0.03550			
PHENANTHRENE						
MONOCHLOROPHENOL	< 3.3		0		< 3	0
DICHLOROPHENOL	< 2.7		0		< 3	0
MONOCHLOROCRESOL	< 10		0		< 3	0
TRICHLOROPHENOL	< 10		0		< 3	0
PENTACHLOROPHENOL	< 3.6		0		< 4	0
HEXACHLOROCYCLOHEXANES						
PCB'S						
ENDOSULFAN I + ENDOSULFAN II + ENDOSULFAN SULFATE						
MIREX						
DECHLORANE PLUS						
HEPTACHLOR + HEPTACHLOR EPOXIDE						

PART II
COMPLIANCE MONITORING

INDUSTRY NAME: OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT FACILITY

PERMIT NO. 44

SECOND QUARTER 1998

VIOLATION PARAMETER	DATE	FLOW (MGD)	SAMPLE POINT LOCATION	ACTUAL DISCHARGE	PERMIT LIMIT	TYPE LIMIT VIOLATED **
NO VIOLATIONS						

NOTE:

* - ACTUAL DISCHARGE - LIST ACTUAL ANALYTICAL RESULTS AND APPROPRIATE UNITS

** - TYPE LIMIT VIOLATED - LIST TYPE:

A.A. = ANNUAL AVERAGE

D.M. = DAILY MAXIMUM

L.L. = LOCAL LIMITS (ORDINANCE 250.5.1)

OCCIDENTAL CHEMICAL CORPORATION

LOVE CANAL LEACHATE TREATMENT FACILITY

PERMIT NO. 44

THIRD QUARTER 1998

DATE	FLOW(GPD)		
5/5/98	16,300		
5/12/98	9,600		
5/14/98	39,900		
5/16/98	10,500		
5/19/98	15,700		
5/23/98	25,600		
5/27/98	15,500		
5/30/98	6,500		
SUBTOTAL	**139,600**		
6/1/98	11,600		
6/3/98	9,700		
6/8/98	16,100		
6/11/98	13,700		
6/15/98	13,200		
6/24/98	**35,500**		**MGD**
		Quarterly sampling	0.0355
SUBTOTAL	**99,800**		
7/2/98	25,500		
7/8/98	36,200		
7/15/98	31,800		
7/23/98	36,700		
SUBTOTAL	**130,200**		

CHAIN OF CUSTODY REC.

Glenn Springs Holdings Occidental Chemical	SHIP TO (LABORATORY NAME): RECRA Labs Amherst, NY	REFERENCE NUMBER: LOVE CANAL SEWER QTLY. SAMPLING
FACILITY LOCATION: Love Canal Niagara Falls	SAMPLER(S) (PRINT NAME) D. Crockett / E. Krupp / L. Kosha	SIGNATURE L. Kosha

DATE	TIME	SAMPLE NO.	COMPOSITE	GRAB	OTHER	CONTAINER TYPE	CONTAINERS NO. of	MICRO VOA	MICRO ORG	PHENOL	TSS	SOC	VOLAT VOA	SEMI VOLATIL			PRESERVED	REMARKS
06/24/98	14:15	1 A,B,C,D,E,F,G,H -I698 INTERSTAGE		X		250 ml AG	8	8									THIO	ALL SAMPLES STORED
"	"	2 A,B,C -I698	X			1 Liter AG	3		3									AND SHIPPED IN COOLER(S)
"	"	3 A,B -I698	X			1 Liter AG	2			2							H2SO4/CUSO4	WITH ICE/ICE PACKS AND
"	"	4 -I698	X			1 Liter AG	1				1						-	KEPT AT 4c
"	"	5 -I698	X			1 Liter AG	1					1					H2SO4	Seal #15
"	"	6 A,B,C,D,E,F,G,H -I698		X		40 ml/g	8						8				THIO	56154 +
"	"	7 A,B,C -I698	X			1 Liter AG	3							3			-	56155
06/24/98	14:15	1 A,B,C,D,E,F,G,H -E698 EFFLUENT		X		250 ml AG	8	8									THIO	
"	"	2 A,B,C -E698	X			1 Liter AG	3		3									
"	"	3 A,B -E698	X			1 Liter AG	2			2							H2SO4/CUSO4	
"	"	4 -E698	X			1 Liter AG	1				1						-	
"	"	5 -E698	X			1 Liter AG	1					1					H2SO4	
"	"	6 A,B,C,D,E,F,G,H -E698		X		40 ml/g	8						8				THIO	
"	"	7 A,B,C -E698	X			1 Liter AG	3							3			-	
																		* Did not receive PC 7/1/98
"	"	* TRIP BLANK			X	40 mL G												
TOTAL NUMBER OF CONTAINERS																		

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
L. Kosha	6-24-98	2:40	D. Blackburn	6/24/98	2:50
D. Blackburn	6/24/98	3:30	Pamela R. Yule	6/24/98	3:30
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
			[illegible]	7/1/98	10:00

BOTTLE TYPES : G = GLASS ; AG = AMBER GLASS ; P = HPDE (PLASTIC) ; SAG = SILANIZED AMBER GLASS

METHOD OF SHIPMENT : SAMPLE TEAM: D. Crockett / E. Krupp / L. Kosha

LCCUST.XLS BDD 4/4/96

coolers 5/5/5 C

08/28/98 10:09 ☎ 008/008

UUU024

D. King DKK
AB
BPS

NOVEMBER 30, 1998

RECEIVED

DEC 01 1998

NYSDEC - REG. 9
FOIL
X REL __ UNREL

Mr. Albert C. Zaepfel
Industrial Monitoring Coordinator
NIAGARA FALLS WASTEWATER FACILITIES
P.O. Box 69
Niagara Falls, NY 14302-0069

RE: Fourth Quarter 1998 Sampling
Occidental Chemical Corporation, Love Canal Leachate Treatment Facility
Permit No. 44

Dear Mr. Zaepfel:

Enclosed are the monitoring results and discharge report for the Fourth Quarter of 1998.

When concentrations are reported as < or not detected at quantitation levels, calculated mass discharges are listed and included as zero in calculated averages. Similarly one or more < concentrations is averaged with other analyses as zero. When all data averaged are ND, the highest detection level is noted, i.e., <10, <5, <8 is shown as <10.

Should you have any questions, please contact me at 283-0111.

Sincerely yours,

Darrell Crockett

DC/sc.
Enclosures

xc:	G.J. Rider, Jr., P.E.	NYSDEC, Albany
	P. Buechi	NYSDEC, Region 9
	D. Tuburidy/CENTRAL FILE	
	J. Westendorf	
	D. Crockett	Love Canal
	B. Downie	Love Canal

H:97:DC0026

CITY OF NIAGARA FALLS
DEPARTMENT OF WASTEWATER FACILITIES
ENFORCEMENT DIVISION

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PERMIT NO. 44 QUARTER FOURTH - 1998

INDUSTRY NAME OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT
FACILITY

Pursuant to federal pretreatment reporting requirements and the City Sewer Use Ordinance Chapter 250, Significant Industrial Users shall submit periodic self monitoring and compliance reports. Such reports shall be submitted using this form, according to the following schedule:

Quarterly	-	1st Quarter by February 28th
	-	2nd Quarter by May 31st
	-	3rd Quarter by August 31st
	-	4th Quarter by November 30th
Semi - Annual	-	by February 28th AND
	-	by August 31st

Each section of this report form shall be filled out for those parameters listed in Section "G" of the company's Wastewater Discharge Permit. The analysis results must be reported in both concentration and mass. In addition, the calculated annual average load (lbs/day) for each pollutant shall also be reported.

The samples shall be collected at the monitoring points identified in the user permit. Identification of those points in this report should be as listed on Page two (2) of the user permit.

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PAGE 2

PART II of the report is the Compliance Monitoring section. The user is obligated to determine if the analysis results indicate compliance or non-compliance. All violations noted should be brought to the City's attention immediately upon noting and should also be reported in this section. The analysis result should be compared against all applicable federal, state and local standards and limitations. If no violations are noted then "NO VIOLATIONS" should appear on the report.

Pursuant to 40 CFR Part 403.12 g of the federal standards, all violations noted must be followed up by a sample recollect/analysis and the results submitted to the City within thirty (30) days of first becoming aware of the violation.

Pursuant to 40 CFR Part 403.12 g , all Periodic Self Monitoring Reports must be signed by a "responsible company official" certifying the following statement.

> 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 assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who mange 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.

Signed: _____ Date: 11/25/98

D. Tuburidy
Site Manager

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS mg / L		RESULTS LBS / DAY		ANNUAL AVERAGE mg / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	9/29/98		9/29/98			
24 HOUR FLOW IN MGD	0.02893		0.02893		0.03881	(MGD)
TOTAL SUSPENDED SOLIDS	18		4.34		8.250	2.24
SOLUBLE ORGANIC CARBON	8.4		2.03		30.250	9.02
TOTAL PHOSPHOROUS						
TOTAL PHENOL	0.011		0.0027		0.008	0.0025
OIL AND GREASE						
CADMIUM						
CHROMIUM						
COPPER						
LEAD						
MERCURY						
NICKEL						
ZINC						
ARSENIC						
BERYLLIUM						
BARIUM						
TOTAL CYANIDE						
pH (STANDARD UNITS)						
RESIDUAL CHLORINE						
SODIUM CHLORIDE						

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) MS#1 - 97th Street

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	9/29/98		9/29/98			
24 HOUR FLOW IN MGD	0.02893		0.02893			
BENZENE	< 4.4		0		< 4.4	0
CARBON TETRACHLORIDE	< 2.8		0		< 1.2	0
CHLORODIBROMOMETHANE	< 3.1		0		< 1.2	0
MONOCHLOROBENZENE	< 6		0		< 1	0
DICHLOROBROMOMETHANE	< 2.2		0		< 1.1	0
CHLOROFORM	< 1.6		0		< 1.5	0
1,1 - DICHLOROETHYLENE	< 2.8		0		< 1.2	0
1,2 - DICHLOROETHYLENE	< 5		0		< 1.7	0
BROMOFORM	< 4.7		0		< 1	0
DICHLOROPROPYLENES	< 5		0		< 1.4	0
ETHYLBENZENE	< 7.2		0		< 7.2	0
1,1,2,2 - TETRACHLOROETHANE	< 6.9		0		< 6.9	0
TETRACHLOROETHYLENE	< 4.1		0		< 0.8	0
TOLUENE	< 6		0		< 1	0
1,1,1 - TRICHLOROETHANE	< 3.8		0		< 1.2	0
1,1,2 - TRICHLOROETHANE	< 5		0		< 1.1	0
TRICHLOROETHYLENE	< 1.9		0		< 0.9	0
METHYLENE CHLORIDE	< 2.8		0		< 4.1	0
MONOCHLOROTOLUENES	< 10		0		< 1	0
MONOCHLOROBENZOTRIFLUROIDE	< 10		0		< 1	0
VINYL CHLORIDE	< 10		0		< 1.3	0
TETRAHYDRAFURAN						
XYLENE						

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) MS#1 - 97th Street

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	9/29/98		9/29/98			
24 HOUR FLOW IN MGD	0.02893		0.02893			
DIMETHYL PHTHALATE	< 1.6		0		< 3	0
BUTYL BENZYL PHTHALATE	< 2.5		0		< 3	0
DIBUTYL PHTHALATE	< 2.5		0		< 4	0
NITROSODIPHENYLAMINE	< 1.9		0		< 7	0
DICHLOROBENZENES	< 4.4		0		< 1	0
DICHLOROTOLUENE	< 10		0		< 1	0
ACENAPHTHENE	< 1.9		0		< 3	0
FLUORANTHENE	< 2.2		0		< 3	0
CHRYSENE	< 2.5		0		< 3	0
NAPHTHALENE	< 1.6		0		< 3	0
BENZO (a) ANTHRACENE	< 7.8		0		< 7.8	0
PYRENE	< 1.9		0		< 4	0
TRICHLOROBENZENE	< 10		0		< 1	0
TRICHLOROTOLUENE	< 10		0		< 3	0
HEXACHLOROBUTADIENE	< 0.9		0		< 1	0
TETRACHLOROBENZENE	< 10		0		< 1	0
HEXACHLOROCYCLOPENTADIEN	< 1		0		< 1	0
HEXACHLOROBENZENE	< 1.9		0		< 4	0
DICHLOROBENZOTRIFLUORIDE	< 10		0		< 1	0
DIOCTYL PHTHALATE	< 2.5		0		< 3	0
DIETHYL PHTHALATE	< 1.9		0		< 3	0

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	9/29/98		9/29/98			
24 HOUR FLOW IN MGD	0.02893		0.02893			
PHENANTHRENE						
MONOCHLOROPHENOL	< 3.3		0		< 3.3	0
DICHLOROPHENOL	< 2.7		0		< 3	0
MONOCHLOROCRESOL	< 3		0		< 10	0
TRICHLOROPHENOL	< 10		0		< 3	0
PENTACHLOROPHENOL	< 3.6		0		< 4	0
HEXACHLOROCYCLOHEXANES	< 0.66		0		< 0.66	0
PCB'S						
ENDOSULFAN I + ENDOSULFAN II + ENDOSULFAN SULFATE						
MIREX						
DECHLORANE PLUS						
HEPTACHLOR + HEPTACHLOR EPOXIDE						

PART II
COMPLIANCE MONITORING

INDUSTRY NAME: OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT FACILITY

PERMIT NO. 44

SECOND QUARTER 1998

VIOLATION PARAMETER	DATE	FLOW (MGD)	SAMPLE POINT LOCATION	ACTUAL DISCHARGE	PERMIT LIMIT	TYPE LIMIT VIOLATED **
NO VIOLATIONS						

NOTE:

* - ACTUAL DISCHARGE - LIST ACTUAL ANALYTICAL RESULTS AND APPROPRIATE UNITS

** - TYPE LIMIT VIOLATED - LIST TYPE:

A.A. = ANNUAL AVERAGE

D.M. = DAILY MAXIMUM

L.L. = LOCAL LIMITS (ORDINANCE 250.5.1)

OCCIDENTAL CHEMICAL CORPORATION

LOVE CANAL LEACHATE TREATMENT FACILITY

PERMIT NO. 44

FOURTH QUARTER 1998

DATE	FLOW(GPD)		
8/7/98	38,300		
8/26/98	67,200		
8/28/98	32,800		
SUBTOTAL	**138,300**		
9/3/98	30,200		
9/18/98	36,068		**MGD**
9/29/98	**28,932**	***Quarterly sampling***	0.028932
SUBTOTAL	**95,200**		
10/9/98	33,700		
10/22/98	37,800		
SUBTOTAL	**71,500**		

CHAIN OF CUSTODY RECORD

Glenn Springs Holdings
Occidental Chemical

SHIP TO (LABORATORY NAME):
RECRA ENVIRONMENTAL, INC
10 HAZELWOOD DRIVE
AMHERST, NY 14228 (716) 691-260

REFERENCE NUMBER:
LOVE CANAL
SEWER
QTLY. SAMPLING

SAMPLE RESULTS REPORTING TO:
Darrell Crockett Fax: (716) 283-2856 Phone: (716)283-0111
Mailing Address: LOVE CANAL 805 97th ST.
NIAGARA FALLS, NY 14304

FACILITY LOCATION:
Love Canal Niagara Falls

SAMPLER(S) (PRINT NAME)
D. Crockett / E. Krupp / L. Kosha

SIGNATURE

DATE	TIME	SAMPLE NO.	COMPOSITE	GRAB	OTHER	CONTAINER TYPE	CONTAINERS NO. of	MICRO VOA	MICRO ORG	PHENOL	TSS	SOC	VOLAT VOA	SEMI VOLATIL	PESTICIDES		PRESERVED	REMARKS
09/29/98	14:00	1 A,B,C,D,E,F,G,H -I998 INTERSTAGE		X		250 ml AG	8	8									THIO	ALL SAMPLES STORED
"	"	2 A,B,C -I998	X			1 Liter AG	3		3								-	AND SHIPPED IN COOLER(S) 4
"	"	3 A,B -I998	X			1 Liter AG	2			2							H2SO4/CUSO4	WITH ICE/ICE PACKS AND
"	"	4 -I998	X			1 Liter AG	1				1						-	KEPT AT 4c
"	"	5 -I998	X			1 Liter AG	1					1					H2SO4	
"	"	6 A,B,C,D,E,F,G,H -I998		X		40 ml/g	8						8				THIO	SEAL # 55385
"	"	7 A,B,C -I998	X			1 Liter AG	3							3			-	55384
"	"	8 -I998	X			1 Liter AG	1								1		-	56972
09/29/98	"	1 A,B,C,D,E,F,G,H -E998 EFFLUENT		X		250 ml AG	8	8									THIO	49992
"	"	2 A,B,C -E998	X			1 Liter AG	3		3								-	
"	"	3 A,B -E998	X			1 Liter AG	2			2							H2SO4/CUSO4	
"	"	4 -E998	X			1 Liter AG	1				1						-	
"	"	5 -E998	X			1 Liter AG	1					1					H2SO4	
"	"	6 A,B,C,D,E,F,G,H -E998		X		40 ml/g	8						8				THIO	
"	"	7 A,B,C -E998	X			1 Liter AG	3							3			-	
"	"	8 -E998	X			1 Liter AG	1								1		-	
"	"	TRIP BLANK			X	40 mL G												

TOTAL NUMBER OF CONTAINERS

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
[signature]	9/29/98	1510	[signature]		
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME

BOTTLE TYPES : G = GLASS ; AG = AMBER GLASS ; P = HPDE (PLASTIC) ; SAG = SILANIZED AMBER GLASS

METHOD OF SHIPMENT :

SAMPLE TEAM: D. Crockett / E. Krupp / L. Kosha

LCCUST.XLS BDD 4/4/98 2-10498

AB AB
BPS BPS

D 14/10 DKC

February 19, 1999

Mr. Albert C. Zaepfel
Industrial Monitoring Coordinator
NIAGARA FALLS WASTEWATER FACILITIES
P.O. Box 69
Niagara Falls, NY 14302-0069

RE: First Quarter 1999 Sampling
Occidental Chemical Corporation, Love Canal Leachate Treatment Facility
Permit No. 44

Dear Mr. Zaepfel:

Enclosed are the monitoring results and discharge report for the First Quarter of 1999.

When concentrations are reported as < or not detected at quantitation levels, calculated mass discharges are listed and included as zero in calculated averages. Similarly one or more < concentrations is averaged with other analyses as zero. When all data averaged are ND, the highest detection level is noted, i.e., <10, <5, <8 is shown as <10.

Should you have any questions, please contact me at 283-0111.

Sincerely yours,

Darrell Crockett

DC/sc.
Enclosures

xc: G.J. Rider, Jr., P.E.	NYSDEC, Albany
P. Buechi	NYSDEC, Region 9
D. Tuburidy / Central File	
J. Westendorf	
D. Crockett	Love Canal
B. Downie / Data Mgmt	Love Canal

H 97 DC0026

CITY OF NIAGARA FALLS{PRIVATE }
DEPARTMENT OF WASTEWATER FACILITIES
ENFORCEMENT DIVISION

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PERMIT NO. 44 QUARTER FIRST - 1999

INDUSTRY NAME OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT
FACILITY

Pursuant to federal pretreatment reporting requirements and the City Sewer Use Ordinance Chapter 250, Significant Industrial Users shall submit periodic self monitoring and compliance reports. Such reports shall be submitted using this form, according to the following schedule:

Quarterly	-	1st Quarter by February 28th
	-	2nd Quarter by May 31st
	-	3rd Quarter by August 31st
	-	4th Quarter by November 30th
Semi - Annual	-	by February 28th AND
	-	by August 31st

Each section of this report form shall be filled out for those parameters listed in Section "G" of the company's Wastewater Discharge Permit. The analysis results must be reported in both concentration and mass. In addition, the calculated annual average load (lbs/day) for each pollutant shall also be reported.

The samples shall be collected at the monitoring points identified in the user permit. Identification of those points in this report should be as listed on Page two (2) of the user permit.

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PAGE 2

PART II of the report is the Compliance Monitoring section. The user is obligated to determine if the analysis results indicate compliance or non-compliance. All violations noted should be brought to the City's attention immediately upon noting and should also be reported in this section. The analysis result should be compared against all applicable federal, state and local standards and limitations. If no violations are noted then "NO VIOLATIONS" should appear on the report.

Pursuant to 40 CFR Part 403.12 g of the federal standards, all violations noted must be followed up by a sample recollect/analysis and the results submitted to the City within thirty (30) days of first becoming aware of the violation.

Pursuant to 40 CFR Part 403.12 g , all Periodic Self Monitoring Reports must be signed by a "responsible company official" certifying the following statement.

> 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 assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who mange 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.

Signed: _____ Date: 2/19/99

D. Tuburidy
Site Manager

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS mg / L		RESULTS LBS / DAY		ANNUAL AVERAGE mg / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	12/14/98		12/14/98			
24 HOUR FLOW IN MGD	0.04403		0.04403		0.04131	(MGD)
TOTAL SUSPENDED SOLIDS	13		4.77		8.250	3.43
SOLUBLE ORGANIC CARBON	12.4		4.55		30.250	9.67
TOTAL PHOSPHOROUS						
TOTAL PHENOL	0.005		0.0018		0.008	0.0026
OIL AND GREASE						
CADMIUM						
CHROMIUM						
COPPER						
LEAD						
MERCURY						
NICKEL						
ZINC						
ARSENIC						
BERYLLIUM						
BARIUM						
TOTAL CYANIDE						
pH (STANDARD UNITS)						
RESIDUAL CHLORINE						
SODIUM CHLORIDE						

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) MS#1 - 97th Street

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	12/14/98		12/14/98			
24 HOUR FLOW IN MGD	0.04403		0.04403			
BENZENE	< 4.4		0		< 4.4	0
CARBON TETRACHLORIDE	< 2.8		0		< 1.2	0
CHLORODIBROMOMETHANE	< 3.1		0		< 1.2	0
MONOCHLOROBENZENE	< 6		0		< 1	0
DICHLOROBROMOMETHANE	< 2.2		0		< 1.1	0
CHLOROFORM	< 1.6		0		< 1.5	0
1,1 - DICHLOROETHYLENE	< 2.8		0		< 1.2	0
1,2 - DICHLOROETHYLENE	< 5		0		< 1.7	0
BROMOFORM	< 4.7		0		< 1	0
DICHLOROPROPYLENES	< 5		0		< 1.4	0
ETHYLBENZENE	< 7.2		0		< 7.2	0
1,1,2,2 - TETRACHLOROETHANE	< 6.9		0		< 6.9	0
TETRACHLOROETHYLENE	< 4.1		0		< 0.8	0
TOLUENE	< 6		0		< 1	0
1,1,1 - TRICHLOROETHANE	< 3.8		0		< 1.2	0
1,1,2 - TRICHLOROETHANE	< 5		0		< 1.1	0
TRICHLOROETHYLENE	< 1.9		0		< 0.9	0
METHYLENE CHLORIDE	< 2.8		0		< 4.1	0
MONOCHLOROTOLUENES	< 10		0		< 1	0
MONOCHLOROBENZOTRIFLUROIDE	< 10		0		< 1	0
VINYL CHLORIDE	< 10		0		< 1.3	0
TETRAHYDRAFURAN						
XYLENE						

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) MS#1 - 97th Street

	R E S ULTS ug / L		R E S ULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	12/14/98		12/14/98			
24 HOUR FLOW IN MGD	0.04403		0.04403			
DIMETHYL PHTHALATE	< 1.6		0		< 3	0
BUTYL BENZYL PHTHALATE	< 2.5		0		< 3	0
DIBUTYL PHTHALATE	< 2.5		0		< 4	0
NITROSODIPHENYLAMINE	< 1.9		0		< 7	0
DICHLOROBENZENES	< 4.4		0		< 1	0
DICHLOROTOLUENE	< 10		0		< 1	0
ACENAPHTHENE	< 1.9		0		< 3	0
FLUORANTHENE	< 2.2		0		< 3	0
CHRYSENE	< 2.5		0		< 3	0
NAPHTHALENE	< 1.6		0		< 3	0
BENZO (a) ANTHRACENE	< 7.8		0		< 7.8	0
PYRENE	< 1.9		0		< 4	0
TRICHLOROBENZENE	< 10		0		< 1	0
TRICHLOROTOLUENE	< 10		0		< 3	0
HEXACHLOROBUTADIENE	< 0.9		0		< 1	0
TETRACHLOROBENZENE	< 10		0		< 1	0
HEXACHLOROCYCLOPENTADIEN	< 1		0		< 1	0
HEXACHLOROBENZENE	< 1.9		0		< 4	0
DICHLOROBENZOTRIFLUORIDE	< 10		0		< 1	0
DIOCTYL PHTHALATE	< 2.5		0		< 3	0
DIETHYL PHTHALATE	< 1.9		0		< 3	0

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	12/14/98		12/14/98			
24 HOUR FLOW IN MGD	0.04403		0.04403			
PHENANTHRENE						
MONOCHLOROPHENOL	< 3.3		0		< 3.3	0
DICHLOROPHENOL	< 2.7		0		< 3	0
MONOCHLOROCRESOL	< 3		0		< 10	0
TRICHLOROPHENOL	< 10		0		< 3	0
PENTACHLOROPHENOL	< 3.6		0		< 4	0
HEXACHLOROCYCLOHEXANES	< 0.57		0.00021		< 0.308	9.21E-05
PCB'S						
ENDOSULFAN I + ENDOSULFAN II + ENDOSULFAN SULFATE						
MIREX						
DECHLORANE PLUS						
HEPTACHLOR + HEPTACHLOR EPOXIDE						

PART II
COMPLIANCE MONITORING

INDUSTRY NAME: OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT FACILITY

PERMIT NO. 44

FIRST QUARTER 1999

VIOLATION PARAMETER	DATE	FLOW (MGD)	SAMPLE POINT LOCATION	ACTUAL DISCHARGE	PERMIT LIMIT	TYPE LIMIT VIOLATED **
NO VIOLATIONS						

NOTE:

* - ACTUAL DISCHARGE - LIST ACTUAL ANALYTICAL RESULTS AND APPROPRIATE UNITS

** - TYPE LIMIT VIOLATED - LIST TYPE:

A.A. = ANNUAL AVERAGE

D.M. = DAILY MAXIMUM

L.L. = LOCAL LIMITS (ORDINANCE 250.5.1)

OCCIDENTAL CHEMICAL CORPORATION

LOVE CANAL LEACHATE TREATMENT FACILITY

PERMIT NO. 44

FIRST QUARTER 1999

DATE	FLOW(GPD)		MGD
11/4/98	21,600		
11/13/98	24,600		
SUBTOTAL	**46,200**		
12/14/98	**44,028**	***Quarterly sampling***	0.044028
12/23/98	29,772		
SUBTOTAL	**73,800**		
1/7/99	28,600		
1/15/99	15,400		
1/21/99	44,300		
1/25/99	96,600		
1/26/99	84,900		
1/27/99	36,600		
1/28/99	29,300		
SUBTOTAL	**335,700**		

CHAIN OF CUSTODY RECORD

Glenn Springs Holdings
Occidental Chemical

SHIP TO (LABORATORY NAME): RECRA ENVIRONMENTAL, INC
10 HAZELWOOD DRIVE
AMHERST, NY 14228 (716) 691-260

REFERENCE NUMBER: LOVE CANAL SEWER QTLY. SAMPLING

SAMPLE RESULTS REPORTING TO:
Darrell Crockett Fax: (716) 283-2856 Phone: (716)283-0111
Mailing Address: LOVE CANAL 805 97th ST. NIAGARA FALLS, NY 14304

FACILITY LOCATION: Love Canal Niagara Falls

SAMPLER(S) (PRINT NAME): D. Crockett / E. Krupp / L. Kosha

SIGNATURE:

DATE	TIME	SAMPLE NO.	COMPOSITE	GRAB	OTHER	CONTAINER TYPE	CONTAINERS NO. of	VOA's	PHENOL	SEMI VOLATIL	PESTICIDES	TSS	SOC				PRESERVED	REMARKS
12/14/98		1 A,B,C,D,E,F,G,H -I1298 INTERSTAGE		X		40 ml/g	8	8									HCL	ALL SAMPLES STORED
"		2 -I1298	X			1 Liter AG	1		1								H2SO4/	AND SHIPPED IN COOLER(S)
"		3 A,B -I1298	X			1 Liter AG	2			2							-	WITH ICE/ICE PACKS AND
"		4 A,B -I1298	X			1 Liter AG	2				2						-	KEPT AT 4c
"		5 -I1298	X			16oz. P	1					1					-	
"		6 -I1298	X			4oz. P	1						1				H2SO4/	
"																		COMBINE ALL 8 VOA's PER
"																		EACH SET TO MAKE IT
12/14/98		1 A,B,C,D,E,F,G,H -I1298 EFFLUENT		X		40 ml/g	8	8									HCL	A COMPSITE SAMPLE
"		2 -I1298	X			1 Liter AG	1		1								H2SO4	FOR EACH SET
"		3 A,B -I1298	X			1 Liter AG	2			2							-	
"		4 A,B -I1298	X			1 Liter AG	2				2						-	
"		5 -I1298	X			16oz. P	1					1					-	Times on Bottles
"		6 -I1298	X			4oz. P	1						1				H2SO4/	
"																		SEAL # 62013
"																		
"		TRIP BLANK			X	40 mL G												

TOTAL NUMBER OF CONTAINERS

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
	12/18/98	1250			
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME

BOTTLE TYPES : G = GLASS ; AG = AMBER GLASS ; P = HPDE (PLASTIC) ; SAG = SILANIZED AMBER GLASS

METHOD OF SHIPMENT :

SAMPLE TEAM: D. Crockett / E. Krupp / L. Kosha

LCCUST.XLS BDD 4/4/98 2-10498

D. Hug D

AB AB

BS

MILLER SPRINGS REMEDIATION MANAGEMENT INC.

805 – 97th Street, Niagara Falls, NY 14304

A Subsidiary of Occidental Petroleum Corporation

WNY Operation Office

Telephone (716) 283-0112
Fax (716) 283-2856

RECEIVED
MAY 19 1999
NYSDEC - REG. 9
FOIL
REL UNREL

RECEIVED
9 1999
NYSDEC - REG. 9
FOIL
REL UNREL

May 18, 1999

Mr. Albert C. Zaepfel
Industrial Monitoring Coordinator
NIAGARA FALLS WASTEWATER FACILITIES
P.O. Box 69
Niagara Falls, NY 14302-0069

RE: Second Quarter 1999 Sampling
Occidental Chemical Corporation, Love Canal Leachate Treatment Facility
Permit No. 44

Dear Mr. Zaepfel:

Enclosed are the monitoring results and discharge report for the Second Quarter of 1999.

When concentrations are reported as < or not detected at quantitation levels, calculated mass discharges are listed and included as zero in calculated averages. Similarly one or more < concentrations is averaged with other analyses as zero. When all data averaged are ND, the highest detection level is noted, i.e., <10, <5, <8 is shown as <10.

Should you have any questions, please contact me at 283-0111.

Sincerely yours,

Brian Downie

Brian D. Downie

CC:

G.J. Rider, Jr., P.E.	NYSDEC, Albany
P. Buechi	NYSDEC, Region 9
D. Tubridy	Love Canal
J. Westendorf	Oxy Tower
D. Crockett	Love Canal

BDD LCSW2q99cv.DOC

CITY OF NIAGARA FALLS{PRIVATE }
DEPARTMENT OF WASTEWATER FACILITIES
ENFORCEMENT DIVISION

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PERMIT NO. 44 QUARTER SECOND - 1999

INDUSTRY NAME OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT
FACILITY

Pursuant to federal pretreatment reporting requirements and the City Sewer Use Ordinance Chapter 250, Significant Industrial Users shall submit periodic self monitoring and compliance reports. Such reports shall be submitted using this form, according to the following schedule:

Quarterly	-	1st Quarter by February 28th
	-	2nd Quarter by May 31st
	-	3rd Quarter by August 31st
	-	4th Quarter by November 30th
Semi - Annual	-	by February 28th AND
	-	by August 31st

Each section of this report form shall be filled out for those parameters listed in Section "G" of the company's Wastewater Discharge Permit. The analysis results must be reported in both concentration and mass. In addition, the calculated annual average load (lbs/day) for each pollutant shall also be reported.

The samples shall be collected at the monitoring points identified in the user permit. Identification of those points in this report should be as listed on Page two (2) of the user permit.

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PAGE 2

PART II of the report is the Compliance Monitoring section. The user is obligated to determine if the analysis results indicate compliance or non-compliance. All violations noted should be brought to the City's attention immediately upon noting and should also be reported in this section. The analysis result should be compared against all applicable federal, state and local standards and limitations. If no violations are noted then "NO VIOLATIONS" should appear on the report.

Pursuant to 40 CFR Part 403.12 g of the federal standards, all violations noted must be followed up by a sample recollect/analysis and the results submitted to the City within thirty (30) days of first becoming aware of the violation.

Pursuant to 40 CFR Part 403.12 g , all Periodic Self Monitoring Reports must be signed by a "responsible company official" certifying the following statement.

> 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 assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who mange 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.

Signed: _____ Date: 5/18/99

D. Tuburidy
Site Manager

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS mg / L		RESULTS LBS / DAY		ANNUAL AVERAGE mg / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	3/22/99		3/22/99			
24 HOUR FLOW IN MGD	0.02490		0.02490		0.03334	(MGD)
TOTAL SUSPENDED SOLIDS	4		0.00		11.250	3.32
SOLUBLE ORGANIC CARBON	1.6		0.33		33.550	9.20
TOTAL PHOSPHOROUS						
TOTAL PHENOL	0.005		0.0000		0.005	0.0015
OIL AND GREASE						
CADMIUM						
CHROMIUM						
COPPER						
LEAD						
MERCURY						
NICKEL						
ZINC						
ARSENIC						
BERYLLIUM						
BARIUM						
TOTAL CYANIDE						
pH (STANDARD UNITS)						
RESIDUAL CHLORINE						
SODIUM CHLORIDE						

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) MS#1 - 97th Street

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	3/22/99		3/22/99			
24 HOUR FLOW IN MGD	0.0249		0.0249			
BENZENE	< 4.4		0		< 4.4	0
CARBON TETRACHLORIDE	< 2.8		0		< 2.8	0
CHLORODIBROMOMETHANE	< 3.1		0		< 3.1	0
MONOCHLOROBENZENE	< 6		0		< 6	0
DICHLOROBROMOMETHANE	< 2.2		0		< 2.2	0
CHLOROFORM	< 1.6		0		< 1.6	0
1,1 - DICHLOROETHYLENE	< 2.8		0		< 2.8	0
1,2 - DICHLOROETHYLENE	< 5		0		< 5	0
BROMOFORM	< 4.7		0		< 4.7	0
DICHLOROPROPYLENES	< 5		0		< 5	0
ETHYLBENZENE	< 7.2		0		< 7.2	0
1,1,2,2 - TETRACHLOROETHANE	< 6.9		0		< 6.9	0
TETRACHLOROETHYLENE	< 4.1		0		< 4.1	0
TOLUENE	< 6		0		< 6	0
1,1,1 - TRICHLOROETHANE	< 3.8		0		< 3.8	0
1,1,2 - TRICHLOROETHANE	< 5		0		< 5	0
TRICHLOROETHYLENE	< 1.9		0		< 1.9	0
METHYLENE CHLORIDE	< 2.8		0		< 2.8	0
MONOCHLOROTOLUENES	< 10		0		< 10	0
MONOCHLOROBENZOTRIFLUROIDE	< 10		0		< 10	0
VINYL CHLORIDE	< 10		0		< 10	0
TETRAHYDRAFURAN						
XYLENE						

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) MS#1 - 97th Street

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	3/22/99		3/22/99			
24 HOUR FLOW IN MGD	0.02490		0.02490			
DIMETHYL PHTHALATE	< 1.6		0		< 1.6	0
BUTYL BENZYL PHTHALATE	< 2.5		0		< 2.5	0
DIBUTYL PHTHALATE	< 2.5		0		< 2.5	0
NITROSODIPHENYLAMINE	< 1.9		0		< 1.9	0
DICHLOROBENZENES	< 4.4		0		< 4.4	0
DICHLOROTOLUENE	< 10		0		< 10	0
ACENAPHTHENE	< 1.9		0		< 1.9	0
FLUORANTHENE	< 2.2		0		< 2.2	0
CHRYSENE	< 2.5		0		< 2.5	0
NAPHTHALENE	< 1.6		0		< 1.6	0
BENZO (a) ANTHRACENE	< 7.8		0		< 7.8	0
PYRENE	< 1.9		0		< 1.9	0
TRICHLOROBENZENE	< 10		0		< 10	0
TRICHLOROTOLUENE	< 10		0		< 10	0
HEXACHLOROBUTADIENE	< 0.9		0		< 0.9	0
TETRACHLOROBENZENE	< 10		0		< 10	0
HEXACHLOROCYCLOPENTADIEN	< 1		0		< 1	0
HEXACHLOROBENZENE	< 1.9		0		< 1.9	0
DICHLOROBENZOTRIFLUORIDE	< 10		0		< 10	0
DIOCTYL PHTHALATE	< 2.5		0		< 2.5	0
DIETHYL PHTHALATE	< 1.9		0		< 1.9	0

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	3/22/99		3/22/99			
24 HOUR FLOW IN MGD	0.02490		0.02490			
PHENANTHRENE						
MONOCHLOROPHENOL	< 3.3		0		< 3.3	0
DICHLOROPHENOL	< 2.7		0		< 2.7	0
MONOCHLOROCRESOL	< 3		0		< 10	0
TRICHLOROPHENOL	< 10		0		< 10	0
PENTACHLOROPHENOL	< 3.6		0		< 3.6	0
HEXACHLOROCYCLOHEXANES	< 0.1		0		< 0.142	9.21E-05
PCB'S						
ENDOSULFAN I + ENDOSULFAN II + ENDOSULFAN SULFATE						
MIREX						
DECHLORANE PLUS						
HEPTACHLOR + HEPTACHLOR EPOXIDE						

PART II
COMPLIANCE MONITORING

INDUSTRY NAME: OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT FACILITY

PERMIT NO. 44

SECOND QUARTER 1999

VIOLATION PARAMETER	DATE	FLOW (MGD)	SAMPLE POINT LOCATION	ACTUAL DISCHARGE	PERMIT LIMIT	TYPE LIMIT VIOLATED **
NO VIOLATIONS						

NOTE:

* - ACTUAL DISCHARGE - LIST ACTUAL ANALYTICAL RESULTS AND APPROPRIATE UNITS

** - TYPE LIMIT VIOLATED - LIST TYPE:

A.A. = ANNUAL AVERAGE

D.M. = DAILY MAXIMUM

L.L. = LOCAL LIMITS (ORDINANCE 250.5.1)

OCCIDENTAL CHEMICAL CORPORATION

LOVE CANAL LEACHATE TREATMENT FACILITY

PERMIT NO. 44

SECOND QUARTER 1999

DATE	FLOW(GPD)		
2/2/99	46,500		
2/4/99	50,700		
2/5/99	25,500		
2/11/99	57,300		
2/17/99	40,200		
2/26/99	49,900		
SUBTOTAL	**270,100**		
3/8/99	70,200		
3/10/99	26,200		
3/11/99	15,100		
3/12/99	24,900		
3/16/99	18,300		
3/17/99	23,700		
3/18/99	53,700		
3/20/99	35,000		**MGD**
3/22/99	**62,900**	***Quarterly sampling***	0.0249
3/24/99	25,200		
3/25/99	15,800		
3/29/99	21,200		
3/31/99	17,100		
SUBTOTAL	**409,300**		
4/1/99	16,300		
4/5/99	22,800		
4/6/99	19,400		
4/7/99	27,000		
4/8/99	20,500		
4/12/99	33,700		
4/13/99	27,300		
4/14/99	33,900		
4/15/99	9,500		
4/16/99	29,100		
4/19/99	16,700		
4/20/99	12,700		
4/21/99	29,900		
4/22/99	17,400		
4/23/99	66,200		
4/26/99	68,700		
4/27/99	37,600		
4/28/99	23,000		
4/29/99	20,100		
4/30/99	23,400		
SUBTOTAL	**555,200**		

CHAIN OF CUSTODY RECORD

Miller Springs Holdings Occidental Chemical	SHIP TO (LABORATORY NAME): **RECRA ENVIRONMENTAL, INC** 10 HAZELWOOD DRIVE AMHERST, NY 14228 (716) 691-260	REFERENCE NUMBER: **LOVE CANAL** **SEWER** **QTLY. SAMPLING**	SAMPLE RESULTS REPORTING TO: **Darrell Crockett** Fax: (716) 283-2856 Phone: (716)283-0111 **Mailing Address:** LOVE CANAL 805 97th ST. NIAGARA FALLS, NY 14304
FACILITY LOCATION: **Love Canal Niagara Falls**	SAMPLER(S) (PRINT NAME) **TB/LK**	SIGNATURE Tony Blackman	

DATE	TIME	SAMPLE NO.	COMPOSITE	GRAB	OTHER	CONTAINER TYPE	CONTAINERS NO. of	VOA's	PHENOL	SEMI VOLATIL	PESTICIDES	TSS	SOC				PRESERVED	REMARKS
03/22/99	10:00-15:30	1 A,B,C,D,E,F,G,H -I399 INTERSTAGE		X		40 ml/g	8	8									HCL	ALL SAMPLES STORED
"	15:30	2 -I399	X			1 Liter AG	1		1								H2SO4	AND SHIPPED IN COOLER(S)
"	15:30	3 A,B -I399	X			1 Liter AG	2			2							-	WITH ICE/ICE PACKS AND
"	15:30	4 A,B -I399	X			1 Liter AG	2				2						-	KEPT AT 4c
"	15:30	5 -I399	X			16oz. P	1					1					-	
"	15:30	6 -I399	X			4oz. P	1						1				H2SO4	
"																		COMBINE ALL 8 VOA's PER
"																		EACH SET TO MAKE IT
03/22/99	10:00-15:30	1 A,B,C,D,E,F,G,H -I399 EFFLUENT		X		40 ml/g	8	8									HCL	A COMPSITE SAMPLE
"	15:30	2 -I399	X			1 Liter AG	1		1								H2SO4	FOR EACH SET
"	15:30	3 A,B -I399	X			1 Liter AG	2			2							-	
"	15:30	4 A,B -I399	X			1 Liter AG	2				2						-	
"	15:30	5 -I399	X			16oz. P	1					1					-	SEAL # 45456
"	15:30	6 -I399	X			4oz. P	1						1				H2SO4	
"																		
"																		
"		TRIP BLANK			X	40 mL G	1	1										
TOTAL NUMBER OF CONTAINERS							31											

RELINQUISHED BY: Tony Blackman	DATE 3/23/99	TIME	RECEIVED BY: Daniel R. Jute	DATE 3/23/99	TIME 0905
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME

BOTTLE TYPES : G = GLASS ; AG = AMBER GLASS ; P = HPDE (PLASTIC) ; SAG = SILANIZED AMBER GLASS

METHOD OF SHIPMENT : | SAMPLE TEAM: TB/LK

LCCUST.XLS BDD 4/4/98 2-10498

D. KING DKR

AB

BDS

MILLER SPRINGS REMEDIATION MANAGEMENT INC.

805 – 97th Street, Niagara Falls, NY 14304

A Subsidiary of Occidental Petroleum Corporation

WNY Operation Office

Telephone (716) 283-0112
Fax (716) 283-2856

RECEIVED
AUG 13 1999
NYSDEC - REG. 9
FOIL
X REL __ UNREL

August 12, 1999

Mr. Albert C. Zaepfel
Industrial Monitoring Coordinator
NIAGARA FALLS WASTEWATER FACILITIES
P.O. Box 69
Niagara Falls, NY 14302-0069

RE: Third Quarter 1999 Sampling
Occidental Chemical Corporation, Love Canal Leachate Treatment Facility
Permit No. 44

Dear Mr. Zaepfel:

Enclosed are the monitoring results and discharge report for the Third Quarter of 1999.

When concentrations are reported as < or not detected at quantitation levels, calculated mass discharges are listed and included as zero in calculated averages. Similarly one or more < concentrations is averaged with other analyses as zero. When all data averaged are ND, the highest detection level is noted, i.e., <10, <5, <8 is shown as <10.

Should you have any questions, please contact me at 283-0111.

Sincerely yours,

Brian Downie

Brian D. Downie

CC:

G.J. Rider, Jr., P.E.	NYSDEC, Albany
P. Buechi	NYSDEC, Region 9
D. Tubridy	Love Canal
J. Westendorf	Oxy Tower

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PAGE 2

PART II of the report is the Compliance Monitoring section. The user is obligated to determine if the analysis results indicate compliance or non-compliance. All violations noted should be brought to the City's attention immediately upon noting and should also be reported in this section. The analysis result should be compared against all applicable federal, state and local standards and limitations. If no violations are noted then "NO VIOLATIONS" should appear on the report.

Pursuant to 40 CFR Part 403.12 g of the federal standards, all violations noted must be followed up by a sample recollect/analysis and the results submitted to the City within thirty (30) days of first becoming aware of the violation.

Pursuant to 40 CFR Part 403.12 g , all Periodic Self Monitoring Reports must be signed by a "responsible company official" certifying the following statement.

> 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 assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who mange 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.

Signed: _____ Date: 8/12/99

D. Tuburidy
Site Manager

CITY OF NIAGARA FALLS{PRIVATE }
DEPARTMENT OF WASTEWATER FACILITIES
ENFORCEMENT DIVISION

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PERMIT NO. 44 QUARTER THIRD - 1999

INDUSTRY NAME OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT
FACILITY

Pursuant to federal pretreatment reporting requirements and the City Sewer Use Ordinance Chapter 250, Significant Industrial Users shall submit periodic self monitoring and compliance reports. Such reports shall be submitted using this form, according to the following schedule:

Quarterly	-	1st Quarter by February 28th
	-	2nd Quarter by May 31st
	-	3rd Quarter by August 31st
	-	4th Quarter by November 30th
Semi - Annual	-	by February 28th
		AND
	-	by August 31st

Each section of this report form shall be filled out for those parameters listed in Section "G" of the company's Wastewater Discharge Permit. The analysis results must be reported in both concentration and mass. In addition, the calculated annual average load (lbs/day) for each pollutant shall also be reported.

The samples shall be collected at the monitoring points identified in the user permit. Identification of those points in this report should be as listed on Page two (2) of the user permit.

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS mg / L		RESULTS LBS / DAY		ANNUAL AVERAGE mg / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	6/23/99		6/23/99			
24 HOUR FLOW IN MGD	0.01920		0.01920		0.02927	(MGD)
TOTAL SUSPENDED SOLIDS	18.5		2.96		12.375	3.02
SOLUBLE ORGANIC CARBON	3		0.48		6.000	1.85
TOTAL PHOSPHOROUS						
TOTAL PHENOL	0.005		0.0000		0.004	0.0011
OIL AND GREASE						
CADMIUM						
CHROMIUM						
COPPER						
LEAD						
MERCURY						
NICKEL						
ZINC						
ARSENIC						
BERYLLIUM						
BARIUM						
TOTAL CYANIDE						
pH (STANDARD UNITS)						
RESIDUAL CHLORINE						
SODIUM CHLORIDE						

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) MS#1 - 97th Street

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	6/23/99		6/23/99			
24 HOUR FLOW IN MGD	0.0192		0.0192			
BENZENE	< 4.4		0		< 4.4	0
CARBON TETRACHLORIDE	< 2.8		0		< 2.8	0
CHLORODIBROMOMETHANE	< 3.1		0		< 3.1	0
MONOCHLOROBENZENE	< 6		0		< 6	0
DICHLOROBROMOMETHANE	< 2.2		0		< 2.2	0
CHLOROFORM	< 1.6		0		< 1.6	0
1,1 - DICHLOROETHYLENE	< 2.8		0		< 2.8	0
1,2 - DICHLOROETHYLENE	< 5		0		< 5	0
BROMOFORM	< 4.7		0		< 4.7	0
DICHLOROPROPYLENES	< 5		0		< 5	0
ETHYLBENZENE	< 7.2		0		< 7.2	0
1,1,2,2 - TETRACHLOROETHANE	< 6.9		0		< 6.9	0
TETRACHLOROETHYLENE	< 4.1		0		< 4.1	0
TOLUENE	< 6		0		< 6	0
1,1,1 - TRICHLOROETHANE	< 3.8		0		< 3.8	0
1,1,2 - TRICHLOROETHANE	< 5		0		< 5	0
TRICHLOROETHYLENE	< 1.9		0		< 1.9	0
METHYLENE CHLORIDE	< 2.8		0		< 2.8	0
MONOCHLOROTOLUENES	< 10		0		< 10	0
MONOCHLOROBENZOTRIFLUROIDE	< 10		0		< 10	0
VINYL CHLORIDE	< 10		0		< 10	0
TETRAHYDRAFURAN						
XYLENE						

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) MS#1 - 97th Street

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	6/23/99		6/23/99			
24 HOUR FLOW IN MGD	0.01920		0.01920			
DIMETHYL PHTHALATE	< 1.6		0		< 1.6	0
BUTYL BENZYL PHTHALATE	< 2.5		0		< 2.5	0
DIBUTYL PHTHALATE	< 2.5		0		< 2.5	0
NITROSODIPHENYLAMINE	< 1.9		0		< 1.9	0
DICHLOROBENZENES	< 4.4		0		< 4.4	0
DICHLOROTOLUENE	< 10		0		< 10	0
ACENAPHTHENE	< 1.9		0		< 1.9	0
FLUORANTHENE	< 2.2		0		< 2.2	0
CHRYSENE	< 2.5		0		< 2.5	0
NAPHTHALENE	< 1.6		0		< 1.6	0
BENZO (a) ANTHRACENE	< 7.8		0		< 7.8	0
PYRENE	< 1.9		0		< 1.9	0
TRICHLOROBENZENE	< 10		0		< 10	0
TRICHLOROTOLUENE	< 10		0		< 10	0
HEXACHLOROBUTADIENE	< 0.9		0		< 0.9	0
TETRACHLOROBENZENE	< 10		0		< 10	0
HEXACHLOROCYCLOPENTADIEN	< 1		0		< 1	0
HEXACHLOROBENZENE	< 1.9		0		< 1.9	0
DICHLOROBENZOTRIFLUORIDE	< 10		0		< 10	0
DIOCTYL PHTHALATE	< 2.5		0		< 2.5	0
DIETHYL PHTHALATE	< 1.9		0		< 1.9	0

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	6/23/99		6/23/99			
24 HOUR FLOW IN MGD	0.01920		0.01920			
PHENANTHRENE						
MONOCHLOROPHENOL	< 3.3		0		< 3.3	0
DICHLOROPHENOL	< 2.7		0		< 2.7	0
MONOCHLOROCRESOL	< 3		0		< 3	0
TRICHLOROPHENOL	< 10		0		< 10	0
PENTACHLOROPHENOL	< 0.59		0.000094		< 0.147	0.000024
HEXACHLOROCYCLOHEXANES	< 0.1		0		< 0.142	0.000092
PCB'S						
ENDOSULFAN I + ENDOSULFAN II + ENDOSULFAN SULFATE						
MIREX						
DECHLORANE PLUS						
HEPTACHLOR + HEPTACHLOR EPOXIDE						

PART II
COMPLIANCE MONITORING

INDUSTRY NAME: OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT FACILITY

PERMIT NO. 44

THIRD QUARTER 1999

VIOLATION PARAMETER	DATE	FLOW (MGD)	SAMPLE POINT LOCATION	ACTUAL DISCHARGE	PERMIT LIMIT	TYPE LIMIT VIOLATED **
NO VIOLATIONS						

NOTE:

* - ACTUAL DISCHARGE - LIST ACTUAL ANALYTICAL RESULTS AND APPROPRIATE UNITS

** - TYPE LIMIT VIOLATED - LIST TYPE:

A.A. = ANNUAL AVERAGE

D.M. = DAILY MAXIMUM

L.L. = LOCAL LIMITS (ORDINANCE 250.5.1)

OCCIDENTAL CHEMICAL CORPORATION

LOVE CANAL LEACHATE TREATMENT FACILITY

PERMIT NO. 44

THIRD QUARTER 1999

DATE	FLOW(GPD)		
05/03/99	11000		
05/04/99	36900		
05/05/99	29200		
05/06/99	33800		
05/07/99	17000		
05/10/99	24100		
05/11/99	24100		
05/12/99	9500		
05/13/99	13500		
05/14/99	27000		
05/17/99	14100		
05/18/99	22100		
05/19/99	16300		
05/20/99	17000		
05/21/99	12300		
05/24/99	23000		
05/25/99	15700		
05/26/99	16000		
05/27/99	25200		
05/28/99	13700		
SUBTOTAL	**401,500**		
06/01/99	22,700		
06/02/99	19,100		
06/03/99	13,300		
06/04/99	20,700		
06/07/99	22,700		
06/08/99	20,000		
06/09/99	3,800		
06/10/99	17,900		**MGD**
06/11/99	12,100	***Quarterly sampling***	0.0192
06/14/99	17,400		
06/15/99	18,600		
06/16/99	9,200		
06/17/99	18,400		
06/18/99	12,900		
06/21/99	12,620		
06/22/99	14,180		
06/23/99	**19,200**		
06/24/99	13,400		
06/25/99	12,600		
06/28/99	6,200		
06/29/99	16,500		
SUBTOTAL	**323,500**		
07/01/99	42,500		
07/02/99	28,200		
07/06/99	20,900		
07/12/99	19,100		
07/14/99	15,000		
07/22/99	4,500		
07/26/99	13,400		
SUBTOTAL	**143,600**		

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	This is the interim sheet for															
2	the 3rd quarter. The data															
3	source is the CRA and the															
4	Q&E sheets This data is linked to pg 3 - pg 6.			4th Quart 98			1st Quart 99			2nd Quart 99			2nd Quart 99		Annual Average	
5	SAMPLE DATE			9/29/98			12/14/98			3/22/99			6/23/99			
6	FLOW (MGD)			0.02893			0.04403			0.02490			0.01920		0.02927	
7	N/A= Not applicable															
8	PAGE 2 Acid extractables			ppb	lb/D		ppb	lb/D		ppb	lb/D		ppb	lb/D	ppb	lb/D
9	Monochlorophenol		<	3.3	0	<	3.3	0	<	3.3	0	<	3.3	0	3.3	0.000
10	Dichlorophenol		<	2.7	0	<	2.7	0	<	2.7	0	<	2.7	0	2.7	0.000
11	Monochlorocresol		<	3	0	<	3	0	<	3	0	<	3.0	0	3	0.000
12	Trichlorophenol		<	10	0	<	10	0	<	10	0	<	10.0	0	10	0.000
13	Pentachlorophenol		<	3.6	0	<	3.6	0	<	3.6	0		0.59	0.000094	0.147	0.000
14																
15	PAGE 3 Base Neutrals														ppb	lb/D
16	Dimethyl Phthalate		<	1.6	0	<	1.6	0	<	1.6	0	<	1.6	0	1.6	0.000
17	Butyl Benzyl Phthalate		<	2.5	0	<	2.5	0	<	2.5	0	<	2.5	0	2.5	0.000
18	Dibutyl Phthalate		<	2.5	0	<	2.5	0	<	2.5	0	<	2.5	0	2.5	0.000
19	Nitrosodiphenylamine		<	1.9	0	<	1.9	0	<	1.9	0	<	1.9	0	1.9	0.000
20	Dichlorobenzenes		<	4.4	0	<	4.4	0	<	4.4	0	<	4.4	0	4.4	0.000
21	Dichlorotoluene		<	10	0	<	10	0	<	10	0	<	10.0	0	10	0.000
22	Acenapthalene		<	1.9	0	<	1.9	0	<	1.9	0	<	1.9	0	1.9	0.000
23	Fluoranthene		<	2.2	0	<	2.2	0	<	2.2	0	<	2.2	0	2.2	0.000
24	Chrysene		<	2.5	0	<	2.5	0	<	2.5	0	<	2.5	0	2.5	0.000
25	Napthalene		<	1.6	0	<	1.6	0	<	1.6	0	<	1.6	0	1.6	0.000
26	Benzo(a)anthracene		<	7.8	0	<	7.8	0	<	7.8	0	<	7.8	0	7.8	0.000
27	Pyrene		<	1.9	0	<	1.9	0	<	1.9	0	<	1.9	0	1.9	0.000
28	Trichlorobenzene		<	10	0	<	10	0	<	10	0	<	10.0	0	10	0.000
29	Trichlorotoluene		<	10	0	<	10	0	<	10	0	<	10.0	0	10	0.000
30	Hexachlorobutadiene		<	0.9	0	<	0.9	0	<	0.9	0	<	0.9	0	0.9	0.000
31	Tetrachlorobenzene		<	10	0	<	10	0	<	10	0	<	10.0	0	10	0.000
32	Hexachlorobenzene		<	1.9	0	<	1.9	0	<	1.9	0	<	1.9	0	1.9	0.000
33	Dichlorobenzotrifluoride		<	10	0	<	10	0	<	10	0	<	10.0	0	10	0.000
34	Phenanthrene															
35	Hexachlorocyclopentadiene		<	1	0	<	1	0	<	1	0	<	1.0	0	1	0.000
36	Dioctyl phthalate		<	2.5	0	<	2.5	0	<	2.5	0	<	2.5	0	2.5	0.000
37	Diethyl phthalate		<	1.9	0	<	1.9	0	<	1.9	0	<	1.9	0	1.9	0.000
38																
39	PAGE 4 Volatiles			ppb	lb/D		ppb	lb/D		ppb	lb/D		ppb	lb/D	ppb	lb/D
40	Benzene		<	4.4	0	<	4.4	0	<	4.4	0	<	4.4	0	4.4	0.000
41	Carbon Tetrachloride		<	2.8	0	<	2.8	0	<	2.8	0	<	2.8	0	2.8	0.000
42	Chlorodibromomethane		<	3.1	0	<	3.1	0	<	3.1	0	<	3.1	0	3.1	0.000
43	Monochlorobenzene		<	6	0	<	6	0	<	6	0	<	6.0	0	6	0.000
44	Dichlorobromomethane		<	2.2	0	<	2.2	0	<	2.2	0	<	2.2	0	2.2	0.000
45	Chloroform		<	1.6	0	<	1.6	0	<	1.6	0	<	1.6	0	1.6	0.000
46	1,1-Dichloroethene		<	2.8	0	<	2.8	0	<	2.8	0	<	2.8	0	2.8	0.000
47	1,2-Dichloroethene		<	5	0	<	5	0	<	5	0	<	5.0	0	5	0.000
48	Bromoform		<	4.7	0	<	4.7	0	<	4.7	0	<	4.7	0	4.7	0.000
49	Dichloropropylenes		<	5	0	<	5	0	<	5	0	<	5.0	0	5	0.000
50	Ethylbenzene		<	7.2	0	<	7.2	0	<	7.2	0	<	7.2	0	7.2	0.000
51	Tetrachloroethanes		<	6.9	0	<	6.9	0	<	6.9	0	<	6.9	0	6.9	0.000000
52	Tetrachloroethylene		<	4.1	0	<	4.1	0	<	4.1	0	<	4.1	0	4.1	0.000
53	Toluene		<	6	0	<	6	0	<	6	0	<	6.0	0	6	0.000
54	1,1,1-Trichloroethane		<	3.8	0	<	3.8	0	<	3.8	0	<	3.8	0	3.8	0.000
55	1,1,2-Trichloroethane		<	5	0	<	5	0	<	5	0	<	5.0	0	5	0.000
56	Trichloroethylene		<	1.9	0	<	1.9	0	<	1.9	0	<	1.9	0	1.9	0.000
57	Methylene Chloride		<	2.8	0	<	2.8	0	<	2.8	0	<	2.8	0	2.8	0.000
58	Monochlorotoluene		<	10	0	<	10	0	<	10	0	<	10.0	0	10	0.000
59	Monochlorobenzotrifluoride		<	10	0	<	10	0	<	10	0	<	10.0	0	10	0.000
60	Vinyl chloride		<	10	0	<	10	0	<	10	0	<	10.0	0	10	0.000
61																
62	PAGE 5 Conventionals			mg/l	lb/D		mg/l	lb/D		mg/l	lb/D		mg/l	lb/D	ppb	lb/D
63	TSS			18	4.34		13	4.77	<	4	0.00		18.5	2.96	12.375	3.0198
64	SOC			8.4	2.03		12.4	4.55		1.6	0.33		3.0	0.48	6.000	1.8482
65	Phenol, Total (mg)			0.011	0.00		0.005	0.00	<	0.005	0.00	<	0.005	0.00	0.004	0.0011
66																
67	PAGE 6 Pesticides			mg/l	lb/D		mg/l	lb/D		mg/l	lb/D		mg/l	lb/D	ppb	lb/D
68	Hexachlorocylohexane		<	0.66	0.00	#	0.57	0.00	<	0.1	0.00	<	0.1	0.00	0.142	0.000092
69																

CHAIN OF CUSTODY RECORD

Miller Springs Holdings
Occidental Chemical

SHIP TO (LABORATORY NAME):
STL ENVIRONMENTAL, INC.
10 HAZELWOOD DRIVE
AMHERST, NY 14228 (716) 691-260

REFERENCE NUMBER:
LOVE CANAL
SEWER
QTLY. SAMPLING

SAMPLE RESULTS REPORTING TO:
Darrell Crockett Fax: (716) 283-2856 Phone: (716)283-0111
Mailing Address: LOVE CANAL 805 97th ST.
NIAGARA FALLS, NY 14304

FACILITY LOCATION:
Love Canal Niagara Falls

SAMPLER(S) (PRINT NAME)
DC/LK

SIGNATURE L. Kosha

DATE	TIME	SAMPLE NO.	COMPOSITE	GRAB	OTHER	CONTAINER TYPE	CONTAINERS NO. of	VOA's	PHENOL	SEMI VOLATIL	PESTICIDES	TSS	SOC				PRESERVED	REMARKS
06/23/99	11:30AM	1 A,B,C,D,E,F,G,H -I699 INTERSTAGE		X		40 ml/g	8	8									HCL	ALL SAMPLES STORED
"	"	2 -I699	X			1 Liter AG	1		1								H2SO4	AND SHIPPED IN COOLER(S)
"	"	3 A,B -I699	X			1 Liter AG	2			2							-	WITH ICE/ICE PACKS AND
"	"	4 A,B -I699	X			1 Liter AG	2				2						-	KEPT AT 4c
"	"	5 -I699	X			16oz. P	1					1					-	
"	"	6 -I699	X			4oz. P	1						1			"	H2SO4	
"	"																	COMBINE ALL 8 VOA's PER
"	"																	EACH SET TO MAKE IT
06/23/99	11:30AM	1 A,B,C,D,E,F,G,H -I699 EFFLUENT		X		40 ml/g	8	8									HCL	A COMPSITE SAMPLE
"	"	2 -I699	X			1 Liter AG	1		1								H2SO4	FOR EACH SET
"	"	3 A,B -I699	X			1 Liter AG	2			2							-	
"	"	4 A,B -I699	X			1 Liter AG	2				2						-	
"	"	5 -I699	X			16oz. P	1					1					-	
"	"	6 -I699	X			4oz. P	1						1				H2SO4	
"	"																	CALS = 21,509
"																		
"		TRIP BLANK			X	40 mL G	1	1										
TOTAL NUMBER OF CONTAINERS							31											

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
L. Kosha	6/23/99	2:00PM	Jason Karels	6-23-99	1445
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME

BOTTLE TYPES : G = GLASS ; AG = AMBER GLASS ; P = HPDE (PLASTIC) ; SAG = SILANIZED AMBER GLASS

METHOD OF SHIPMENT :

SAMPLE TEAM: DC/LK

LCCUST.XLS BDD 4/4/98 2-10498

AB BPS AB O. Kane D

PP

MILLER SPRINGS REMEDIATION MANAGEMENT INC.

805 – 97th Street, Niagara Falls, NY 14304

A Subsidiary of Occidental Petroleum Corporation

WNY Operation Office

Telephone (716) 283-0112
Fax (716) 283-2856

RECEIVED
NOV 22 1999
NYSDEC - REGION 9
FOIL
X REL ___ UNREL

November 16, 1999

Mr. Albert C. Zaepfel
Industrial Monitoring Coordinator
NIAGARA FALLS WASTEWATER FACILITIES
P.O. Box 69
Niagara Falls, NY 14302-0069

RE: Fourth Quarter 1999 Sampling
Occidental Chemical Corporation, Love Canal Leachate Treatment Facility
Permit No. 44

Dear Mr. Zaepfel:

Enclosed are the monitoring results and discharge report for the Fourth Quarter of 1999.

When concentrations are reported as < or not detected at quantitation levels, calculated mass discharges are listed and included as zero in calculated averages. Similarly one or more < concentrations is averaged with other analyses as zero. When all data averaged are ND, the highest detection level is noted, i.e., <10, <5, <8 is shown as <10.

Should you have any questions, please contact me at 283-0111.

Sincerely yours,

Brian Downie

Brian D. Downie

CC:

G.J. Rider, Jr., P.E.	NYSDEC, Albany
~~P. Bucchi~~	NYSDEC, Region 9
D. Tubridy	Love Canal
J. Westendorf	Oxy Tower

BDD LC-SW-4Q-1999cv.DOC

CITY OF NIAGARA FALLS
DEPARTMENT OF WASTEWATER FACILITIES
ENFORCEMENT DIVISION

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PERMIT NO. 44 QUARTER FOURTH - 1999

INDUSTRY NAME OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT
FACILITY

Pursuant to federal pretreatment reporting requirements and the City Sewer Use Ordinance Chapter 250, Significant Industrial Users shall submit periodic self-monitoring and compliance reports. Such reports shall be submitted using this form, according to the following schedule:

Quarterly	-	1st Quarter by February 28th
	-	2nd Quarter by May 31st
	-	3rd Quarter by August 31st
	-	4th Quarter by November 30th
Semi - Annual	-	by February 28th
		AND
	-	by August 31st

Each section of this report form shall be filled out for those parameters listed in Section "G" of the company's Wastewater Discharge Permit. The analysis results must be reported in both concentration and mass. In addition, the calculated annual average load (lbs./day) for each pollutant shall also be reported.

The samples shall be collected at the monitoring points identified in the user permit. Identification of those points in this report should be as listed on Page two (2) of the user permit.

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PAGE 2

PART II of the report is the Compliance Monitoring section. The user is obligated to determine if the analysis results indicate compliance or non-compliance. All violations noted should be brought to the City's attention immediately upon noting and should also be reported in this section. The analysis result should be compared against all applicable federal, state and local standards and limitations. If no violations are noted then "NO VIOLATIONS" should appear on the report.

Pursuant to 40 CFR Part 403.12 g of the federal standards, all violations noted must be followed up by a sample recollect/analysis and the results submitted to the City within thirty (30) days of first becoming aware of the violation.

Pursuant to 40 CFR Part 403.12 g , all Periodic Self-Monitoring Reports must be signed by a "responsible company official" certifying the following statement.

> 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 assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who mange 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.

Signed: D. Tuburidy
Site Manager

Date: 11/16/99

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) MS#1 - 97th Street

	RESULTS mg / L		RESULTS LBS / DAY		ANNUAL AVERAGE mg / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	9/28/99		9/28/99			
24 HOUR FLOW IN MGD	0.02430		0.02430		0.02811	(MGD)
TOTAL SUSPENDED SOLIDS	18		3.65		12.500	2.85
SOLUBLE ORGANIC CARBON	3.8		0.77		5.000	1.53
TOTAL PHOSPHOROUS						
TOTAL PHENOL	0.01		0.0000		0.001	0.0005
OIL AND GREASE						
CADMIUM						
CHROMIUM						
COPPER						
LEAD						
MERCURY						
NICKEL						
ZINC						
ARSENIC						
BERYLLIUM						
BARIUM						
TOTAL CYANIDE						
pH (STANDARD UNITS)						
RESIDUAL CHLORINE						
SODIUM CHLORIDE						

Notes: J= Estimated; R = Rejected Result

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) MS#1 - 97th Street

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	9/28/99		9/28/99			
24 HOUR FLOW IN MGD	0.0243		0.0243			
BENZENE	< 4.4		0		< 4.4	0
CARBON TETRACHLORIDE	< 2.8		0		< 2.8	0
CHLORODIBROMOMETHANE	< 3.1		0		< 3.1	0
MONOCHLOROBENZENE	< 6		0		< 6	0
DICHLOROBROMOMETHANE	< 2.2		0		< 2.2	0
CHLOROFORM	< 1.6		0		< 1.6	0
1,1 - DICHLOROETHYLENE	< 2.8		0		< 2.8	0
1,2 - DICHLOROETHYLENE	< 5		0		< 5	0
BROMOFORM	< 4.7		0		< 4.7	0
DICHLOROPROPYLENES	< 5		0		< 5	0
ETHYLBENZENE	< 7.2		0		< 7.2	0
1,1,2,2 - TETRACHLOROETHANE	< 6.9		0		< 6.9	0
TETRACHLOROETHYLENE	< 4.1		0		< 4.1	0
TOLUENE	< 6		0		< 6	0
1,1,1 - TRICHLOROETHANE	< 3.8		0		< 3.8	0
1,1,2 - TRICHLOROETHANE	< 5		0		< 5	0
TRICHLOROETHYLENE	< 1.9		0		< 1.9	0
METHYLENE CHLORIDE	< 2.8		0		< 2.8	0
MONOCHLOROTOLUENES	< 10		0		< 10	0
MONOCHLOROBENZOTRIFLUROIDE	< 10		0		< 10	0
VINYL CHLORIDE	< 10		0		< 10	0
TETRAHYDRAFURAN						
XYLENE						

Notes: J= Estimated; R = Rejected Result

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) MS#1 - 97th Street

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	9/28/99		9/28/99			
24 HOUR FLOW IN MGD	0.02430		0.02430			
DIMETHYL PHTHALATE	< R		0		< 1.6	0
BUTYL BENZYL PHTHALATE	< 2.5		0		< 2.5	0
DIBUTYL PHTHALATE	< 2.5		0		< 2.5	0
NITROSODIPHENYLAMINE	< 1.9		0		< 1.9	0
DICHLOROBENZENES	< 4.4		0		< 4.4	0
DICHLOROTOLUENE	< 10		0		< 10	0
ACENAPHTHENE	< 1.9		0		< 1.9	0
FLUORANTHENE	< 2.2		0		< 2.2	0
CHRYSENE	< 2.5		0		< 2.5	0
NAPHTHALENE	< 1.6		0		< 1.6	0
BENZO (a) ANTHRACENE	< 7.8		0		< 7.8	0
PYRENE	< 1.9		0		< 1.9	0
TRICHLOROBENZENE	< 10		0		< 10	0
TRICHLOROTOLUENE	< 10		0		< 10	0
HEXACHLOROBUTADIENE	< 0.9		0		< 0.9	0
TETRACHLOROBENZENE	< 10		0		< 10	0
HEXACHLOROCYCLOPENTADIEN	< 1		0		< 1	0
HEXACHLOROBENZENE	< 1.9		0		< 1.9	0
DICHLOROBENZOTRIFLUORIDE	< 10		0		< 10	0
DIOCTYL PHTHALATE	< 2.5		0		< 2.5	0
DIETHYL PHTHALATE	< 1.9		0		< 1.9	0

Notes: J= Estimated; R = Rejected Result

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	9/28/99		9/28/99			
24 HOUR FLOW IN MGD	0.02430		0.02430			
PHENANTHRENE						
MONOCHLOROPHENOL	< R		0		< 3.3	0
DICHLOROPHENOL	< R		0		< 2.7	0
MONOCHLOROCRESOL	< R		0		< 3	0
TRICHLOROPHENOL	< R		0		< 10	0
PENTACHLOROPHENOL	< R		0.000000		< 0.295	0.000024
HEXACHLOROCYCLOHEXANES	< 0.1		0		< 0.57	0.000052
PCB'S						
ENDOSULFAN I + ENDOSULFAN II + ENDOSULFAN SULFATE						
MIREX						
DECHLORANE PLUS						
HEPTACHLOR + HEPTACHLOR EPOXIDE						

Notes: J= Estimated; R = Rejected Result

PART II
COMPLIANCE MONITORING

INDUSTRY NAME: OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT FACILITY

PERMIT NO. 44

FOURTH QUARTER 1999

VIOLATION PARAMETER	DATE	FLOW (MGD)	SAMPLE POINT LOCATION	ACTUAL DISCHARGE	PERMIT LIMIT	TYPE LIMIT VIOLATED **
NO VIOLATIONS						

NOTE:

* - ACTUAL DISCHARGE - LIST ACTUAL ANALYTICAL RESULTS AND APPROPRIATE UNITS

** - TYPE LIMIT VIOLATED - LIST TYPE:

A.A. = ANNUAL AVERAGE

D.M. = DAILY MAXIMUM

L.L. = LOCAL LIMITS (ORDINANCE 250.5.1)

OCCIDENTAL CHEMICAL CORPORATION

LOVE CANAL LEACHATE TREATMENT FACILITY

PERMIT NO. 44

FOURTH QUARTER 1999

DATE	FLOW(GPD)		
08/02/99	26400		
08/05/99	9100		
08/09/99	29400		
08/11/99	28200		
08/13/99	17200		
08/16/99	9000		
08/18/99	11700		
08/19/99	26600		
08/24/99	21600		
08/25/99	16600		
08/26/99	12200		
08/27/99	19100		
08/30/99	3500		
SUBTOTAL	**230,600**		
09/01/99	10100		
09/03/99	15800		
09/07/99	11900		
09/08/99	16500		
09/09/99	14300		
09/10/99	17500		
09/16/99	19500		
09/17/99	6700		**MGD**
09/20/99	7300	***Quarterly sampling***	0.0243
09/21/99	20300		
09/22/99	17100		
09/24/99	23200		
09/27/99	12000		
09/28/99	**24,300**		
09/29/99	15600		
SUBTOTAL	**232,100**		
10/01/99	12700		
10/05/99	3300		
10/06/99	4700		
10/08/99	13900		
10/11/99	13600		
10/19/99	10100		
10/20/99	37600		
10/21/99	35700		
10/22/99	31100		
10/25/99	23900		
10/26/99	19600		
10/27/99	20400		
10/28/99	29400		
10/29/99	27400		
SUBTOTAL	**283,400**		

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	This is the interim sheet for															
2	the 4TH. quarter. The data															
3	source is the CRA and the															
4	Q&E sheets. This data is linked to pg 3 - pg 6.			1st Quart 99			2nd Quart 99			3rd Quart 99			4th Quart 99		Annual Average	
5	SAMPLE DATE			12/14/98			3/22/99			6/23/99			9/28/99			
6	FLOW (MGD)			0.04403			0.02490			0.01920			0.02430		0.02811	
7	N/A= Not applicable															
8	PAGE 2 Acid extractables			ppb	lb/D		ppb	lb/D		ppb	lb/D		ppb	lb/D	ppb	lb/D
9	Monochlorophenol		<	3.3	0	<	3.3	0	<	3.3	0	<	R	0	3.3	0.000
10	Dichlorophenol		<	2.7	0	<	2.7	0	<	2.7	0	<	R	0	2.7	0.000
11	Monochlorocresol		<	3	0	<	3	0	<	3	0	<	R	0	3	0.000
12	Trichlorophenol		<	10	0	<	10	0	<	10	0	<	R	0	10	0.000
13	Pentachlorophenol		<	3.6	0	<	3.6	0		0.59	0.00009		R	0.000000	0.295	0.000
14																
15	PAGE 3 Base Neutrals														ppb	lb/D
16	Dimethyl Phthalate		<	1.6	0	<	1.6	0	<	1.6	0	<	R	0	1.6	0.000
17	Butyl Benzyl Phthalate		<	2.5	0	<	2.5	0	<	2.5	0	<	2.5	0	2.5	0.000
18	Dibutyl Phthalate		<	2.5	0	<	2.5	0	<	2.5	0	<	2.5	0	2.5	0.000
19	Nitrosodiphenylamine		<	1.9	0	<	1.9	0	<	1.9	0	<	1.9	0	1.9	0.000
20	Dichlorobenzenes		<	4.4	0	<	4.4	0	<	4.4	0	<	4.4	0	4.4	0.000
21	Dichlorotoluene		<	10	0	<	10	0	<	10	0	<	10.0	0	10	0.000
22	Acenapthalene		<	1.9	0	<	1.9	0	<	1.9	0	<	1.9	0	1.9	0.000
23	Fluoranthene		<	2.2	0	<	2.2	0	<	2.2	0	<	2.2	0	2.2	0.000
24	Chrysene		<	2.5	0	<	2.5	0	<	2.5	0	<	2.5	0	2.5	0.000
25	Napthalene		<	1.6	0	<	1.6	0	<	1.6	0	<	1.6	0	1.6	0.000
26	Benzo(a)anthracene		<	7.8	0	<	7.8	0	<	7.8	0	<	7.8	0	7.8	0.000
27	Pyrene		<	1.9	0	<	1.9	0	<	1.9	0	<	1.9	0	1.9	0.000
28	Trichlorobenzene		<	10	0	<	10	0	<	10	0	<	10.0	0	10	0.000
29	Trichlorotoluene		<	10	0	<	10	0	<	10	0	<	10.0	0	10	0.000
30	Hexachlorobutadiene		<	0.9	0	<	0.9	0	<	0.9	0	<	0.9	0	0.9	0.000
31	Tetrachlorobenzene		<	10	0	<	10	0	<	10	0	<	10.0	0	10	0.000
32	Hexachlorobenzene		<	1.9	0	<	1.9	0	<	1.9	0	<	1.9	0	1.9	0.000
33	Dichlorobenzotrifluoride		<	10	0	<	10	0	<	10	0	<	10.0	0	10	0.000
34	Phenanthrene															
35	Hexachlorocyclopentadiene		<	1	0	<	1	0	<	1	0	<	1.0	0	1	0.000
36	Dioctyl phthalate		<	2.5	0	<	2.5	0	<	2.5	0	<	2.5	0	2.5	0.000
37	Diethyl phthalate		<	1.9	0	<	1.9	0	<	1.9	0	<	1.9	0	1.9	0.000
38																
39	PAGE 4 Volatiles			ppb	lb/D		ppb	lb/D		ppb	lb/D		ppb	lb/D	ppb	lb/D
40	Benzene		<	4.4	0	<	4.4	0	<	4.4	0	<	4.4	0	4.4	0.000
41	Carbon Tetrachloride		<	2.8	0	<	2.8	0	<	2.8	0	<	2.8	0	2.8	0.000
42	Chlorodibromomethane		<	3.1	0	<	3.1	0	<	3.1	0	<	3.1	0	3.1	0.000
43	Monochlorobenzene		<	6	0	<	6	0	<	6	0	<	6.0	0	6	0.000
44	Dichlorobromomethane		<	2.2	0	<	2.2	0	<	2.2	0	<	2.2	0	2.2	0.000
45	Chloroform		<	1.6	0	<	1.6	0	<	1.6	0	<	1.6	0	1.6	0.000
46	1,1-Dichloroethene		<	2.8	0	<	2.8	0	<	2.8	0	<	2.8	0	2.8	0.000
47	1,2-Dichloroethene		<	5	0	<	5	0	<	5	0	<	5.0	0	5	0.000
48	Bromoform		<	4.7	0	<	4.7	0	<	4.7	0	<	4.7	0	4.7	0.000
49	Dichloropropylenes		<	5	0	<	5	0	<	5	0	<	5.0	0	5	0.000
50	Ethylbenzene		<	7.2	0	<	7.2	0	<	7.2	0	<	7.2	0	7.2	0.000
51	Tetrachloroethanes		<	6.9	0	<	6.9	0	<	6.9	0	<	6.9	0	6.9	0.000000
52	Tetrachloroethylene		<	4.1	0	<	4.1	0	<	4.1	0	<	4.1	0	4.1	0.000
53	Toluene		<	6	0	<	6	0	<	6	0	<	6.0	0	6	0.000
54	1,1,1-Trichloroethane		<	3.8	0	<	3.8	0	<	3.8	0	<	3.8	0	3.8	0.000
55	1,1,2-Trichloroethane		<	5	0	<	5	0	<	5	0	<	5.0	0	5	0.000
56	Trichloroethylene		<	1.9	0	<	1.9	0	<	1.9	0	<	1.9	0	1.9	0.000
57	Methylene Chloride		<	2.8	0	<	2.8	0	<	2.8	0	<	2.8	0	2.8	0.000
58	Monochlorotoluene		<	10	0	<	10	0	<	10	0	<	10.0	0	10	0.000
59	Monochlorobenzotrifluoride		<	10	0	<	10	0	<	10	0	<	10.0	0	10	0.000
60	Vinyl chloride		<	10	0	<	10	0	<	10	0	<	10.0	0	10	0.000
61																
62	PAGE 5 Conventionals			mg/l	lb/D		mg/l	lb/D		mg/l	lb/D		mg/l	lb/D	ppb	lb/D
63	TSS			13	4.77	<	4	0.00		18.5	2.96		18.0	3.65	12.500	2.8459
64	SOC			12.4	4.55		1.6	0.33		3	0.48		3.8	0.77	5.000	1.5340
65	Phenol, Total (mg)			0.005	0.00	<	0.005	0.00	<	0.005	0.00	<	0.01	0.00	0.001	0.0005
66																
67	PAGE 6 Pesticides			mg/l	lb/D		mg/l	lb/D		mg/l	lb/D		mg/l	lb/D	ppb	lb/D
68	Hexachlorocylohexane		<	0.57	0.00	<	0.1	0.00	<	0.1	0.00	<	0.1	0.00	0.57	0.000052
69																
70	Notes: J= Estimated; R = Rejected Result															

CHAIN OF CUSTODY RECORD

Miller Springs Holdings
Occidental Chemical

SHIP TO (LABORATORY NAME):
STL ENVIRONMENTAL, INC.
10 HAZELWOOD DRIVE
AMHERST, NY 14228 (716) 691-260

REFERENCE NUMBER:
LOVE CANAL
SEWER
QTLY. SAMPLING

SAMPLE RESULTS REPORTING TO:
Darrell Crockett Fax: (716) 283-2856 Phone: (716)283-0111
Mailing Address: LOVE CANAL 805 97th ST.
NIAGARA FALLS, NY 14304

FACILITY LOCATION:
Love Canal Niagara Falls

SAMPLER(S) (PRINT NAME)
TB/DC/LK

SIGNATURE
Tony Blackmon

DATE	TIME	SAMPLE NO.	COMPOSITE	GRAB	OTHER	CONTAINER TYPE	CONTAINERS NO. of	VOA's	PHENOL	SEMI VOLATIL	PESTICIDES	TSS	SOC				PRESERVED	REMARKS
09/28/99	12:00pm	1 A,B,C,D,E,F,G,H -I999 INTERSTAGE		X		40 ml/g	8	8									HCL	ALL SAMPLES STORED
"	"	2 -I999	X			1 Liter AG	1		1								H2SO4	AND SHIPPED IN COOLER(S)
"	"	3 A,B -I999	X			1 Liter AG	2			2							-	WITH ICE/ICE PACKS AND
"	"	4 A,B -I999	X			1 Liter AG	2				2						-	KEPT AT 4c
"	"	5 -I999	X			16oz. P	1					1					-	
"	"	6 -I999	X			4oz. P	1						1				H2SO4	
"																		COMBINE ALL 8 VOA's PER
"																		EACH SET TO MAKE IT
09/28/99	12:00pm	1 A,B,C,D,E,F,G,H -I999 EFFLUENT		X		40 ml/g	8	8									HCL	A COMPSITE SAMPLE
"	"	2 -I999	X			1 Liter AG	1		1								H2SO4	FOR EACH SET
"	"	3 A,B -I999	X			1 Liter AG	2			2							-	
"	"	4 A,B -I999	X			1 Liter AG	2				2						-	
"	"	5 -I999	X			16oz. P	1					1					-	
"	"	6 -I999	X			4oz. P	1						1				H2SO4	
"																		
"																		
"		TRIP BLANK			X	40 mL G	1	1										
		Effluent Total - 24,683																
		TOTAL NUMBER OF CONTAINERS					31											

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
Tony Blackmon	9/28/99	12:30pm	Jason Kaels	9/28/99	1250
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME

BOTTLE TYPES : G = GLASS ; AG = AMBER GLASS ; P = HPDE (PLASTIC) ; SAG = SILANIZED AMBER GLASS

METHOD OF SHIPMENT : SAMPLE TEAM: TB/DC/LK

LCCUST.XLS BDD 4/4/98 2-10498

AB D. KING DEX
BRS AB
DRS

MILLER SPRINGS REMEDIATION MANAGEMENT INC.

805 – 97th Street, Niagara Falls, NY 14304

A Subsidiary of Occidental Petroleum Corporation

WNY Operation Office

Telephone (716) 283-0112
Fax (716) 283-2856

February 18, 2000

Mr. Albert C. Zaepfel
Industrial Monitoring Coordinator
NIAGARA FALLS WASTEWATER FACILITIES
P.O. Box 69
Niagara Falls, NY 14302-0069

RE: First Quarter 2000 Sampling
Occidental Chemical Corporation, Love Canal Leachate Treatment Facility
Permit No. 44

Dear Mr. Zaepfel:

Enclosed are the monitoring results and discharge report for the First Quarter of 2000.

When concentrations are reported as < or not detected at quantitation levels, calculated mass discharges are listed and included as zero in calculated averages. Similarly one or more < concentrations is averaged with other analyses as zero. When all data averaged are ND, the highest detection level is noted, i.e., <10, <5, <8 is shown as <10.

Should you have any questions, please contact me at 283-0111.

Sincerely yours,

Brian Downie

Brian D. Downie

CC:

G.J. Rider, Jr., P.E.	NYSDEC, Albany
P. Buechi	NYSDEC, Region 9
D. Tubridy	MSRM
J. Westendorf	Oxy Tower
D. Crockett	MSRM
S. Parkhill	MSRM

BDD LC-SW-TQ-2000cv.DOC

CITY OF NIAGARA FALLS
DEPARTMENT OF WASTEWATER FACILITIES
ENFORCEMENT DIVISION

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PERMIT NO. 44 QUARTER FIRST - 2000

INDUSTRY NAME OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT
FACILITY

Pursuant to federal pretreatment reporting requirements and the City Sewer Use Ordinance Chapter 250, Significant Industrial Users shall submit periodic self-monitoring and compliance reports. Such reports shall be submitted using this form, according to the following schedule:

Quarterly	-	1st Quarter by February 28th
	-	2nd Quarter by May 31st
	-	3rd Quarter by August 31st
	-	4th Quarter by November 30th
Semi - Annual	-	by February 28th AND
	-	by August 31st

Each section of this report form shall be filled out for those parameters listed in Section "G" of the company's Wastewater Discharge Permit. The analysis results must be reported in both concentration and mass. In addition, the calculated annual average load (lbs./day) for each pollutant shall also be reported.

The samples shall be collected at the monitoring points identified in the user permit. Identification of those points in this report should be as listed on Page two (2) of the user permit.

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PAGE 2

PART II of the report is the Compliance Monitoring section. The user is obligated to determine if the analysis results indicate compliance or non-compliance. All violations noted should be brought to the City's attention immediately upon noting and should also be reported in this section. The analysis result should be compared against all applicable federal, state and local standards and limitations. If no violations are noted then "NO VIOLATIONS" should appear on the report.

Pursuant to 40 CFR Part 403.12 g of the federal standards, all violations noted must be followed up by a sample recollect/analysis and the results submitted to the City within thirty (30) days of first becoming aware of the violation.

Pursuant to 40 CFR Part 403.12 g , all Periodic Self-Monitoring Reports must be signed by a "responsible company official" certifying the following statement.

> 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 assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who mange 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.

Signed: _____ Date: 2/22/00

D. Tuburidy
Site Manager

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS mg / L		RESULTS LBS / DAY		ANNUAL AVERAG mg / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	12/13/99		12/13/99			
24 HOUR FLOW IN MGD	0.05320		0.05320		0.03040	(MGD)
TOTAL SUSPENDED SOLIDS	4.5		2.00		14.750	2.15
SOLUBLE ORGANIC CARBON	4		1.77		2.850	0.84
TOTAL PHOSPHOROUS						
TOTAL PHENOL	0.022		0.0098		0.007	0.0024
OIL AND GREASE						
CADMIUM						
CHROMIUM						
COPPER						
LEAD						
MERCURY						
NICKEL						
ZINC						
ARSENIC						
BERYLLIUM						
BARIUM						
TOTAL CYANIDE						
pH (STANDARD UNITS)						
RESIDUAL CHLORINE						
SODIUM CHLORIDE						

Notes: J= Estimated; R = Rejected Result

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) MS#1 - 97th Street

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	12/13/99		12/13/99			
24 HOUR FLOW IN MGD	0.0532		0.0532			
BENZENE	< 1.3		0.00058		< 0.325	0.000144
CARBON TETRACHLORIDE	< 2.8		0		< 2.8	0
CHLORODIBROMOMETHANE	< 3.1		0		< 3.1	0
MONOCHLOROBENZENE	< 1.5		0.00067		< 0.375	0.000166
DICHLOROBROMOMETHANE	< 2.2		0		< 2.2	0
CHLOROFORM	< 1.6		0		< 1.6	0
1,1 - DICHLOROETHYLENE	< 2.8		0		< 2.8	0
1,2 - DICHLOROETHYLENE	< 5		0		< 5	0
BROMOFORM	< 4.7		0		< 4.7	0
DICHLOROPROPYLENES	< 5		0		< 5	0
ETHYLBENZENE	< 7.2		0		< 7.2	0
1,1,2,2 - TETRACHLOROETHANE	< 6.9		0		< 6.9	0
TETRACHLOROETHYLENE	< 4.1		0		< 4.1	0
TOLUENE	< 5.2		0.00231		< 1.300	0.000577
1,1,1 - TRICHLOROETHANE	< 3.8		0		< 3.8	0
1,1,2 - TRICHLOROETHANE	< 5		0		< 5	0
TRICHLOROETHYLENE	< 1.9		0		< 1.9	0
METHYLENE CHLORIDE	< 2.8		0		< 2.8	0
MONOCHLOROTOLUENES	< 10		0		< 10	0
MONOCHLOROBENZOTRIFLUROIDE	< 10		0		< 10	0
VINYL CHLORIDE	< 10		0		< 10	0
TETRAHYDRAFURAN						
XYLENE						

Notes: J= Estimated; R = Rejected Result

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) MS#1 - 97th Street

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	12/13/99		12/13/99			
24 HOUR FLOW IN MGD	0.05320		0.05320			
DIMETHYL PHTHALATE	< 1.6		0		< 1.6	0
BUTYL BENZYL PHTHALATE	< 2.5		0		< 2.5	0
DIBUTYL PHTHALATE	< 2.5		0		< 2.5	0
NITROSODIPHENYLAMINE	< 1.9		0		< 1.9	0
DICHLOROBENZENES	< 4.4		0		< 4.4	0
DICHLOROTOLUENE	< 10		0		< 10	0
ACENAPHTHENE	< 1.9		0		< 1.9	0
FLUORANTHENE	< 2.2		0		< 2.2	0
CHRYSENE	< 2.5		0		< 2.5	0
NAPHTHALENE	< 1.6		0		< 1.6	0
BENZO (a) ANTHRACENE	< 7.8		0		< 7.8	0
PYRENE	< 1.9		0		< 1.9	0
TRICHLOROBENZENE	< 10		0		< 10	0
TRICHLOROTOLUENE	< 10		0		< 10	0
HEXACHLOROBUTADIENE	< 0.9		0		< 0.9	0
TETRACHLOROBENZENE	< 10		0		< 10	0
HEXACHLOROCYCLOPENTADIE	< 1		0		< 1	0
HEXACHLOROBENZENE	< 1.9		0		< 1.9	0
DICHLOROBENZOTRIFLUORIDE	< 10		0		< 10	0
DIOCTYL PHTHALATE	< 2.5		0		< 2.5	0
DIETHYL PHTHALATE	< 1.9		0		< 1.9	0

Notes: J= Estimated; R = Rejected Result

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	12/13/99		12/13/99			
24 HOUR FLOW IN MGD	0.05320		0.05320			
PHENANTHRENE						
MONOCHLOROPHENOL	< 3.3		0		< 3.3	0
DICHLOROPHENOL	< 2.7		0		< 2.7	0
MONOCHLOROCRESOL	< 3		0		< 3	0
TRICHLOROPHENOL	< 10		0		< 10	0
PENTACHLOROPHENOL	< 3.6		0.000000		< 0.147	0.000024
HEXACHLOROCYCLOHEXANE	< 0.1		0		< 0.1	0.000000
PCB'S						
ENDOSULFAN I + ENDOSULFAN II + ENDOSULFAN SULFATE						
MIREX						
DECHLORANE PLUS						
HEPTACHLOR + HEPTACHLOR EPOXIDE						

Notes: J= Estimated; R = Rejected Result

PART II
COMPLIANCE MONITORING

INDUSTRY NAME: OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT FACILITY

PERMIT NO. 44

FIRST QUARTER 2000

VIOLATION PARAMETER	DATE	FLOW (MGD)	SAMPLE POINT LOCATION	ACTUAL DISCHARGE	PERMIT LIMIT	TYPE LIMIT VIOLATED **
NO VIOLATIONS						

NOTE:

* - ACTUAL DISCHARGE - LIST ACTUAL ANALYTICAL RESULTS AND APPROPRIATE UNITS

** - TYPE LIMIT VIOLATED - LIST TYPE:

A.A. = ANNUAL AVERAGE

D.M. = DAILY MAXIMUM

L.L. = LOCAL LIMITS (ORDINANCE 250.5.1)

OCCIDENTAL CHEMICAL CORPORATION

LOVE CANAL LEACHATE TREATMENT FACILITY

PERMIT NO. 44

FIRST QUARTER 2000

DATE	FLOW(GPD)		
11/03/99	42,100		
11/04/99	54,600		
11/05/99	38,300		
11/08/99	36,300		
11/09/99	40,700		
11/10/99	29,900		
11/11/99	32,000		
11/12/99	38,300		
11/15/99	35,000		
11/16/99	8,500		
11/18/99	20,100		
11/24/99	35,200		
11/29/99	33,700		
11/30/99	47,100		
SUBTOTA	**491,800**		
12/02/99	50,100		
12/03/99	25,100		
12/06/99	32,100		
12/07/99	15,100		
12/08/99	32,500		
12/09/99	30,900		
12/10/99	27,000		
12/13/99	**53,200**		**MGD**
12/14/99	15,900	***Quarterly sampling***	0.0532
12/15/99	52,000		
12/16/99	63,000		
12/17/99	58,800		
12/20/99	67,900		
12/21/99	36,900		
12/22/99	27,000		
12/27/99	49,800		
12/28/99	34,300		
12/29/99	15,400		
12/30/99	8,500		
SUBTOTA	**695,500**		
01/03/00	35,000		
01/04/00	54,800		
01/05/00	42,400		
01/06/00	9,900		
01/07/00	23,100		
01/10/00	47,700		
01/11/00	36,600		
01/12/00	26,200		
01/13/00	37,200		
01/14/00	6,500		
01/17/00	32,700		
01/18/00	22,100		
01/19/00	10,500		
01/20/00	12,200		
01/21/00	10,400		
01/24/00	25,500		
01/25/00	14,500		
01/26/00	13,200		
01/27/00	1,300		
01/28/00	11,900		
01/31/00	22,100		
SUBTOTA	**495,800**		

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	This is the interim sheet for															
2	the 1st. quarter. The data															
3	source is the CRA and the															
4	Q&E sheets. This data is linked to pg 3 - pg 6.			2nd Quart 99			3rd Quart 99			4th Quart 99			1st Quarter 2000		Annual Average	
5	SAMPLE DATE			3/22/99			6/23/99			9/28/99			12/13/99			
6	FLOW (MGD)			0.02490			0.01920			0.02430			0.05320		0.03040	
7	N/A= Not applicable															
8	PAGE 2 Acid extractables			ppb	lb/D		ppb	lb/D		ppb	lb/D		ppb	lb/D	ppb	lb/D
9	Monochlorophenol		<	3.3	0	<	3.3	0	<	R	0	<	3.3	0	3.3	0.000
10	Dichlorophenol		<	2.7	0	<	2.7	0	<	R	0	<	2.7	0	2.7	0.000
11	Monochlorocresol		<	3	0	<	3	0	<	R	0	<	3.0	0	3	0.000
12	Trichlorophenol		<	10	0	<	10	0	<	R	0	<	10.0	0	10	0.000
13	Pentachlorophenol		<	3.6	0		0.59	9.4E-05		R	0.00000	<	3.6	0	0.147	0.000
14																
15	PAGE 3 Base Neutrals														ppb	lb/D
16	Dimethyl Phthalate		<	1.6	0	<	1.6	0	<	R	0	<	1.6	0	1.6	0.000
17	Butyl Benzyl Phthalate		<	2.5	0	<	2.5	0	<	2.5	0	<	2.5	0	2.5	0.000
18	Dibutyl Phthalate		<	2.5	0	<	2.5	0	<	2.5	0	<	2.5	0	2.5	0.000
19	Nitrosodiphenylamine		<	1.9	0	<	1.9	0	<	1.9	0	<	1.9	0	1.9	0.000
20	Dichlorobenzenes		<	4.4	0	<	4.4	0	<	4.4	0	<	4.4	0	4.4	0.000
21	Dichlorotoluene		<	10	0	<	10	0	<	10	0	<	10.0	0	10	0.000
22	Acenapthalene		<	1.9	0	<	1.9	0	<	1.9	0	<	1.9	0	1.9	0.000
23	Fluoranthene		<	2.2	0	<	2.2	0	<	2.2	0	<	2.2	0	2.2	0.000
24	Chrysene		<	2.5	0	<	2.5	0	<	2.5	0	<	2.5	0	2.5	0.000
25	Napthalene		<	1.6	0	<	1.6	0	<	1.6	0	<	1.6	0	1.6	0.000
26	Benzo(a)anthracene		<	7.8	0	<	7.8	0	<	7.8	0	<	7.8	0	7.8	0.000
27	Pyrene		<	1.9	0	<	1.9	0	<	1.9	0	<	1.9	0	1.9	0.000
28	Trichlorobenzene		<	10	0	<	10	0	<	10	0	<	10.0	0	10	0.000
29	Trichlorotoluene		<	10	0	<	10	0	<	10	0	<	10.0	0	10	0.000
30	Hexachlorobutadiene		<	0.9	0	<	0.9	0	<	0.9	0	<	0.9	0	0.9	0.000
31	Tetrachlorobenzene		<	10	0	<	10	0	<	10	0	<	10.0	0	10	0.000
32	Hexachlorobenzene		<	1.9	0	<	1.9	0	<	1.9	0	<	1.9	0	1.9	0.000
33	Dichlorobenzotrifluoride		<	10	0	<	10	0	<	10	0	<	10.0	0	10	0.000
34	Phenanthrene															
35	Hexachlorocyclopentadiene		<	1	0	<	1	0	<	1	0	<	1.0	0	1	0.000
36	Dioctyl phthalate		<	2.5	0	<	2.5	0	<	2.5	0	<	2.5	0	2.5	0.000
37	Diethyl phthalate		<	1.9	0	<	1.9	0	<	1.9	0	<	1.9	0	1.9	0.000
38																
39	PAGE 4 Volatiles			ppb	lb/D		ppb	lb/D		ppb	lb/D		ppb	lb/D	ppb	lb/D
40	Benzene		<	4.4	0	<	4.4	0	<	4.4	0		1.3	0.0005768	0.325	0.000
41	Carbon Tetrachloride		<	2.8	0	<	2.8	0	<	2.8	0	<	2.8	0	2.8	0.000
42	Chlorodibromomethane		<	3.1	0	<	3.1	0	<	3.1	0	<	3.1	0	3.1	0.000
43	Monochlorobenzene		<	6	0	<	6	0	<	6	0		1.5	0.0006655	0.375	0.000
44	Dichlorobromomethane		<	2.2	0	<	2.2	0	<	2.2	0	<	2.2	0	2.2	0.000
45	Chloroform		<	1.6	0	<	1.6	0	<	1.6	0	<	1.6	0	1.6	0.000
46	1,1-Dichloroethene		<	2.8	0	<	2.8	0	<	2.8	0	<	2.8	0	2.8	0.000
47	1,2-Dichloroethene		<	5	0	<	5	0	<	5	0	<	5.0	0	5	0.000
48	Bromoform		<	4.7	0	<	4.7	0	<	4.7	0	<	4.7	0	4.7	0.000
49	Dichloropropylenes		<	5	0	<	5	0	<	5	0	<	5.0	0	5	0.000
50	Ethylbenzene		<	7.2	0	<	7.2	0	<	7.2	0	<	7.2	0	7.2	0.000
51	Tetrachloroethanes		<	6.9	0	<	6.9	0	<	6.9	0	<	6.9	0	6.9	0.000000
52	Tetrachloroethylene		<	4.1	0	<	4.1	0	<	4.1	0	<	4.1	0	4.1	0.000
53	Toluene		<	6	0	<	6	0	<	6	0		5.2	0.0023072	1.300	0.001
54	1,1,1-Trichloroethane		<	3.8	0	<	3.8	0	<	3.8	0	<	3.8	0	3.8	0.000
55	1,1,2-Trichloroethane		<	5	0	<	5	0	<	5	0	<	5.0	0	5	0.000
56	Trichloroethylene		<	1.9	0	<	1.9	0	<	1.9	0	<	1.9	0	1.9	0.000
57	Methylene Chloride		<	2.8	0	<	2.8	0	<	2.8	0	<	2.8	0	2.8	0.000
58	Monochlorotoluene		<	10	0	<	10	0	<	10	0	<	10.0	0	10	0.000
59	Monochlorobenzotrifluoride		<	10	0	<	10	0	<	10	0	<	10.0	0	10	0.000
60	Vinyl chloride		<	10	0	<	10	0	<	10	0	<	10.0	0	10	0.000
61																
62	PAGE 5 Conventionals			mg/l	lb/D		mg/l	lb/D		mg/l	lb/D		mg/l	lb/D	ppb	lb/D
63	TSS			4	0.00		18.5	2.96		18	3.65		4.5	2.00	14.750	2.1517
64	SOC			1.6	0.33		3	0.48		3.8	0.77		4.0	1.77	2.850	0.8394
65	Phenol, Total (mg)			0.005	0.00	<	0.005	0.00	<	0.01	0.00		0.022	0.01	0.007	0.0024
66																
67	PAGE 6 Pesticides			mg/l	lb/D		mg/l	lb/D		mg/l	lb/D		mg/l	lb/D	ppb	lb/D
68	Hexachlorocylohexane		<	0.1	0.00	<	0.1	0.00	<	0.1	0.00	<	0.1	0.00	0.1	0.000000
69																
70	Notes: J= Estimated; R = Rejected Result															

CHAIN OF CUSTOD. .ECORD

Miller Springs Holdings Occidental Chemical	SHIP TO (LABORATORY NAME) **STL ENVIRONMENTAL, IN** 10 HAZELWOOD DRIVE AMHERST, NY 14228 (716) 6	REFERENCE NUMBER: **LOVE CANAL** **QTY SEWER SAMPLE**
FACILITY LOCATION: **Love Canal Niagara Falls**	SAMPLER(S) (PRINT NAME) **TB/DC/LK**	SIGNATURE Tracy Blackman

SAMPLE RESULTS REPORTING TO:

Darrell Crockett Fax: (716) 283-2856 Phone: (716)283-0111

Mailing Address: LOVE CANAL 805 97th ST.
NIAGARA FALLS, NY 14304

DATE	TIME	SAMPLE NO.	COMPOSITE	GRAB	OTHER	CONTAINER TYPE	CONTAINERS NO. of	VOA's	PHENOL	SEMI VOLATIL	PESTICIDES	TSS	SOC				PRESERVED	REMARKS
12/13/99	4:00pm	1 A,B,C,D,E,F,G,H -I1299 INTERSTAGE		X		40 ml/g	8	8									HCL	ALL SAMPLES STORED
"	"	2 -I1299	X			1 Liter AG	1		1								H2SO4	AND SHIPPED IN COOLER(S)
"	"	3 A,B -I1299	X			1 Liter AG	2			2							-	WITH ICE/ICE PACKS AND
"	"	4 A,B -I1299	X			1 Liter AG	2				2						-	KEPT AT 4c
"	"	5 -I1299	X			16oz. P	1					1					-	
"	"	6 -I1299	X			4oz. P	1						1				H2SO4	
																		COMBINE ALL 8 VOA's PER
12/13/99	4:00pm	1 A,B,C,D,E,F,G,H -I1299 EFFLUENT		X		40 ml/g	8	8									HCL	EACH SET TO MAKE IT
"	"	2 -I1299	X			1 Liter AG	1		1								H2SO4	A COMPSITE SAMPLE
"	"	3 A,B -I1299	X			1 Liter AG	2			2							-	FOR EACH SET
"	"	4 A,B -I1299	X			1 Liter AG	2				2						-	
"	"	5 -I1299	X			16oz. P	1					1					-	
"	"	6 -I1299	X			4oz. P	1						1				H2SO4	
		TRIP BLANK			X	40 mL G	1	1										
		Effluent Total: 58,601																
		TOTAL: TOTAL NUMBER OF CONTAINERS					31											

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
Tracy Blackman	12/13/99	4:15pm	[illegible]	12/13/99	1645
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME

BOTTLE TYPES : G = GLASS ; AG = AMBER GLASS ; P = HPDE (PLASTIC) ; SAG = SILANIZED AMBER GLASS

METHOD OF SHIPMENT : SAMPLE TEAM: TB/DC/LK CHAIN OF CUSTODY NO: LC1213991

MILLER SPRINGS REMEDIATION MANAGEMENT INC.
805 – 97th Street, Niagara Falls, NY 14304
A Subsidiary of Occidental Petroleum Corporation

WNY Operation Office

Telephone (716) 283-0112
Fax (716) 283-2856

May 24, 2000

Mr. Albert C. Zaepfel
Industrial Monitoring Coordinator
NIAGARA FALLS WASTEWATER FACILITIES
P.O. Box 69
Niagara Falls, NY 14302-0069

RE: Second Quarter 2000 Sampling
Occidental Chemical Corporation, Love Canal Leachate Treatment Facility
Permit No. 44

Dear Mr. Zaepfel:

Enclosed are the monitoring results and discharge report for the Second Quarter of 2000.

When concentrations are reported as < or not detected at quantitation levels, calculated mass discharges are listed and included as zero in calculated averages. Similarly one or more < concentrations is averaged with other analyses as zero. When all data averaged are ND, the highest detection level is noted, i.e., <10, <5, <8 is shown as <10.

Should you have any questions, please contact me at 283-0111 x28.

Sincerely yours,

Brian Downie

Brian D. Downie

CC:

G.J. Rider, Jr., P.E.	NYSDEC, Albany
P. Buechi	NYSDEC, Region 9
D. Tubridy	MSRM
J. Westendorf	Oxy Tower
D. Crockett	MSRM
S. Parkhill	MSRM

BDD LC-SW-2Q-2000cv

CITY OF NIAGARA FALLS
DEPARTMENT OF WASTEWATER FACILITIES
ENFORCEMENT DIVISION

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PERMIT NO. 44 QUARTER SECOND - 2000

INDUSTRY NAME OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT
FACILITY

Pursuant to federal pretreatment reporting requirements and the City Sewer Use Ordinance Chapter 250, Significant Industrial Users shall submit periodic self-monitoring and compliance reports. Such reports shall be submitted using this form, according to the following schedule:

Quarterly	-	1st Quarter by February 28th
	-	2nd Quarter by May 31st
	-	3rd Quarter by August 31st
	-	4th Quarter by November 30th
Semi - Annual	-	by February 28th AND
	-	by August 31st

Each section of this report form shall be filled out for those parameters listed in Section "G" of the company's Wastewater Discharge Permit. The analysis results must be reported in both concentration and mass. In addition, the calculated annual average load (lbs./day) for each pollutant shall also be reported.

The samples shall be collected at the monitoring points identified in the user permit. Identification of those points in this report should be as listed on Page two (2) of the user permit.

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PAGE 2

PART II of the report is the Compliance Monitoring section. The user is obligated to determine if the analysis results indicate compliance or non-compliance. All violations noted should be brought to the City's attention immediately upon noting and should also be reported in this section. The analysis result should be compared against all applicable federal, state and local standards and limitations. If no violations are noted then "NO VIOLATIONS" should appear on the report.

Pursuant to 40 CFR Part 403.12 g of the federal standards, all violations noted must be followed up by a sample recollect/analysis and the results submitted to the City within thirty (30) days of first becoming aware of the violation.

Pursuant to 40 CFR Part 403.12 g , all Periodic Self-Monitoring Reports must be signed by a "responsible company official" certifying the following statement.

> 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 assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who mange 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.

Signed: _____ Date: 5/26/00

D. Tuburidy
Site Manager

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: **44**

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS mg / L		RESULTS LBS / DAY		ANNUAL AVERAGE mg / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	03/21/00		03/21/00			
24 HOUR FLOW IN MGD	0.02880		0.02880		0.03138	(MGD)
TOTAL SUSPENDED SOLIDS	12		2.88		11.375	2.87
SOLUBLE ORGANIC CARBON	2.3		0.55		3.700	0.89
TOTAL PHOSPHOROUS						
TOTAL PHENOL	0.005		0.0000		0.005	0.0024
OIL AND GREASE						
CADMIUM						
CHROMIUM						
COPPER						
LEAD						
MERCURY						
NICKEL						
ZINC						
ARSENIC						
BERYLLIUM						
BARIUM						
TOTAL CYANIDE						
pH (STANDARD UNITS)						
RESIDUAL CHLORINE						
SODIUM CHLORIDE						

Notes: J= Estimated; R = Rejected Result

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) MS#1 - 97th Street

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	03/21/00		03/21/00			
24 HOUR FLOW IN MGD	0.0288		0.0288			
BENZENE	< 11.5		0.002762		< 0.650	0.0008348
CARBON TETRACHLORIDE	< 0.58		0		< 2.8	0
CHLORODIBROMOMETHANE	< 0.65		0		< 3.1	0
MONOCHLOROBENZENE	< 9.7		0.00233		< 0.750	0.0007488
DICHLOROBROMOMETHANE	< 0.37		0		< 2.2	0
CHLOROFORM	< 0.31		0		< 1.6	0
1,1 - DICHLOROETHYLENE	< 0.54		0		< 2.8	0
1,2 - DICHLOROETHYLENE	< 3.6		0.000865		< 0.900	0.0002162
BROMOFORM	< 0.52		0		< 4.7	0
DICHLOROPROPYLENES	< 0.65		0		< 5	0
ETHYLBENZENE	< 0.67		0		< 7.2	0
1,1,2,2 - TETRACHLOROETHANE	< 1.7		0.000408		< 0.425	0.0001021
TETRACHLOROETHYLENE	< 0.66		0		< 4.1	0
TOLUENE	< 23.2		0.005572		< 2.600	0.0019699
1,1,1 - TRICHLOROETHANE	< 0.52		0		< 3.8	0
1,1,2 - TRICHLOROETHANE	< 0.47		0		< 5	0
TRICHLOROETHYLENE	< 1.2		0.000288		< 0.300	7.206E-05
METHYLENE CHLORIDE	< 0.42		0		< 2.8	0
MONOCHLOROTOLUENES	< 10		0		< 10	0
MONOCHLOROBENZOTRIFLUROIDE	< 10		0		< 10	0
VINYL CHLORIDE	< 0.77		0		< 10	0
TETRAHYDRAFURAN						
XYLENE						

Notes: J= Estimated; R = Rejected Result

24-May-00

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) MS#1 - 97th Street

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	03/21/00		03/21/00			
24 HOUR FLOW IN MGD	0.02880		0.02880			
DIMETHYL PHTHALATE	< 0.81		0		< 1.6	0
BUTYL BENZYL PHTHALATE	< 0.68		0		< 2.5	0
DIBUTYL PHTHALATE	< 0.82		0		< 2.5	0
NITROSODIPHENYLAMINE	< 1.5		0		< 1.9	0
DICHLOROBENZENES	< 0.6		0		< 4.4	0
DICHLOROTOLUENE	< 2.4		0		< 10	0
ACENAPHTHENE	< 0.58		0		< 1.9	0
FLUORANTHENE	< 1.6		0		< 2.2	0
CHRYSENE	< 4.5		0		< 2.5	0
NAPHTHALENE	< 0.44		0		< 1.6	0
BENZO (a) ANTHRACENE	< 0.53		0		< 7.8	0
PYRENE	< 0.7		0		< 1.9	0
TRICHLOROBENZENE	< 0.42		0		< 10	0
TRICHLOROTOLUENE	< 1.3		0		< 10	0
HEXACHLOROBUTADIENE	< 0.39		0		< 0.9	0
TETRACHLOROBENZENE	< 1.4		0		< 10	0
HEXACHLOROCYCLOPENTADIE	< 1.5		0		< 1	0
HEXACHLOROBENZENE	< 0.88		0		< 1.9	0
DICHLOROBENZOTRIFLUORIDE	< 0.84		0		< 10	0
DIOCTYL PHTHALATE	< 2.5		0		< 2.5	0
DIETHYL PHTHALATE	< 2.2		0.000528		< 0.550	0.00013211

Notes: J= Estimated; R = Rejected Result

24-May-00

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	03/21/00		03/21/00			
24 HOUR FLOW IN MGD	0.02880		0.02880			
PHENANTHRENE						
MONOCHLOROPHENOL	< 0.45		0		< 3.3	0
DICHLOROPHENOL	< 0.52		0		< 2.7	0
MONOCHLOROCRESOL	< 1.6		0		< 3	0
TRICHLOROPHENOL	< 1.6		0		< 10	0
PENTACHLOROPHENOL	< 0.82		0.000000		< 0.147	0.000024
HEXACHLOROCYCLOHEXANE	< 0.3059		7.3475E-05		< 0.076	0.000018
PCB'S						
ENDOSULFAN I + ENDOSULFAN II + ENDOSULFAN SULFATE						
MIREX						
DECHLORANE PLUS						
HEPTACHLOR + HEPTACHLOR EPOXIDE						

Notes: J= Estimated; R = Rejected Result

PART II
COMPLIANCE MONITORING

INDUSTRY NAME: OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT FACILITY

PERMIT NO. 44

SECOND QUARTER 2000

VIOLATION PARAMETER	DATE	FLOW (MGD)	SAMPLE POINT LOCATION	ACTUAL DISCHARGE	PERMIT LIMIT	TYPE LIMIT VIOLATED **
NO VIOLATIONS						

NOTE:

* - ACTUAL DISCHARGE - LIST ACTUAL ANALYTICAL RESULTS AND APPROPRIATE UNITS

** - TYPE LIMIT VIOLATED - LIST TYPE:

A.A. = ANNUAL AVERAGE

D.M. = DAILY MAXIMUM

L.L. = LOCAL LIMITS (ORDINANCE 250.5.1)

OCCIDENTAL CHEMICAL CORPORATION

LOVE CANAL LEACHATE TREATMENT FACILITY

PERMIT NO. 44

SECOND QUARTER 2000

DATE	FLOW(GPD)		
02/01/00	7,600		
02/02/00	11800		
02/03/00	12400		
02/04/00	11400		
02/07/00	10800		
02/08/00	6800		
02/09/00	8400		
02/10/00	17200		
02/11/00	17400		
02/14/00	17300		
02/15/00	15100		
02/16/00	9900		
02/17/00	7800		
02/18/00	11100		
02/22/00	13200		
02/23/00	51100		
02/24/00	36700		
02/26/00	41800		
02/27/00	40500		
02/28/00	74700		
02/29/00	57400		
SUBTOTA	**480,400**		
03/01/00	19900		
03/02/00	24400		
03/03/00	25500		
03/06/00	27300		
03/07/00	10300		
03/08/00	14200		
03/09/00	9100		
03/10/00	10100		
03/13/00	35100		
03/14/00	17300		
03/15/00	40930		
03/16/00	32470		
03/17/00	36100		
03/20/00	60000		**MGD**
03/21/00	28800	***Quarterly sampling***	0.0288
03/22/00	18700		
03/23/00	13400		
03/24/00	10200		
03/27/00	37200		
03/28/00	9800		
03/29/00	6100		
03/30/00	11200		
03/31/00	7400		
SUBTOTA	**505,500**		
04/03/00	23700		
04/04/00	31400		
04/05/00	28900		
04/06/00	16700		
04/07/00	12100		
04/10/00	74700		
04/11/00	65000		
04/12/00	51300		
04/13/00	20100		
04/14/00	33000		
04/17/00	49700		
04/18/00	33100		
04/19/00	18200		
04/20/00	24600		
04/22/00	37700		
04/24/00	57800		
04/25/00	53500		
04/26/00	23600		
04/27/00	10500		
04/28/00	10000		
SUBTOTA	**675,600**		

	A	B	C	D	E	F	G	H	I	J		L	M	N	O	P
1	This is the interim sheet for															
2	the 2nd. quarter. The data															
3	source is the CRA and the															
4	Q&E sheets. This data is			3rd Quart 99			4th Quart 99			1st Quarter 2000			2nd Quarter 2000		Annual Average	
5	linked to pg 3 - pg 6. SAMPLE DATE			06/23/1999			09/28/1999			12/13/99			03/21/00			
6	FLOW (MGD)			0.01920			0.02430			0.05320			0.02880		0.03138	
7	N/A= Not applicable															
8	PAGE 2 Acid extractables			ppb	lb/D		ppb	lb/D		ppb	lb/D		ug/L	lb/D	ppb	lb/D
9	Monochlorophenol		<	3.3	0	<	R	0	<	3.3	0	<	0.5	0	3.3	0.000
10	Dichlorophenol		<	2.7	0	<	R	0	<	2.7	0	<	0.5	0	2.7	0.000
11	Monochlorocresol		<	3	0	<	R	0	<	3	0	<	1.6	0	3	0.000
12	Trichlorophenol		<	10	0	<	R	0	<	10	0	<	1.6	0	10	0.000
13	Pentachlorophenol			0.59	9.4E-05		R	0	<	3.6	0.00000	<	0.82	0	0.147	0.000
14																
15	PAGE 3 Base Neutrals														ppb	lb/D
16	Dimethyl Phthalate		<	1.6	0	<	R	0	<	1.6	0	<	0.8	0	1.6	0.000
17	Butyl Benzyl Phthalate		<	2.5	0	<	2.5	0	<	2.5	0	<	0.7	0	2.5	0.000
18	Dibutyl Phthalate		<	2.5	0	<	2.5	0	<	2.5	0	<	0.8	0	2.5	0.000
19	Nitrosodiphenylamine		<	1.9	0	<	1.9	0	<	1.9	0	<	1.5	0	1.9	0.000
20	Dichlorobenzenes		<	4.4	0	<	4.4	0	<	4.4	0	<	0.6	0	4.4	0.000
21	Dichlorotoluene		<	10	0	<	10	0	<	10	0	<	2.4	0	10	0.000
22	Acenapthalene		<	1.9	0	<	1.9	0	<	1.9	0	<	0.6	0	1.9	0.000
23	Fluoranthene		<	2.2	0	<	2.2	0	<	2.2	0	<	1.6	0	2.2	0.000
24	Chrysene		<	2.5	0	<	2.5	0	<	2.5	0	<	4.5	0	2.5	0.000
25	Napthalene		<	1.6	0	<	1.6	0	<	1.6	0	<	0.4	0	1.6	0.000
26	Benzo(a)anthracene		<	7.8	0	<	7.8	0	<	7.8	0	<	0.5	0	7.8	0.000
27	Pyrene		<	1.9	0	<	1.9	0	<	1.9	0	<	0.7	0	1.9	0.000
28	Trichlorobenzene		<	10	0	<	10	0	<	10	0	<	0.4	0	10	0.000
29	Trichlorotoluene		<	10	0	<	10	0	<	10	0	<	1.3	0	10	0.000
30	Hexachlorobutadiene		<	0.9	0	<	0.9	0	<	0.9	0	<	0.4	0	0.9	0.000
31	Tetrachlorobenzene		<	10	0	<	10	0	<	10	0	<	1.4	0	10	0.000
32	Hexachlorobenzene		<	1.9	0	<	1.9	0	<	1.9	0	<	0.9	0	1.9	0.000
33	Dichlorobenzotrifluoride		<	10	0	<	10	0	<	10	0	<	0.8	0	10	0.000
34	Phenanthrene															
35	Hexachlorocyclopentadiene		<	1	0	<	1	0	<	1	0	<	1.5	0	1	0.000
36	Dioctyl phthalate		<	2.5	0	<	2.5	0	<	2.5	0	<	2.5	0	2.5	0.000
37	Diethyl phthalate		<	1.9	0	<	1.9	0	<	1.9	0		2.2	0.0005284	0.550	0.000
38																
39	PAGE 4 Volatiles			ppb	lb/D		ppb	lb/D		ppb	lb/D		ppb	lb/D	ppb	lb/D
40	Benzene		<	4.4	0	<	4.4	0		1.3	0.00058		11.5	0.0027622	0.650	0.001
41	Carbon Tetrachloride		<	2.8	0	<	2.8	0	<	2.8	0	<	0.6	0	2.8	0.000
42	Chlorodibromomethane		<	3.1	0	<	3.1	0	<	3.1	0	<	0.7	0	3.1	0.000
43	Monochlorobenzene		<	6	0	<	6	0		1.5	0.00067		9.7	0.0023299	0.750	0.001
44	Dichlorobromomethane		<	2.2	0	<	2.2	0	<	2.2	0	<	0.4	0	2.2	0.000
45	Chloroform		<	1.6	0	<	1.6	0	<	1.6	0	<	0.3	0	1.6	0.000
46	1,1-Dichloroethene		<	2.8	0	<	2.8	0	<	2.8	0	<	0.5	0	2.8	0.000
47	1,2-Dichloroethene		<	5	0	<	5	0	<	5	0		3.6	0.0008647	0.900	0.000
48	Bromoform		<	4.7	0	<	4.7	0	<	4.7	0	<	0.5	0	4.7	0.000
49	Dichloropropylenes		<	5	0	<	5	0	<	5	0	<	0.7	0	5	0.000
50	Ethylbenzene		<	7.2	0	<	7.2	0	<	7.2	0	<	0.7	0	7.2	0.000
51	Tetrachloroethanes		<	6.9	0	<	6.9	0	<	6.9	0		1.7	0.0004083	0.425	0.000102
52	Tetrachloroethylene		<	4.1	0	<	4.1	0	<	4.1	0	<	0.7	0	4.1	0.000
53	Toluene		<	6	0	<	6	0		5.2	0.00231		23.2	0.0055725	2.600	0.002
54	1,1,1-Trichloroethane		<	3.8	0	<	3.8	0	<	3.8	0	<	0.5	0	3.8	0.000
55	1,1,2-Trichloroethane		<	5	0	<	5	0	<	5	0	<	0.5	0	5	0.000
56	Trichloroethylene		<	1.9	0	<	1.9	0	<	1.9	0		1.2	0.0002882	0.300	0.000
57	Methylene Chloride		<	2.8	0	<	2.8	0	<	2.8	0	<	0.4	0	2.8	0.000
58	Monochlorotoluene		<	10	0	<	10	0	<	10	0	<	10.0	0	10	0.000
59	Monochlorobenzotrifluoride		<	10	0	<	10	0	<	10	0	<	10.0	0	10	0.000
60	Vinyl chloride		<	10	0	<	10	0	<	10	0	<	0.8	0	10	0.000
61																
62	PAGE 5 Conventionals			mg/l	lb/D		mg/l	lb/D		mg/l	lb/D		mg/l	lb/D	ppb	lb/D
63	TSS			18.5	2.96		18	3.65		4.5	2.00		12.0	2.88	11.375	2.8723
64	SOC			3	0.48		3.8	0.77		4	1.77		2.3	0.55	3.700	0.8944
65	Phenol, Total (mg)		<	0.005	0.00	<	0.01	0.00		0.022	0.01	<	0.005	0.00	0.005	0.0024
66																
67	PAGE 6 Pesticides			mg/l	lb/D		mg/l	lb/D		mg/l	lb/D		mg/l	lb/D	ppb	lb/D
68	Hexachlorocylohexane		<	0.1	0.00	<	0.1	0.00	<	0.1	0.00		0.3059	0.00	0.076	0.000018
69																
70	Notes: J= Estimated; R = Rejected Result															

CHAIN OF CUSTODY RECORD

Miller Springs Holdings
Occidental Chemical

SHIP TO (LABORATORY NAME)
H2M LABS, INC
575 BROAD HOLLOW ROAD
MELVILLE NY 11747

REFERENCE NUMBER:
LOVE CANAL
QTY SEWER SAMPLE

SAMPLE RESULTS REPORTING TO:
Darrell Crockett Fax: (716) 283-2856 Phone: (716)283-0111
Mailing Address: LOVE CANAL 805 97th ST.
NIAGARA FALLS, NY 14304

FACILITY LOCATION:
Love Canal Niagara Falls

SAMPLER(S) (PRINT NAME)
TB/DC/LK

SIGNATURE Tony Blackman
516/694-3040 ext.1206

DATE	TIME	SAMPLE NO.	COMPOSITE	GRAB	OTHER	CONTAINER TYPE	CONTAINERS NO. of	VOA's	PHENOL	SEMI VOLATIL	PESTICIDES	TSS	SOC				PRESERVED	REMARKS
03/21/00	2:00pm	INTERSTAGE		X		*	15	8	1	2	2	1	1				HCL	ALL SAMPLES STORED
																	H2SO4	AND SHIPPED IN COOLER(S)
																	-	WITH ICE/ICE PACKS AND
																	-	KEPT AT 4c
																	-	
																	H2SO4	
																		COMBINE ALL 8 VOA's PER
3/21/00	2:00pm	EFFLUENT		X		*	15	8	1	2	2	1	1				HCL	EACH SET TO MAKE IT
																	H2SO4	A COMPSITE SAMPLE
																	-	FOR EACH SET
																	-	
																	-	40 ml/g
																	H2SO4	1 Liter AG
																		1 Liter AG
																		1 Liter AG
		TRIP BLANK			X	40 mL G	1	1										4oz. P
Ending Total - 6671300																		4oz. AG
Begining total - 6642500																		
		TOTAL NUMBER OF CONTAINERS					31											

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
Tony Blackman	3/21/00	3:00pm			
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME

BOTTLE TYPES : G = GLASS ; AG = AMBER GLASS ; P = HPDE (PLASTIC) ; SAG = SILANIZED AMBER GLASS

METHOD OF SHIPMENT : SAMPLE TEAM: TB/DC/LK CHAIN OF CUSTODY NO: LC321001

D. KING DK

AB AB
BS BD

MILLER SPRINGS REMEDIATION MANAGEMENT INC.

805 – 97th Street, Niagara Falls, NY 14304

A Subsidiary of Occidental Petroleum Corporation

WNY Operation Office

Telephone (716) 283-0112
Fax (716) 283-2856

August 25, 2000

Mr. Albert C. Zaepfel
Industrial Monitoring Coordinator
NIAGARA FALLS WASTEWATER FACILITIES
P.O. Box 69
Niagara Falls, NY 14302-0069

RECEIVED
AUG 29 2000
NYSDEC - REG. 9
FOIL
X REL __ UNREL

RE: Third Quarter 2000 Sampling
Occidental Chemical Corporation, Love Canal Leachate Treatment Facility
Permit No. 44

Dear Mr. Zaepfel:

Enclosed are the monitoring results and discharge report for the Third Quarter of 2000.

When concentrations are reported as < or not detected at quantitation levels, calculated mass discharges are listed and included as zero in calculated averages. Similarly one or more < concentrations is averaged with other analyses as zero. When all data averaged are ND, the highest detection level is noted, i.e., <10, <5, <8 is shown as <10.

Note:
The parameter Soluble Organic Carbon (SOC) was re-sampled on 07/07/00, the original result from 06/19/00 which shown a level of 72.0 mg/L for SOC. The SOC level reported from the lab (H2M) on 06/19/00 was believed to be an abnomally or contaminated during filtration of the SOC. Levels detected in the past quarters for the year starting with last quarter (second Quarter 2000, 3/21/00) and back respectively are as follow: 2.3, 4.0, 3.8 and 3.0 mg/L for SOC. The historical results and the re-sampled result that met with in the historic mean conclude that the initial result to be rejected and the parameter re-sample.

Should you have any questions, please contact me at 283-0111 x28.

Sincerely yours,

Don Tuburidy

CC:	G.J. Rider, Jr., P.E.	NYSDEC, Albany	S. Parkhill	MSRM
	P. Buechi	NYSDEC, Region 9	D. Crockett	MSRM
	B. Downie	MSRM		
	J. Westendorf	Oxy Tower		

BDD LC-SW-3Q-2000cv

CITY OF NIAGARA FALLS
DEPARTMENT OF WASTEWATER FACILITIES
ENFORCEMENT DIVISION

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PERMIT NO. 44 QUARTER THIRD - 2000

INDUSTRY NAME OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT
FACILITY

Pursuant to federal pretreatment reporting requirements and the City Sewer Use Ordinance Chapter 250, Significant Industrial Users shall submit periodic self-monitoring and compliance reports. Such reports shall be submitted using this form, according to the following schedule:

Quarterly	-	1st Quarter by February 28th
	-	2nd Quarter by May 31st
	-	3rd Quarter by August 31st
	-	4th Quarter by November 30th
Semi - Annual	-	by February 28th
		AND
	-	by August 31st

Each section of this report form shall be filled out for those parameters listed in Section "G" of the company's Wastewater Discharge Permit. The analysis results must be reported in both concentration and mass. In addition, the calculated annual average load (lbs./day) for each pollutant shall also be reported.

The samples shall be collected at the monitoring points identified in the user permit. Identification of those points in this report should be as listed on Page two (2) of the user permit.

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PAGE 2

PART II of the report is the Compliance Monitoring section. The user is obligated to determine if the analysis results indicate compliance or non-compliance. All violations noted should be brought to the City's attention immediately upon noting and should also be reported in this section. The analysis result should be compared against all applicable federal, state and local standards and limitations. If no violations are noted then "NO VIOLATIONS" should appear on the report.

Pursuant to 40 CFR Part 403.12 g of the federal standards, all violations noted must be followed up by a sample recollect/analysis and the results submitted to the City within thirty (30) days of first becoming aware of the violation.

Pursuant to 40 CFR Part 403.12 g , all Periodic Self-Monitoring Reports must be signed by a "responsible company official" certifying the following statement.

> 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 assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who mange 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.

Signed: _____ Date: 8/28/00

D. Tuburidy
Site Manager

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS mg / L		RESULTS LBS / DAY		ANNUAL AVERAGE mg / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	06/19/00		06/19/00			
24 HOUR FLOW IN MGD	0.06050		0.06050		0.04170	(MGD)
TOTAL SUSPENDED SOLIDS	10		5.05		11.625	3.39
SOLUBLE ORGANIC CARBON	* 5.8354		1.23		3.100	1.08
TOTAL PHOSPHOROUS						
TOTAL PHENOL	0.005		0.0025		0.008	0.0031
OIL AND GREASE						
CADMIUM						
CHROMIUM						
COPPER						
LEAD						
MERCURY						
NICKEL						
ZINC						
ARSENIC						
BERYLLIUM						
BARIUM						
TOTAL CYANIDE						
pH (STANDARD UNITS)						
RESIDUAL CHLORINE						
SODIUM CHLORIDE						

* Soluble Organic Carbon (SOC) Re-sample on 07/07/00, initial result rejected.

Notes: J= Estimated; R = Rejected Result

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) MS#1 - 97th Street

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	06/19/00		06/19/00			
24 HOUR FLOW IN MGD	0.0605		0.0605			
BENZENE	< 0.2		0		< 3.200	0.0008348
CARBON TETRACHLORIDE	< 0.9		0		< 2.8	0
CHLORODIBROMOMETHANE	< 0.2		0		< 3.1	0
MONOCHLOROBENZENE	< 0.8		0		< 2.800	0.0007488
DICHLOROBROMOMETHANE	< 0.4		0		< 2.2	0
CHLOROFORM	< 0.2		0		< 1.6	0
1,1 - DICHLOROETHYLENE	< 0.4		0		< 2.8	0
1,2 - DICHLOROETHYLENE	< 0.6		0		< 5	0.0002162
BROMOFORM	< 0.2		0		< 4.7	0
DICHLOROPROPYLENES	< 0.2		0		< 5	0
ETHYLBENZENE	< 1		0		< 7.2	0
1,1,2,2 - TETRACHLOROETHANE	< 1		0		< 6.9	0.0001021
TETRACHLOROETHYLENE	< 1		0		< 4.1	0
TOLUENE	< 0.5		0		< 7.100	0.0019699
1,1,1 - TRICHLOROETHANE	< 0.4		0		< 3.8	0
1,1,2 - TRICHLOROETHANE	< 0.4		0		< 5	0
TRICHLOROETHYLENE	< 0.5		0		< 1.9	7.206E-05
METHYLENE CHLORIDE	< 0.4		0		< 2.8	0
MONOCHLOROTOLUENES	< 10		0		< 10	0
MONOCHLOROBENZOTRIFLUROIDE	< 10		0		< 10	0
VINYL CHLORIDE	< 0.3		0		< 10	0
TETRAHYDRAFURAN						
XYLENE						

Notes: J= Estimated; R = Rejected Result

23-Aug-00

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) MS#1 - 97th Street

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	06/19/00		06/19/00			
24 HOUR FLOW IN MGD	0.06050		0.06050			
DIMETHYL PHTHALATE	< 0.81		0		< 1.6	0
BUTYL BENZYL PHTHALATE	< 0.68		0		< 2.5	0
DIBUTYL PHTHALATE	< 0.82		0		< 2.5	0
NITROSODIPHENYLAMINE	< 1.5		0		< 1.9	0
DICHLOROBENZENES	< 0.6		0		< 4.4	0
DICHLOROTOLUENE	< 1.2		0		< 10	0
ACENAPHTHENE	< 0.58		0		< 1.9	0
FLUORANTHENE	< 1.6		0		< 2.2	0
CHRYSENE	< 0.45		0		< 4.5	0
NAPHTHALENE	< 0.44		0		< 1.6	0
BENZO (a) ANTHRACENE	< 0.53		0		< 7.8	0
PYRENE	< 0.7		0		< 1.9	0
TRICHLOROBENZENE	< 1.4		0.000706		< 0.350	0.0001766
TRICHLOROTOLUENE	< 0.64		0		< 10	0
HEXACHLOROBUTADIENE	< 0.39		0		< 0.9	0
TETRACHLOROBENZENE	< 1.1		0.000444		< 0.350	0.00011101
HEXACHLOROCYCLOPENTADIE	< 1.5		0		< 1.5	0
HEXACHLOROBENZENE	< 0.88		0		< 1.9	0
DICHLOROBENZOTRIFLUORIDE	< 0.42		0		< 10	0
DIOCTYL PHTHALATE	< 1.7		0		< 2.5	0
DIETHYL PHTHALATE	< 1.1		0		< 2.2	0.00013211

Notes: J= Estimated; R = Rejected Result

23-Aug-00

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	06/19/00		06/19/00			
24 HOUR FLOW IN MGD	0.06050		0.06050			
PHENANTHRENE						
MONOCHLOROPHENOL	< 0.45		0		< 3.3	0
DICHLOROPHENOL	< 0.85		0		< 2.7	0
MONOCHLOROCRESOL	< 1.6		0		< 3	0
TRICHLOROPHENOL	< 1.6		0		< 10	0
PENTACHLOROPHENOL	< 0.82		0.000000		< 0.000	0.000000
HEXACHLOROCYCLOHEXANE	< 0.544		0.00027449		< 0.076	0.000087
PCB'S						
ENDOSULFAN I + ENDOSULFAN II + ENDOSULFAN SULFATE						
MIREX						
DECHLORANE PLUS						
HEPTACHLOR + HEPTACHLOR EPOXIDE						

Notes: J= Estimated; R = Rejected Result

PART II
COMPLIANCE MONITORING

INDUSTRY NAME: OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT FACILITY

PERMIT NO. 44

THIRD QUARTER 2000

VIOLATION PARAMETER	DATE	FLOW (MGD)	SAMPLE POINT LOCATION	ACTUAL DISCHARGE	PERMIT LIMIT	TYPE LIMIT VIOLATED **
NO VIOLATIONS						

NOTE:

* - ACTUAL DISCHARGE - LIST ACTUAL ANALYTICAL RESULTS AND APPROPRIATE UNITS

** - TYPE LIMIT VIOLATED - LIST TYPE:

A.A. = ANNUAL AVERAGE

D.M. = DAILY MAXIMUM

L.L. = LOCAL LIMITS (ORDINANCE 250.5.1)

OCCIDENTAL CHEMICAL CORPORATION

LOVE CANAL LEACHATE TREATMENT FACILITY

PERMIT NO. 44

THIRD QUARTER 2000

DATE	FLOW(GPD)		
05/01/00	19,200		
05/02/00	10,500		
05/03/00	8,300		
05/04/00	8,200		
05/05/00	6,900		
05/08/00	8,900		
05/09/00	19,700		
05/10/00	10,300		
05/11/00	6,100		
05/12/00	2,000		
05/15/00	32,500		
05/16/00	31,700		
05/17/00	55,500		
05/18/00	76,300		
05/22/00	45,300		
05/23/00	19,800		
05/24/00	20,200		
05/25/00	44,900		
05/30/00	31,000		
05/31/00	16,000		
SUBTOTAL	**473,300**		
06/01/00	13400		
06/05/00	22000		
06/07/00	2800		
06/08/00	15100		
06/09/00	29600		
06/12/00	26300		
06/13/00	25300		
06/14/00	9400		
06/15/00	37900		
06/16/00	39300		**MGD**
06/19/00	60500	***Quarterly sampling***	0.0605
06/20/00	70000		
06/21/00	24900		
06/22/00	42300		
06/23/00	12700		
06/26/00	52900		
06/27/00	50100		
06/28/00	35500		
06/29/00	30000		
06/30/00	32200		
SUBTOTAL	**632,200**		
07/03/00	21000		
07/05/00	10500		
07/06/00	8700		
07/07/00	25200		
07/10/00	28600		
07/11/00	5300		
07/12/00	16700		
07/13/00	12700		
07/14/00	9300		
07/17/00	23600		
07/18/00	19600		
07/19/00	8700		
07/20/00	8500		
07/21/00	10700		
07/24/00	30400		
07/25/00	6700		
07/26/00	10300		
07/27/00	11200		
07/28/00	19300		
07/31/00	46900		
SUBTOTAL	**333,900**		

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	This is the interim sheet for															
2	the 2nd. quarter. The data															
3	source is the CRA and the															
4	Q&E sheets. This data is			4th Quart 99			1st Quarter 2000			2nd Quarter 2000			3rd Quarter 2000		Annual Average	
5	linked to pg 3 - pg 6.															
5	SAMPLE DATE			09/28/1999			12/13/99			03/21/00			06/19/00			
6	FLOW (MGD)			0.02430			0.05320			0.02880			0.06050		0.04170	
7	N/A= Not applicable															
8	PAGE 2 Acid extractables			ppb	lb/D		ppb	lb/D		ug/L	lb/D		ug/L	lb/D	ppb	lb/D
9	Monochlorophenol		<	R	0	<	3.3	0	<	0.45	0	<	0.5	0	3.3	0.000
10	Dichlorophenol		<	R	0	<	2.7	0	<	0.52	0	<	0.9	0	2.7	0.000
11	Monochlorocresol		<	R	0	<	3	0	<	1.6	0	<	1.6	0	3	0.000
12	Trichlorophenol		<	R	0	<	10	0	<	1.6	0	<	1.6	0	10	0.000
13	Pentachlorophenol			R	0	<	3.6	0.00000	<	0.82	0.00000	<	0.82	0	0.000	0.000
14																
15	PAGE 3 Base Neutrals														ppb	lb/D
16	Dimethyl Phthalate		<	R	0	<	1.6	0	<	0.81	0	<	0.8	0	1.6	0.000
17	Butyl Benzyl Phthalate		<	2.5	0	<	2.5	0	<	0.68	0	<	0.7	0	2.5	0.000
18	Dibutyl Phthalate		<	2.5	0	<	2.5	0	<	0.82	0	<	0.8	0	2.5	0.000
19	Nitrosodiphenylamine		<	1.9	0	<	1.9	0	<	1.5	0	<	1.5	0	1.9	0.000
20	Dichlorobenzenes		<	4.4	0	<	4.4	0	<	0.6	0	<	0.6	0	4.4	0.000
21	Dichlorotoluene		<	10	0	<	10	0	<	2.4	0	<	1.2	0	10	0.000
22	Acenapthalene		<	1.9	0	<	1.9	0	<	0.58	0	<	0.6	0	1.9	0.000
23	Fluoranthene		<	2.2	0	<	2.2	0	<	1.6	0	<	1.6	0	2.2	0.000
24	Chrysene		<	2.5	0	<	2.5	0	<	4.5	0	<	0.5	0	4.5	0.000
25	Napthalene		<	1.6	0	<	1.6	0	<	0.44	0	<	0.4	0	1.6	0.000
26	Benzo(a)anthracene		<	7.8	0	<	7.8	0	<	0.53	0	<	0.5	0	7.8	0.000
27	Pyrene		<	1.9	0	<	1.9	0	<	0.7	0	<	0.7	0	1.9	0.000
28	Trichlorobenzene		<	10	0	<	10	0	<	0.42	0		1.4	0.0007064	0.350	0.000
29	Trichlorotoluene		<	10	0	<	10	0	<	1.3	0	<	0.6	0	10	0.000
30	Hexachlorobutadiene		<	0.9	0	<	0.9	0	<	0.39	0	<	0.4	0	0.9	0.000
31	Tetrachlorobenzene		<	10	0	<	10	0	<	1.4	0		1.1	0.000444	0.350	0.000
32	Hexachlorobenzene		<	1.9	0	<	1.9	0	<	0.88	0	<	0.9	0	1.9	0.000
33	Dichlorobenzotrifluoride		<	10	0	<	10	0	<	0.84	0	<	0.4	0	10	0.000
34	Phenanthrene															
35	Hexachlorocyclopentadiene		<	1	0	<	1	0	<	1.5	0	<	1.5	0	1.5	0.000
36	Dioctyl phthalate		<	2.5	0	<	2.5	0	<	2.5	0	<	1.7	0	2.5	0.000
37	Diethyl phthalate		<	1.9	0	<	1.9	0	<	2.2	0.00053	<	1.1	0	2.2	0.000
38																
39	PAGE 4 Volatiles			ppb	lb/D		ppb	lb/D		ppb	lb/D		ppb	lb/D	ppb	lb/D
40	Benzene		<	4.4	0		1.3	0.00058		11.5	0.00276	<	0.2	0	3.200	0.001
41	Carbon Tetrachloride		<	2.8	0	<	2.8	0	<	0.58	0	<	0.9	0	2.8	0.000
42	Chlorodibromomethane		<	3.1	0	<	3.1	0	<	0.65	0	<	0.2	0	3.1	0.000
43	Monochlorobenzene		<	6	0		1.5	0.00067		9.7	0.00233	<	0.8	0	2.800	0.001
44	Dichlorobromomethane		<	2.2	0	<	2.2	0	<	0.37	0	<	0.4	0	2.2	0.000
45	Chloroform		<	1.6	0	<	1.6	0	<	0.31	0	<	0.2	0	1.6	0.000
46	1,1-Dichloroethene		<	2.8	0	<	2.8	0	<	0.54	0	<	0.4	0	2.8	0.000
47	1,2-Dichloroethene		<	5	0	<	5	0	<	3.6	0.00086	<	0.6	0	5	0.000
48	Bromoform		<	4.7	0	<	4.7	0	<	0.52	0	<	0.2	0	4.7	0.000
49	Dichloropropylenes		<	5	0	<	5	0	<	0.65	0	<	0.2	0	5	0.000
50	Ethylbenzene		<	7.2	0	<	7.2	0	<	0.67	0	<	1.0	0	7.2	0.000
51	Tetrachloroethanes		<	6.9	0	<	6.9	0	<	1.7	0.00041	<	1.0	0	6.9	0.000102
52	Tetrachloroethylene		<	4.1	0	<	4.1	0	<	0.66	0	<	1.0	0	4.1	0.000
53	Toluene		<	6	0		5.2	0.00231		23.2	0.00557	<	0.5	0	7.100	0.002
54	1,1,1-Trichloroethane		<	3.8	0	<	3.8	0	<	0.52	0	<	0.4	0	3.8	0.000
55	1,1,2-Trichloroethane		<	5	0	<	5	0	<	0.47	0	<	0.4	0	5	0.000
56	Trichloroethylene		<	1.9	0	<	1.9	0	<	1.2	0.00029	<	0.5	0	1.9	0.000
57	Methylene Chloride		<	2.8	0	<	2.8	0	<	0.42	0	<	0.4	0	2.8	0.000
58	Monochlorotoluene		<	10	0	<	10	0	<	10	0	<	10.0	0	10	0.000
59	Monochlorobenzotrifluoride		<	10	0	<	10	0	<	10	0	<	10.0	0	10	0.000
60	Vinyl chloride		<	10	0	<	10	0	<	0.77	0	<	0.3	0	10	0.000
61																
62	PAGE 5 Conventionals			mg/l	lb/D		mg/l	lb/D		mg/l	lb/D		mg/l	lb/D	ppb	lb/D
63	TSS			18	3.65		4.5	2.00		12	2.88		10.0	5.05	11.625	3.3931
64	SOC			3.8	0.77		4	1.77		2.3	0.55		5.8	1.23	3.100	1.0809
65	Phenol, Total (mg)		<	0.01	0.00		0.022	0.01		0.005	0.00		0.005	0.00	0.008	0.0031
66																
67	PAGE 6 Pesticides			mg/l	lb/D		mg/l	lb/D		mg/l	lb/D		mg/l	lb/D	ppb	lb/D
68	Hexachlorocylohexane		<	0.1	0.00	<	0.1	0.00	<	0.3059	0.00		0.544	0.00	0.076	0.000087
69																

70 Notes: J= Estimated; R = Rejected Result

71 * 3rd Quarter 2000 Soluble Organic Carbon (SOC) Re-sample on 07/07/00, initial result rejected.

CHAIN OF CUSTODY RECORD

Miller Springs Holdings
Occidental Chemical

FACILITY LOCATION:

SHIP TO (LABORATORY NAME)
H2M LABS, INC
575 BROAD HOLLOW ROAD
MELVILLE NY 11747

SAMPLER(S) (PRINT NAME)
TBLACKMON/LKOSHA

REFERENCE NUMBER:
LOVE CANAL
QTY SEWER SAMPLE

SIGNATURE Tony Blackmon
516/694-3040 ext.1206

SAMPLE RESULTS REPORTING TO:
Susan Scrocchi Fax: (716) 297-2265 Phone: (716)297-2160
Mailing Address: CRA 2055 Niagara Falls Blvd. Suite Three
NIAGARA FALLS, NY 14304

DATE	TIME	SAMPLE NO.	COMPOSITE	GRAB	OTHER	CONTAINER TYPE	CONTAINERS NO. of	VOA's	PHENOL	SEMI VOLATIL	PESTICIDES	TSS	TOC				PRESERVED	REMARKS
06/19/00	1630	INTERSTAGE		X		*	15	8	1	2	2	1	1				HCL	ALL SAMPLES STORED
																	H2SO4	AND SHIPPED IN COOLER(S)
																	-	WITH ICE/ICE PACKS AND
																	-	KEPT AT 4c
																	-	
																	H2SO4	
																		COMBINE ALL 8 VOA's PER
06/19/00	1630	EFFLUENT		X		*	15	8	1	2	2	1	1				HCL	EACH SET TO MAKE IT
																	H2SO4	A COMPSITE SAMPLE
																	-	FOR EACH SET
																	-	
																	-	40 ml/g
																	H2SO4	1 Liter AG
																		1 Liter AG
																		1 Liter AG
		TRIP BLANK			X	40 mL G	2	2										4oz. P
		Start- 8155300																4ozAG
		end- 8215800																
		TOTAL NUMBER OF CONTAINERS					32											

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
Tony Blackmon	6-19-00	1700			
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME

BOTTLE TYPES : G = GLASS ; AG = AMBER GLASS ; P = HPDE (PLASTIC) ; SAG = SILANIZED AMBER GLASS

METHOD OF SHIPMENT : SAMPLE TEAM: TBLACKMON/LKOSH/ CHAIN OF CUSTODY NO: LC619001

DKK

MILLER SPRINGS REMEDIATION MANAGEMENT INC.

805 – 97th Street, Niagara Falls, NY 14304
A Subsidiary of Occidental Petroleum Corporation

WNY Operation Office

Telephone (716) 283-0112
Fax (716) 283-2856

November 27, 2000

RECEIVED
NOV 29 2000
NYSDEC - REG. 9
FOIL
✓REL ___UNREL

Mr. Albert C. Zaepfel
Industrial Monitoring Coordinator
NIAGARA FALLS WASTEWATER FACILITIES
P.O. Box 69
Niagara Falls, NY 14302-0069

RE: Fourth Quarter 2000 Sampling
Occidental Chemical Corporation, Love Canal Leachate Treatment Facility
Permit No. 44

Dear Mr. Zaepfel:

Enclosed are the monitoring results and discharge report for the Fourth Quarter of 2000.

When concentrations are reported as < or not detected at quantitation levels, calculated mass discharges are listed and included as zero in calculated averages. Similarly one or more < concentrations is averaged with other analyses as zero. When all data averaged are ND, the highest detection level is noted, i.e., <10, <5, <8 is shown as <10.

Should you have any questions, please contact me at 283-0112.

Sincerely yours,

Donald Tubridy

CC:	G.J. Rider, Jr., P.E.	NYSDEC, Albany	S. Parkhill	MSRM
	P. Buechi	NYSDEC, Region 9	D. Crockett	MSRM
	B. Downie	MSRM		
	J. Westendorf	Oxy Tower		

BDD LC-SW-4Q-2000cv

CITY OF NIAGARA FALLS
DEPARTMENT OF WASTEWATER FACILITIES
ENFORCEMENT DIVISION

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PERMIT NO. 44 QUARTER FOURTH - 2000

INDUSTRY NAME OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT
FACILITY

Pursuant to federal pretreatment reporting requirements and the City Sewer Use Ordinance Chapter 250, Significant Industrial Users shall submit periodic self-monitoring and compliance reports. Such reports shall be submitted using this form, according to the following schedule:

Quarterly	-	1st Quarter by February 28th
	-	2nd Quarter by May 31st
	-	3rd Quarter by August 31st
	-	4th Quarter by November 30th
Semi - Annual	-	by February 28th
		AND
	-	by August 31st

Each section of this report form shall be filled out for those parameters listed in Section "G" of the company's Wastewater Discharge Permit. The analysis results must be reported in both concentration and mass. In addition, the calculated annual average load (lbs./day) for each pollutant shall also be reported.

The samples shall be collected at the monitoring points identified in the user permit. Identification of those points in this report should be as listed on Page two (2) of the user permit.

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PAGE 2

PART II of the report is the Compliance Monitoring section. The user is obligated to determine if the analysis results indicate compliance or non-compliance. All violations noted should be brought to the City's attention immediately upon noting and should also be reported in this section. The analysis result should be compared against all applicable federal, state and local standards and limitations. If no violations are noted then "NO VIOLATIONS" should appear on the report.

Pursuant to 40 CFR Part 403.12 g of the federal standards, all violations noted must be followed up by a sample recollect/analysis and the results submitted to the City within thirty (30) days of first becoming aware of the violation.

Pursuant to 40 CFR Part 403.12 g , all Periodic Self-Monitoring Reports must be signed by a "responsible company official" certifying the following statement.

> 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 assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who mange 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.

Signed: _____ Date: 11/28/00

Donald Tubridy
Site Manager

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS mg / L		RESULTS LBS / DAY		ANNUAL AVERAGE mg / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	09/18/00		09/18/00			
24 HOUR FLOW IN MGD	0.01080		0.01080		0.03833	(MGD)
TOTAL SUSPENDED SOLIDS	6.8		0.61		8.325	2.63
SOLUBLE ORGANIC CARBON	6.0		1.26		4.534	1.20
TOTAL PHOSPHOROUS						
TOTAL PHENOL	0.005		0.0000		0.008	0.0031
OIL AND GREASE						
CADMIUM						
CHROMIUM						
COPPER						
LEAD						
MERCURY						
NICKEL						
ZINC						
ARSENIC						
BERYLLIUM						
BARIUM						
TOTAL CYANIDE						
pH (STANDARD UNITS)						
RESIDUAL CHLORINE						
SODIUM CHLORIDE						

Notes: J= Estimated; R = Rejected Result

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) MS#1 - 97th Street

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	09/18/00		09/18/00			
24 HOUR FLOW IN MGD	0.0108		0.0108			
BENZENE	9.5		0.000856		5.575	0.0010487
CARBON TETRACHLORIDE	< 0.58		0		< 2.8	0
CHLORODIBROMOMETHANE	< 0.65		0		< 3.1	0
MONOCHLOROBENZENE	8.9		0.000802		5.025	0.0009493
DICHLOROBROMOMETHANE	< 0.37		0		< 2.2	0
CHLOROFORM	< 0.31		0		< 1.6	0
1,1 - DICHLOROETHYLENE	< 0.54		0		< 2.8	0
1,2 - DICHLOROETHYLENE	3.7		0.000333		0.925	0.0002995
BROMOFORM	< 0.52		0		< 4.7	0
DICHLOROPROPYLENES	< 0.65		0		< 5	0
ETHYLBENZENE	< 0.67		0		< 7.2	0
1,1,2,2 - TETRACHLOROETHANE	1.1		9.91E-05		0.275	0.0001269
TETRACHLOROETHYLENE	< 0.66		0		< 4.1	0
TOLUENE	6.6		0.000594		8.750	0.0021185
1,1,1 - TRICHLOROETHANE	< 0.52		0		< 3.8	0
1,1,2 - TRICHLOROETHANE	0.62		5.58E-05		0.155	1.396E-05
TRICHLOROETHYLENE	0.66		5.94E-05		0.165	8.692E-05
METHYLENE CHLORIDE	< 1.5		0		< 2.8	0
MONOCHLOROTOLUENES	< 10		0		< 10	0
MONOCHLOROBENZOTRIFLUROIDE	< 10		0		< 10	0
VINYL CHLORIDE	0.8		7.21E-05		0.200	1.801E-05
TETRAHYDRAFURAN						
XYLENE						

Notes: J= Estimated; R = Rejected Result

17-Nov-00

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) MS#1 - 97th Street

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	09/18/00		09/18/00			
24 HOUR FLOW IN MGD	0.01080		0.01080			
DIMETHYL PHTHALATE	< 0.45		0		< 1.6	0
BUTYL BENZYL PHTHALATE	< 0.87		0		< 2.5	0
DIBUTYL PHTHALATE	1.1		9.91E-05		0.275	2.477E-05
NITROSODIPHENYLAMINE	< 0.36		0		< 1.9	0
DICHLOROBENZENES	< 1.13		0		< 4.4	0
DICHLOROTOLUENE	< 1.2		0		< 10	0
ACENAPHTHENE	< 0.53		0		< 1.9	0
FLUORANTHENE	< 0.57		0		< 2.2	0
CHRYSENE	< 1.55		0		< 4.5	0
NAPHTHALENE	< 0.35		0		< 1.6	0
BENZO (a) ANTHRACENE	< 1.33		0		< 7.8	0
PYRENE	< 0.57		0		< 1.9	0
TRICHLOROBENZENE	< 0.87		0		< 0.350	0.0001766
TRICHLOROTOLUENE	< 0.64		0		< 10	0
HEXACHLOROBUTADIENE	< 1.31		0		< 1.31	0
TETRACHLOROBENZENE	< 0.7		0		< 0.275	0.00011101
HEXACHLOROCYCLOPENTADIE	< 0.48		0		< 1.5	0
HEXACHLOROBENZENE	< 1.57		0		< 1.9	0
DICHLOROBENZOTRIFLUORIDE	< 0.42		0		< 10	0
DIOCTYL PHTHALATE	1.9		0.000171		0.475	4.2784E-05
DIETHYL PHTHALATE	< 0.63		0		< 2.2	0.00013211

Notes: J= Estimated; R = Rejected Result

17-Nov-00

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	09/18/00		09/18/00			
24 HOUR FLOW IN MGD	0.01080		0.01080			
PHENANTHRENE						
MONOCHLOROPHENOL	< 0.88		0		< 3.3	0
DICHLOROPHENOL	< 0.97		0		< 2.7	0
MONOCHLOROCRESOL	< 3.24		0		< 3.24	0
TRICHLOROPHENOL	< 1.74		0		< 10	0
PENTACHLOROPHENOL	< 0.79		0.000000		< 3.6	0.000000
HEXACHLOROCYCLOHEXANES	0.183		1.6483E-05		0.182	0.000091
PCB'S						
ENDOSULFAN I + ENDOSULFAN II + ENDOSULFAN SULFATE						
MIREX						
DECHLORANE PLUS						
HEPTACHLOR + HEPTACHLOR EPOXIDE						

Notes: J= Estimated; R = Rejected Result

PART II
COMPLIANCE MONITORING

INDUSTRY NAME: OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT FACILITY

PERMIT NO. 44

FOURTH QUARTER 2000

VIOLATION PARAMETER	DATE	FLOW (MGD)	SAMPLE POINT LOCATION	ACTUAL DISCHARGE	PERMIT LIMIT	TYPE LIMIT VIOLATED **
NO VIOLATIONS						

NOTE:

* - ACTUAL DISCHARGE - LIST ACTUAL ANALYTICAL RESULTS AND APPROPRIATE UNITS

** - TYPE LIMIT VIOLATED - LIST TYPE:

A.A. = ANNUAL AVERAGE

D.M. = DAILY MAXIMUM

L.L. = LOCAL LIMITS (ORDINANCE 250.5.1)

OCCIDENTAL CHEMICAL CORPORATION

LOVE CANAL LEACHATE TREATMENT FACILITY

PERMIT NO. 44

FOURTH QUARTER 2000

DATE	FLOW(GPD)		
08/01/00	19,800		
08/02/00	20,000		
08/03/00	11,800		
08/04/00	12,700		
08/07/00	48,100		
08/08/00	13,300		
08/09/00	51,200		
08/10/00	25,900		
08/11/00	22,100		
08/14/00	46,200		
08/15/00	9,400		
08/16/00	11,000		
08/17/00	9,600		
08/18/00	10,200		
08/21/00	16,400		
08/22/00	15,300		
08/23/00	10,200		
08/24/00	12,100		
08/25/00	19,200		
08/28/00	22,900		
08/29/00	14,100		
08/30/00	9,000		
08/31/00	6,600		
SUBTOTAL	**437,100**		
09/01/00	9,000		
09/05/00	7,200		
09/06/00	25,600		
09/07/00	10,300		
09/08/00	5,000		
09/11/00	18,300		
09/12/00	17,500		
09/13/00	8,100		
09/14/00	11,400		
09/15/00	8,600		**MGD**
09/18/00	10,800	***Quarterly sampling***	0.0108
09/19/00	7,900		
09/20/00	2,500		
09/21/00	2,400		
09/22/00	2,300		
09/25/00	18,900		
09/26/00	15,400		
09/27/00	8,500		
09/28/00	7,600		
09/29/00	12,300		
SUBTOTAL	**209,600**		
10/02/00	26,900		
10/03/00	4,100		
10/04/00	12,200		
10/05/00	13,400		
10/06/00	10,800		
10/09/00	30,200		
10/10/00	8,400		
10/11/00	2,600		
10/12/00	600		
10/13/00	31,400		
10/16/00	19,100		
10/17/00	8,400		
10/18/00	8,800		
10/19/00	6,700		
10/20/00	10,800		
10/23/00	18,100		
10/24/00	5,300		
10/25/00	6,700		
10/30/00	32,200		
10/31/00	7,600		
SUBTOTAL	**264,300**		

CHAIN OF CUSTODY 'CORD

Miller Springs Holdings
Occidental Chemical

SHIP TO (LABORATORY NAME):
H2M LABS, INC
575 BROAD HOLLOW ROAD
MELVILLE NY 11747

REF NO: 09954
LOVE CANAL
QTY SEWER SAMPLE

SAMPLE RESULTS REPORTING TO:
Susan Scrocchi Fax: (716) 297-2265 Phone: (716)297-2160
Mailing Address: CRA 2055 Niagara Falls Blvd. Suite Three
NIAGARA FALLS, NY 14304

FACILITY LOCATION:
LOVE CANAL

SAMPLER(S) (PRINT NAME)
TBLACKMON/LKOSHA

SIGNATURE Tracy Blackmon
516/694-3040 ext.1206

DATE	TIME	SAMPLE NO.	COMPOSITE	GRAB	OTHER	CONTAINER TYPE	CONTAINERS NO. of	VOA's	PHENOL	SEMI VOLATIL	PESTICIDES	TSS	SOC				PRESERVED	REMARKS
09/18/00	0830	1A-E-E900		X		*	1	1									HCL	ALL SAMPLES STORED
"	0830	1B-E-E900					1	1										AND SHIPPED IN COOLER(S)
"	0930	1C-E-E900					1	1									-	WITH ICE/ICE PACKS AND
"	0930	1D-E-E900					1	1									-	KEPT AT 4c
"	1030	1E-E-E900					1	1									-	
"	1030	1F-E-E900					1	1										
"	11:30	1G-E-E900					1	1									H2SO4	
"	11:30	1H-E-E900					1	1										
"	11:30	2-E-E900					1		1									COMBINE ALL 8 VOA's PER
"	11:30	3A-E-E900					1			1							HCL	EACH SET TO MAKE IT
"	11:30	3B-E-E900					1			1								A COMPSITE SAMPLE
"	11:30	4A-E-E900					1				1						-	FOR EACH SET
"	11:30	4B-E-E900					1				1						-	
"	11:30	5-E-E900					1					1					-	40 ml/g
"	11:30	6-E-E900					1						1				H2SO4	1 Liter AG
"		TRIPSEWER-E900			X	*	1	1										1 Liter AG
		Beginning - 9458400																1 Liter AG
		END- 9469200																4oz. P
		10,800																4ozAG
																		Trip Blank Has
																		Air space
		TOTAL NUMBER OF CONTAINERS					16											

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
Tracy Blackmon	9/18/2000	1500			
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME

BOTTLE TYPES : G = GLASS ; AG = AMBER GLASS ; P = HPDE (PLASTIC) ; SAG = SILANIZED AMBER GLASS

METHOD OF SHIPMENT : SAMPLE TEAM: TBLACKMON/LKOSHA CHAIN OF CUSTODY NO: LC918001

MILLER SPRINGS REMEDIATION MANAGEMENT INC.
805 – 97th Street, Niagara Falls, NY 14304
A Subsidiary of Occidental Petroleum Corporation

WNY Operation Office

Telephone (716) 283-0112
Fax (716) 283-2856

February 27, 2001

Mr. Albert C. Zaepfel
Industrial Monitoring Coordinator
NIAGARA FALLS WASTEWATER FACILITIES
P.O. Box 69
Niagara Falls, NY 14302-0069

RE: First Quarter 2001 Sampling
Occidental Chemical Corporation, Love Canal Leachate Treatment Facility
Permit No. 44

Dear Mr. Zaepfel:

Enclosed are the monitoring results and discharge report for the First Quarter of 2001.

When concentrations are reported as < or not detected at quantitation levels, calculated mass discharges are listed and included as zero in calculated averages. Similarly one or more < concentrations is averaged with other analyses as zero. When all data averaged are ND, the highest detection level is noted, i.e., <10, <5, <8 is shown as <10.

Should you have any questions, please contact me at 283-0112.

Sincerely yours,

Donald Tubridy

CC:	G.J. Rider, Jr., P.E.	NYSDEC, Albany	S. Parkhill	MSRM
	P. Buechi	NYSDEC, Region 9	D. Crockett	MSRM
	B. Downie	MSRM		
	J. Westendorf	Oxy Tower		

BDD LC-SW-1Q-2001cv

CITY OF NIAGARA FALLS
DEPARTMENT OF WASTEWATER FACILITIES
ENFORCEMENT DIVISION

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PERMIT NO. 44 QUARTER FIRST - 2001

INDUSTRY NAME OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT
FACILITY

Pursuant to federal pretreatment reporting requirements and the City Sewer Use Ordinance Chapter 250, Significant Industrial Users shall submit periodic self-monitoring and compliance reports. Such reports shall be submitted using this form, according to the following schedule:

Quarterly	-	1st Quarter by February 28th
	-	2nd Quarter by May 31st
	-	3rd Quarter by August 31st
	-	4th Quarter by November 30th
Semi - Annual	-	by February 28th
		AND
	-	by August 31st

Each section of this report form shall be filled out for those parameters listed in Section "G" of the company's Wastewater Discharge Permit. The analysis results must be reported in both concentration and mass. In addition, the calculated annual average load (lbs./day) for each pollutant shall also be reported.

The samples shall be collected at the monitoring points identified in the user permit. Identification of those points in this report should be as listed on Page two (2) of the user permit.

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PAGE 2

PART II of the report is the Compliance Monitoring section. The user is obligated to determine if the analysis results indicate compliance or non-compliance. All violations noted should be brought to the City's attention immediately upon noting and should also be reported in this section. The analysis result should be compared against all applicable federal, state and local standards and limitations. If no violations are noted then "NO VIOLATIONS" should appear on the report.

Pursuant to 40 CFR Part 403.12 g of the federal standards, all violations noted must be followed up by a sample recollect/analysis and the results submitted to the City within thirty (30) days of first becoming aware of the violation.

Pursuant to 40 CFR Part 403.12 g , all Periodic Self-Monitoring Reports must be signed by a "responsible company official" certifying the following statement.

> 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 assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who mange 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.

Signed: _____ Date: 2/27/01

Donald Tubridy
Site Manager

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS mg / L		RESULTS LBS / DAY		ANNUAL AVERAGE mg / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	12/19/00		12/19/00			
24 HOUR FLOW IN MGD	0.05910		0.05910		0.03980	(MGD)
TOTAL SUSPENDED SOLIDS	4.4		2.17		8.900	2.68
SOLUBLE ORGANIC CARBON	1.8		0.38		5.034	0.85
TOTAL PHOSPHOROUS						
TOTAL PHENOL	< 0.005		0.0000		0.003	0.0006
OIL AND GREASE						
CADMIUM						
CHROMIUM						
COPPER						
LEAD						
MERCURY						
NICKEL						
ZINC						
ARSENIC						
BERYLLIUM						
BARIUM						
TOTAL CYANIDE						
pH (STANDARD UNITS)						
RESIDUAL CHLORINE						
SODIUM CHLORIDE						

Notes: J= Estimated; R = Rejected Result

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) MS#1 - 97th Street

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	12/19/00		12/19/00			
24 HOUR FLOW IN MGD	0.0591		0.0591			
BENZENE	< 0.2		0		< 5.250	0.0009045
CARBON TETRACHLORIDE	< 0.5		0		< 0.9	0
CHLORODIBROMOMETHANE	< 0.2		0		< 0.65	0
MONOCHLOROBENZENE	< 0.5		0		< 4.650	0.0007829
DICHLOROBROMOMETHANE	< 0.2		0		< 0.4	0
CHLOROFORM	< 0.2		0		< 0.31	0
1,1 - DICHLOROETHYLENE	< 0.5		0		< 0.54	0
1,2 - DICHLOROETHYLENE	< 0.6		0		< 0.925	0.0002995
BROMOFORM	< 0.3		0		< 0.52	0
DICHLOROPROPYLENES	< 0.2		0		< 0.65	0
ETHYLBENZENE	< 0.9		0		< 1	0
1,1,2,2 - TETRACHLOROETHANE	< 1		0		< 0.275	0.0001269
TETRACHLOROETHYLENE	< 2		0		< 1	0
TOLUENE	< 0.5		0		< 7.450	0.0015417
1,1,1 - TRICHLOROETHANE	< 0.5		0		< 0.52	0
1,1,2 - TRICHLOROETHANE	< 0.3		0		< 0.155	1.396E-05
TRICHLOROETHYLENE	< 0.5		0		< 0.165	8.692E-05
METHYLENE CHLORIDE	< 0.4		0		< 1.5	0
MONOCHLOROTOLUENES	< 10		0		< 10	0
MONOCHLOROBENZOTRIFLUROIDE	< 10		0		< 10	0
VINYL CHLORIDE	< 0.4		0		< 0.200	1.801E-05
TETRAHYDRAFURAN						
XYLENE						

Notes: J= Estimated; R = Rejected Result

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) MS#1 - 97th Street

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	12/19/00		12/19/00			
24 HOUR FLOW IN MGD	0.05910		0.05910			
DIMETHYL PHTHALATE	< 0.83		0		< 0.81	0
BUTYL BENZYL PHTHALATE	< 1.6		0		< 0.87	0
DIBUTYL PHTHALATE	< 1.7		0		< 0.275	2.477E-05
NITROSODIPHENYLAMINE	< 1.1		0		< 1.5	0
DICHLOROBENZENES	< 0.85		0		< 1.13	0
DICHLOROTOLUENE	< 1.2		0		< 2.4	0
ACENAPHTHENE	< 0.69		0		< 0.58	0
FLUORANTHENE	< 0.52		0		< 1.6	0
CHRYSENE	< 0.44		0		< 4.5	0
NAPHTHALENE	< 0.47		0		< 0.44	0
BENZO (a) ANTHRACENE	< 1.6		0		< 1.33	0
PYRENE	< 0.59		0		< 0.7	0
TRICHLOROBENZENE	< 0.64		0		< 0.350	0.0001766
TRICHLOROTOLUENE	< 1		0		< 1.3	0
HEXACHLOROBUTADIENE	< 0.57		0		< 1.31	0
TETRACHLOROBENZENE	< 0.7		0		< 0.275	0.00011101
HEXACHLOROCYCLOPENTADIE	< 0.21		0		< 1.5	0
HEXACHLOROBENZENE	< 0.39		0		< 1.57	0
DICHLOROBENZOTRIFLUORIDE	< 0.42		0		< 0.84	0
DIOCTYL PHTHALATE	< 1.2		0		< 0.475	4.2784E-05
DIETHYL PHTHALATE	< 0.85		0		< 2.2	0.00013211

Notes: J= Estimated; R = Rejected Result

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	12/19/00		12/19/00			
24 HOUR FLOW IN MGD	0.05910		0.05910			
PHENANTHRENE						
MONOCHLOROPHENOL	< 0.8		0		< 0.88	0
DICHLOROPHENOL	< 0.85		0		< 0.97	0
MONOCHLOROCRESOL	< 0.96		0		< 3.24	0
TRICHLOROPHENOL	< 1.1		0		< 1.74	0
PENTACHLOROPHENOL	< 0.49		0.000000		< 0.82	0.000000
HEXACHLOROCYCLOHEXANES	0.196		9.6607E-05		0.228	0.000115
PCB'S						
ENDOSULFAN I + ENDOSULFAN II + ENDOSULFAN SULFATE						
MIREX						
DECHLORANE PLUS						
HEPTACHLOR + HEPTACHLOR EPOXIDE						

Notes: J= Estimated; R = Rejected Result

PART II
COMPLIANCE MONITORING

INDUSTRY NAME: OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT FACILITY

PERMIT NO. 44

FIRST QUARTER 2001

VIOLATION PARAMETER	DATE	FLOW (MGD)	SAMPLE POINT LOCATION	ACTUAL DISCHARGE	PERMIT LIMIT	TYPE LIMIT VIOLATED **
NO VIOLATIONS						

NOTE:

* - ACTUAL DISCHARGE - LIST ACTUAL ANALYTICAL RESULTS AND APPROPRIATE UNITS

** - TYPE LIMIT VIOLATED - LIST TYPE:

A.A. = ANNUAL AVERAGE

D.M. = DAILY MAXIMUM

L.L. = LOCAL LIMITS (ORDINANCE 250.5.1)

OCCIDENTAL CHEMICAL CORPORATION

LOVE CANAL LEACHATE TREATMENT FACILITY

PERMIT NO. 44

FIRST QUARTER 2001

DATE	FLOW(GPD)		
11/02/00	10,300		
11/06/00	27,700		
11/07/00	4,100		
11/08/00	8,800		
11/09/00	8,200		
11/10/00	5,900		
11/13/00	6,400		
11/14/00	10,300		
11/16/00	24,000		
11/17/00	2,800		
11/20/00	22,700		
11/21/00	5,800		
11/22/00	6,500		
11/27/00	48,700		
11/28/00	20,700		
11/29/00	14,400		
11/30/00	23,600		
SUBTOTAL	**250,900**		
12/01/00	7,700		
12/04/00	19,200		
12/06/00	24,800		
12/07/00	11,000		
12/08/00	18,700		
12/11/00	17,000		
12/12/00	16,400		
12/13/00	41,200		
12/14/00	20,800		
12/15/00	11,900		
12/18/00	88,200		**MGD**
12/19/00	59,100	***Quarterly sampling***	0.0591
12/20/00	88,800		
12/22/00	24,400		
12/27/00	37,500		
12/28/00	23,400		
12/29/00	12,500		
SUBTOTAL	**522,600**		
01/02/01	26,600		
01/03/01	9,400		
01/04/01	17,500		
01/08/01	16,000		
01/09/01	12,800		
01/10/01	7,200		
01/11/01	9,100		
01/15/01	24,600		
01/16/01	15,900		
01/17/01	31,900		
01/18/01	36,500		
01/19/01	15,400		
01/22/01	37,400		
01/23/01	12,100		
01/24/01	7,200		
01/25/01	7,400		
01/26/01	10,600		
01/29/01	21,100		
01/30/01	24,300		
01/31/01	53,900		
SUBTOTAL	**396,900**		

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	This is the interim sheet for															
2	the 2nd. quarter. The data															
3	source is the CRA and the															
4	Q&E sheets. This data is linked to pg 3 - pg 6.			2nd Quarter 2000			3rd Quarter 2000			4th Quarter 2000			1st Quarter 2001		Annual Average	
5	SAMPLE DATE			03/21/00			06/19/00			09/18/00			12/19/00			
6	FLOW (MGD)			0.02880			0.06050			0.01080			0.05910		0.03980	
7	N/A= Not applicable															
8	PAGE 2 Acid extractables			ug/L	lb/D		ug/L	lb/D		ug/L	lb/D		ug/L	lb/D	ppb	lb/D
9	Monochlorophenol		<	0.45	0	<	0.45	0	<	0.88	0	<	0.8	0	0.88	0.000
10	Dichlorophenol		<	0.52	0	<	0.85	0	<	0.97	0	<	0.9	0	0.97	0.000
11	Monochlorocresol		<	1.6	0	<	1.6	0	<	3.24	0	<	1.0	0	3.24	0.000
12	Trichlorophenol		<	1.6	0	<	1.6	0	<	1.74	0	<	1.1	0	1.74	0.000
13	Pentachlorophenol		<	0.82	0	<	0.82	0.00000	<	0.79	0.00000	<	0.49	0	0.82	0.000
14																
15	PAGE 3 Base Neutrals														ppb	lb/D
16	Dimethyl Phthalate		<	0.81	0	<	0.81	0	<	0.45	0	<	0.8	0	0.81	0.000
17	Butyl Benzyl Phthalate		<	0.68	0	<	0.68	0	<	0.87	0	<	1.6	0	0.87	0.000
18	Dibutyl Phthalate		<	0.82	0	<	0.82	0		1.1	9.9E-05	<	1.7	0	0.275	0.000
19	Nitrosodiphenylamine		<	1.5	0	<	1.5	0	<	0.36	0	<	1.1	0	1.5	0.000
20	Dichlorobenzenes		<	0.6	0	<	0.6	0	<	1.13	0	<	0.9	0	1.13	0.000
21	Dichlorotoluene		<	2.4	0	<	1.2	0	<	1.2	0	<	1.2	0	2.4	0.000
22	Acenapthalene		<	0.58	0	<	0.58	0	<	0.49	0	<	0.7	0	0.58	0.000
23	Fluoranthene		<	1.6	0	<	1.6	0	<	0.57	0	<	0.5	0	1.6	0.000
24	Chrysene		<	4.5	0	<	0.45	0	<	1.55	0	<	0.4	0	4.5	0.000
25	Napthalene		<	0.44	0	<	0.44	0	<	0.35	0	<	0.5	0	0.44	0.000
26	Benzo(a)anthracene		<	0.53	0	<	0.53	0	<	1.33	0	<	1.6	0	1.33	0.000
27	Pyrene		<	0.7	0	<	0.7	0	<	0.57	0	<	0.6	0	0.7	0.000
28	Trichlorobenzene		<	0.42	0		1.4	0.00071	<	0.87	0	<	0.6	0	0.350	0.000
29	Trichlorotoluene		<	1.3	0	<	0.64	0	<	0.64	0	<	1.0	0	1.3	0.000
30	Hexachlorobutadiene		<	0.39	0	<	0.39	0	<	1.31	0	<	0.6	0	1.31	0.000
31	Tetrachlorobenzene		<	1.4	0		1.1	0.00044	<	0.7	0	<	0.7	0	0.275	0.000
32	Hexachlorobenzene		<	0.88	0	<	0.88	0	<	1.57	0	<	0.4	0	1.57	0.000
33	Dichlorobenzotrifluoride		<	0.84	0	<	0.42	0	<	0.42	0	<	0.4	0	0.84	0.000
34	Phenanthrene															
35	Hexachlorocyclopentadiene		<	1.5	0	<	1.5	0	<	0.48	0	<	0.2	0	1.5	0.000
36	Dioctyl phthalate		<	2.5	0	<	1.7	0		1.9	0.00017	<	1.2	0	0.475	0.000
37	Diethyl phthalate		<	2.2	0.00053	<	1.1	0	<	0.63	0	<	0.9	0	2.2	0.000
38																
39	PAGE 4 Volatiles			ppb	lb/D		ppb	lb/D		ppb	lb/D		ppb	lb/D	ppb	lb/D
40	Benzene			11.5	0.00276	<	0.2	0		9.5	0.00086	<	0.2	0	5.250	0.001
41	Carbon Tetrachloride		<	0.58	0	<	0.9	0	<	0.58	0	<	0.5	0	0.9	0.000
42	Chlorodibromomethane		<	0.65	0	<	0.2	0	<	0.65	0	<	0.2	0	0.65	0.000
43	Monochlorobenzene			9.7	0.00233	<	0.8	0		8.9	0.0008	<	0.5	0	4.650	0.001
44	Dichlorobromomethane		<	0.37	0	<	0.4	0	<	0.37	0	<	0.2	0	0.4	0.000
45	Chloroform		<	0.31	0	<	0.2	0	<	0.31	0	<	0.2	0	0.31	0.000
46	1,1-Dichloroethene		<	0.54	0	<	0.4	0	<	0.54	0	<	0.5	0	0.54	0.000
47	1,2-Dichloroethene		<	3.6	0.00086	<	0.6	0		3.7	0.00033	<	0.6	0	0.925	0.000
48	Bromoform		<	0.52	0	<	0.2	0	<	0.52	0	<	0.3	0	0.52	0.000
49	Dichloropropylenes		<	0.65	0	<	0.2	0	<	0.65	0	<	0.2	0	0.65	0.000
50	Ethylbenzene		<	0.67	0	<	1	0	<	0.67	0	<	0.9	0	1	0.000
51	Tetrachloroethanes		<	1.7	0.00041	<	1	0		1.1	9.9E-05	<	1.0	0	0.275	0.000127
52	Tetrachloroethylene		<	0.66	0	<	1	0	<	0.66	0	<	2.0	0	1	0.000
53	Toluene			23.2	0.00557	<	0.5	0		6.6	0.00059	<	0.5	0	7.450	0.002
54	1,1,1-Trichloroethane		<	0.52	0	<	0.4	0	<	0.52	0	<	0.5	0	0.52	0.000
55	1,1,2-Trichloroethane		<	0.47	0	<	0.4	0		0.62	5.6E-05	<	0.3	0	0.155	0.000
56	Trichloroethylene		<	1.2	0.00029	<	0.5	0		0.66	5.9E-05	<	0.5	0	0.165	0.000
57	Methylene Chloride		<	0.42	0	<	0.4	0	<	1.5	0	<	0.4	0	1.5	0.000
58	Monochlorotoluene		<	10	0	<	10	0	<	10	0	<	10.0	0	10	0.000
59	Monochlorobenzotrifluoride		<	10	0	<	10	0	<	10	0	<	10.0	0	10	0.000
60	Vinyl chloride		<	0.77	0	<	0.3	0		0.8	7.2E-05	<	0.4	0	0.200	0.000
61																
62	PAGE 5 Conventionals			mg/l	lb/D		mg/l	lb/D		mg/l	lb/D		mg/l	lb/D	ppb	lb/D
63	TSS			12	2.88		10	5.05		6.8	0.61		4.4	2.17	8.900	2.6773
64	SOC			2.3	0.55		5.8354	1.23		6	1.26		1.8	0.38	5.034	0.8545
65	Phenol, Total (mg)			0.005	0.00		0.005	0.00	<	0.005	0.00	<	0.005	0.00	0.003	0.0006
66																
67	PAGE 6 Pesticides			mg/l	lb/D		mg/l	lb/D		mg/l	lb/D		mg/l	lb/D	ppb	lb/D
68	Hexachlorocylohexane		<	0.3059	0.00		0.544	0.00		0.183	0.00		0.196	0.00	0.228	0.000115
69																

70 Notes: J= Estimated; R = Rejected Result

71 * 3rd Quarter 2000 Soluble Organic Carbon (SOC) Re-sample on 07/07/00, initial result rejected.

CHAIN OF CUSTODY RECORD

Miller Springs Remediation
Occidental Chemical

SHIP TO (LABORATORY NAME):
H2M LABS, INC
575 BROAD HOLLOW ROAD
MELVILLE NY 11747

REF NO: 09954
LOVE CANAL
QTY SEWER SAMPLE

SAMPLE RESULTS REPORTING TO:
Susan Scrocchi Fax: (716) 297-2265 Phone: (716)297-2160
Mailing Address: CRA 2055 Niagara Falls Blvd. Suite Three
NIAGARA FALLS, NY 14304

FACILITY LOCATION:
LOVE CANAL

SAMPLER(S) (PRINT NAME)
TBLACKMON/LKOSHA

SIGNATURE L. Kosha
516/694-3040 ext.1206

DATE	TIME	SAMPLE NO.	COMPOSITE	GRAB	OTHER	CONTAINER TYPE	CONTAINERS NO. of	VOA's	PHENOL	SEMI VOLATILES BNA	PESTICIDES	TSS	SOC				PRESERVED	REMARKS
12/19/00	15:00	INTER-1200		X		*	15	8	1	2	2	1	1				HCL	ALL SAMPLES STORED
																		AND SHIPPED IN COOLER(S)
12/19/00	15:00	INF-1200		X			9	2	1	2	2	1	1	PW			-	WITH ICE/ICE PACKS AND
																	-	KEPT AT 4c
12/19/00	15:00	EFF-1200		X			15	8	1	2	2	1	1				-	
12/19/00	15:00	102ND-1200		X			9	2	1	2	2	1	1	PW			H2SO4	
																		COMBINE ALL 8 VOA's PER
																	HCL	EACH SET TO MAKE IT
																		A COMPSITE SAMPLE
																	-	FOR EACH SET
																	-	
																	-	40 ml/g
																	H2SO4	1 Liter AG
12/19/00		LCSEWERTRIP1200			X	*	2	2										1 Liter AG
	07:00	Start Flow = 10339100																1 Liter AG
	15:00	Finish Flow = 10398200																4oz. P
																		4ozAG
							50	PW										
		TOTAL NUMBER OF CONTAINERS																

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
L. Kosha	12/19/00	15:30			
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME

BOTTLE TYPES : G = GLASS ; AG = AMBER GLASS ; P = HPDE (PLASTIC) ; SAG = SILANIZED AMBER GLASS

METHOD OF SHIPMENT : SAMPLE TEAM: TBLACKMON/LKOSHA CHAIN OF CUSTODY NO: LC1219001

O. King
AB
BS

MILLER SPRINGS REMEDIATION MANAGEMENT INC. File

805 – 97th Street, Niagara Falls, NY 14304

A Subsidiary of Occidental Petroleum Corporation

WNY Operation Office

Telephone (716) 283-0112
Fax (716) 283-2856

May 24, 2001

RECEIVED
MAY 2 9 2001
NYSDEC REG. 9
FOIL
X REL UNREL

Mr. Albert C. Zaepfel
Industrial Monitoring Coordinator
NIAGARA FALLS WASTEWATER FACILITIES
P.O. Box 69
Niagara Falls, NY 14302-0069

RE: Second Quarter 2001 Sampling
Occidental Chemical Corporation, Love Canal Leachate Treatment Facility
Permit No. 44

Dear Mr. Zaepfel:

Enclosed are the monitoring results and discharge report for the Second Quarter of 2001.

When concentrations are reported as < or not detected at quantitation levels, calculated mass discharges are listed and included as zero in calculated averages. Similarly one or more < concentrations is averaged with other analyses as zero. When all data averaged are ND, the highest detection level is noted, i.e., <10, <5, <8 is shown as <10.

Should you have any questions, please contact me at 283-0112.

Sincerely yours,

Donald Tubridy

CC:	G.J. Rider, Jr., P.E.	NYSDEC, Albany
	P. Buechi	NYSDEC, Region 9
	B. Downie	MSRM
	J. Westendorf	Oxy Tower

BDD LC-SW-2Q-2001cv

CITY OF NIAGARA FALLS
DEPARTMENT OF WASTEWATER FACILITIES
ENFORCEMENT DIVISION

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PERMIT NO. 44 QUARTER SECOND - 2001

INDUSTRY NAME OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT
FACILITY

Pursuant to federal pretreatment reporting requirements and the City Sewer Use Ordinance Chapter 250, Significant Industrial Users shall submit periodic self-monitoring and compliance reports. Such reports shall be submitted using this form, according to the following schedule:

Quarterly	-	1st Quarter by February 28th
	-	2nd Quarter by May 31st
	-	3rd Quarter by August 31st
	-	4th Quarter by November 30th
Semi - Annual	-	by February 28th
		AND
	-	by August 31st

Each section of this report form shall be filled out for those parameters listed in Section "G" of the company's Wastewater Discharge Permit. The analysis results must be reported in both concentration and mass. In addition, the calculated annual average load (lbs./day) for each pollutant shall also be reported.

The samples shall be collected at the monitoring points identified in the user permit. Identification of those points in this report should be as listed on Page two (2) of the user permit.

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PAGE 2

PART II of the report is the Compliance Monitoring section. The user is obligated to determine if the analysis results indicate compliance or non-compliance. All violations noted should be brought to the City's attention immediately upon noting and should also be reported in this section. The analysis result should be compared against all applicable federal, state and local standards and limitations. If no violations are noted then "NO VIOLATIONS" should appear on the report.

Pursuant to 40 CFR Part 403.12 g of the federal standards, all violations noted must be followed up by a sample recollect/analysis and the results submitted to the City within thirty (30) days of first becoming aware of the violation.

Pursuant to 40 CFR Part 403.12 g , all Periodic Self-Monitoring Reports must be signed by a "responsible company official" certifying the following statement.

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 assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who mange 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.

Signed: _____ Date:

Donald Tubridy
Site Manager

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	This is the interim sheet															
2	for the 2nd. quarter. The															
3	data source is the CRA															
4	and the Q&E sheets. This			3rd Quarter 2000			4th Quarter 2000			1st Quarter 2001			2nd Quarter 2001		Annual Average	
5	data is linked to pg 3 - pg															
5	SAMPLE DATE			06/19/00			09/18/00			12/19/00			03/19/01			
6	FLOW (MGD)			0.06050			0.01080			0.05910			0.02370		0.03853	
7	N/A= Not applicable															
8	PAGE 2 Acid extractables			ug/L	lb/D		ug/L	lb/D		ug/L	lb/D		ug/L	lb/D	ppb	lb/D
9	Monochlorophenol		<	0.45	0	<	0.88	0	<	0.8	0	<	10.0	0	0.88	0.000
10	Dichlorophenol		<	0.85	0	<	0.97	0	<	0.9	0	<	10.0	0	0.97	0.000
11	Monochlorocresol		<	1.6	0	<	3.24	0	<	1.0	0	<	10.0	0	3.24	0.000
12	Trichlorophenol		<	1.6	0	<	1.74	0	<	1.1	0	<	25.0	0	1.74	0.000
13	Pentachlorophenol		<	0.82	0.00000	<	0.79	0.00000	<	0.49	0	<	25.0	0	0.82	0.000
14																
15	PAGE 3 Base Neutrals														ppb	lb/D
16	Dimethyl Phthalate		<	0.81	0	<	0.45	0	<	0.8	0	<	10.0	0	0.83	0.000
17	Butyl Benzyl Phthalate		<	0.68	0	<	0.87	0	<	1.6	0	<	10.0	0	1.6	0.000
18	Dibutyl Phthalate		<	0.82	0		1.1	9.9E-05	<	1.7	0	<	1.0	0	0.275	0.000
19	Nitrosodiphenylamine		<	1.5	0	<	0.36	0	<	1.1	0	<	10.0	0	1.5	0.000
20	Dichlorobenzenes		<	0.6	0	<	1.13	0	<	0.9	0	<	10.0	0	1.13	0.000
21	Dichlorotoluene		<	1.2	0	<	1.2	0	<	1.2	0	<	10.0	0	1.2	0.000
22	Acenapthalene		<	0.58	0	<	0.49	0	<	0.7	0	<	10.0	0	0.69	0.000
23	Fluoranthene		<	1.6	0	<	0.57	0	<	0.5	0	<	10.0	0	1.6	0.000
24	Chrysene		<	0.45	0	<	1.55	0	<	0.4	0	<	10.0	0	1.55	0.000
25	Napthalene		<	0.44	0	<	0.35	0	<	0.5	0	<	10.0	0	0.47	0.000
26	Benzo(a)anthracene		<	0.53	0	<	1.33	0	<	1.6	0	<	10.0	0	1.6	0.000
27	Pyrene		<	0.7	0	<	0.57	0	<	0.6	0	<	10.0	0	0.7	0.000
28	Trichlorobenzene			1.4	0.00071	<	0.87	0	<	0.6	0	<	10.0	0	0.350	0.000
29	Trichlorotoluene		<	0.64	0	<	0.64	0	<	1.0	0	<	10.0	0	1	0.000
30	Hexachlorobutadiene		<	0.39	0	<	1.31	0	<	0.6	0	<	10.0	0	1.31	0.000
31	Tetrachlorobenzene			1.1	0.00044	<	0.7	0	<	0.7	0	<	10.0	0	0.275	0.000
32	Hexachlorobenzene		<	0.88	0	<	1.57	0	<	0.4	0	<	10.0	0	1.57	0.000
33	Dichlorobenzotrifluoride		<	0.42	0	<	0.42	0	<	0.4	0	<	10.0	0	0.42	0.000
34	Phenanthrene															
35	Hexachlorocyclopentadiene		<	1.5	0	<	0.48	0	<	0.2	0	<	10.0	0	1.5	0.000
36	Dioctyl phthalate		<	1.7	0		1.9	0.00017	<	1.2	0	<	10.0	0	0.475	0.000
37	Diethyl phthalate		<	1.1	0	<	0.63	0	<	0.9	0	<	10.0	0	1.1	0.000
38																
39	PAGE 4 Volatiles			ppb	lb/D		ppb	lb/D		ppb	lb/D		ppb	lb/D	ppb	lb/D
40	Benzene		<	0.2	0		9.5	0.00086	<	0.2	0	<	0.2	0	2.375	0.000
41	Carbon Tetrachloride		<	0.9	0	<	0.58	0	<	0.5	0	<	0.5	0	0.9	0.000
42	Chlorodibromomethane		<	0.2	0	<	0.65	0	<	0.2	0	<	0.2	0	0.65	0.000
43	Monochlorobenzene		<	0.8	0		8.9	0.0008	<	0.5	0	<	0.5	0	2.225	0.000
44	Dichlorobromomethane		<	0.4	0	<	0.37	0	<	0.2	0	<	0.2	0	0.4	0.000
45	Chloroform		<	0.2	0	<	0.31	0	<	0.2	0	<	0.2	0	0.31	0.000
46	1,1-Dichloroethene		<	0.4	0	<	0.54	0	<	0.5	0	<	0.5	0	0.54	0.000
47	1,2-Dichloroethene		<	0.6	0		3.7	0.00033	<	0.6	0	<	0.5	0	0.925	0.000
48	Bromoform		<	0.2	0	<	0.52	0	<	0.3	0	<	0.3	0	0.52	0.000
49	Dichloropropylenes		<	0.2	0	<	0.65	0	<	0.2	0	<	0.2	0	0.65	0.000
50	Ethylbenzene		<	1	0	<	0.67	0	<	0.9	0	<	0.9	0	1	0.000
51	Tetrachloroethanes		<	1	0		1.1	9.9E-05	<	1.0	0	<	0.4	0	0.275	0.000025
52	Tetrachloroethylene		<	1	0	<	0.66	0	<	2.0	0	<	0.4	0	2	0.000
53	Toluene		<	0.5	0		6.6	0.00059	<	0.5	0	<	0.5	0	1.650	0.000
54	1,1,1-Trichloroethane		<	0.4	0	<	0.52	0	<	0.5	0	<	0.5	0	0.52	0.000
55	1,1,2-Trichloroethane		<	0.4	0		0.62	5.6E-05	<	0.3	0	<	0.3	0	0.155	0.000
56	Trichloroethylene		<	0.5	0		0.66	5.9E-05	<	0.5	0	<	0.5	0	0.165	0.000
57	Methylene Chloride		<	0.4	0	<	1.5	0	<	0.4	0	<	0.4	0	1.5	0.000
58	Monochlorotoluene		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
59	Monochlorobenzotrifluoride		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
60	Vinyl chloride		<	0.3	0		0.8	7.2E-05	<	0.4	0	<	0.4	0	0.200	0.000
61																
62	PAGE 5 Conventionals			mg/l	lb/D		mg/l	lb/D		mg/l	lb/D		mg/l	lb/D	ppb	lb/D
63	TSS			10	5.05		6.8	0.61		4.4	2.17	<	4.0	0.00	5.300	1.9567
64	SOC			5.8354	1.23		6	1.26		1.8	0.00		1.5	0.32	3.859	0.7007
65	Phenol, Total (mg)			0.005	0.00	<	0.005	0.00	<	0.005	0.00	<	0.005	0.00	0.001	0.0006
66																
67	PAGE 6 Pesticides			mg/l	lb/D		mg/l	lb/D		mg/l	lb/D		mg/l	lb/D	ppb	lb/D
68	Hexachlorocylohexane			0.544	0.00		0.183	0.00		0.196	0.00	<	0.00005	0.00	0.231	0.000097
69																
70	Notes: J= Estimated; R = Rejected Result															
71	* 3rd Quarter 2000 Soluble Organic Carbon (SOC) Re-sample on 07/07/00, initial result rejected.															

OCCIDENTAL CHEMICAL CORPORATION

LOVE CANAL LEACHATE TREATMENT FACILITY

PERMIT NO. 44

FIRST QUARTER 2001

DATE	FLOW(GPD)		
02/01/01	37,700		
02/02/01	23,900		
02/05/01	41,000		
02/06/01	13,400		
02/07/01	18,400		
02/08/01	10,400		
02/09/01	28,800		
02/12/01	75,300		
02/13/01	59,700		
02/14/01	30,700		
02/15/01	25,900		
02/16/01	26,300		
02/20/01	39,100		
02/21/01	21,200		
02/22/01	12,400		
02/23/01	6,200		
02/26/01	48,300		
02/27/01	31,600		
02/28/01	9,700		
SUBTOTAL	**560,000**		
03/01/01	9,000		
03/05/01	34,500		
03/06/01	5,800		
03/07/01	7,400		
03/08/01	8,500		
03/09/01	8,100		
03/12/01	20,500		
03/13/01	44,100		
03/14/01	54,000		
03/15/01	34,300		
03/16/01	53,300		**MGD**
03/19/01	23,700	***Quarterly sampling***	0.0237
03/20/01	46,000		
03/21/01	59,000		
03/22/01	42,900		
03/23/01	57,700		
03/26/01	59,200		
03/27/01	10,900		
03/28/01	12,900		
03/29/01	12,600		
03/30/01	12,000		
SUBTOTAL	**616,400**		
04/02/01	54,100		
04/03/01	12,300		
04/04/01	9,000		
04/05/01	10,400		
04/06/01	6,400		
04/09/01	38,500		
04/10/01	14,700		
04/11/01	12,500		
04/12/01	24,895		
04/16/01	35,805		
04/17/01	7,900		
04/18/01	14,300		
04/19/01	21,000		
04/20/01	14,500		
04/23/01	18,000		
04/24/01	4,900		
04/25/01	15,300		
04/26/01	2,100		
04/27/01	14,400		
04/30/01	21,300		
SUBTOTAL	**352,300**		

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS mg / L		RESULTS LBS / DAY		ANNUAL AVERAGE mg / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	03/19/01		03/19/01			
24 HOUR FLOW IN MGD	0.02370		0.02370		0.03853	(MGD)
TOTAL SUSPENDED SOLIDS	< 4		0.00		5.300	1.96
SOLUBLE ORGANIC CARBON	1.5		0.32		3.859	0.70
TOTAL PHOSPHOROUS						
TOTAL PHENOL	< 0.005		0.0000		0.001	0.0006
OIL AND GREASE						
CADMIUM						
CHROMIUM						
COPPER						
LEAD						
MERCURY						
NICKEL						
ZINC						
ARSENIC						
BERYLLIUM						
BARIUM						
TOTAL CYANIDE						
pH (STANDARD UNITS)						
RESIDUAL CHLORINE						
SODIUM CHLORIDE						

Notes: J= Estimated; R = Rejected Result

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) MS#1 - 97th Street

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	03/19/01		03/19/01			
24 HOUR FLOW IN MGD	0.0237		0.0237			
BENZENE	< 0.2		0		< 2.375	0.0002139
CARBON TETRACHLORIDE	< 0.5		0		< 0.9	0
CHLORODIBROMOMETHANE	< 0.2		0		< 0.65	0
MONOCHLOROBENZENE	< 0.5		0		< 2.225	0.0002004
DICHLOROBROMOMETHANE	< 0.2		0		< 0.4	0
CHLOROFORM	< 0.2		0		< 0.31	0
1,1 - DICHLOROETHYLENE	< 0.5		0		< 0.54	0
1,2 - DICHLOROETHYLENE	< 0.5		0		< 0.925	8.332E-05
BROMOFORM	< 0.3		0		< 0.52	0
DICHLOROPROPYLENES	< 0.2		0		< 0.65	0
ETHYLBENZENE	< 0.9		0		< 1	0
1,1,2,2 - TETRACHLOROETHANE	< 0.35		0		< 0.275	2.477E-05
TETRACHLOROETHYLENE	< 0.4		0		< 2	0
TOLUENE	< 0.5		0		< 1.650	0.0001486
1,1,1 - TRICHLOROETHANE	< 0.5		0		< 0.52	0
1,1,2 - TRICHLOROETHANE	< 0.3		0		< 0.155	1.396E-05
TRICHLOROETHYLENE	< 0.5		0		< 0.165	1.486E-05
METHYLENE CHLORIDE	< 0.4		0		< 1.5	0
MONOCHLOROTOLUENES	< 10		0		< 10	0
MONOCHLOROBENZOTRIFLUROIDE	< 10		0		< 10	0
VINYL CHLORIDE	< 0.4		0		< 0.200	1.801E-05
TETRAHYDRAFURAN						
XYLENE						

Notes: J= Estimated; R = Rejected Result

22-May-01

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) MS#1 - 97th Street

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	03/19/01		03/19/01			
24 HOUR FLOW IN MGD	0.02370		0.02370			
DIMETHYL PHTHALATE	< 10		0		< 0.83	0
BUTYL BENZYL PHTHALATE	< 10		0		< 1.6	0
DIBUTYL PHTHALATE	< 1		0		< 0.275	2.477E-05
NITROSODIPHENYLAMINE	< 10		0		< 1.5	0
DICHLOROBENZENES	< 10		0		< 1.13	0
DICHLOROTOLUENE	< 10		0		< 1.2	0
ACENAPHTHENE	< 10		0		< 0.69	0
FLUORANTHENE	< 10		0		< 1.6	0
CHRYSENE	< 10		0		< 1.55	0
NAPHTHALENE	< 10		0		< 0.47	0
BENZO (a) ANTHRACENE	< 10		0		< 1.6	0
PYRENE	< 10		0		< 0.7	0
TRICHLOROBENZENE	< 10		0		< 0.350	0.0001766
TRICHLOROTOLUENE	< 10		0		< 1	0
HEXACHLOROBUTADIENE	< 10		0		< 1.31	0
TETRACHLOROBENZENE	< 10		0		< 0.275	0.00011101
HEXACHLOROCYCLOPENTADIE	< 10		0		< 1.5	0
HEXACHLOROBENZENE	< 10		0		< 1.57	0
DICHLOROBENZOTRIFLUORIDE	< 10		0		< 0.42	0
DIOCTYL PHTHALATE	< 10		0		< 0.475	4.2784E-05
DIETHYL PHTHALATE	< 10		0		< 1.1	0

Notes: J= Estimated; R = Rejected Result

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: **44**

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	03/19/01		03/19/01			
24 HOUR FLOW IN MGD	0.02370		0.02370			
PHENANTHRENE						
MONOCHLOROPHENOL	< 10		0		< 0.88	0
DICHLOROPHENOL	< 10		0		< 0.97	0
MONOCHLOROCRESOL	< 10		0		< 3.24	0
TRICHLOROPHENOL	< 25		0		< 1.74	0
PENTACHLOROPHENOL	< 25		0.000000		< 0.82	0.000000
HEXACHLOROCYCLOHEXANES	< 0.00005		0		< 0.231	0.000097
PCB'S						
ENDOSULFAN I + ENDOSULFAN II + ENDOSULFAN SULFATE						
MIREX						
DECHLORANE PLUS						
HEPTACHLOR + HEPTACHLOR EPOXIDE						

Notes: J= Estimated; R = Rejected Result

PART II
COMPLIANCE MONITORING

INDUSTRY NAME: OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT FACILITY

PERMIT NO. 44

FIRST QUARTER 2001

VIOLATION PARAMETER	DATE	FLOW (MGD)	SAMPLE POINT LOCATION	ACTUAL DISCHARGE	PERMIT LIMIT	TYPE LIMIT VIOLATED **
NO VIOLATIONS						

NOTE:

* - ACTUAL DISCHARGE - LIST ACTUAL ANALYTICAL RESULTS AND APPROPRIATE UNITS

** - TYPE LIMIT VIOLATED - LIST TYPE:

A.A. = ANNUAL AVERAGE

D.M. = DAILY MAXIMUM

L.L. = LOCAL LIMITS (ORDINANCE 250.5.1)

CHAIN OF CUSTODY RECORD

Miller Springs Remediation
Occidental Chemical

SHIP TO (LABORATORY NAME):
H2M LABS, INC
575 BROAD HOLLOW ROAD
MELVILLE NY 11747

REF NO: 09954
LOVE CANAL
QTY SEWER SAMPLE

SAMPLE RESULTS REPORTING TO:
Susan Scrocchi Fax: (716) 297-2265 Phone: (716)297-2160
Mailing Address: CRA 2055 Niagara Falls Blvd. Suite Three
NIAGARA FALLS, NY 14304

FACILITY LOCATION:
LOVE CANAL

SAMPLER(S) (PRINT NAME)
TBLACKMON/LKOSHA

SIGNATURE Tony Blackmon
516/694-3040 ext.1206

DATE	TIME	SAMPLE NO.	COMPOSITE	GRAB	OTHER	CONTAINER TYPE	CONTAINERS NO. of	VOA's	PHENOL	SEMI VOLATIL	PESTICIDES	TSS	SOC				PRESERVED	REMARKS
03/19/01	1200	INTER-301		X		*	15	8	1	2	2	1	1				HCL	ALL SAMPLES STORED
																		AND SHIPPED IN COOLER(S)
03/19/01	1200	INF-301		X			9	2	1	2	2	1	1					
03/19/01	1200	102ND-301		X			9	2	1	2	2	1	1				-	WITH ICE/ICE PACKS AND
																	-	KEPT AT 4c
03/19/01	1200	EFF-301		X			15	8	1	2	2	1	1				-	
																	H2SO4	
																		COMBINE ALL 8 VOA's PER
																	-	FOR EACH SET
																	-	
																	-	40 ml/g
																	H2SO4	1 Liter AG
03/19/01		LCQTYTP 31901			X	*	2	2										1 Liter AG
		Beginning 11821200																1 Liter AG
		Ending 11844900																4oz. P
																		4ozAG
		TOTAL NUMBER OF CONTAINERS					50											

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
Tony Blackmon	3-19-2001	1300			
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME

BOTTLE TYPES : G = GLASS ; AG = AMBER GLASS ; P = HPDE (PLASTIC) ; SAG = SILANIZED AMBER GLASS

METHOD OF SHIPMENT : SAMPLE TEAM: TBLACKMON/LKOSHA CHAIN OF CUSTODY NO: LC319011

D. King D
AB
BS
File

MILLER SPRINGS REMEDIATION MANAGEMENT INC.
805 – 97th Street, Niagara Falls, NY 14304
A Subsidiary of Occidental Petroleum Corporation

WNY Operation Office

Telephone (716) 283-0112
Fax (716) 283-2856

August 26, 2001

Mr. Albert C. Zaepfel
Industrial Monitoring Coordinator
NIAGARA FALLS WASTEWATER FACILITIES
P.O. Box 69
Niagara Falls, NY 14302-0069

RE: Third Quarter 2001 Sampling
Occidental Chemical Corporation, Love Canal Leachate Treatment Facility
Permit No. 44

Dear Mr. Zaepfel:

Enclosed are the monitoring results and discharge report for the Third Quarter of 2001.

When concentrations are reported as < or not detected at quantitation levels, calculated mass discharges are listed and included as zero in calculated averages. Similarly one or more < concentrations is averaged with other analyses as zero. When all data averaged are ND, the highest detection level is noted, i.e., <10, <5, <8 is shown as <10.

Should you have any questions, please contact me at 283-0112.

Sincerely yours,

Donald Tubridy

CC:	G.J. Rider, Jr., P.E.	NYSDEC, Albany
	P. Buechi	NYSDEC, Region 9
	B. Downie	MSRM
	J. Westendorf	Oxy Tower

BDD LC-SW-3Q-2001cv

CITY OF NIAGARA FALLS
DEPARTMENT OF WASTEWATER FACILITIES
ENFORCEMENT DIVISION

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PERMIT NO. 44 QUARTER THIRD - 2001

INDUSTRY NAME OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT
FACILITY

Pursuant to federal pretreatment reporting requirements and the City Sewer Use Ordinance Chapter 250, Significant Industrial Users shall submit periodic self-monitoring and compliance reports. Such reports shall be submitted using this form, according to the following schedule:

Quarterly	-	1st Quarter by February 28th
	-	2nd Quarter by May 31st
	-	3rd Quarter by August 31st
	-	4th Quarter by November 30th

Each section of this report form shall be filled out for those parameters listed in Section "G" of the company's Wastewater Discharge Permit. The analysis results must be reported in both concentration and mass. In addition, the calculated annual average load (lbs./day) for each pollutant shall also be reported.

The samples shall be collected at the monitoring points identified in the user permit. Identification of those points in this report should be as listed on Page two (2) of the user permit.

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PAGE 2

PART II of the report is the Compliance Monitoring section. The user is obligated to determine if the analysis results indicate compliance or non-compliance. All violations noted should be brought to the City's attention immediately upon noting and should also be reported in this section. The analysis result should be compared against all applicable federal, state and local standards and limitations. If no violations are noted then "NO VIOLATIONS" should appear on the report.

Pursuant to 40 CFR Part 403.12 g of the federal standards, all violations noted must be followed up by a sample recollect/analysis and the results submitted to the City within thirty (30) days of first becoming aware of the violation.

Pursuant to 40 CFR Part 403.12 g , all Periodic Self-Monitoring Reports must be signed by a "responsible company official" certifying the following statement.

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 assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who mange 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.

Signed: _____ Date: 8/28/01

Donald Tubridy
Site Manager

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) MS#1 - 97th Street

	RESULTS mg / L		RESULTS LBS / DAY		ANNUAL AVERAGE mg / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	06/19/01		06/19/01			
24 HOUR FLOW IN MGD	0.00610		0.00610		0.02493	(MGD)
TOTAL SUSPENDED SOLIDS	12		0.61		5.000	1.07
SOLUBLE ORGANIC CARBON	3.9		0.82		2.850	0.61
TOTAL PHOSPHOROUS						
TOTAL PHENOL	0.0073		0.0004		0.001	0.0001
OIL AND GREASE						
CADMIUM						
CHROMIUM						
COPPER						
LEAD						
MERCURY						
NICKEL						
ZINC						
ARSENIC						
BERYLLIUM						
BARIUM						
TOTAL CYANIDE						
pH (STANDARD UNITS)						
RESIDUAL CHLORINE						
SODIUM CHLORIDE						

Notes: J= Estimated; R = Rejected Result

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) MS#1 - 97th Street

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	06/19/01		06/19/01			
24 HOUR FLOW IN MGD	0.0061		0.0061			
BENZENE	< 0.2		0		< 2.375	0.0002139
CARBON TETRACHLORIDE	< 0.5		0		< 0.58	0
CHLORODIBROMOMETHANE	< 0.2		0		< 0.65	0
MONOCHLOROBENZENE	< 0.5		0		< 2.225	0.0002004
DICHLOROBROMOMETHANE	< 0.2		0		< 0.37	0
CHLOROFORM	< 0.2		0		< 0.31	0
1,1 - DICHLOROETHYLENE	< 0.5		0		< 0.54	0
1,2 - DICHLOROETHYLENE	< 0.4		0		< 0.925	8.332E-05
BROMOFORM	< 0.3		0		< 0.52	0
DICHLOROPROPYLENES	< 0.2		0		< 0.65	0
ETHYLBENZENE	< 0.9		0		< 0.9	0
1,1,2,2 - TETRACHLOROETHANE	< 0.4		0		< 0.275	2.477E-05
TETRACHLOROETHYLENE	< 0.1		0		< 2	0
TOLUENE	< 0.5		0		< 1.650	0.0001486
1,1,1 - TRICHLOROETHANE	< 0.5		0		< 0.52	0
1,1,2 - TRICHLOROETHANE	< 0.3		0		< 0.155	1.396E-05
TRICHLOROETHYLENE	< 0.5		0		< 0.165	1.486E-05
METHYLENE CHLORIDE	< 0.4		0		< 1.5	0
MONOCHLOROTOLUENES	< 10		0		< 10	0
MONOCHLOROBENZOTRIFLUROIDE	< 10		0		< 10	0
VINYL CHLORIDE	< 0.4		0		< 0.200	1.801E-05
TETRAHYDRAFURAN						
XYLENE						

Notes: J= Estimated; R = Rejected Result

26-Aug-01

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) MS#1 - 97th Street

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	06/19/01		06/19/01			
24 HOUR FLOW IN MGD	0.00610		0.00610			
DIMETHYL PHTHALATE	< 10		0		< 0.83	0
BUTYL BENZYL PHTHALATE	< 10		0		< 1.6	0
DIBUTYL PHTHALATE	< 10		0		< 0.275	2.477E-05
NITROSODIPHENYLAMINE	< 10		0		< 1.1	0
DICHLOROBENZENES	< 10		0		< 1.13	0
DICHLOROTOLUENE	< 10		0		< 1.2	0
ACENAPHTHENE	< 10		0		< 0.69	0
FLUORANTHENE	< 10		0		< 0.57	0
CHRYSENE	< 10		0		< 1.55	0
NAPHTHALENE	< 10		0		< 0.47	0
BENZO (a) ANTHRACENE	< 10		0		< 1.6	0
PYRENE	< 10		0		< 0.59	0
TRICHLOROBENZENE	< 10		0		< 0.87	0
TRICHLOROTOLUENE	< 10		0		< 1	0
HEXACHLOROBUTADIENE	< 10		0		< 1.31	0
TETRACHLOROBENZENE	< 10		0		< 0.7	0
HEXACHLOROCYCLOPENTADIE	< 10		0		< 0.48	0
HEXACHLOROBENZENE	< 10		0		< 1.57	0
DICHLOROBENZOTRIFLUORIDE	< 10		0		< 0.42	0
DIOCTYL PHTHALATE	< 10		0		< 0.475	4.2784E-05
DIETHYL PHTHALATE	< 10		0		< 0.85	0

Notes: J= Estimated; R = Rejected Result

26-Aug-01

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	06/19/01		06/19/01			
24 HOUR FLOW IN MGD	0.00610		0.00610			
PHENANTHRENE						
MONOCHLOROPHENOL	< 10		0		< 0.88	0
DICHLOROPHENOL	< 10		0		< 0.97	0
MONOCHLOROCRESOL	< 10		0		< 3.24	0
TRICHLOROPHENOL	< 25		0		< 1.74	0
PENTACHLOROPHENOL	< 25		0.000000		< 0.79	0.000000
HEXACHLOROCYCLOHEXANES	< 0.00005		0		< 0.144	0.000038
PCB'S						
ENDOSULFAN I + ENDOSULFAN II + ENDOSULFAN SULFATE						
MIREX						
DECHLORANE PLUS						
HEPTACHLOR + HEPTACHLOR EPOXIDE						

Notes: J= Estimated; R = Rejected Result

PART II
COMPLIANCE MONITORING

INDUSTRY NAME: OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT FACILITY

PERMIT NO. 44

THIRD QUARTER 2001

VIOLATION PARAMETER	DATE	FLOW (MGD)	SAMPLE POINT LOCATION	ACTUAL DISCHARGE	PERMIT LIMIT	TYPE LIMIT VIOLATED **
NO VIOLATIONS						

NOTE:

* - ACTUAL DISCHARGE - LIST ACTUAL ANALYTICAL RESULTS AND APPROPRIATE UNITS

** - TYPE LIMIT VIOLATED - LIST TYPE:

A.A. = ANNUAL AVERAGE

D.M. = DAILY MAXIMUM

L.L. = LOCAL LIMITS (ORDINANCE 250.5.1)

OCCIDENTAL CHEMICAL CORPORATION

LOVE CANAL LEACHATE TREATMENT FACILITY

PERMIT NO. 44

THIRD QUARTER 2001

DATE	FLOW(GPD)		
05/01/01	6,700		
05/02/01	6,100		
05/04/01	14,300		
05/07/01	16,400		
05/08/01	9,400		
05/09/01	4,200		
05/10/01	8,300		
05/11/01	9,000		
05/14/01	16,900		
05/21/01	48,500		
05/22/01	23,200		
05/23/01	32,300		
05/24/01	26,900		
05/25/01	9,800		
05/29/01	50,900		
05/30/01	23,100		
05/31/01	5,200		
SUBTOTAL	**311,200**		
06/01/01	13,700		
06/04/01	22,600		
06/05/01	6,600		
06/06/01	2,700		
06/07/01	7,600		
06/08/01	9,600		
06/11/01	19,400		
06/12/01	16,500		
06/13/01	6,500		
06/14/01	7,800		
06/15/01	3,400		**MGD**
06/18/01	10,400	***Quarterly sampling***	0.0061
06/19/01	6,100		
06/20/01	14,700		
06/21/01	14,000		
06/22/01	3,200		
06/25/01	17,800		
06/26/01	6,000		
06/27/01	7,800		
06/28/01	5,800		
SUBTOTAL	**202,200**		
07/02/01	22,800		
07/03/01	5,100		
07/05/01	9,600		
07/06/01	18,600		
07/09/01	11,900		
07/12/01	15,800		
07/16/01	16,700		
07/17/01	8,500		
07/18/01	8,800		
07/19/01	3,900		
07/23/01	20,500		
07/25/01	11,200		
07/26/01	7,400		
07/27/01	4,200		
07/30/01	7,100		
07/31/01	10,100		
SUBTOTAL	**182,200**		

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	This is the interim sheet for															
2	the 2nd. quarter. The data															
3	source is the CRA and the															
4	Q&E sheets. This data is linked to pg 3 - pg 6.			4th Quarter 2000			1st Quarter 2001			2nd Quarter 2001			3rd Quarter 2001		Annual Average	
5	SAMPLE DATE			09/18/00			12/19/00			03/19/01			06/19/01			
6	FLOW (MGD)			0.01080			0.05910			0.02370			0.00610		0.02493	
7	N/A= Not applicable															
8	PAGE 2 Acid extractables			ug/L	lb/D		ug/L	lb/D		ug/L	lb/D		ug/L	lb/D	ppb	lb/D
9	Monochlorophenol		<	0.88	0	<	0.8	0	<	0.8	0	<	10.0	0	0.88	0.000
10	Dichlorophenol		<	0.97	0	<	0.85	0	<	0.9	0	<	10.0	0	0.97	0.000
11	Monochlorocresol		<	3.24	0	<	0.96	0	<	1.0	0	<	10.0	0	3.24	0.000
12	Trichlorophenol		<	1.74	0	<	1.1	0	<	1.1	0	<	25.0	0	1.74	0.000
13	Pentachlorophenol		<	0.79	0.00000	<	0.49	0.00000	<	0.49	0	<	25.0	0	0.79	0.000
14																
15	PAGE 3 Base Neutrals														ppb	lb/D
16	Dimethyl Phthalate		<	0.45	0	<	0.83	0	<	0.8	0	<	10.0	0	0.83	0.000
17	Butyl Benzyl Phthalate		<	0.87	0	<	1.6	0	<	1.6	0	<	10.0	0	1.6	0.000
18	Dibutyl Phthalate			1.1	9.9E-05	<	1.7	0	<	1.7	0	<	10.0	0	0.275	0.000
19	Nitrosodiphenylamine		<	0.36	0	<	1.1	0	<	1.1	0	<	10.0	0	1.1	0.000
20	Dichlorobenzenes		<	1.13	0	<	0.85	0	<	0.9	0	<	10.0	0	1.13	0.000
21	Dichlorotoluene		<	1.2	0	<	1.2	0	<	1.2	0	<	10.0	0	1.2	0.000
22	Acenapthalene		<	0.49	0	<	0.69	0	<	0.7	0	<	10.0	0	0.69	0.000
23	Fluoranthene		<	0.57	0	<	0.52	0	<	0.5	0	<	10.0	0	0.57	0.000
24	Chrysene		<	1.55	0	<	0.44	0	<	0.4	0	<	10.0	0	1.55	0.000
25	Napthalene		<	0.35	0	<	0.47	0	<	0.5	0	<	10.0	0	0.47	0.000
26	Benzo(a)anthracene		<	1.33	0	<	1.6	0	<	1.6	0	<	10.0	0	1.6	0.000
27	Pyrene		<	0.57	0	<	0.59	0	<	0.6	0	<	10.0	0	0.59	0.000
28	Trichlorobenzene		<	0.87	0	<	0.64	0	<	0.6	0	<	10.0	0	0.87	0.000
29	Trichlorotoluene		<	0.64	0	<	1	0	<	1.0	0	<	10.0	0	1	0.000
30	Hexachlorobutadiene		<	1.31	0	<	0.57	0	<	0.6	0	<	10.0	0	1.31	0.000
31	Tetrachlorobenzene		<	0.7	0	<	0.7	0	<	0.7	0	<	10.0	0	0.7	0.000
32	Hexachlorobenzene		<	1.57	0	<	0.39	0	<	0.4	0	<	10.0	0	1.57	0.000
33	Dichlorobenzotrifluoride		<	0.42	0	<	0.42	0	<	0.4	0	<	10.0	0	0.42	0.000
34	Phenanthrene															
35	Hexachlorocyclopentadiene		<	0.48	0	<	0.21	0	<	0.2	0	<	10.0	0	0.48	0.000
36	Dioctyl phthalate			1.9	0.00017	<	1.2	0	<	1.2	0	<	10.0	0	0.475	0.000
37	Diethyl phthalate		<	0.63	0	<	0.85	0	<	0.9	0	<	10.0	0	0.85	0.000
38																
39	PAGE 4 Volatiles			ppb	lb/D		ppb	lb/D		ppb	lb/D		ppb	lb/D	ppb	lb/D
40	Benzene			9.5	0.00086	<	0.2	0	<	0.2	0	<	0.2	0	2.375	0.000
41	Carbon Tetrachloride		<	0.58	0	<	0.5	0	<	0.5	0	<	0.5	0	0.58	0.000
42	Chlorodibromomethane		<	0.65	0	<	0.2	0	<	0.2	0	<	0.2	0	0.65	0.000
43	Monochlorobenzene			8.9	0.0008	<	0.5	0	<	0.5	0	<	0.5	0	2.225	0.000
44	Dichlorobromomethane		<	0.37	0	<	0.2	0	<	0.2	0	<	0.2	0	0.37	0.000
45	Chloroform		<	0.31	0	<	0.2	0	<	0.2	0	<	0.2	0	0.31	0.000
46	1,1-Dichloroethene		<	0.54	0	<	0.5	0	<	0.5	0	<	0.5	0	0.54	0.000
47	1,2-Dichloroethene			3.7	0.00033	<	0.6	0	<	0.6	0	<	0.4	0	0.925	0.000
48	Bromoform		<	0.52	0	<	0.3	0	<	0.3	0	<	0.3	0	0.52	0.000
49	Dichloropropylenes		<	0.65	0	<	0.2	0	<	0.2	0	<	0.2	0	0.65	0.000
50	Ethylbenzene		<	0.67	0	<	0.9	0	<	0.9	0	<	0.9	0	0.9	0.000
51	Tetrachloroethanes			1.1	9.9E-05	<	1	0	<	1.0	0	<	0.4	0	0.275	0.000025
52	Tetrachloroethylene		<	0.66	0	<	2	0	<	2.0	0	<	0.1	0	2	0.000
53	Toluene			6.6	0.00059	<	0.5	0	<	0.5	0	<	0.5	0	1.650	0.000
54	1,1,1-Trichloroethane		<	0.52	0	<	0.5	0	<	0.5	0	<	0.5	0	0.52	0.000
55	1,1,2-Trichloroethane			0.62	5.6E-05	<	0.3	0	<	0.3	0	<	0.3	0	0.155	0.000
56	Trichloroethylene			0.66	5.9E-05	<	0.5	0	<	0.5	0	<	0.5	0	0.165	0.000
57	Methylene Chloride		<	1.5	0	<	0.4	0	<	0.4	0	<	0.4	0	1.5	0.000
58	Monochlorotoluene		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
59	Monochlorobenzotrifluoride		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
60	Vinyl chloride			0.8	7.2E-05	<	0.4	0	<	0.4	0	<	0.4	0	0.200	0.000
61																
62	PAGE 5 Conventionals			mg/l	lb/D		mg/l	lb/D		mg/l	lb/D		mg/l	lb/D	ppb	lb/D
63	TSS			6.8	0.61		4.4	2.17		4.4	0.87		12.0	0.61	5.000	1.0654
64	SOC			6	1.26		1.8	0.00		1.8	0.38		3.9	0.82	2.850	0.6147
65	Phenol, Total (mg)		<	0.005	0.00	<	0.005	0.00	<	0.005	0.00		0.0073	0.00	0.001	0.0001
66																
67	PAGE 6 Pesticides			mg/l	lb/D		mg/l	lb/D		mg/l	lb/D		mg/l	lb/D	ppb	lb/D
68	Hexachlorocylohexane			0.183	0.00		0.196	0.00		0.196	0.00	<	0.00005	0.00	0.144	0.000038
69																

70 Notes: J= Estimated; R = Rejected Result

71

CHAIN OF CUSTODY RI ORD

Page 1

Miller Springs Remediation
Occidental Chemical

SHIP TO (LABORATORY NAME):
H2M LABS, INC
575 BROAD HOLLOW ROAD
MELVILLE NY 11747

REF NO: 09954
LOVE CANAL
QTY SEWER SAMPLE

SAMPLE RESULTS REPORTING TO:
Susan Scrocchi Fax: (716) 297-2265 Phone: (716)297-2160
Mailing Address: CRA 2055 Niagara Falls Blvd. Suite Three
NIAGARA FALLS, NY 14304

FACILITY LOCATION:
LOVE CANAL

SAMPLER(S) (PRINT NAME)
TBLACKMON/LKOSHA

SIGNATURE: L. Kosha
516/694-3040 ext.1206

DATE	TIME	SAMPLE NO.	COMPOSITE	GRAB	OTHER	CONTAINER TYPE	CONTAINERS NO. of	VOA's	PHENOL	SEMI VOLATIL	PESTICIDES	TSS	SOC				PRESERVED	REMARKS
06/19/01	11:00	INTER-601		X		•	15	8	1	2	2	1	1				HCL	ALL SAMPLES STORED
																		AND SHIPPED IN COOLER(S)
06/19/01	11:30	INF-601		X			9	2	1	2	2	1	1					
06/19/01	9:45	102ND-601		X			9	2	1	2	2	1	1				-	WITH ICE/ICE PACKS AND
																	-	KEPT AT 4c
06/19/01	11:00	EFF-601		X			15	8	1	2	2	1	1				-	
																	H2SO4	
																		COMBINE ALL 8 VOA's PER
																	-	FOR EACH SET
																	-	
																	-	40 ml/g
																	H2SO4	1 Liter AG
06/19/01		LCQTYTP 61901			X	•	2	2										1 Liter AG
		Beginning # 12948400																1 Liter AG
		ENDING # 12954500																4oz. P
																		4ozAG
																		2 COOLERS
		TOTAL NUMBER OF CONTAINERS					50											

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
L. Kosha	6-19-01	12:30			
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME

BOTTLE TYPES : G = GLASS ; AG = AMBER GLASS ; P = HPDE (PLASTIC) ; SAG = SILANIZED AMBER GLASS

METHOD OF SHIPMENT : SAMPLE TEAM: TBLACKMON/LKOSH CHAIN OF CUSTODY NO: LC619011

AB
BPS

O. King DKK

MILLER SPRINGS REMEDIATION MANAGEMENT INC.

805 – 97th Street, Niagara Falls, NY 14304

A Subsidiary of Occidental Petroleum Corporation

WNY Operation Office

Telephone (716) 283-0112
Fax (716) 283-2856

November 28, 2001

Mr. Albert C. Zaepfel
Industrial Monitoring Coordinator
NIAGARA FALLS WASTEWATER FACILITIES
P.O. Box 69
Niagara Falls, NY 14302-0069

RECEIVED
NOV 30 2001
NYSDEC REG. 9
FOIL
X REL ___ UNREL

RE: Fourth Quarter 2001 Sampling
Occidental Chemical Corporation, Love Canal Leachate Treatment Facility
Permit No. 44

Dear Mr. Zaepfel:

Enclosed are the monitoring results and discharge report for the Fourth Quarter of 2001.

When concentrations are reported as < or not detected at quantitation levels, calculated mass discharges are listed and included as zero in calculated averages. Similarly one or more < concentrations is averaged with other analyses as zero. When all data averaged are ND, the highest detection level is noted, i.e., <10, <5, <8 is shown as <10.

Should you have any questions, please contact me at 283-0111 x28.

Sincerely yours,

Donald Tubridy

CC:

G.J. Rider, Jr., P.E.	NYSDEC, Albany
P. Buechi	NYSDEC, Region 9
B. Downie	MSRM
J. Westendorf	Oxy Tower

BDD LC-SW-4Q-2001cv

CITY OF NIAGARA FALLS
DEPARTMENT OF WASTEWATER FACILITIES
ENFORCEMENT DIVISION

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PERMIT NO. 44 QUARTER FOURTH - 2001

INDUSTRY NAME OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT
FACILITY

Pursuant to federal pretreatment reporting requirements and the City Sewer Use Ordinance Chapter 250, Significant Industrial Users shall submit periodic self-monitoring and compliance reports. Such reports shall be submitted using this form, according to the following schedule:

Quarterly	-	1st Quarter by February 28th
	-	2nd Quarter by May 31st
	-	3rd Quarter by August 31st
	-	4th Quarter by November 30th

Each section of this report form shall be filled out for those parameters listed in Section "G" of the company's Wastewater Discharge Permit. The analysis results must be reported in both concentration and mass. In addition, the calculated annual average load (lbs./day) for each pollutant shall also be reported.

The samples shall be collected at the monitoring points identified in the user permit. Identification of those points in this report should be as listed on Page two (2) of the user permit.

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PAGE 2

PART II of the report is the Compliance Monitoring section. The user is obligated to determine if the analysis results indicate compliance or non-compliance. All violations noted should be brought to the City's attention immediately upon noting and should also be reported in this section. The analysis result should be compared against all applicable federal, state and local standards and limitations. If no violations are noted then "NO VIOLATIONS" should appear on the report.

Pursuant to 40 CFR Part 403.12 g of the federal standards, all violations noted must be followed up by a sample recollect/analysis and the results submitted to the City within thirty (30) days of first becoming aware of the violation.

Pursuant to 40 CFR Part 403.12 g , all Periodic Self-Monitoring Reports must be signed by a "responsible company official" certifying the following statement.

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 assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who mange 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.

Signed: Donald Tubridy
Site Manager

Date: 11/28/01

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) MS#1 - 97th Street

	RESULTS mg / L		RESULTS LBS / DAY		ANNUAL AVERAGE mg / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	09/21/01		09/21/01			
24 HOUR FLOW IN MGD	0.00780		0.00780		0.02460	(MGD)
TOTAL SUSPENDED SOLIDS	18		1.17		8.200	1.25
SOLUBLE ORGANIC CARBON	220.0		46.24		2.850	11.86
TOTAL PHOSPHOROUS						
TOTAL PHENOL	0.0106		0.0007		0.004	0.0003
OIL AND GREASE						
CADMIUM						
CHROMIUM						
COPPER						
LEAD						
MERCURY						
NICKEL						
ZINC						
ARSENIC						
BERYLLIUM						
BARIUM						
TOTAL CYANIDE						
pH (STANDARD UNITS)						
RESIDUAL CHLORINE						
SODIUM CHLORIDE						

Notes: J= Estimated; R = Rejected Result

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) MS#1 - 97th Street

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	09/21/01		09/21/01			
24 HOUR FLOW IN MGD	0.0078		0.0078			
BENZENE	< 5		0		< 0.2	0
CARBON TETRACHLORIDE	< 5		0		< 0.5	0
CHLORODIBROMOMETHANE	< 5		0		< 0.2	0
MONOCHLOROBENZENE	< 5		0		< 0.5	0
DICHLOROBROMOMETHANE	< 5		0		< 0.2	0
CHLOROFORM	< 10		0		< 0.2	0
1,1 - DICHLOROETHYLENE	< 5		0		< 0.5	0
1,2 - DICHLOROETHYLENE	< 5		0		< 0.6	0
BROMOFORM	< 5		0		< 0.3	0
DICHLOROPROPYLENES	< 5		0		< 0.2	0
ETHYLBENZENE	< 5		0		< 0.9	0
1,1,2,2 - TETRACHLOROETHANE	< 5		0		< 1	0
TETRACHLOROETHYLENE	< 5		0		< 2	0
TOLUENE	< 5		0		< 0.5	0
1,1,1 - TRICHLOROETHANE	< 5		0		< 0.5	0
1,1,2 - TRICHLOROETHANE	< 5		0		< 0.3	0
TRICHLOROETHYLENE	< 5		0		< 0.5	0
METHYLENE CHLORIDE	< 5		0		< 0.4	0
MONOCHLOROTOLUENES	< 5		0		< 10	0
MONOCHLOROBENZOTRIFLUROIDE	< 5		0		< 10	0
VINYL CHLORIDE	< 10		0		< 0.4	0
TETRAHYDRAFURAN						
XYLENE						

Notes: J= Estimated; R = Rejected Result

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) MS#1 - 97th Street

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	09/21/01		09/21/01			
24 HOUR FLOW IN MGD	0.00780		0.00780			
DIMETHYL PHTHALATE	< 10		0		< 10	0
BUTYL BENZYL PHTHALATE	< 10		0		< 10	0
DIBUTYL PHTHALATE	< 10		0		< 10	0
NITROSODIPHENYLAMINE	< 10		0		< 10	0
DICHLOROBENZENES	< 5		0		< 10	0
DICHLOROTOLUENE	< 5		0		< 10	0
ACENAPHTHENE	< 10		0		< 10	0
FLUORANTHENE	< 10		0		< 10	0
CHRYSENE	< 10		0		< 10	0
NAPHTHALENE	< 10		0		< 10	0
BENZO (a) ANTHRACENE	< 10		0		< 10	0
PYRENE	< 10		0		< 10	0
TRICHLOROBENZENE	< 5		0		< 10	0
TRICHLOROTOLUENE	< 5		0		< 10	0
HEXACHLOROBUTADIENE	< 5		0		< 10	0
TETRACHLOROBENZENE	< 5		0		< 10	0
HEXACHLOROCYCLOPENTADIE	< 10		0		< 10	0
HEXACHLOROBENZENE	< 5		0		< 10	0
DICHLOROBENZOTRIFLUORIDE	< 5		0		< 10	0
DIOCTYL PHTHALATE	< 10		0		< 10	0
DIETHYL PHTHALATE	< 10		0		< 10	0

Notes: J= Estimated; R = Rejected Result

28-Nov-01

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: **44**

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	09/21/01		09/21/01			
24 HOUR FLOW IN MGD	0.00780		0.00780			
PHENANTHRENE						
MONOCHLOROPHENOL	< 10		0		< 10	0
DICHLOROPHENOL	< 10		0		< 10	0
MONOCHLOROCRESOL	< 10		0		< 10	0
TRICHLOROPHENOL	< 10		0		< 25	0
PENTACHLOROPHENOL	< 10		0.000000		< 25	0.000000
HEXACHLOROCYCLOHEXANES	4.75E-05		3.0919E-09		0.098	0.000034
PCB'S						
ENDOSULFAN I + ENDOSULFAN II + ENDOSULFAN SULFATE						
MIREX						
DECHLORANE PLUS						
HEPTACHLOR + HEPTACHLOR EPOXIDE						

Notes: J= Estimated; R = Rejected Result

PART II
COMPLIANCE MONITORING

INDUSTRY NAME: OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT FACILITY

PERMIT NO. 44

FOURTH QUARTER 2001

VIOLATION PARAMETER	DATE	FLOW (MGD)	SAMPLE POINT LOCATION	ACTUAL DISCHARGE	PERMIT LIMIT	TYPE LIMIT VIOLATED **
NO VIOLATIONS						

NOTE:

* - ACTUAL DISCHARGE - LIST ACTUAL ANALYTICAL RESULTS AND APPROPRIATE UNITS

** - TYPE LIMIT VIOLATED - LIST TYPE:

A.A. = ANNUAL AVERAGE

D.M. = DAILY MAXIMUM

L.L. = LOCAL LIMITS (ORDINANCE 250.5.1)

OCCIDENTAL CHEMICAL CORPORATION

LOVE CANAL LEACHATE TREATMENT FACILITY

PERMIT NO. 44

FOURTH QUARTER 2001

DATE	FLOW(GPD)		
08/01/01	8,100		
08/03/01	8,695		
08/06/01	44,605		
08/07/01	43,000		
08/08/01	24,500		
08/10/01	9,300		
08/13/01	14,700		
08/14/01	12,200		
08/15/01	7,200		
08/20/01	30,100		
08/21/01	6,300		
08/22/01	7,600		
08/23/01	5,800		
08/24/01	3,000		
08/27/01	21,100		
08/29/01	9,400		
08/30/01	5,800		
08/31/01	5,800		
SUBTOTAL	**267,200**		
09/04/01	18,600		
09/05/01	6,000		
09/06/01	300		
09/07/01	7,900		
09/10/01	15,300		
09/11/01	3,400		
09/13/01	9,000		
09/14/01	3,500		
09/17/01	3,000		
09/18/01	12,500		
09/19/01	2,000		**MGD**
09/21/01	7,800	***Quarterly sampling***	0.0078
09/24/01	19,400		
09/25/01	4,900		
09/27/01	13,000		
09/28/01	18,300		
SUBTOTAL	**144,900**		
10/01/01	17,300		
10/04/01	23,000		
10/08/01	49,900		
10/09/01	56,800		
10/10/01	32,100		
10/12/01	11,300		
10/15/01	11,665		
10/17/01	31,735		
10/18/01	33,100		
10/19/01	27,600		
10/22/01	30,100		
10/23/01	9,200		
10/24/01	8,100		
10/25/01	10,400		
10/26/01	29,300		
10/29/01	43,000		
10/30/01	3,000		
10/31/01	10,900		
SUBTOTAL	**438,500**		

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	This is the interim sheet for															
2	the 4th. quarter. The data															
3	source is the CRA and the															
4	Q&E sheets. This data is			1st Quarter 2001			2nd Quarter 2001			3rd Quarter 2001			4th Quarter 2001		Annual Average	
5	linked to pg 3 - pg 6.															
6	SAMPLE DATE			12/19/00			03/19/01			06/19/01			09/21/01			
7	FLOW (MGD)			0.05910			0.02370			0.00780			0.00780		0.02460	
8	N/A= Not applicable															
9	PAGE 2 Acid extractables			ug/L	lb/D		ug/L	lb/D		ug/L	lb/D		ug/L	lb/D	ppb	lb/D
10	Monochlorophenol		<	0.8	0	<	0.8	0	<	10.0	0	<	10.0	0	10	0.000
11	Dichlorophenol		<	0.85	0	<	0.85	0	<	10.0	0	<	10.0	0	10	0.000
12	Monochlorocresol		<	0.96	0	<	0.96	0	<	10.0	0	<	10.0	0	10	0.000
13	Trichlorophenol		<	1.1	0	<	1.1	0	<	25.0	0	<	10.0	0	25	0.000
14	Pentachlorophenol		<	0.49	0.00000	<	0.49	0.00000	<	25	0	<	10.0	0	25	0.000
15																
16	PAGE 3 Base Neutrals														ppb	lb/D
17	Dimethyl Phthalate		<	0.83	0	<	0.83	0	<	10.0	0	<	10.0	0	10	0.000
18	Butyl Benzyl Phthalate		<	1.6	0	<	1.6	0	<	10.0	0	<	10.0	0	10	0.000
19	Dibutyl Phthalate		<	1.7	0	<	1.7	0	<	10.0	0	<	10.0	0	10	0.000
20	Nitrosodiphenylamine		<	1.1	0	<	1.1	0	<	10.0	0	<	10.0	0	10	0.000
21	Dichlorobenzenes		<	0.85	0	<	0.85	0	<	10.0	0	<	5.0	0	10	0.000
22	Dichlorotoluene		<	1.2	0	<	1.2	0	<	10.0	0	<	5.0	0	10	0.000
23	Acenapthalene		<	0.69	0	<	0.69	0	<	10.0	0	<	10.0	0	10	0.000
24	Fluoranthene		<	0.52	0	<	0.52	0	<	10.0	0	<	10.0	0	10	0.000
25	Chrysene		<	0.44	0	<	0.44	0	<	10.0	0	<	10.0	0	10	0.000
26	Napthalene		<	0.47	0	<	0.47	0	<	10.0	0	<	10.0	0	10	0.000
27	Benzo(a)anthracene		<	1.6	0	<	1.6	0	<	10.0	0	<	10.0	0	10	0.000
28	Pyrene		<	0.59	0	<	0.59	0	<	10.0	0	<	10.0	0	10	0.000
29	Trichlorobenzene		<	0.64	0	<	0.64	0	<	10.0	0	<	5.0	0	10	0.000
30	Trichlorotoluene		<	1	0	<	1	0	<	10.0	0	<	5.0	0	10	0.000
31	Hexachlorobutadiene		<	0.57	0	<	0.57	0	<	10.0	0	<	5.0	0	10	0.000
32	Tetrachlorobenzene		<	0.7	0	<	0.7	0	<	10.0	0	<	5.0	0	10	0.000
33	Hexachlorobenzene		<	0.39	0	<	0.39	0	<	10.0	0	<	5.0	0	10	0.000
34	Dichlorobenzotrifluoride		<	0.42	0	<	0.42	0	<	10.0	0	<	5.0	0	10	0.000
35	Phenanthrene															
36	Hexachlorocyclopentadiene		<	0.21	0	<	0.21	0	<	10.0	0	<	10.0	0	10	0.000
37	Dioctyl phthalate		<	1.2	0	<	1.2	0	<	10.0	0	<	10.0	0	10	0.000
38	Diethyl phthalate		<	0.85	0	<	0.85	0	<	10.0	0	<	10.0	0	10	0.000
39																
40	PAGE 4 Volatiles			ppb	lb/D		ppb	lb/D		ppb	lb/D		ppb	lb/D	ppb	lb/D
41	Benzene		<	0.2	0	<	0.2	0	<	0.2	0	<	5.0	0	0.2	0.000
42	Carbon Tetrachloride		<	0.5	0	<	0.5	0	<	0.5	0	<	5.0	0	0.5	0.000
43	Chlorodibromomethane		<	0.2	0	<	0.2	0	<	0.2	0	<	5.0	0	0.2	0.000
44	Monochlorobenzene		<	0.5	0	<	0.5	0	<	0.5	0	<	5.0	0	0.5	0.000
45	Dichlorobromomethane		<	0.2	0	<	0.2	0	<	0.2	0	<	5.0	0	0.2	0.000
46	Chloroform		<	0.2	0	<	0.2	0	<	0.2	0	<	10.0	0	0.2	0.000
47	1,1-Dichloroethene		<	0.5	0	<	0.5	0	<	0.5	0	<	5.0	0	0.5	0.000
48	1,2-Dichloroethene		<	0.6	0	<	0.6	0	<	0.4	0	<	5.0	0	0.6	0.000
49	Bromoform		<	0.3	0	<	0.3	0	<	0.3	0	<	5.0	0	0.3	0.000
50	Dichloropropylenes		<	0.2	0	<	0.2	0	<	0.2	0	<	5.0	0	0.2	0.000
51	Ethylbenzene		<	0.9	0	<	0.9	0	<	0.9	0	<	5.0	0	0.9	0.000
52	Tetrachloroethanes		<	1	0	<	1	0	<	0.4	0	<	5.0	0	1	0.000000
53	Tetrachloroethylene		<	2	0	<	2	0	<	0.1	0	<	5.0	0	2	0.000
54	Toluene		<	0.5	0	<	0.5	0	<	0.5	0	<	5.0	0	0.5	0.000
55	1,1,1-Trichloroethane		<	0.5	0	<	0.5	0	<	0.5	0	<	5.0	0	0.5	0.000
56	1,1,2-Trichloroethane		<	0.3	0	<	0.3	0	<	0.3	0	<	5.0	0	0.3	0.000
57	Trichloroethylene		<	0.5	0	<	0.5	0	<	0.5	0	<	5.0	0	0.5	0.000
58	Methylene Chloride		<	0.4	0	<	0.4	0	<	0.4	0	<	5.0	0	0.4	0.000
59	Monochlorotoluene		<	10	0	<	10	0	<	10.0	0	<	5.0	0	10	0.000
60	Monochlorobenzotrifluoride		<	10	0	<	10	0	<	10.0	0	<	5.0	0	10	0.000
61	Vinyl chloride		<	0.4	0	<	0.4	0	<	0.4	0	<	10.0	0	0.4	0.000
62																
63	PAGE 5 Conventionals			mg/l	lb/D		mg/l	lb/D		mg/l	lb/D		mg/l	lb/D	ppb	lb/D
64	TSS			4.4	2.17		4.4	0.87		12.0	0.78		18.0	1.17	8.200	1.2475
65	SOC			1.8	0.00		1.8	0.38		3.9	0.82		220.0	46.24	2.850	11.8587
66	Phenol, Total (mg)		<	0.005	0.00	<	0.005	0.00		0.0073	0.00		0.0106	0.00	0.004	0.0003
67																
68	PAGE 6 Pesticides			mg/l	lb/D		mg/l	lb/D		mg/l	lb/D		mg/l	lb/D	ppb	lb/D
69	Hexachlorocylohexane			0.196	0.00		0.196	0.00	<	0.00005	0.00		0.0000475	0.00	0.098	0.000034
70																
71																

Notes: J= Estimated; R = Rejected Result

CHAIN OF CUSTODY RECORD

Miller Springs Remediation
Occidental Chemical

SHIP TO (LABORATORY NAME):
Ecology & Environment:
Analytical Services Center
Lancaster, NY 14086 716/695-8080

REF NO: 09954
LOVE CANAL
QTY SEWER SAMPLE

SAMPLE RESULTS REPORTING TO:
Susan Scrocchi Fax: (716) 297-2265 Phone: (716)297-2160
Mailing Address: CRA 2055 Niagara Falls Blvd. Suite Three
NIAGARA FALLS, NY 14304

FACILITY LOCATION:
LOVE CANAL

SAMPLER(S) (PRINT NAME)
TBLACKMON/LKOSHA

SIGNATURE Trey Blackmon
516/694-3040 ext.1206

DATE	TIME	SAMPLE NO.	COMPOSITE	GRAB	OTHER	CONTAINER TYPE	CONTAINERS NO. of	VOA's	PHENOL	SEMI VOLATIL	PESTICIDES	TSS	SOC				PRESERVED	REMARKS
09/21/01	9:00	INTER-901		X		*	15	8	1	2	2	1	1				HCL	ALL SAMPLES STORED
																		AND SHIPPED IN COOLER(S)
09/21/01	08:00	INF-901		X			10	3	1	2	2	1	1					
09/21/01	08:30	102ND-901		X			10	3	1	2	2	1	1				-	WITH ICE/ICE PACKS AND
																	-	KEPT AT 4c ✓
09/21/01	9:00	EFF-901		X			15	8	1	2	2	1	1				-	
																	H2SO4	
																		COMBINE ALL 8 VOA's PER
																	-	FOR EACH SET
																	-	
																	-	40 ml/g
																	H2SO4	1 Liter AG
09/21/01		LCQTYTP 92101			X	*	2	2										1 Liter AG
		Beginning Total - 13554700																1 Liter AG
		Ending Total - 13562500																16oz. P
																		4ozAG
		TOTAL NUMBER OF CONTAINERS					52											

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
Trey Blackmon	9-21-01	10:00	[signature]	9-21-01	1255
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME

BOTTLE TYPES : G = GLASS ; AG = AMBER GLASS ; P = HPDE (PLASTIC) ; SAG = SILANIZED AMBER GLASS

METHOD OF SHIPMENT : SAMPLE TEAM: TBLACKMON/LKOSHA CHAIN OF CUSTODY NO: LC921011

D. King D
AB
BPS

MILLER SPRINGS REMEDIATION MANAGEMENT INC.

805 – 97th Street, Niagara Falls, NY 14304

A Subsidiary of Occidental Petroleum Corporation

WNY Operation Office

Telephone (716) 283-0112
Fax (716) 283-2856

RECEIVED
FEB 25 2002
NYSDEC - REG. 9
FOIL
REL UNREL

February 19, 2002
Mr. Albert C. Zaepfel
Industrial Monitoring Coordinator
NIAGARA FALLS WASTEWATER FACILITIES
P.O. Box 69
Niagara Falls, NY 14302-0069

RE: First Quarter 2002 Sampling
Occidental Chemical Corporation, Love Canal Leachate Treatment Facility
Permit No. 44

Dear Mr. Zaepfel:

Enclosed are the monitoring results and discharge report for the First Quarter of 2002.

When concentrations are reported as < or not detected at quantitation levels, calculated mass discharges are listed and included as zero in calculated averages. Similarly one or more < concentrations is averaged with other analyses as zero. When all data averaged are ND, the highest detection level is noted, i.e., <10, <5, <8 is shown as <10.

Should you have any questions, please contact me at 283-0112.

Sincerely yours,

Donald Tubridy

CC:	G.J. Rider, Jr., P.E.	NYSDEC, Albany
	P. Buechi	NYSDEC, Region 9
	B. Downie	MSRM
	J. Westendorf	Oxy Tower

CITY OF NIAGARA FALLS
DEPARTMENT OF WASTEWATER FACILITIES
ENFORCEMENT DIVISION

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PERMIT NO. 44 QUARTER FIRST - 2001

INDUSTRY NAME OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT
FACILITY

Pursuant to federal pretreatment reporting requirements and the City Sewer Use Ordinance Chapter 250, Significant Industrial Users shall submit periodic self-monitoring and compliance reports. Such reports shall be submitted using this form, according to the following schedule:

Quarterly
- 1st Quarter by February 28th
- 2nd Quarter by May 31st
- 3rd Quarter by August 31st
- 4th Quarter by November 30th

Each section of this report form shall be filled out for those parameters listed in Section "G" of the company's Wastewater Discharge Permit. The analysis results must be reported in both concentration and mass. In addition, the calculated annual average load (lbs./day) for each pollutant shall also be reported.

The samples shall be collected at the monitoring points identified in the user permit. Identification of those points in this report should be as listed on Page two (2) of the user permit.

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PAGE 2

PART II of the report is the Compliance Monitoring section. The user is obligated to determine if the analysis results indicate compliance or non-compliance. All violations noted should be brought to the City's attention immediately upon noting and should also be reported in this section. The analysis result should be compared against all applicable federal, state and local standards and limitations. If no violations are noted then "NO VIOLATIONS" should appear on the report.

Pursuant to 40 CFR Part 403.12 g of the federal standards, all violations noted must be followed up by a sample recollect/analysis and the results submitted to the City within thirty (30) days of first becoming aware of the violation.

Pursuant to 40 CFR Part 403.12 g , all Periodic Self-Monitoring Reports must be signed by a "responsible company official" certifying the following statement.

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 assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who mange 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.

Signed: _____ Date: 2/22/02

Donald Tubridy
Site Manager

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: **44**

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS mg / L		RESULTS LBS / DAY		ANNUAL AVERAGE mg / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	12/12/01		12/12/01			
24 HOUR FLOW IN MGD	0.01450		0.01450		0.01513	(MGD)
TOTAL SUSPENDED SOLIDS	< 4		0.00		8.600	0.96
SOLUBLE ORGANIC CARBON	3.0		0.63		111.425	12.02
TOTAL PHOSPHOROUS						
TOTAL PHENOL	0.0105		0.0013		0.007	0.0008
OIL AND GREASE						
CADMIUM						
CHROMIUM						
COPPER						
LEAD						
MERCURY						
NICKEL						
ZINC						
ARSENIC						
BERYLLIUM						
BARIUM						
TOTAL CYANIDE						
pH (STANDARD UNITS)						
RESIDUAL CHLORINE						
SODIUM CHLORIDE						

Notes: J= Estimated; R = Rejected Result

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) MS#1 - 97th Street

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	12/12/01		12/12/01			
24 HOUR FLOW IN MGD	0.0145		0.0145			
BENZENE	< 10		0		< 5	0
CARBON TETRACHLORIDE	< 10		0		< 5	0
CHLORODIBROMOMETHANE	< 10		0		< 5	0
MONOCHLOROBENZENE	< 10		0		< 5	0
DICHLOROBROMOMETHANE	< 10		0		< 5	0
CHLOROFORM	< 10		0		< 10	0
1,1 - DICHLOROETHYLENE	< 10		0		< 5	0
1,2 - DICHLOROETHYLENE	< 10		0		< 5	0
BROMOFORM	< 10		0		< 5	0
DICHLOROPROPYLENES	< 10		0		< 5	0
ETHYLBENZENE	< 10		0		< 5	0
1,1,2,2 - TETRACHLOROETHANE	< 10		0		< 5	0
TETRACHLOROETHYLENE	< 10		0		< 5	0
TOLUENE	< 10		0		< 5	0
1,1,1 - TRICHLOROETHANE	< 10		0		< 5	0
1,1,2 - TRICHLOROETHANE	< 10		0		< 5	0
TRICHLOROETHYLENE	< 10		0		< 5	0
METHYLENE CHLORIDE	< 10		0		< 5	0
MONOCHLOROTOLUENES	< 10		0		< 10	0
MONOCHLOROBENZOTRIFLUROIDE	< 10		0		< 10	0
VINYL CHLORIDE	< 10		0		< 10	0
TETRAHYDRAFURAN						
XYLENE						

Notes: J= Estimated; R = Rejected Result

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) MS#1 - 97th Street

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	12/12/01		12/12/01			
24 HOUR FLOW IN MGD	0.01450		0.01450			
DIMETHYL PHTHALATE	< 10.3		0		< 10	0
BUTYL BENZYL PHTHALATE	< 10.3		0		< 10	0
DIBUTYL PHTHALATE	< 10.3		0		< 10	0
NITROSODIPHENYLAMINE	< 10.3		0		< 10	0
DICHLOROBENZENES	< 10		0		< 10	0
DICHLOROTOLUENE	< 10		0		< 10	0
ACENAPHTHENE	< 10.3		0		< 10	0
FLUORANTHENE	< 10.3		0		< 10	0
CHRYSENE	< 10.3		0		< 10	0
NAPHTHALENE	< 10.3		0		< 10	0
BENZO (a) ANTHRACENE	< 10.3		0		< 10	0
PYRENE	< 10.3		0		< 10	0
TRICHLOROBENZENE	< 10		0		< 10	0
TRICHLOROTOLUENE	< 10		0		< 10	0
HEXACHLOROBUTADIENE	< 10.3		0		< 10	0
TETRACHLOROBENZENE	< 5.15		0		< 10	0
HEXACHLOROCYCLOPENTADIE	< 10.3		0		< 10	0
HEXACHLOROBENZENE	< 5.15		0		< 10	0
DICHLOROBENZOTRIFLUORIDE	< 10		0		< 10	0
DIOCTYL PHTHALATE	< 10.3		0		< 10	0
DIETHYL PHTHALATE	< 10.3		0		< 10	0

Notes: J= Estimated; R = Rejected Result

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	12/12/01		12/12/01			
24 HOUR FLOW IN MGD	0.01450		0.01450			
PHENANTHRENE						
MONOCHLOROPHENOL	< 10.3		0		< 10	0
DICHLOROPHENOL	< 10.3		0		< 10	0
MONOCHLOROCRESOL	< 10.3		0		< 10	0
TRICHLOROPHENOL	< 10.3		0		< 25	0
PENTACHLOROPHENOL	< 10.3		0.000000		< 25	0.000000
HEXACHLOROCYCLOHEXANES	0.000703		8.505E-08		0.049	0.000010
PCB'S						
ENDOSULFAN I + ENDOSULFAN II + ENDOSULFAN SULFATE						
MIREX						
DECHLORANE PLUS						
HEPTACHLOR + HEPTACHLOR EPOXIDE						

Notes: J= Estimated; R = Rejected Result

PART II
COMPLIANCE MONITORING

INDUSTRY NAME: OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT FACILITY

PERMIT NO. 44

FOURTH QUARTER 2001

VIOLATION PARAMETER	DATE	FLOW (MGD)	SAMPLE POINT LOCATION	ACTUAL DISCHARGE	PERMIT LIMIT	TYPE LIMIT VIOLATED **
NO VIOLATIONS						

NOTE:

* - ACTUAL DISCHARGE - LIST ACTUAL ANALYTICAL RESULTS AND APPROPRIATE UNITS

** - TYPE LIMIT VIOLATED - LIST TYPE:

A.A. = ANNUAL AVERAGE

D.M. = DAILY MAXIMUM

L.L. = LOCAL LIMITS (ORDINANCE 250.5.1)

OCCIDENTAL CHEMICAL CORPORATION

LOVE CANAL LEACHATE TREATMENT FACILITY

PERMIT NO. 44

FOURTH QUARTER 2001

DATE	FLOW(GPD)		
11/01/01	7,200		
11/05/01	21,500		
11/06/01	3,500		
11/08/01	12,400		
11/09/01	5,400		
11/12/01	14,900		
11/13/01	2,900		
11/14/01	3,800		
11/15/01	10,000		
11/19/01	16,800		
11/21/01	10,500		
11/26/01	34,300		
11/27/01	9,300		
11/28/01	10,700		
11/29/01	36,700		
11/30/01	50,500		
SUBTOTAL	**250,400**		
12/03/01	43,000		
12/04/01	10,900		
12/05/01	50,300		
12/06/01	21,200		
12/07/01	10,600		
12/10/01	9,800		**MGD**
12/12/01	14,500	***Quarterly sampling***	0.0145
12/13/01	9,900		
12/14/01	6,700		
12/17/01	68,200		
12/18/01	143,600		
12/19/01	19,000		
12/20/01	12,400		
12/24/01	32,300		
12/26/01	26,100		
12/27/01	12,600		
12/28/01	26,500		
12/31/01	37,700		
SUBTOTAL	**555,300**		
01/02/02	39,500		
01/03/02	7,600		
01/04/02	4,500		
01/07/02	25,600		
01/08/02	7,300		
01/09/02	4,100		
01/10/02	28,200		
01/11/02	56,400		
01/14/02	42,700		
01/15/02	30,100		
01/16/02	24,300		
01/17/02	14,400		
01/18/02	1,600		
01/21/02	38,700		
01/22/02	6,300		
01/24/02	25,200		
01/25/02	66,200		
01/28/02	22,300		
01/29/02	21,500		
01/30/02	6,700		
01/31/02	15,700		
SUBTOTAL	**488,900**		

D. Lino OKK

MILLER SPRINGS REMEDIATION MANAGEMENT INC.

805 – 97th Street, Niagara Falls, NY 14304

A Subsidiary of Occidental Petroleum Corporation

WNY Operation Office

Telephone (716) 283-0112
Fax (716) 283-2856

May 7, 2002
Mr. Albert C. Zaepfel
Industrial Monitoring Coordinator
NIAGARA FALLS WASTEWATER FACILITIES
P.O. Box 69
Niagara Falls, NY 14302-0069

AB
BPS

RE: Second Quarter 2002 Sampling
Occidental Chemical Corporation, Love Canal Leachate Treatment Facility
Permit No. 44

Dear Mr. Zaepfel:

Enclosed are the monitoring results and discharge report for the Second Quarter of 2002.

When concentrations are reported as < or not detected at quantitation levels, calculated mass discharges are listed and included as zero in calculated averages. Similarly one or more < concentrations is averaged with other analyses as zero. When all data averaged are ND, the highest detection level is noted, i.e., <10, <5, <8 is shown as <10.

Should you have any questions, please contact me at 283-0112.

Sincerely yours,

Donald Tubridy

CC: G.J. Rider, Jr., P.E. NYSDEC, Albany
P. Buechi NYSDEC, Region 9
B. Downie MSRM
G. Luxbacher GSHI

BDD LC-SW-2Q-2002cv

CITY OF NIAGARA FALLS
DEPARTMENT OF WASTEWATER FACILITIES
ENFORCEMENT DIVISION

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PERMIT NO. 44 QUARTER SECOND - 2002

INDUSTRY NAME OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT
FACILITY

Pursuant to federal pretreatment reporting requirements and the City Sewer Use Ordinance Chapter 250, Significant Industrial Users shall submit periodic self-monitoring and compliance reports. Such reports shall be submitted using this form, according to the following schedule:

Quarterly	-	1st Quarter by February 28th
	-	2nd Quarter by May 31st
	-	3rd Quarter by August 31st
	-	4th Quarter by November 30th

Each section of this report form shall be filled out for those parameters listed in Section "G" of the company's Wastewater Discharge Permit. The analysis results must be reported in both concentration and mass. In addition, the calculated annual average load (lbs./day) for each pollutant shall also be reported.

The samples shall be collected at the monitoring points identified in the user permit. Identification of those points in this report should be as listed on Page two (2) of the user permit.

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PAGE 2

PART II of the report is the Compliance Monitoring section. The user is obligated to determine if the analysis results indicate compliance or non-compliance. All violations noted should be brought to the City's attention immediately upon noting and should also be reported in this section. The analysis result should be compared against all applicable federal, state and local standards and limitations. If no violations are noted then "NO VIOLATIONS" should appear on the report.

Pursuant to 40 CFR Part 403.12 g of the federal standards, all violations noted must be followed up by a sample recollect/analysis and the results submitted to the City within thirty (30) days of first becoming aware of the violation.

Pursuant to 40 CFR Part 403.12 g , all Periodic Self-Monitoring Reports must be signed by a "responsible company official" certifying the following statement.

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 assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who mange 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.

Signed: _____ Date: 5/9/02

Donald Tubridy
Site Manager

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS mg / L		RESULTS LBS / DAY		ANNUAL AVERAGE mg / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	03/19/02		03/19/02			
24 HOUR FLOW IN MGD	0.01730		0.01730		0.01353	(MGD)
TOTAL SUSPENDED SOLIDS	< 4		0.00		7.500	0.74
SOLUBLE ORGANIC CARBON	120.0		25.22		57.475	18.23
TOTAL PHOSPHOROUS						
TOTAL PHENOL	0.747		0.1078		0.010	0.0277
OIL AND GREASE						
CADMIUM						
CHROMIUM						
COPPER						
LEAD						
MERCURY						
NICKEL						
ZINC						
ARSENIC						
BERYLLIUM						
BARIUM						
TOTAL CYANIDE						
pH (STANDARD UNITS)						
RESIDUAL CHLORINE						
SODIUM CHLORIDE						

Notes: J= Estimated; R = Rejected Result

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: **44**

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	03/19/02		03/19/02			
24 HOUR FLOW IN MGD	0.0173		0.0173			
BENZENE	< 10		0		< 10	0
CARBON TETRACHLORIDE	< 10		0		< 10	0
CHLORODIBROMOMETHANE	< 10		0		< 10	0
MONOCHLOROBENZENE	< 10		0		< 10	0
DICHLOROBROMOMETHANE	< 10		0		< 10	0
CHLOROFORM	< 10		0		< 10	0
1,1 - DICHLOROETHYLENE	< 10		0		< 10	0
1,2 - DICHLOROETHYLENE	< 10		0		< 10	0
BROMOFORM	< 10		0		< 10	0
DICHLOROPROPYLENES	< 10		0		< 10	0
ETHYLBENZENE	< 10		0		< 10	0
1,1,2,2 - TETRACHLOROETHANE	< 10		0		< 10	0
TETRACHLOROETHYLENE	< 10		0		< 10	0
TOLUENE	< 10		0		< 10	0
1,1,1 - TRICHLOROETHANE	< 10		0		< 10	0
1,1,2 - TRICHLOROETHANE	< 10		0		< 10	0
TRICHLOROETHYLENE	< 10		0		< 10	0
METHYLENE CHLORIDE	< 10		0		< 10	0
MONOCHLOROTOLUENES	< 10		0		< 10	0
MONOCHLOROBENZOTRIFLUROIDE	< 10		0		< 10	0
VINYL CHLORIDE	< 10		0		< 10	0
TETRAHYDRAFURAN						
XYLENE						

Notes: J= Estimated; R = Rejected Result

07-May-02

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	03/19/02		03/19/02			
24 HOUR FLOW IN MGD	0.01730		0.01730			
DIMETHYL PHTHALATE	< 10		0		< 10.3	0
BUTYL BENZYL PHTHALATE	< 10		0		< 10.3	0
DIBUTYL PHTHALATE	< 10		0		< 10.3	0
NITROSODIPHENYLAMINE	< 10		0		< 10.3	0
DICHLOROBENZENES	< 10		0		< 10	0
DICHLOROTOLUENE	< 10		0		< 10	0
ACENAPHTHENE	< 10		0		< 10.3	0
FLUORANTHENE	< 10		0		< 10.3	0
CHRYSENE	< 10		0		< 10.3	0
NAPHTHALENE	< 10		0		< 10.3	0
BENZO (a) ANTHRACENE	< 10		0		< 10.3	0
PYRENE	< 10		0		< 10.3	0
TRICHLOROBENZENE	< 10		0		< 10	0
TRICHLOROTOLUENE	< 10		0		< 10	0
HEXACHLOROBUTADIENE	< 10		0		< 10.3	0
TETRACHLOROBENZENE	1.06	J	0.000721	J	0.265	0.00018035
HEXACHLOROCYCLOPENTADIE	< 10		0		< 10.3	0
HEXACHLOROBENZENE	< 5		0		< 10	0
DICHLOROBENZOTRIFLUORIDE	< 10		0		< 10	0
DIOCTYL PHTHALATE	< 10		0		< 10.3	0
DIETHYL PHTHALATE	< 10		0		< 10.3	0

Notes: J= Estimated; R = Rejected Result

07-May-02

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) MS#1 - 97th Street

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	03/19/02		03/19/02			
24 HOUR FLOW IN MGD	0.01730		0.01730			
PHENANTHRENE						
MONOCHLOROPHENOL	< 10		0		< 10.3	0
DICHLOROPHENOL	< 10		0		< 10.3	0
MONOCHLOROCRESOL	< 10		0		< 10.3	0
TRICHLOROPHENOL	< 10		0		< 25	0
PENTACHLOROPHENOL	< 10		0.000000		< 25	0.000000
HEXACHLOROCYCLOHEXANES	0.00066		9.5284E-08		0.000	0.000000
PCB'S						
ENDOSULFAN I + ENDOSULFAN II + ENDOSULFAN SULFATE						
MIREX						
DECHLORANE PLUS						
HEPTACHLOR + HEPTACHLOR EPOXIDE						

Notes: J= Estimated; R = Rejected Result

PART II
COMPLIANCE MONITORING

INDUSTRY NAME: OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT FACILITY

PERMIT NO. 44

2nd Quarter 2002

VIOLATION PARAMETER	DATE	FLOW (MGD)	SAMPLE POINT LOCATION	ACTUAL DISCHARGE	PERMIT LIMIT	TYPE LIMIT VIOLATED **
NO VIOLATIONS						

NOTE:

* - ACTUAL DISCHARGE - LIST ACTUAL ANALYTICAL RESULTS AND APPROPRIATE UNITS

** - TYPE LIMIT VIOLATED - LIST TYPE:

A.A. = ANNUAL AVERAGE

D.M. = DAILY MAXIMUM

L.L. = LOCAL LIMITS (ORDINANCE 250.5.1)

OCCIDENTAL CHEMICAL CORPORATION

LOVE CANAL LEACHATE TREATMENT FACILITY

PERMIT NO. 44

2nd Quarter 2002

DATE	FLOW(GPD)		
02/01/02	41,100		
02/02/02	29,700		
02/03/02	28,400		
02/04/02	71,300		
02/05/02	38,600		
02/06/02	22,000		
02/07/02	20,400		
02/08/02	10,700		
02/11/02	74,400		
02/12/02	29,700		
02/13/02	24,900		
02/14/02	15,000		
02/15/02	9,900		
02/19/02	65,100		
02/20/02	12,200		
02/22/02	51,400		
02/25/02	70,200		
02/26/02	29,100		
02/27/02	4,100		
02/28/02	15,500		
SUBTOTAL	**663,700**		
03/01/02	9,600		
03/04/02	60,100		
03/05/02	13,000		
03/06/02	18,600		
03/07/02	6,600		
03/08/02	14,700		
03/11/02	59,200		
03/12/02	9,300		
03/13/02	8,100		
03/14/02	13,500		
03/15/02	7,800		
03/18/02	3,800		**MGD**
03/19/02	17,300	***Quarterly sampling***	0.0173
03/20/02	10,600		
03/21/02	20,700		
03/22/02	6,900		
03/25/02	18,900		
03/26/02	6,200		
03/27/02	26,700		
03/28/02	22,600		
03/29/02	10,700		
SUBTOTAL	**364,900**		
04/01/02	90,000		
04/02/02	35,200		
04/03/02	51,000		
04/04/02	73,700		
04/05/02	27,900		
04/08/02	37,700		
04/09/02	12,800		
04/10/02	21,500		
04/11/02	10,200		
04/12/02	5,700		
04/15/02	81,200		
04/16/02	52,900		
04/18/02	32,200		
04/19/02	11,100		
04/22/02	34,600		
04/23/02	9,400		
04/25/02	14,700		
04/26/02	5,100		
04/29/02	56,100		
04/30/02	26,700		
SUBTOTAL	**689,700**		

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	This is the interim sheet															
2	for the 4th. quarter. The															
3	data source is the CRA															
4	and the Q&E sheets. This															
	data is linked to pg 3 - pg			3rd Quarter 2001			4th Quarter 2001			1st Quarter 2002			2nd Quarter 2002		Annual Average	
5	SAMPLE DATE			06/19/01			09/21/01			12/12/01			03/19/02			
6	FLOW (MGD)			0.00780			0.01450			0.01450			0.01730		0.01353	
7	N/A= Not applicable															
8	PAGE 2 Acid extractables			ug/L	lb/D		ug/L	lb/D		ug/L	lb/D		ug/L	lb/D	ppb	lb/D
9	Monochlorophenol		<	10	0	<	10	0	<	10.3	0	<	10	0	10.3	0.000
10	Dichlorophenol		<	10	0	<	10	0	<	10.3	0	<	10	0	10.3	0.000
11	Monochlorocresol		<	10	0	<	10	0	<	10.3	0	<	10	0	10.3	0.000
12	Trichlorophenol		<	25	0	<	10	0	<	10.3	0	<	10	0	25	0.000
13	Pentachlorophenol		<	25	0	<	10	0	<	10.3	0	<	10	0	25	0.000
14																
15	PAGE 3 Base Neutrals														ppb	lb/D
16	Dimethyl Phthalate		<	10	0	<	10	0	<	10.3	0	<	10	0	10.3	0.000
17	Butyl Benzyl Phthalate		<	10	0	<	10	0	<	10.3	0	<	10	0	10.3	0.000
18	Dibutyl Phthalate		<	10	0	<	10	0	<	10.3	0	<	10	0	10.3	0.000
19	Nitrosodiphenylamine		<	10	0	<	10	0	<	10.3	0	<	10	0	10.3	0.000
20	Dichlorobenzenes		<	10	0	<	5	0	<	10.0	0	<	10	0	10	0.000
21	Dichlorotoluene		<	10	0	<	5	0	<	10.0	0	<	10	0	10	0.000
22	Acenapthalene		<	10	0	<	10	0	<	10.3	0	<	10	0	10.3	0.000
23	Fluoranthene		<	10	0	<	10	0	<	10.3	0	<	10	0	10.3	0.000
24	Chrysene		<	10	0	<	10	0	<	10.3	0	<	10	0	10.3	0.000
25	Napthalene		<	10	0	<	10	0	<	10.3	0	<	10	0	10.3	0.000
26	Benzo(a)anthracene		<	10	0	<	10	0	<	10.3	0	<	10	0	10.3	0.000
27	Pyrene		<	10	0	<	10	0	<	10.3	0	<	10	0	10.3	0.000
28	Trichlorobenzene		<	10	0	<	5	0	<	10.0	0	<	10	0	10	0.000
29	Trichlorotoluene		<	10	0	<	5	0	<	10.0	0	<	10	0	10	0.000
30	Hexachlorobutadiene		<	10	0	<	5	0	<	10.3	0	<	10	0	10.3	0.000
31	Tetrachlorobenzene		<	10	0	<	5	0	<	5.2	0		1.06 J	0.0007214	0.265	0.000
32	Hexachlorobenzene		<	10	0	<	5	0	<	5.2	0	<	5	0	10	0.000
33	Dichlorobenzotrifluoride		<	10	0	<	5	0	<	10.0	0	<	10	0	10	0.000
34	Phenanthrene															
35	Hexachlorocyclopentadiene		<	10	0	<	10	0	<	10.3	0	<	10	0	10.3	0.000
36	Dioctyl phthalate		<	10	0	<	10	0	<	10.3	0	<	10	0	10.3	0.000
37	Diethyl phthalate		<	10	0	<	10	0	<	10.3	0	<	10	0	10.3	0.000
38																
39	PAGE 4 Volatiles			ppb	lb/D		ppb	lb/D		ppb	lb/D		ppb	lb/D	ppb	lb/D
40	Benzene		<	0.2	0	<	5	0	<	10.0	0	<	10.0	0	10	0.000
41	Carbon Tetrachloride		<	0.5	0	<	5	0	<	10.0	0	<	10.0	0	10	0.000
42	Chlorodibromomethane		<	0.2	0	<	5	0	<	10.0	0	<	10.0	0	10	0.000
43	Monochlorobenzene		<	0.5	0	<	5	0	<	10.0	0	<	10.0	0	10	0.000
44	Dichlorobromomethane		<	0.2	0	<	5	0	<	10.0	0	<	10.0	0	10	0.000
45	Chloroform		<	0.2	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
46	1,1-Dichloroethene		<	0.5	0	<	5	0	<	10.0	0	<	10.0	0	10	0.000
47	1,2-Dichloroethene		<	0.4	0	<	5	0	<	10.0	0	<	10.0	0	10	0.000
48	Bromoform		<	0.3	0	<	5	0	<	10.0	0	<	10.0	0	10	0.000
49	Dichloropropylenes		<	0.2	0	<	5	0	<	10.0	0	<	10.0	0	10	0.000
50	Ethylbenzene		<	0.9	0	<	5	0	<	10.0	0	<	10.0	0	10	0.000
51	Tetrachloroethanes		<	0.4	0	<	5	0	<	10.0	0	<	10.0	0	10	0.000000
52	Tetrachloroethylene		<	0.1	0	<	5	0	<	10.0	0	<	10.0	0	10	0.000
53	Toluene		<	0.5	0	<	5	0	<	10.0	0	<	10.0	0	10	0.000
54	1,1,1-Trichloroethane		<	0.5	0	<	5	0	<	10.0	0	<	10.0	0	10	0.000
55	1,1,2-Trichloroethane		<	0.3	0	<	5	0	<	10.0	0	<	10.0	0	10	0.000
56	Trichloroethylene		<	0.5	0	<	5	0	<	10.0	0	<	10.0	0	10	0.000
57	Methylene Chloride		<	0.4	0	<	5	0	<	10.0	0	<	10.0	0	10	0.000
58	Monochlorotoluene		<	10	0	<	5	0	<	10.0	0	<	10.0	0	10	0.000
59	Monochlorobenzotrifluoride		<	10	0	<	5	0	<	10.0	0	<	10.0	0	10	0.000
60	Vinyl chloride		<	0.4	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
61																
62	PAGE 5 Conventionals			mg/l	lb/D		mg/l	lb/D		mg/l	lb/D		mg/l	lb/D	ppb	lb/D
63	TSS			12	0.78		18	2.18	<	4.0	0.00	<	4.0	0.00	7.500	0.7393
64	SOC			3.9	0.82		220	46.24		3.0	0.63		120.0	25.22	57.475	18.2268
65	Phenol, Total (mg)			0.0073	0.00		0.0106	0.00		0.0105	0.00		0.747	0.11	0.010	0.0277
66																
67	PAGE 6 Pesticides			mg/l	lb/D		mg/l	lb/D		mg/l	lb/D		mg/l	lb/D	ppb	lb/D
68	Hexachlorocylohexane		<	0.00005	0.00		0.00004753	0.00		0.0007033	0.00		0.0006604	0.00	0.000	0.000000
69																

70 Notes: J= Estimated; R = Rejected Result

71

DKK

MILLER SPRINGS REMEDIATION MANAGEMENT INC.

805 – 97th Street, Niagara Falls, NY 14304

A Subsidiary of Occidental Petroleum Corporation

WNY Operation Office

Telephone (716) 283-0112
Fax (716) 283-2856

August 26, 2002
Mr. Albert C. Zaepfel
Industrial Monitoring Coordinator
NIAGARA FALLS WASTEWATER FACILITIES
P.O. Box 69
Niagara Falls, NY 14302-0069

RE: Third Quarter 2002 Sampling
Occidental Chemical Corporation, Love Canal Leachate Treatment Facility
Permit No. 44

Dear Mr. Zaepfel:

Enclosed are the monitoring results and discharge report for the Third Quarter of 2002.

When concentrations are reported as < or not detected at quantitation levels, calculated mass discharges are listed and included as zero in calculated averages. Similarly one or more < concentrations is averaged with other analyses as zero. When all data averaged are ND, the highest detection level is noted, i.e., <10, <5, <8 is shown as <10.

Should you have any questions, please contact me at 283-0112.

Sincerely yours,

Donald Tubridy

CC:	G.J. Rider, Jr., P.E.	NYSDEC, Albany
	P. Buechi	NYSDEC, Region 9
	B. Downie	MSRM
	G. Luxbacher	GSHI

CITY OF NIAGARA FALLS
DEPARTMENT OF WASTEWATER FACILITIES
ENFORCEMENT DIVISION

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PERMIT NO. 44 QUARTER THIRD - 2002

INDUSTRY NAME OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT
FACILITY

Pursuant to federal pretreatment reporting requirements and the City Sewer Use Ordinance Chapter 250, Significant Industrial Users shall submit periodic self-monitoring and compliance reports. Such reports shall be submitted using this form, according to the following schedule:

Quarterly	-	1st Quarter by February 28th
	-	2nd Quarter by May 31st
	-	3rd Quarter by August 31st
	-	4th Quarter by November 30th

Each section of this report form shall be filled out for those parameters listed in Section "G" of the company's Wastewater Discharge Permit. The analysis results must be reported in both concentration and mass. In addition, the calculated annual average load (lbs./day) for each pollutant shall also be reported.

The samples shall be collected at the monitoring points identified in the user permit. Identification of those points in this report should be as listed on Page two (2) of the user permit.

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PAGE 2

PART II of the report is the Compliance Monitoring section. The user is obligated to determine if the analysis results indicate compliance or non-compliance. All violations noted should be brought to the City's attention immediately upon noting and should also be reported in this section. The analysis result should be compared against all applicable federal, state and local standards and limitations. If no violations are noted then "NO VIOLATIONS" should appear on the report.

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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 assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who mange 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.

Signed: _____ Date: 8/21/2002

Donald Tubridy
WNY Site Manager

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	This is the interim sheet															
2	for the 3rd. quarter. The															
3	data source is the CRA															
4	and the Q&E sheets. This			4th Quarter 2001			1st Quarter 2002			2nd Quarter 2002			3rd Quarter 2002		Annual Average	
5	data is linked to pg 3 - pg															
5	SAMPLE DATE			09/21/01			12/12/01			03/19/02			06/25/02			
6	FLOW (MGD)			0.01450			0.01450			0.01730			0.02100		0.01683	
7	N/A= Not applicable															
8	PAGE 2 Acid extractables			ug/L	lb/D		ug/L	lb/D		ug/L	lb/D		ug/L	lb/D	ppb	lb/D
9	Monochlorophenol		<	10	0	<	10.3	0	<	10.0	0	<	10	0	10.3	0.000
10	Dichlorophenol		<	10	0	<	10.3	0	<	10.0	0	<	10	0	10.3	0.000
11	Monochlorocresol		<	10	0	<	10.3	0	<	10.0	0	<	10	0	10.3	0.000
12	Trichlorophenol		<	10	0	<	10.3	0	<	10.0	0	<	10	0	10.3	0.000
13	Pentachlorophenol		<	10	0	<	10.3	0	<	10.0	0	<	10	0	10.3	0.000
14																
15	PAGE 3 Base Neutrals														ppb	lb/D
16	Dimethyl Phthalate		<	10	0	<	10.3	0	<	10.0	0	<	10	0	10.3	0.000
17	Butyl Benzyl Phthalate		<	10	0	<	10.3	0	<	10.0	0	<	10	0	10.3	0.000
18	Dibutyl Phthalate		<	10	0	<	10.3	0	<	10.0	0	<	10	0	10.3	0.000
19	Nitrosodiphenylamine		<	10	0	<	10.3	0	<	10.0	0	<	10	0	10.3	0.000
20	Dichlorobenzenes		<	5	0	<	10	0	<	10.0	0	<	10	0	10	0.000
21	Dichlorotoluene		<	5	0	<	10	0	<	10.0	0	<	10	0	10	0.000
22	Acenapthalene		<	10	0	<	10.3	0	<	10.0	0	<	10	0	10.3	0.000
23	Fluoranthene		<	10	0	<	10.3	0	<	10.0	0	<	10	0	10.3	0.000
24	Chrysene		<	10	0	<	10.3	0	<	10.0	0	<	10	0	10.3	0.000
25	Napthalene		<	10	0	<	10.3	0	<	10.0	0	<	10	0	10.3	0.000
26	Benzo(a)anthracene		<	10	0	<	10.3	0	<	10.0	0	<	10	0	10.3	0.000
27	Pyrene		<	10	0	<	10.3	0	<	10.0	0	<	10	0	10.3	0.000
28	Trichlorobenzene		<	5	0	<	10	0	<	10.0	0		0.474 J	0.00008	2.500	0.000
29	Trichlorotoluene		<	5	0	<	10	0	<	10.0	0		0.524 J	0.00009	2.500	0.000
30	Hexachlorobutadiene		<	5	0	<	10.3	0	<	10.0	0	<	10	0	10.3	0.000
31	Tetrachlorobenzene		<	5	0	<	5.15	0		1.1	0.00072		3.73 J	0.00088	0.530	0.000
32	Hexachlorobenzene		<	5	0	<	5.15	0	<	5.0	0	<	5	0	5.15	0.000
33	Dichlorobenzotrifluoride		<	5	0	<	10	0	<	10.0	0	<	10	0	10	0.000
34	Phenanthrene															
35	Hexachlorocyclopentadiene		<	10	0	<	10.3	0	<	10.0	0	<	10	0	10.3	0.000
36	Dioctyl phthalate		<	10	0	<	10.3	0	<	10.0	0	<	10	0	10.3	0.000
37	Diethyl phthalate		<	10	0	<	10.3	0	<	10.0	0	<	10	0	10.3	0.000
38																
39	PAGE 4 Volatiles			ppb	lb/D		ppb	lb/D		ppb	lb/D		ppb	lb/D	ppb	lb/D
40	Benzene		<	5	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
41	Carbon Tetrachloride		<	5	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
42	Chlorodibromomethane		<	5	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
43	Monochlorobenzene		<	5	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
44	Dichlorobromomethane		<	5	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
45	Chloroform		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
46	1,1-Dichloroethene		<	5	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
47	1,2-Dichloroethene		<	5	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
48	Bromoform		<	5	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
49	Dichloropropylenes		<	5	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
50	Ethylbenzene		<	5	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
51	Tetrachloroethanes		<	5	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
52	Tetrachloroethylene		<	5	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
53	Toluene		<	5	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
54	1,1,1-Trichloroethane		<	5	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
55	1,1,2-Trichloroethane		<	5	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
56	Trichloroethylene		<	5	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
57	Methylene Chloride		<	5	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
58	Monochlorotoluene		<	5	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
59	Monochlorobenzotrifluoride		<	5	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
60	Vinyl chloride		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
61																
62	PAGE 5 Conventionals			mg/l	lb/D		mg/l	lb/D		mg/l	lb/D		mg/l	lb/D	ppb	lb/D
63	TSS			18	2.18	<	4	0.00	<	4.0	0.00		7.0	1.23	5.500	0.8507
64	SOC			220	46.24		3	0.63		120.0	25.22		1.5	0.32	115.750	18.1007
65	Phenol, Total (mg)			0.0106	0.00		0.0105	0.00		0.747	0.11		0.00762	0.00	0.379	0.0279
66																
67	PAGE 6 Pesticides			mg/l	lb/D		mg/l	lb/D		mg/l	lb/D		mg/l	lb/D	ppb	lb/D
68	Hexachlorocylohexane			0.00004753	0.00		0.0007033	0.00		0.0006604	0.00		0.0005005	0.00	0.001	0.000000068
69																
70	Notes: J= Estimated; R = Rejected Result															
71																

OCCIDENTAL CHEMICAL CORPORATION

LOVE CANAL LEACHATE TREATMENT FACILITY

PERMIT NO. 44

3rd Quarter 2002

DATE	FLOW(GPD)		
05/01/02	9,000		
05/02/02	12,300		
05/03/02	14,600		
05/06/02	33,000		
05/07/02	9,300		
05/08/02	8,000		
05/09/02	7,100		
05/10/02	6,300		
05/13/02	40,700		
05/15/02	64,000		
05/16/02	72,600		
05/17/02	72,700		
05/20/02	96,600		
05/21/02	55,600		
05/22/02	11,200		
05/23/02	7,700		
05/24/02	13,900		
05/28/02	33,400		
05/29/02	4,500		
05/30/02	7,500		
05/31/02	9,500		
SUBTOTAL	**589,500**		
06/03/02	18,200		
06/04/02	9,600		
06/06/02	25,500		
06/07/02	6,700		
06/10/02	22,600		
06/11/02	6,000		
06/19/02	60,300		
06/20/02	95,600		
06/21/02	64,500		
06/24/02	9,300		**MGD**
06/25/02	21,000	***Quarterly sampling***	0.021
06/26/02	45,600		
06/27/02	8,000		
06/28/02	2,200		
SUBTOTAL	**395,100**		
07/01/02	27,800		
07/02/02	3,900		
07/03/02	5,400		
07/05/02	11,800		
07/08/02	19,000		
07/10/02	12,600		
07/12/02	12,100		
07/15/02	12,700		
07/17/02	8,600		
07/19/02	11,800		
07/22/02	15,200		
07/23/02	2,900		
07/25/02	13,900		
07/26/02	7,500		
07/29/02	12,800		
07/31/02	16,500		
SUBTOTAL	**194,500**		

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: **44**

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS mg / L		RESULTS LBS / DAY		ANNUAL AVERAGE mg / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	06/25/02		06/25/02			
24 HOUR FLOW IN MGD	0.02100		0.02100		0.01683	(MGD)
TOTAL SUSPENDED SOLIDS	7		1.23		5.500	0.85
SOLUBLE ORGANIC CARBON	1.5		0.32		115.750	18.10
TOTAL PHOSPHOROUS						
TOTAL PHENOL	0.0076		0.0013		0.379	0.028
OIL AND GREASE						
CADMIUM						
CHROMIUM						
COPPER						
LEAD						
MERCURY						
NICKEL						
ZINC						
ARSENIC						
BERYLLIUM						
BARIUM						
TOTAL CYANIDE						
pH (STANDARD UNITS)						
RESIDUAL CHLORINE						
SODIUM CHLORIDE						

Notes: J= Estimated; R = Rejected Result

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: **44**

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	06/25/02		06/25/02			
24 HOUR FLOW IN MGD	0.021		0.021			
BENZENE	< 10		0		< 10	0
CARBON TETRACHLORIDE	< 10		0		< 10	0
CHLORODIBROMOMETHANE	< 10		0		< 10	0
MONOCHLOROBENZENE	< 10		0		< 10	0
DICHLOROBROMOMETHANE	< 10		0		< 10	0
CHLOROFORM	< 10		0		< 10	0
1,1 - DICHLOROETHYLENE	< 10		0		< 10	0
1,2 - DICHLOROETHYLENE	< 10		0		< 10	0
BROMOFORM	< 10		0		< 10	0
DICHLOROPROPYLENES	< 10		0		< 10	0
ETHYLBENZENE	< 10		0		< 10	0
1,1,2,2 - TETRACHLOROETHANE	< 10		0		< 10	0
TETRACHLOROETHYLENE	< 10		0		< 10	0
TOLUENE	< 10		0		< 10	0
1,1,1 - TRICHLOROETHANE	< 10		0		< 10	0
1,1,2 - TRICHLOROETHANE	< 10		0		< 10	0
TRICHLOROETHYLENE	< 10		0		< 10	0
METHYLENE CHLORIDE	< 10		0		< 10	0
MONOCHLOROTOLUENES	< 10		0		< 10	0
MONOCHLOROBENZOTRIFLUROIDE	< 10		0		< 10	0
VINYL CHLORIDE	< 10		0		< 10	0
TETRAHYDRAFURAN						
XYLENE						

Notes: J= Estimated; R = Rejected Result

26-Aug-02

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: **44**

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	06/25/02		06/25/02			
24 HOUR FLOW IN MGD	0.02100		0.02100			
DIMETHYL PHTHALATE	< 10		0		< 10.3	0
BUTYL BENZYL PHTHALATE	< 10		0		< 10.3	0
DIBUTYL PHTHALATE	< 10		0		< 10.3	0
NITROSODIPHENYLAMINE	< 10		0		< 10.3	0
DICHLOROBENZENES	< 10		0		< 10	0
DICHLOROTOLUENE	< 10		0		< 10	0
ACENAPHTHENE	< 10		0		< 10.3	0
FLUORANTHENE	< 10		0		< 10.3	0
CHRYSENE	< 10		0		< 10.3	0
NAPHTHALENE	< 10		0		< 10.3	0
BENZO (a) ANTHRACENE	< 10		0		< 10.3	0
PYRENE	< 10		0		< 10.3	0
TRICHLOROBENZENE	0.474	J	0.00008	J	2.500	0.00002
TRICHLOROTOLUENE	0.524	J	0.00009	J	2.500	0.00002
HEXACHLOROBUTADIENE	< 10		0		< 10.3	0
TETRACHLOROBENZENE	3.73	J	0.00088	J	0.530	0.00040
HEXACHLOROCYCLOPENTADIEN	< 10		0		< 10.3	0
HEXACHLOROBENZENE	< 5		0		< 5.15	0
DICHLOROBENZOTRIFLUORIDE	< 10		0		< 10	0
DIOCTYL PHTHALATE	< 10		0		< 10.3	0
DIETHYL PHTHALATE	< 10		0		< 10.3	0

Notes: J= Estimated; R = Rejected Result

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	06/25/02		06/25/02			
24 HOUR FLOW IN MGD	0.02100		0.02100			
PHENANTHRENE						
MONOCHLOROPHENOL	< 10		0		< 10.3	0
DICHLOROPHENOL	< 10		0		< 10.3	0
MONOCHLOROCRESOL	< 10		0		< 10.3	0
TRICHLOROPHENOL	< 10		0		< 10.3	0
PENTACHLOROPHENOL	< 10		0		< 10.3	0
HEXACHLOROCYCLOHEXANES	0.0005		0.00000009		0.001	0.00000007
PCB'S						
ENDOSULFAN I + ENDOSULFAN II + ENDOSULFAN SULFATE						
MIREX						
DECHLORANE PLUS						
HEPTACHLOR + HEPTACHLOR EPOXIDE						

Notes: J= Estimated; R = Rejected Result

PART II
COMPLIANCE MONITORING

INDUSTRY NAME: OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT FACILITY

PERMIT NO. 44

3rd Quarter 2002

VIOLATION PARAMETER	DATE	FLOW (MGD)	SAMPLE POINT LOCATION	ACTUAL DISCHARGE	PERMIT LIMIT	TYPE LIMIT VIOLATED **
NO VIOLATIONS						

NOTE:

* - ACTUAL DISCHARGE - LIST ACTUAL ANALYTICAL RESULTS AND APPROPRIATE UNITS

** - TYPE LIMIT VIOLATED - LIST TYPE:

A.A. = ANNUAL AVERAGE

D.M. = DAILY MAXIMUM

L.L. = LOCAL LIMITS (ORDINANCE 250.5.1)

CHAIN OF CUSTODY RECORD

Miller Springs Remediation
Occidental Chemical

SHIP TO (LABORATORY NAME):
Ecology & Environmental
Analytical Services Center
LANCASTER, NY 14086

REF NO: 09954
LOVE CANAL
QTY SEWER SAMPLE

SAMPLE RESULTS REPORTING TO:
Susan Scrocchi Fax: (716) 297-2265 Phone: (716)297-2160
Mailing Address: CRA 2055 Niagara Falls Blvd. Suite Three
NIAGARA FALLS, NY 14304

FACILITY LOCATION:
LOVE CANAL

SAMPLER(S) (PRINT NAME)
TB/LK/DC

SIGNATURE Tony Blackman
716/685-8080

DATE	TIME	SAMPLE NO.	COMPOSITE	GRAB	OTHER	CONTAINER TYPE	CONTAINERS NO. of	VOA's	PHENOL	SEMI VOLATIL	PESTICIDES	TSS	SOC				PRESERVED	REMARKS
06/25/02	11:00	INTER-602		X		*	15	8	1	2	2	1	1				HCL	ALL SAMPLES STORED
																		AND SHIPPED IN COOLER(S)
06/25/02	9:20	INF-602		X			10	3	1	2	2	1	1					
06/25/02	10:00	102ND-602		X			10	3	1	2	2	1	1					WITH ICE/ICE PACKS AND
																		KEPT AT 4c
06/25/02	11:00	EFF-602		X			15	8	1	2	2	1	1					
																		COMBINE ALL 8 VOA's PER
																		FOR EACH SET
		Program Complete																voa 40 ml/g hcl
																		phenol 250 G h2so4
06/25/02		LCQTYTP 62502			X	*	1	1										svoc 1 Liter AG
		Beginning Total 17997300																pest 1 Liter AG
		Ending Total 17998300																tss 500 ml p
																		soc 8ozAG
		TOTAL NUMBER OF CONTAINERS					51											

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
Tony Blackman	6/26/02	08:00	[signature]	6 26 02	845
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME

BOTTLE TYPES : G = GLASS ; AG = AMBER GLASS ; P = HPDE (PLASTIC) ; SAG = SILANIZED AMBER GLASS

METHOD OF SHIPMENT : SAMPLE TEAM: TB/LK/DC CHAIN OF CUSTODY NO: LC625021

D. Lund

MILLER SPRINGS REMEDIATION MANAGEMENT INC.

805 – 97th Street, Niagara Falls, NY 14304

A Subsidiary of Occidental Petroleum Corporation

WNY Operation Office

Telephone (716) 283-0112
Fax (716) 283-2856

November 25, 2002
Mr. Albert C. Zaepfel
Industrial Monitoring Coordinator
NIAGARA FALLS WASTEWATER FACILITIES
P.O. Box 69
Niagara Falls, NY 14302-0069

NOV 2 7 2002
NYSDEC-REG. 9
FOIL
X REL _ UNREL

RE: Fourth Quarter 2002 Sampling
Occidental Chemical Corporation, Love Canal Leachate Treatment Facility
Permit No. 44

Dear Mr. Zaepfel:

Enclosed are the monitoring results and discharge report for the Fourth Quarter of 2002.

When concentrations are reported as < or not detected at quantitation levels, calculated mass discharges are listed and included as zero in calculated averages. Similarly one or more < concentrations is averaged with other analyses as zero. When all data averaged are ND, the highest detection level is noted, i.e., <10, <5, <8 is shown as <10.

Should you have any questions, please contact me at 283-0112.

Sincerely yours,

Donald Tubridy

CC:	G.J. Rider, Jr., P.E.	NYSDEC, Albany
	P. Buechi	NYSDEC, Region 9
	B. Downie	MSRM
	G. Luxbacher	GSHI

CITY OF NIAGARA FALLS
DEPARTMENT OF WASTEWATER FACILITIES
ENFORCEMENT DIVISION

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PERMIT NO. 44 QUARTER FOURTH - 2002

INDUSTRY NAME OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT
FACILITY

Pursuant to federal pretreatment reporting requirements and the City Sewer Use Ordinance Chapter 250, Significant Industrial Users shall submit periodic self-monitoring and compliance reports. Such reports shall be submitted using this form, according to the following schedule:

Quarterly	-	1st Quarter by February 28th
	-	2nd Quarter by May 31st
	-	3rd Quarter by August 31st
	-	4th Quarter by November 30th

Each section of this report form shall be filled out for those parameters listed in Section "G" of the company's Wastewater Discharge Permit. The analysis results must be reported in both concentration and mass. In addition, the calculated annual average load (lbs./day) for each pollutant shall also be reported.

The samples shall be collected at the monitoring points identified in the user permit. Identification of those points in this report should be as listed on Page two (2) of the user permit.

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PAGE 2

PART II of the report is the Compliance Monitoring section. The user is obligated to determine if the analysis results indicate compliance or non-compliance. All violations noted should be brought to the City's attention immediately upon noting and should also be reported in this section. The analysis result should be compared against all applicable federal, state and local standards and limitations. If no violations are noted then "NO VIOLATIONS" should appear on the report.

Pursuant to 40 CFR Part 403.12 g of the federal standards, all violations noted must be followed up by a sample recollect/analysis and the results submitted to the City within thirty (30) days of first becoming aware of the violation.

Pursuant to 40 CFR Part 403.12 g , all Periodic Self-Monitoring Reports must be signed by a "responsible company official" certifying the following statement.

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 assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who mange 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.

Signed: _____ Date: 11/26/02

Donald Tubridy
WNY Site Manager

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: **44**

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS mg / L		RESULTS LBS / DAY		ANNUAL AVERAGE mg / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	09/24/02		09/24/02			
24 HOUR FLOW IN MGD	0.00740		0.00740		0.01505	(MGD)
TOTAL SUSPENDED SOLIDS	< 4		0.00		1.750	0.31
SOLUBLE ORGANIC CARBON	4.4		0.92		31.500	6.77
TOTAL PHOSPHOROUS						
TOTAL PHENOL	0.0005		0.00003		0.193	0.028
OIL AND GREASE						
CADMIUM						
CHROMIUM						
COPPER						
LEAD						
MERCURY						
NICKEL						
ZINC						
ARSENIC						
BERYLLIUM						
BARIUM						
TOTAL CYANIDE						
pH (STANDARD UNITS)						
RESIDUAL CHLORINE						
SODIUM CHLORIDE						

Notes: J= Estimated; R = Rejected Result

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: **44**

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	09/24/02		09/24/02			
24 HOUR FLOW IN MGD	0.0074		0.0074			
BENZENE	< 10		0		< 10	0
CARBON TETRACHLORIDE	< 10		0		< 10	0
CHLORODIBROMOMETHANE	< 10		0		< 10	0
MONOCHLOROBENZENE	< 10		0		< 10	0
DICHLOROBROMOMETHANE	< 10		0		< 10	0
CHLOROFORM	< 10		0		< 10	0
1,1 - DICHLOROETHYLENE	< 10		0		< 10	0
1,2 - DICHLOROETHYLENE	< 10		0		< 10	0
BROMOFORM	< 10		0		< 10	0
DICHLOROPROPYLENES	< 10		0		< 10	0
ETHYLBENZENE	< 10		0		< 10	0
1,1,2,2 - TETRACHLOROETHANE	< 10		0		< 10	0
TETRACHLOROETHYLENE	< 10		0		< 10	0
TOLUENE	< 10		0		< 10	0
1,1,1 - TRICHLOROETHANE	< 10		0		< 10	0
1,1,2 - TRICHLOROETHANE	< 10		0		< 10	0
TRICHLOROETHYLENE	< 10		0		< 10	0
METHYLENE CHLORIDE	< 10		0		< 10	0
MONOCHLOROTOLUENES	< 10		0		< 10	0
MONOCHLOROBENZOTRIFLUROIDE	< 10		0		< 10	0
VINYL CHLORIDE	< 10		0		< 10	0
TETRAHYDRAFURAN						
XYLENE						

Notes: J= Estimated; R = Rejected Result

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: **44**

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	R E S ULTS ug / L		R E S ULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	09/24/02		09/24/02			
24 HOUR FLOW IN MGD	0.00740		0.00740			
DIMETHYL PHTHALATE	< 10		0		< 10.3	0
BUTYL BENZYL PHTHALATE	< 10		0		< 10.3	0
DIBUTYL PHTHALATE	< 10		0		< 10.3	0
NITROSODIPHENYLAMINE	< 10		0		< 10.3	0
DICHLOROBENZENES	< 10		0		< 10	0
DICHLOROTOLUENE	< 10		0		< 10	0
ACENAPHTHENE	< 10		0		< 10.3	0
FLUORANTHENE	< 10		0		< 10.3	0
CHRYSENE	< 10		0		< 10.3	0
NAPHTHALENE	< 10		0		< 10.3	0
BENZO (a) ANTHRACENE	< 10		0		< 10.3	0
PYRENE	< 10		0		< 10.3	0
TRICHLOROBENZENE	< 10		0		< 0.118	0.00002
TRICHLOROTOLUENE	< 10		0		< 0.131	0.00002
HEXACHLOROBUTADIENE	< 10		0		< 10.3	0
TETRACHLOROBENZENE	< 5		0		< 1.198	0.00040
HEXACHLOROCYCLOPENTADIEN	< 10		0		< 10.3	0
HEXACHLOROBENZENE	< 5		0		< 5.15	0
DICHLOROBENZOTRIFLUORIDE	< 10		0		< 10	0
DIOCTYL PHTHALATE	< 10		0		< 10.3	0
DIETHYL PHTHALATE	< 10		0		< 10.3	0

Notes: J= Estimated; R = Rejected Result

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: **44**

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	09/24/02		09/24/02			
24 HOUR FLOW IN MGD	0.00740		0.00740			
PHENANTHRENE						
MONOCHLOROPHENOL	< 10		0		< 10.3	0
DICHLOROPHENOL	< 0		0		< 10.3	0
MONOCHLOROCRESOL	< 10		0		< 10.3	0
TRICHLOROPHENOL	< 0		0		< 10.3	0
PENTACHLOROPHENOL	< 10		0		< 10.3	0
HEXACHLOROCYCLOHEXANES	5.1E-05		0.000000003		0.001	0.00000007
PCB'S						
ENDOSULFAN I + ENDOSULFAN II + ENDOSULFAN SULFATE						
MIREX						
DECHLORANE PLUS						
HEPTACHLOR + HEPTACHLOR EPOXIDE						

Notes: J= Estimated; R = Rejected Result

PART II
COMPLIANCE MONITORING

INDUSTRY NAME: OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT FACILITY

PERMIT NO. 44

4th Quarter 2002

VIOLATION PARAMETER	DATE	FLOW (MGD)	SAMPLE POINT LOCATION	ACTUAL DISCHARGE	PERMIT LIMIT	TYPE LIMIT VIOLATED **
NO VIOLATIONS						

NOTE:

* - ACTUAL DISCHARGE - LIST ACTUAL ANALYTICAL RESULTS AND APPROPRIATE UNITS

** - TYPE LIMIT VIOLATED - LIST TYPE:

A.A. = ANNUAL AVERAGE

D.M. = DAILY MAXIMUM

L.L. = LOCAL LIMITS (ORDINANCE 250.5.1)

OCCIDENTAL CHEMICAL CORPORATION

LOVE CANAL LEACHATE TREATMENT FACILITY

PERMIT NO. 44

4th Quarter 2002

DATE	FLOW(GPD)
08/02/02	18,500
08/05/02	11,700
08/07/02	12,400
08/08/02	13,700
08/09/02	9,800
08/12/02	13,100
08/13/02	4,000
08/14/02	3,500
08/15/02	5,700
08/16/02	4,200
08/19/02	15,700
08/20/02	2,800
08/22/02	6,300
08/26/02	6,800
08/27/02	9,600
08/28/02	4,100
08/29/02	9,400
SUBTOTAL	**151,300**
09/02/02	22,600
09/04/02	4,000
09/06/02	8,100
09/09/02	8,600
09/12/02	13,000
09/13/02	3,600
09/16/02	19,900
09/24/02	7,400
09/25/02	21,000
09/26/02	6,400
09/27/02	10,000
09/30/02	24,000
SUBTOTAL	**148,600**
10/03/02	14,200
10/07/02	13,200
10/08/02	6,100
10/09/02	7,500
10/14/02	17,200
10/16/02	12,400
10/18/02	12,100
10/21/02	30,000
10/23/02	13,400
10/24/02	6,100
10/28/02	5,600
10/29/02	8,700
10/31/02	8,100
SUBTOTAL	**154,600**

MGD
0.0074

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	This is the interim sheet															
2	for the 4th. quarter. The															
3	data source is the CRA															
4	and the Q&E sheets. This			1st Quarter 2002			2nd Quarter 2002			3rd Quarter 2002			4th Quarter 2002		Annual Average	
5	data is linked to pg 3 - pg															
5	SAMPLE DATE			12/12/01			03/19/02			06/25/02			09/24/02			
6	FLOW (MGD)			0.01450			0.01730			0.02100			0.00740		0.01505	
7	N/A= Not applicable															
8	PAGE 2 Acid extractables			ug/L	lb/D		ug/L	lb/D		ug/L	lb/D		ug/L	lb/D	ppb	lb/D
9	Monochlorophenol		<	10.3	0	<	10	0	<	10.0	0	<	10	0	10.3	0.000
10	Dichlorophenol		<	10.3	0	<	10	0	<	10.0	0	<	0	0	10.3	0.000
11	Monochlorocresol		<	10.3	0	<	10	0	<	10.0	0	<	10	0	10.3	0.000
12	Trichlorophenol		<	10.3	0	<	10	0	<	10.0	0	<	0	0	10.3	0.000
13	Pentachlorophenol		<	10.3	0	<	10	0	<	10.0	0	<	10	0	10.3	0.000
14																
15	PAGE 3 Base Neutrals														ppb	lb/D
16	Dimethyl Phthalate		<	10.3	0	<	10	0	<	10.0	0	<	10	0	10.3	0.000
17	Butyl Benzyl Phthalate		<	10.3	0	<	10	0	<	10.0	0	<	10	0	10.3	0.000
18	Dibutyl Phthalate		<	10.3	0	<	10	0	<	10.0	0	<	10	0	10.3	0.000
19	Nitrosodiphenylamine		<	10.3	0	<	10	0	<	10.0	0	<	10	0	10.3	0.000
20	Dichlorobenzenes		<	10	0	<	10	0	<	10.0	0	<	10	0	10	0.000
21	Dichlorotoluene		<	10	0	<	10	0	<	10.0	0	<	10	0	10	0.000
22	Acenapthalene		<	10.3	0	<	10	0	<	10.0	0	<	10	0	10.3	0.000
23	Fluoranthene		<	10.3	0	<	10	0	<	10.0	0	<	10	0	10.3	0.000
24	Chrysene		<	10.3	0	<	10	0	<	10.0	0	<	10	0	10.3	0.000
25	Napthalene		<	10.3	0	<	10	0	<	10.0	0	<	10	0	10.3	0.000
26	Benzo(a)anthracene		<	10.3	0	<	10	0	<	10.0	0	<	10	0	10.3	0.000
27	Pyrene		<	10.3	0	<	10	0	<	10.0	0	<	10	0	10.3	0.000
28	Trichlorobenzene		<	10	0	<	10	0		0.5	8.3E-05	<	10	0	0.118	0.000
29	Trichlorotoluene		<	10	0	<	10	0		0.5	9.2E-05	<	10	0	0.131	0.000
30	Hexachlorobutadiene		<	10.3	0	<	10	0	<	10.0	0	<	10	0	10.3	0.000
31	Tetrachlorobenzene		<	5.15	0		1.06	0.00072		3.7	0.00088	<	5	0	1.198	0.000
32	Hexachlorobenzene		<	5.15	0	<	5	0	<	5.0	0	<	5	0	5.15	0.000
33	Dichlorobenzotrifluoride		<	10	0	<	10	0	<	10.0	0	<	10	0	10	0.000
34	Phenanthrene															
35	Hexachlorocyclopentadiene		<	10.3	0	<	10	0	<	10.0	0	<	10	0	10.3	0.000
36	Dioctyl phthalate		<	10.3	0	<	10	0	<	10.0	0	<	10	0	10.3	0.000
37	Diethyl phthalate		<	10.3	0	<	10	0	<	10.0	0	<	10	0	10.3	0.000
38																
39	PAGE 4 Volatiles			ppb	lb/D		ppb	lb/D		ppb	lb/D		ppb	lb/D	ppb	lb/D
40	Benzene		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
41	Carbon Tetrachloride		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
42	Chlorodibromomethane		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
43	Monochlorobenzene		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
44	Dichlorobromomethane		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
45	Chloroform		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
46	1,1-Dichloroethene		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
47	1,2-Dichloroethene		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
48	Bromoform		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
49	Dichloropropylenes		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
50	Ethylbenzene		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
51	Tetrachloroethanes		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
52	Tetrachloroethylene		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
53	Toluene		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
54	1,1,1-Trichloroethane		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
55	1,1,2-Trichloroethane		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
56	Trichloroethylene		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
57	Methylene Chloride		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
58	Monochlorotoluene		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
59	Monochlorobenzotrifluoride		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
60	Vinyl chloride		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
61																
62	PAGE 5 Conventionals			mg/l	lb/D		mg/l	lb/D		mg/l	lb/D		mg/l	lb/D	ppb	lb/D
63	TSS		<	4	0.00	<	4	0.00		7.0	1.23	<	4.0	0.00	1.750	0.3065
64	SOC			3	0.63		120	25.22		1.5	0.32		4.4	0.92	31.500	6.7727
65	Phenol, Total (mg)			0.0105	0.00		0.747	0.11		0.00762	0.00		0.000536	0.00	0.193	0.0276
66																
67	PAGE 6 Pesticides			mg/l	lb/D		mg/l	lb/D		mg/l	lb/D		mg/l	lb/D	ppb	lb/D
68	Hexachlorocylohexane			0.0007033	0.00		0.0006604	0.00		0.0005005	0.00		0.0000513	0.00	0.001	0.00000007
69																
70	Notes: J= Estimated; R = Rejected Result															
71																

CHAIN OF CUSTODY RECORD

Miller Springs Remediation
Occidental Chemical

SHIP TO (LABORATORY NAME):
Ecology & Environmental
Analytical Services Center
LANCASTER, NY 14086

REF NO: 09954
LOVE CANAL
QTY SEWER SAMPLE

SAMPLE RESULTS REPORTING TO:
Susan Scrocchi Fax: (716) 297-2265 Phone: (716)297-2160
Mailing Address: CRA 2055 Niagara Falls Blvd. Suite Three
NIAGARA FALLS, NY 14304

FACILITY LOCATION:
LOVE CANAL

SAMPLER(S) (PRINT NAME)
TB/LK/DC

SIGNATURE Tony Blackmon
716/685-8080

DATE	TIME	SAMPLE NO.	COMPOSITE	GRAB	OTHER	CONTAINER TYPE	CONTAINERS NO. of	VOA's	PHENOL	SEMI VOLATIL	PESTICIDES	TSS	SOC				PRESERVED	REMARKS
09/24/02	9:00	INTER-902		X		*	15	8	1	2	2	1	1				HCL	ALL SAMPLES STORED
																		AND SHIPPED IN COOLER(S)
09/24/02	8:30	INF-902		X			10	3	1	2	2	1	1					
09/24/02	8:00	102ND-902		X			10	3	1	2	2	1	1					WITH ICE/ICE PACKS AND
																		KEPT AT 4c
09/24/02	9:00	EFF-902		X			15	8	1	2	2	1	1					
																		COMBINE ALL 8 VOA's PER
																		FOR EACH SET
		Program Complete																voa 40 ml/g hcl
																		phenol 250 G h2so4
09/24/02		LCQTYTP 92402			X	*	1	1										svoc 1 Liter AG
		Beginning Total - 18479800																pest 1 Liter AG
		Ending Total - 18487100																tss 500 ml p
																		soc 8ozAG
		TOTAL NUMBER OF CONTAINERS					51											

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
Tony Blackmon	9-25-02	8:00	[signature]	9-25-02	8:05
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME

BOTTLE TYPES : G = GLASS ; AG = AMBER GLASS ; P = HPDE (PLASTIC) ; SAG = SILANIZED AMBER GLASS

METHOD OF SHIPMENT : SAMPLE TEAM: TB/LK/DC CHAIN OF CUSTODY NO: LC924021

D. KING DEC

MILLER SPRINGS REMEDIATION MANAGEMENT INC.

805 – 97th Street, Niagara Falls, NY 14304

A Subsidiary of Occidental Petroleum Corporation

WNY Operation Office

Telephone (716) 283-0112
Fax (716) 283-2856

February 26, 2002
Mr. Albert C. Zaepfel
Industrial Monitoring Coordinator
NIAGARA FALLS WASTEWATER FACILITIES
P.O. Box 69
Niagara Falls, NY 14302-0069

AB
BPS

RE: First Quarter 2003 Sampling
Occidental Chemical Corporation, Love Canal Leachate Treatment Facility
Permit No. 44

Dear Mr. Zaepfel:

Enclosed are the monitoring results and discharge report for the First Quarter of 2003.

When concentrations are reported as < or not detected at quantitation levels, calculated mass discharges are listed and included as zero in calculated averages. Similarly one or more < concentrations is averaged with other analyses as zero. When all data averaged are ND, the highest detection level is noted, i.e., <10, <5, <8 is shown as <10.

Should you have any questions, please contact me at 283-0111 x28.

Sincerely yours,

Brian Downie

Brian Downie

CC:	G.J. Rider, Jr., P.E.	NYSDEC, Albany
	P. Buechi	NYSDEC, Region 9
	B. Downie	MSRM
	G. Luxbacher	GSHI

BDD LC-SW-1Q-2003cv.doc

CITY OF NIAGARA FALLS
DEPARTMENT OF WASTEWATER FACILITIES
ENFORCEMENT DIVISION

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PERMIT NO. 44 QUARTER FIRST - 2003

INDUSTRY NAME OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT
FACILITY

Pursuant to federal pretreatment reporting requirements and the City Sewer Use Ordinance Chapter 250, Significant Industrial Users shall submit periodic self-monitoring and compliance reports. Such reports shall be submitted using this form, according to the following schedule:

Quarterly	-	1st Quarter by February 28th
	-	2nd Quarter by May 31st
	-	3rd Quarter by August 31st
	-	4th Quarter by November 30th

Each section of this report form shall be filled out for those parameters listed in Section "G" of the company's Wastewater Discharge Permit. The analysis results must be reported in both concentration and mass. In addition, the calculated annual average load (lbs./day) for each pollutant shall also be reported.

The samples shall be collected at the monitoring points identified in the user permit. Identification of those points in this report should be as listed on Page two (2) of the user permit.

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PAGE 2

PART II of the report is the Compliance Monitoring section. The user is obligated to determine if the analysis results indicate compliance or non-compliance. All violations noted should be brought to the City's attention immediately upon noting and should also be reported in this section. The analysis result should be compared against all applicable federal, state and local standards and limitations. If no violations are noted then "NO VIOLATIONS" should appear on the report.

Pursuant to 40 CFR Part 403.12 g of the federal standards, all violations noted must be followed up by a sample recollect/analysis and the results submitted to the City within thirty (30) days of first becoming aware of the violation.

Pursuant to 40 CFR Part 403.12 g , all Periodic Self-Monitoring Reports must be signed by a "responsible company official" certifying the following statement.

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 assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who mange 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.

Signed: Brian Downie Date: 2/26/03

Brian Downie
Facility Coordinator

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: **44**

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS mg / L		RESULTS LBS / DAY		ANNUAL AVERAGE mg / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	12/17/02		12/17/02			
24 HOUR FLOW IN MGD	0.03060		0.03060		0.01908	(MGD)
TOTAL SUSPENDED SOLIDS	< 4		0.00		1.750	0.31
SOLUBLE ORGANIC CARBON	3.6		0.76		32.575	6.80
TOTAL PHOSPHOROUS						
TOTAL PHENOL	0.0079		0.00200		0.189	0.028
OIL AND GREASE						
CADMIUM						
CHROMIUM						
COPPER						
LEAD						
MERCURY						
NICKEL						
ZINC						
ARSENIC						
BERYLLIUM						
BARIUM						
TOTAL CYANIDE						
pH (STANDARD UNITS)						
RESIDUAL CHLORINE						
SODIUM CHLORIDE						

Notes: J= Estimated; R = Rejected Result

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: **44**

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	12/17/02		12/17/02			
24 HOUR FLOW IN MGD	0.0306		0.0306			
BENZENE	< 10		0		< 10	0
CARBON TETRACHLORIDE	< 10		0		< 10	0
CHLORODIBROMOMETHANE	< 10		0		< 10	0
MONOCHLOROBENZENE	< 10		0		< 10	0
DICHLOROBROMOMETHANE	< 10		0		< 10	0
CHLOROFORM	< 10		0		< 10	0
1,1 - DICHLOROETHYLENE	< 10		0		< 10	0
1,2 - DICHLOROETHYLENE	< 10		0		< 10	0
BROMOFORM	< 10		0		< 10	0
DICHLOROPROPYLENES	< 10		0		< 10	0
ETHYLBENZENE	< 10		0		< 10	0
1,1,2,2 - TETRACHLOROETHANE	< 10		0		< 10	0
TETRACHLOROETHYLENE	< 10		0		< 10	0
TOLUENE	< 10		0		< 10	0
1,1,1 - TRICHLOROETHANE	< 10		0		< 10	0
1,1,2 - TRICHLOROETHANE	< 10		0		< 10	0
TRICHLOROETHYLENE	< 10		0		< 10	0
METHYLENE CHLORIDE	< 10		0		< 10	0
MONOCHLOROTOLUENES	< 10		0		< 10	0
MONOCHLOROBENZOTRIFLUROIDE	< 10		0		< 10	0
VINYL CHLORIDE	< 10		0		< 10	0
TETRAHYDRAFURAN						
XYLENE						

Notes: J= Estimated; R = Rejected Result

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: **44**

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	12/17/02		12/17/02			
24 HOUR FLOW IN MGD	0.03060		0.03060			
DIMETHYL PHTHALATE	< 10		0		< 10	0
BUTYL BENZYL PHTHALATE	< 10		0		< 10	0
DIBUTYL PHTHALATE	< 10		0		< 10	0
NITROSODIPHENYLAMINE	< 10		0		< 10	0
DICHLOROBENZENES	< 10		0		< 10	0
DICHLOROTOLUENE	< 10		0		< 10	0
ACENAPHTHENE	< 10		0		< 10	0
FLUORANTHENE	< 10		0		< 10	0
CHRYSENE	< 10		0		< 10	0
NAPHTHALENE	< 10		0		< 10	0
BENZO (a) ANTHRACENE	< 10		0		< 10	0
PYRENE	< 10		0		< 10	0
TRICHLOROBENZENE	< 10		0		< 0.118	0.00002
TRICHLOROTOLUENE	< 10		0		< 0.131	0.00002
HEXACHLOROBUTADIENE	< 10		0		< 10	0
TETRACHLOROBENZENE	< 5		0		< 1.198	0.00040
HEXACHLOROCYCLOPENTADIEN	< 10		0		< 10	0
HEXACHLOROBENZENE	< 5		0		< 5	0
DICHLOROBENZOTRIFLUORIDE	< 10		0		< 10	0
DIOCTYL PHTHALATE	< 10		0		< 10	0
DIETHYL PHTHALATE	< 10		0		< 10	0

Notes: J= Estimated; R = Rejected Result

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) MS#1 - 97th Street

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	12/17/02		12/17/02			
24 HOUR FLOW IN MGD	0.03060		0.03060			
PHENANTHRENE						
MONOCHLOROPHENOL	< 10		0		< 10	0
DICHLOROPHENOL	< 0		0		< 10	0
MONOCHLOROCRESOL	< 10		0		< 10	0
TRICHLOROPHENOL	< 0		0		< 10	0
PENTACHLOROPHENOL	< 10		0		< 10	0
HEXACHLOROCYCLOHEXANES	1.2E-05		0.000000003		0.000	0.00000005
PCB'S						
ENDOSULFAN I + ENDOSULFAN II + ENDOSULFAN SULFATE						
MIREX						
DECHLORANE PLUS						
HEPTACHLOR + HEPTACHLOR EPOXIDE						

Notes: J= Estimated; R = Rejected Result

PART II
COMPLIANCE MONITORING

INDUSTRY NAME: OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT FACILITY

PERMIT NO. 44

4th Quarter 2002

VIOLATION PARAMETER	DATE	FLOW (MGD)	SAMPLE POINT LOCATION	ACTUAL DISCHARGE	PERMIT LIMIT	TYPE LIMIT VIOLATED **
NO VIOLATIONS						

NOTE:

* - ACTUAL DISCHARGE - LIST ACTUAL ANALYTICAL RESULTS AND APPROPRIATE UNITS

** - TYPE LIMIT VIOLATED - LIST TYPE:

A.A. = ANNUAL AVERAGE

D.M. = DAILY MAXIMUM

L.L. = LOCAL LIMITS (ORDINANCE 250.5.1)

OCCIDENTAL CHEMICAL CORPORATION

LOVE CANAL LEACHATE TREATMENT FACILITY

PERMIT NO. 44

4th Quarter 2002

DATE	FLOW(GPD)
11/01/02	6,800
11/04/02	22,200
11/06/02	8,900
11/08/02	7,700
11/11/02	16,900
11/14/02	25,000
11/18/02	55,400
11/19/02	32,100
11/20/02	23,400
11/21/02	9,100
11/22/02	6,800
11/25/02	46,200
11/26/02	73,000
11/27/02	27,300
SUBTOTAL	**360,800**
12/02/02	50,900
12/03/02	7,700
12/04/02	9,100
12/05/02	4,500
12/09/02	26,700
12/11/02	17,200
12/16/02	11,400
12/17/02	30,600
12/18/02	97,500
12/19/02	55,600
12/20/02	55,300
12/23/02	32,300
12/26/02	39,900
12/30/02	75,300
12/31/02	35,600
SUBTOTAL	**549,600**
01/02/03	89,600
01/03/03	70,700
01/06/03	34,200
01/08/03	20,400
01/09/03	17,600
01/10/03	37,100
01/13/03	40,900
01/15/03	15,200
01/17/03	13,400
01/20/03	19,200
01/22/03	25,200
01/29/03	13,000
01/30/03	21,100
01/31/03	1,800
SUBTOTAL	**419,400**

MGD
0.0306

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	This is the interim sheet															
2	for the 1st. quarter. The															
3	data source is the CRA															
4	and the Q&E sheets. This			2nd Quarter 2002			3rd Quarter 2002			4th Quarter 2002			4th Quarter 2002		Annual Average	
5	data is linked to pg 3 - pg															
5	SAMPLE DATE			03/19/02			06/25/02			09/24/02			12/17/02			
6	FLOW (MGD)			0.01730			0.02100			0.00740			0.03060		0.01908	
7	N/A= Not applicable															
8	PAGE 2 Acid extractables			ug/L	lb/D		ug/L	lb/D		ug/L	lb/D		ug/L	lb/D	ppb	lb/D
9	Monochlorophenol		<	10	0	<	10	0	<	10.0	0	<	10	0	10	0.000
10	Dichlorophenol		<	10	0	<	10	0	<	0.0	0	<	0	0	10	0.000
11	Monochlorocresol		<	10	0	<	10	0	<	10.0	0	<	10	0	10	0.000
12	Trichlorophenol		<	10	0	<	10	0	<	0.0	0	<	0	0	10	0.000
13	Pentachlorophenol		<	10	0	<	10	0	<	10.0	0	<	10	0	10	0.000
14																
15	PAGE 3 Base Neutrals														ppb	lb/D
16	Dimethyl Phthalate		<	10	0	<	10	0	<	10.0	0	<	10	0	10	0.000
17	Butyl Benzyl Phthalate		<	10	0	<	10	0	<	10.0	0	<	10	0	10	0.000
18	Dibutyl Phthalate		<	10	0	<	10	0	<	10.0	0	<	10	0	10	0.000
19	Nitrosodiphenylamine		<	10	0	<	10	0	<	10.0	0	<	10	0	10	0.000
20	Dichlorobenzenes		<	10	0	<	10	0	<	10.0	0	<	10	0	10	0.000
21	Dichlorotoluene		<	10	0	<	10	0	<	10.0	0	<	10	0	10	0.000
22	Acenapthalene		<	10	0	<	10	0	<	10.0	0	<	10	0	10	0.000
23	Fluoranthene		<	10	0	<	10	0	<	10.0	0	<	10	0	10	0.000
24	Chrysene		<	10	0	<	10	0	<	10.0	0	<	10	0	10	0.000
25	Napthalene		<	10	0	<	10	0	<	10.0	0	<	10	0	10	0.000
26	Benzo(a)anthracene		<	10	0	<	10	0	<	10.0	0	<	10	0	10	0.000
27	Pyrene		<	10	0	<	10	0	<	10.0	0	<	10	0	10	0.000
28	Trichlorobenzene		<	10	0		0.474	8.3E-05	<	10.0	0	<	10	0	0.118	0.000
29	Trichlorotoluene		<	10	0		0.524	9.2E-05	<	10.0	0	<	10	0	0.131	0.000
30	Hexachlorobutadiene		<	10	0	<	10	0	<	10.0	0	<	10	0	10	0.000
31	Tetrachlorobenzene			1.06	0.0007		3.73	0.00088	<	5.0	0	<	5	0	1.198	0.000
32	Hexachlorobenzene		<	5	0	<	5	0	<	5.0	0	<	5	0	5	0.000
33	Dichlorobenzotrifluoride		<	10	0	<	10	0	<	10.0	0	<	10	0	10	0.000
34	Phenanthrene															
35	Hexachlorocyclopentadiene		<	10	0	<	10	0	<	10.0	0	<	10	0	10	0.000
36	Dioctyl phthalate		<	10	0	<	10	0	<	10.0	0	<	10	0	10	0.000
37	Diethyl phthalate		<	10	0	<	10	0	<	10.0	0	<	10	0	10	0.000
38																
39	PAGE 4 Volatiles			ppb	lb/D		ppb	lb/D		ppb	lb/D		ppb	lb/D	ppb	lb/D
40	Benzene		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
41	Carbon Tetrachloride		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
42	Chlorodibromomethane		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
43	Monochlorobenzene		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
44	Dichlorobromomethane		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
45	Chloroform		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
46	1,1-Dichloroethene		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
47	1,2-Dichloroethene		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
48	Bromoform		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
49	Dichloropropylenes		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
50	Ethylbenzene		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
51	Tetrachloroethanes		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
52	Tetrachloroethylene		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
53	Toluene		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
54	1,1,1-Trichloroethane		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
55	1,1,2-Trichloroethane		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
56	Trichloroethylene		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
57	Methylene Chloride		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
58	Monochlorotoluene		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
59	Monochlorobenzotrifluoride		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
60	Vinyl chloride		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
61																
62	PAGE 5 Conventionals			mg/l	lb/D		mg/l	lb/D		mg/l	lb/D		mg/l	lb/D	ppb	lb/D
63	TSS		<	4	0.00		7	1.23	<	4.0	0.00	<	4.0	0.00	1.750	0.3065
64	SOC			120	25.22		1.5	0.32		4.4	0.92		3.6	0.76	32.575	6.8042
65	Phenol, Total (mg)			0.747	0.11		0.00762	0.00		0.000536	0.00		0.00785	0.00	0.189	0.0278
66																
67	PAGE 6 Pesticides			mg/l	lb/D		mg/l	lb/D		mg/l	lb/D		mg/l	lb/D	ppb	lb/D
68	Hexachlorocylohexane			0.0006604	0.00		0.0005005	0.00		0.00005129	0.00		0.000012	0.00	0.000	0.00000005
69																
70	Notes: J= Estimated; R = Rejected Result															
71																

CHAIN OF CUSTODY RECORD

Miller Springs Remediation
Occidental Chemical

SHIP TO (LABORATORY NAME):
Ecology & Environmental
Analytical Services Center
LANCASTER, NY 14086

REF NO: 09954
LOVE CANAL
QTY SEWER SAMPLE

SAMPLE RESULTS REPORTING TO:
Susan Scrocchi Fax: (716) 297-2265 Phone: (716)297-2160
Mailing Address: CRA 2055 Niagara Falls Blvd. Suite Three
NIAGARA FALLS, NY 14304

FACILITY LOCATION: **LOVE CANAL**
SAMPLER(S) (PRINT NAME): **TB/LK/DC**
SIGNATURE: **716/685-8080**

DATE	TIME	SAMPLE NO.	COMPOSITE	GRAB	OTHER	CONTAINER TYPE	CONTAINERS NO. of	VOA's	PHENOL	SEMI VOLATIL	PESTICIDES	TSS	SOC				PRESERVED	REMARKS
12/17/02	11:00	INTER-1202		X		*	15	8	1	2	2	1	1				HCL	ALL SAMPLES STORED
																		AND SHIPPED IN COOLER(S)
12/17/02	10:00	INF-1202		X			10	3	1	2	2	1	1					
12/17/02	10:30	102ND-1202		X			10	3	1	2	2	1	1					WITH ICE/ICE PACKS AND
																		KEPT AT 4c
12/17/02	11:00	EFF-1202		X			15	8	1	2	2	1	1					
																		COMBINE ALL 8 VOA's PER
																		FOR EACH SET
																		voa 40 ml/g hcl
																		phenol 250 G h2so4
12/17/02		LCQTYTP 121702			X	*	1	1										svoc 1 Liter AG
		Beginning Total - 19191400																pest 1 Liter AG
		Ending Total - 19222000																tss 1 liter p
																		soc 125ml p h2so4
		TOTAL NUMBER OF CONTAINERS					51											

Program Complete

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
Tony Blackmon	12.18.02	0800	[illegible]	12/18/02	825
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME

BOTTLE TYPES : G = GLASS ; AG = AMBER GLASS ; P = HPDE (PLASTIC) ; SAG = SILANIZED AMBER GLASS

METHOD OF SHIPMENT : SAMPLE TEAM: TB/LK/DC CHAIN OF CUSTODY NO: LC1217021

DKK —

MILLER SPRINGS REMEDIATION MANAGEMENT INC.

805 – 97th Street, Niagara Falls, NY 14304

A Subsidiary of Occidental Petroleum Corporation

WNY Operation Office

Telephone (716) 283-0111 x28
Fax (716) 283-2856

JAK BPS

May 23, 2003

RECEIVED
MAY 28 2003
NYSDEC - REG. 9
FOIL
X REL __ UNREL

Mr. Albert C. Zaepfel
Industrial Monitoring Coordinator
NIAGARA FALLS WASTEWATER FACILITIES
P.O. Box 69
Niagara Falls, NY 14302-0069

RE: Second Quarter 2003 Sampling
Occidental Chemical Corporation, Love Canal Leachate Treatment Facility
Permit No. 44

Dear Mr. Zaepfel:

Enclosed are the monitoring results and discharge report for the Second Quarter of 2003.

When concentrations are reported as < or not detected at quantitation levels, calculated mass discharges are listed and included as zero in calculated averages. Similarly one or more < concentrations is averaged with other analyses as zero. When all data averaged are ND, the highest detection level is noted, i.e., <10, <5, <8 is shown as <10.

Should you have any questions, please contact me at 283-0111 x28.

Sincerely yours,

Brian Downie

Brian Downie
Facility Coordinator

CC:	G.J. Rider, Jr., P.E.	NYSDEC, Albany
	P. Buechi	NYSDEC, Region 9
	D. Tubridy	MSRM (File)
	G. Luxbacher	GSHI

CITY OF NIAGARA FALLS
DEPARTMENT OF WASTEWATER FACILITIES
ENFORCEMENT DIVISION

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PERMIT NO. 44 QUARTER SECOND - 2003

INDUSTRY NAME OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT
FACILITY

Pursuant to federal pretreatment reporting requirements and the City Sewer Use Ordinance Chapter 250, Significant Industrial Users shall submit periodic self-monitoring and compliance reports. Such reports shall be submitted using this form, according to the following schedule:

Quarterly	-	1st Quarter by February 28th
	-	2nd Quarter by May 31st
	-	3rd Quarter by August 31st
	-	4th Quarter by November 30th

Each section of this report form shall be filled out for those parameters listed in Section "G" of the company's Wastewater Discharge Permit. The analysis results must be reported in both concentration and mass. In addition, the calculated annual average load (lbs./day) for each pollutant shall also be reported.

The samples shall be collected at the monitoring points identified in the user permit. Identification of those points in this report should be as listed on Page two (2) of the user permit.

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PAGE 2

PART II of the report is the Compliance Monitoring section. The user is obligated to determine if the analysis results indicate compliance or non-compliance. All violations noted should be brought to the City's attention immediately upon noting and should also be reported in this section. The analysis result should be compared against all applicable federal, state and local standards and limitations. If no violations are noted then "NO VIOLATIONS" should appear on the report.

Pursuant to 40 CFR Part 403.12 g of the federal standards, all violations noted must be followed up by a sample recollect/analysis and the results submitted to the City within thirty (30) days of first becoming aware of the violation.

Pursuant to 40 CFR Part 403.12 g , all Periodic Self-Monitoring Reports must be signed by a "responsible company official" certifying the following statement.

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 assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who mange 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.

Signed: Brian Downie Date: 5/23/2003

Brian Downie
Facility Coordinator

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) MS#1 - 97th Street

	RESULTS mg / L		RESULTS LBS / DAY		ANNUAL AVERAGE mg / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	03/06/03		03/06/03			
24 HOUR FLOW IN MGD	0.02230		0.02230		0.02033	(MGD)
TOTAL SUSPENDED SOLIDS	< 4		0.00		1.750	0.31
SOLUBLE ORGANIC CARBON	2.9		0.61		3.275	0.65
TOTAL PHOSPHOROUS						
TOTAL PHENOL	0.0166		0.00309		0.006	0.002
OIL AND GREASE						
CADMIUM						
CHROMIUM						
COPPER						
LEAD						
MERCURY						
NICKEL						
ZINC						
ARSENIC						
BERYLLIUM						
BARIUM						
TOTAL CYANIDE						
pH (STANDARD UNITS)						
RESIDUAL CHLORINE						
SODIUM CHLORIDE						

Notes: J= Estimated; R = Rejected Result

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: **44**

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	03/06/03		03/06/03			
24 HOUR FLOW IN MGD	0.0223		0.0223			
BENZENE	< 10		0		< 10	0
CARBON TETRACHLORIDE	< 10		0		< 10	0
CHLORODIBROMOMETHANE	< 10		0		< 10	0
MONOCHLOROBENZENE	< 10		0		< 10	0
DICHLOROBROMOMETHANE	< 10		0		< 10	0
CHLOROFORM	0.586	J	0.00011		0.147	2.72E-05
1,1 - DICHLOROETHYLENE	< 10		0		< 10	0
1,2 - DICHLOROETHYLENE	< 10		0		< 10	0
BROMOFORM	< 10		0		< 10	0
DICHLOROPROPYLENES	< 10		0		< 10	0
ETHYLBENZENE	< 10		0		< 10	0
1,1,2,2 - TETRACHLOROETHANE	< 10		0		< 10	0
TETRACHLOROETHYLENE	< 10		0		< 10	0
TOLUENE	< 10		0		< 10	0
1,1,1 - TRICHLOROETHANE	< 10		0		< 10	0
1,1,2 - TRICHLOROETHANE	< 10		0		< 10	0
TRICHLOROETHYLENE	< 10		0		< 10	0
METHYLENE CHLORIDE	< 10		0		< 10	0
MONOCHLOROTOLUENES	< 10		0		< 10	0
MONOCHLOROBENZOTRIFLUROIDE	< 10		0		< 10	0
VINYL CHLORIDE	< 10		0		< 10	0
TETRAHYDRAFURAN						
XYLENE						

Notes: J= Estimated; R = Rejected Result

23-May-03

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: **44**

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	R E S ULTS ug / L		R E S ULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	03/06/03		03/06/03			
24 HOUR FLOW IN MGD	0.02230		0.02230			
DIMETHYL PHTHALATE	< 10.2		0		< 10	0
BUTYL BENZYL PHTHALATE	< 10.2		0		< 10	0
DIBUTYL PHTHALATE	< 10.2		0		< 10	0
NITROSODIPHENYLAMINE	< 10.2		0		< 10	0
DICHLOROBENZENES	< 10		0		< 10	0
DICHLOROTOLUENE	< 10		0		< 10	0
ACENAPHTHENE	< 10.2		0		< 10	0
FLUORANTHENE	< 10.2		0		< 10	0
CHRYSENE	< 10.2		0		< 10	0
NAPHTHALENE	< 10.2		0		< 10	0
BENZO (a) ANTHRACENE	< 10.2		0		< 10	0
PYRENE	< 10.2		0		< 10	0
TRICHLOROBENZENE	< 10		0		< 0.119	0.00002
TRICHLOROTOLUENE	< 10		0		< 0.131	0.00002
HEXACHLOROBUTADIENE	< 10.2		0		< 10	0
TETRACHLOROBENZENE	< 5.1		0		< 0.933	0.00022
HEXACHLOROCYCLOPENTADIEN	< 10.2		0		< 10	0
HEXACHLOROBENZENE	< 5.1		0		< 5	0
DICHLOROBENZOTRIFLUORIDE	< 10		0		< 10	0
DIOCTYL PHTHALATE	< 10.2		0		< 10	0
DIETHYL PHTHALATE	< 10.2		0		< 10	0

Notes: J= Estimated; R = Rejected Result

23-May-03

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) MS#1 - 97th Street

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	03/06/03		03/06/03			
24 HOUR FLOW IN MGD	0.02230		0.02230			
PHENANTHRENE						
MONOCHLOROPHENOL	< 10.2		0		< 10	0
DICHLOROPHENOL	< 10.2		0		< 10	0
MONOCHLOROCRESOL	< 10.2		0		< 10	0
TRICHLOROPHENOL	< 0		0		< 10	0
PENTACHLOROPHENOL	< 10.2		0		< 10	0
HEXACHLOROCYCLOHEXANES	2.6E-05		0.000000005		0.000	0.00000002
PCB'S						
ENDOSULFAN I + ENDOSULFAN II + ENDOSULFAN SULFATE						
MIREX						
DECHLORANE PLUS						
HEPTACHLOR + HEPTACHLOR EPOXIDE						

Notes: J= Estimated; R = Rejected Result

PART II
COMPLIANCE MONITORING

INDUSTRY NAME: OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT FACILITY

PERMIT NO. 44

2nd Quarter 2003

VIOLATION PARAMETER	DATE	FLOW (MGD)	SAMPLE POINT LOCATION	ACTUAL DISCHARGE	PERMIT LIMIT	TYPE LIMIT VIOLATED **
NO VIOLATIONS						

NOTE:

* - ACTUAL DISCHARGE - LIST ACTUAL ANALYTICAL RESULTS AND APPROPRIATE UNITS

** - TYPE LIMIT VIOLATED - LIST TYPE:

A.A. = ANNUAL AVERAGE

D.M. = DAILY MAXIMUM

L.L. = LOCAL LIMITS (ORDINANCE 250.5.1)

OCCIDENTAL CHEMICAL CORPORATION

LOVE CANAL LEACHATE TREATMENT FACILITY

PERMIT NO. 44

2nd Quarter 2003

DATE	FLOW(GPD)
02/03/03	14,400
02/04/03	50,100
02/05/03	31,900
02/06/03	10,700
02/10/03	26,200
02/11/03	17,800
02/13/03	6,700
02/18/03	27,000
02/21/03	17,900
02/24/03	28,400
02/25/03	22,600
02/26/03	8,500
02/27/03	4,100
SUBTOTAL	**266,300**
03/04/03	7,400
03/05/03	11,700
03/06/03	22,300
03/07/03	23,500
03/10/03	70,200
03/11/03	10,600
03/13/03	19,400
03/17/03	78,900
03/18/03	23,100
03/19/03	24,600
03/20/03	70,700
03/21/03	50,800
03/24/03	82,800
03/25/03	62,100
03/27/03	75,200
03/28/03	26,400
03/31/03	61,800
SUBTOTAL	**721,500**
04/01/03	9,900
04/02/03	16,000
04/07/03	82,900
04/08/03	33,300
04/09/03	45,700
04/10/03	45,500
04/11/03	30,500
04/14/03	59,100
04/15/03	9,800
04/17/03	19,400
04/18/03	5,000
04/21/03	21,000
04/23/03	7,800
04/24/03	22,000
04/25/03	6,800
04/28/03	18,100
SUBTOTAL	**432,800**

MGD
0.0223

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	This is the interim sheet															
2	for the 2ndt. quarter. The															
3	data source is the CRA															
4	and the Q&E sheets. This data is linked to pg 3 - pg			3rd Quarter 2002			4th Quarter 2002			1st Quarter 2003			2nd Quarter 2003		Annual Average	
5	SAMPLE DATE			06/25/02			09/24/02			12/17/02			03/06/03			
6	FLOW (MGD)			0.02100			0.00740			0.03060			0.02230		0.02033	
7	N/A= Not applicable															
8	PAGE 2 Acid extractables			ug/L	lb/D		ug/L	lb/D		ug/L	lb/D		ug/L	lb/D	ppb	lb/D
9	Monochlorophenol		<	10	0	<	10	0	<	10.0	0	<	10.2	0	10	0.000
10	Dichlorophenol		<	10	0	<	0	0	<	0.0	0	<	10.2	0	10	0.000
11	Monochlorocresol		<	10	0	<	10	0	<	10.0	0	<	10.2	0	10	0.000
12	Trichlorophenol		<	10	0	<	0	0	<	0.0	0	<	0	0	10	0.000
13	Pentachlorophenol		<	10	0	<	10	0	<	10.0	0	<	10.2	0	10	0.000
14																
15	PAGE 3 Base Neutrals														ppb	lb/D
16	Dimethyl Phthalate		<	10	0	<	10	0	<	10.0	0	<	10.2	0	10	0.000
17	Butyl Benzyl Phthalate		<	10	0	<	10	0	<	10.0	0	<	10.2	0	10	0.000
18	Dibutyl Phthalate		<	10	0	<	10	0	<	10.0	0	<	10.2	0	10	0.000
19	Nitrosodiphenylamine		<	10	0	<	10	0	<	10.0	0	<	10.2	0	10	0.000
20	Dichlorobenzenes		<	10	0	<	10	0	<	10.0	0	<	10	0	10	0.000
21	Dichlorotoluene		<	10	0	<	10	0	<	10.0	0	<	10	0	10	0.000
22	Acenapthalene		<	10	0	<	10	0	<	10.0	0	<	10.2	0	10	0.000
23	Fluoranthene		<	10	0	<	10	0	<	10.0	0	<	10.2	0	10	0.000
24	Chrysene		<	10	0	<	10	0	<	10.0	0	<	10.2	0	10	0.000
25	Napthalene		<	10	0	<	10	0	<	10.0	0	<	10.2	0	10	0.000
26	Benzo(a)anthracene		<	10	0	<	10	0	<	10.0	0	<	10.2	0	10	0.000
27	Pyrene		<	10	0	<	10	0	<	10.0	0	<	10.2	0	10	0.000
28	Trichlorobenzene			0.474	8E-05	<	10	0	<	10.0	0	<	10	0	0.119	0.000
29	Trichlorotoluene			0.524	9E-05	<	10	0	<	10.0	0	<	10	0	0.131	0.000
30	Hexachlorobutadiene		<	10	0	<	10	0	<	10.0	0	<	10.2	0	10	0.000
31	Tetrachlorobenzene			3.73	0.0009	<	5	0	<	5.0	0	<	5.1	0	0.933	0.000
32	Hexachlorobenzene		<	5	0	<	5	0	<	5.0	0	<	5.1	0	5	0.000
33	Dichlorobenzotrifluoride		<	10	0	<	10	0	<	10.0	0	<	10	0	10	0.000
34	Phenanthrene															
35	Hexachlorocyclopentadiene		<	10	0	<	10	0	<	10.0	0	<	10.2	0	10	0.000
36	Dioctyl phthalate		<	10	0	<	10	0	<	10.0	0	<	10.2	0	10	0.000
37	Diethyl phthalate		<	10	0	<	10	0	<	10.0	0	<	10.2	0	10	0.000
38																
39	PAGE 4 Volatiles			ppb	lb/D		ppb	lb/D		ppb	lb/D		ppb	lb/D	ppb	lb/D
40	Benzene		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
41	Carbon Tetrachloride		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
42	Chlorodibromomethane		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
43	Monochlorobenzene		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
44	Dichlorobromomethane		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
45	Chloroform		<	10	0	<	10	0	<	10.0	0		0.6 J	0.000109	0.147	0.000
46	1,1-Dichloroethene		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
47	1,2-Dichloroethene		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
48	Bromoform		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
49	Dichloropropylenes		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
50	Ethylbenzene		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
51	Tetrachloroethanes		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
52	Tetrachloroethylene		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
53	Toluene		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
54	1,1,1-Trichloroethane		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
55	1,1,2-Trichloroethane		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
56	Trichloroethylene		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
57	Methylene Chloride		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
58	Monochlorotoluene		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
59	Monochlorobenzotrifluoride		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
60	Vinyl chloride		<	10	0	<	10	0	<	10.0	0	<	10.0	0	10	0.000
61																
62	PAGE 5 Conventionals			mg/l	lb/D		mg/l	lb/D		mg/l	lb/D		mg/l	lb/D	ppb	lb/D
63	TSS			7	1.23	<	4	0.00	<	4.0	0.00	<	4.0	0.00	1.750	0.3065
64	SOC			1.5	0.32		4.4	0.92		3.6	0.76		2.9	0.61	3.275	0.6515
65	Phenol, Total (mg)			0.00762	0.00		0.000536	0.00		0.00785	0.00		0.0166	0.00	0.006	0.0016
66																
67	PAGE 6 Pesticides			mg/l	lb/D		mg/l	lb/D		mg/l	lb/D		mg/l	lb/D	ppb	lb/D
68	Hexachlorocylohexane			0.0005005	0.00		0.00005129	0.00		0.0000124	0.00		0.000026	0.000	0.000	0.00000002
69																
70	Notes: J= Estimated; R = Rejected Result															
71																

MILLER SPRINGS REMEDIATION MANAGEMENT INC.
805 – 97th Street, Niagara Falls, NY 14304
A Subsidiary of Occidental Petroleum Corporation

WNY Operation Office

Telephone (716) 283-0111 x28
Fax (716) 283-2856

JAK
BPS

November 24, 2003

Mr. Albert C. Zaepfel
Industrial Monitoring Coordinator
NIAGARA FALLS WASTEWATER FACILITIES
P.O. Box 69
Niagara Falls, NY 14302-0069

NOV 26 2003
NYSDEC - REG. 9
FOIL
X_REL __UNREL

RE: Fourth Quarter 2003 Sampling
Occidental Chemical Corporation, Love Canal Leachate Treatment Facility
Permit No. 44

Dear Mr. Zaepfel:

Enclosed are the monitoring results and discharge report for the Fourth Quarter of 2003.

When concentrations are reported as < or not detected at quantitation levels, calculated mass discharges are listed and included as zero in calculated averages. Similarly one or more < concentrations is averaged with other analyses as zero. When all data averaged are ND, the highest detection level is noted, i.e., <10, <5, <8 is shown as <10.

Should you have any questions, please contact me at 283-0111 x28.

Sincerely yours,

Brian Downie

Brian Downie
Facility Coordinator

CC: G.J. Rider, Jr., P.E.
J. Konsella P.E., B. Sadowski
D. McLeod

NYSDEC, Albany
NYSDEC, Region 9 ✓
MSRM (File)

CITY OF NIAGARA FALLS
DEPARTMENT OF WASTEWATER FACILITIES
ENFORCEMENT DIVISION

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PERMIT NO. 44 QUARTER FOURTH - 2003

INDUSTRY NAME OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT
FACILITY

Pursuant to federal pretreatment reporting requirements and the City Sewer Use Ordinance Chapter 250, Significant Industrial Users shall submit periodic self-monitoring and compliance reports. Such reports shall be submitted using this form, according to the following schedule:

Quarterly	-	1st Quarter by February 28th
	-	2nd Quarter by May 31st
	-	3rd Quarter by August 31st
	-	4th Quarter by November 30th

Each section of this report form shall be filled out for those parameters listed in Section "G" of the company's Wastewater Discharge Permit. The analysis results must be reported in both concentration and mass. In addition, the calculated annual average load (lbs./day) for each pollutant shall also be reported.

The samples shall be collected at the monitoring points identified in the user permit. Identification of those points in this report should be as listed on Page two (2) of the user permit.

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PAGE 2

PART II of the report is the Compliance Monitoring section. The user is obligated to determine if the analysis results indicate compliance or non-compliance. All violations noted should be brought to the City's attention immediately upon noting and should also be reported in this section. The analysis result should be compared against all applicable federal, state and local standards and limitations. If no violations are noted then "NO VIOLATIONS" should appear on the report.

Pursuant to 40 CFR Part 403.12 g of the federal standards, all violations noted must be followed up by a sample recollect/analysis and the results submitted to the City within thirty (30) days of first becoming aware of the violation.

Pursuant to 40 CFR Part 403.12 g , all Periodic Self-Monitoring Reports must be signed by a "responsible company official" certifying the following statement.

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 assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who mange 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.

Signed: Brian Downie Date: 11-25-03

Brian Downie
Facility Coordinator

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS mg / L		RESULTS LBS / DAY		ANNUAL AVERAGE mg / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	09/09/03		09/09/03			
24 HOUR FLOW IN MGD	0.01170		0.01170		0.01615	(MGD)
TOTAL SUSPENDED SOLIDS	< 4		0.00		4	0.00
SOLUBLE ORGANIC CARBON	2.0		0.00		3.467	0.55
TOTAL PHOSPHOROUS						
TOTAL PHENOL	< 0.0050		0.00000		0.015	0.001
OIL AND GREASE						
CADMIUM						
CHROMIUM						
COPPER						
LEAD						
MERCURY						
NICKEL						
ZINC						
ARSENIC						
BERYLLIUM						
BARIUM						
TOTAL CYANIDE						
pH (STANDARD UNITS)						
RESIDUAL CHLORINE						
SODIUM CHLORIDE						

Notes: J= Estimated; R = Rejected Result

PART I

ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation

Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	09/09/03		09/09/03			
24 HOUR FLOW IN MGD	0.0117		0.0117			
BENZENE	< 10		0		< 10	0
CARBON TETRACHLORIDE	< 10		0		< 10	0
CHLORODIBROMOMETHANE	< 10		0		< 10	0
MONOCHLOROBENZENE	< 10		0		< 10	0
DICHLOROBROMOMETHANE	< 10		0		< 10	0
CHLOROFORM	< 10		0		< 0.146	2.72E-05
1,1 - DICHLOROETHYLENE	< 10		0		< 10	0
1,2 - DICHLOROETHYLENE	< 10		0		< 10	0
BROMOFORM	< 10		0		< 10	0
DICHLOROPROPYLENES	< 10		0		< 10	0
ETHYLBENZENE	< 10		0		< 10	0
1,1,2,2 - TETRACHLOROETHANE	< 10		0		< 10	0
TETRACHLOROETHYLENE	< 10		0		< 10	0
TOLUENE	< 10		0		< 10	0
1,1,1 - TRICHLOROETHANE	< 10		0		< 10	0
1,1,2 - TRICHLOROETHANE	< 10		0		< 10	0
TRICHLOROETHYLENE	< 10		0		< 10	0
METHYLENE CHLORIDE	< 10		0		< 10	0
MONOCHLOROTOLUENES	< 10		0		< 10	0
MONOCHLOROBENZOTRIFLUROID	< 10		0		< 10	0
VINYL CHLORIDE	< 10		0		< 10	0

Notes: J= Estimated; R = Rejected Result

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation

Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	09/09/03		09/09/03			
24 HOUR FLOW IN MGD	0.01170		0.01170			
DIMETHYL PHTHALATE	< 9.35		0		< 10.2	0
BUTYL BENZYL PHTHALATE	< 9.35		0		< 10.2	0
DIBUTYL PHTHALATE	< 9.35		0		< 10.2	0
NITROSODIPHENYLAMINE	< 9.35		0		< 10.2	0
DICHLOROBENZENES	< 10		0		< 10	0
DICHLOROTOLUENE	< 10		0		< 10	0
ACENAPHTHENE	< 9.35		0		< 10.2	0
FLUORANTHENE	< 9.35		0		< 10.2	0
CHRYSENE	< 9.35		0		< 10.2	0
NAPHTHALENE	< 9.35		0		< 10.2	0
BENZO (a) ANTHRACENE	< 9.35		0		< 10.2	0
PYRENE	< 9.35		0		< 10.2	0
TRICHLOROBENZENE	< 10		0		< 10	0
TRICHLOROTOLUENE	< 10		0		< 10	0
HEXACHLOROBUTADIENE	< 9.35		0		< 10.2	0
TETRACHLOROBENZENE	< 4.67		0		< 5.96	0
HEXACHLOROCYCLOPENTADI	< 9.35		0		< 10.2	0
HEXACHLOROBENZENE	< 4.67		0		< 5.1	0
DICHLOROBENZOTRIFLUORID	< 10		0		< 10	0
DIOCTYL PHTHALATE	< 9.35		0		< 10.2	0
DIETHYL PHTHALATE	< 9.35		0		< 10.2	0

Notes: J= Estimated; R = Rejected Result

PART I

ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation

Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	09/09/03		09/09/03			
24 HOUR FLOW IN MGD	0.01170		0.01170			
PHENANTHRENE						
MONOCHLOROPHENOL	< 9.35		0		< 10.2	0
DICHLOROPHENOL	< 9.35		0		< 10.2	0
MONOCHLOROCRESOL	< 9.35		0		< 10.2	0
TRICHLOROPHENOL	< 9.35		0		< 10.1	0
PENTACHLOROPHENOL	< 9.35		0		< 10.2	0
HEXACHLOROCYCLOHEXANES	J 2.2E-05		0.000000002		0.000	0.00000000
PCB'S						
ENDOSULFAN I + ENDOSULFAN II + ENDOSULFAN SULFATE						
MIREX						
DECHLORANE PLUS						
HEPTACHLOR + HEPTACHLOR EPOXIDE						

Notes: J= Estimated; R = Rejected Result

PART II
COMPLIANCE MONITORING

INDUSTRY NAME: OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT FACILITY

PERMIT NO. 44

4th Quarter 2003

VIOLATION PARAMETER	DATE	FLOW (MGD)	SAMPLE POINT LOCATION	ACTUAL DISCHARGE	PERMIT LIMIT	TYPE LIMIT VIOLATED **
NO VIOLATIONS						

NOTE:

* - ACTUAL DISCHARGE - LIST ACTUAL ANALYTICAL RESULTS AND APPROPRIATE UNITS

** - TYPE LIMIT VIOLATED - LIST TYPE:

A.A. = ANNUAL AVERAGE

D.M. = DAILY MAXIMUM

L.L. = LOCAL LIMITS (ORDINANCE 250.5.1)

OCCIDENTAL CHEMICAL CORPORATION

LOVE CANAL LEACHATE TREATMENT FACILITY

PERMIT NO. 44

4th Quarter 2003

DATE	FLOW(GPD)
08/04/03	26,000
08/07/03	14,100
08/11/03	18,100
08/14/03	22,800
08/18/03	16,500
08/21/03	24,200
08/25/03	19,700
08/28/03	17,200
SUBTOTAL	**158,600**
09/02/03	14,400
09/03/03	10,700
09/09/03	11,700
09/10/03	14,600
09/17/03	27,500
09/19/03	11,000
09/24/03	15,900
SUBTOTAL	**105,800**
10/01/03	47,500
10/03/03	15,000
10/06/03	15,600
10/13/03	25,100
10/15/03	23,500
10/21/03	34,600
10/24/03	12,900
10/28/03	7,600
10/30/03	29,200
SUBTOTAL	**211,000**

MGD
0.0117

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	This is the interim sheet for															
2	the 4th quarter. The data															
3	source is the CRA and the															
4	Q&E sheets. This data is			1st Quarter 2003			2nd Quarter 2003			3rd Quarter 2003			4th Quarter 2003		Annual Average	
5	linked to pg 3 - pg 6.															
5	**SAMPLE DATE**			12/17/02			03/06/03			06/16/03			09/09/03			
6	**FLOW (MGD)**			0.03060			0.02230			0.00000			0.01170		0.01615	
7	N/A= Not applicable															
8	**PAGE 2 Acid extractables**			ug/L	lb/D		ug/L	lb/D		ug/L	lb/D		ug/L	lb/D	ppb	lb/D
9	Monochlorophenol		<	10	0	<	10.2	0	<	10.1	0	<	9.35	0	10.2	0.000
10	Dichlorophenol		<	0	0	<	10.2	0	<	10.1	0	<	9.35	0	10.2	0.000
11	Monochlorocresol		<	10	0	<	10.2	0	<	10.1	0	<	9.35	0	10.2	0.000
12	Trichlorophenol		<	0	0	<	0.0	0	<	10.1	0	<	9.35	0	10.1	0.000
13	Pentachlorophenol		<	10	0	<	10.2	0	<	10.1	0	<	9.35	0	10.2	0.000
14																
15	**PAGE 3 Base Neutrals**														ppb	lb/D
16	Dimethyl Phthalate		<	10	0	<	10.2	0	<	10.1	0	<	9.35	0	10.2	0.000
17	Butyl Benzyl Phthalate		<	10	0	<	10.2	0	<	10.1	0	<	9.35	0	10.2	0.000
18	Dibutyl Phthalate		<	10	0	<	10.2	0	<	10.1	0	<	9.35	0	10.2	0.000
19	Nitrosodiphenylamine		<	10	0	<	10.2	0	<	10.1	0	<	9.35	0	10.2	0.000
20	Dichlorobenzenes		<	10	0	<	10.0	0	<	10	0	<	10	0	10	0.000
21	Dichlorotoluene		<	10	0	<	10.0	0	<	10	0	<	10	0	10	0.000
22	Acenapthalene		<	10	0	<	10.2	0	<	10.1	0	<	9.35	0	10.2	0.000
23	Fluoranthene		<	10	0	<	10.2	0	<	10.1	0	<	9.35	0	10.2	0.000
24	Chrysene		<	10	0	<	10.2	0	<	10.1	0	<	9.35	0	10.2	0.000
25	Napthalene		<	10	0	<	10.2	0	<	10.1	0	<	9.35	0	10.2	0.000
26	Benzo(a)anthracene		<	10	0	<	10.2	0	<	10.1	0	<	9.35	0	10.2	0.000
27	Pyrene		<	10	0	<	10.2	0	<	10.1	0	<	9.35	0	10.2	0.000
28	Trichlorobenzene		<	10	0	<	10.0	0	<	10	0	<	10	0	10	0.000
29	Trichlorotoluene		<	10	0	<	10.0	0	<	10	0	<	10	0	10	0.000
30	Hexachlorobutadiene		<	10	0	<	10.2	0	<	10.1	0	<	9.35	0	10.2	0.000
31	Tetrachlorobenzene		<	5	0	<	5.1	0	<	5.96	0	<	4.67	0	5.96	0.000
32	Hexachlorobenzene		<	5	0	<	5.1	0	<	5.05	0	<	4.67	0	5.1	0.000
33	Dichlorobenzotrifluoride		<	10	0	<	10.0	0	<	10	0	<	10	0	10	0.000
34	Phenanthrene															
35	Hexachlorocyclopentadiene		<	10	0	<	10.2	0	<	10.1	0	<	9.35	0	10.2	0.000
36	Dioctyl phthalate		<	10	0	<	10.2	0	<	10.1	0	<	9.35	0	10.2	0.000
37	Diethyl phthalate		<	10	0	<	10.2	0	<	10.1	0	<	9.35	0	10.2	0.000
38																
39	**PAGE 4 Volatiles**			ppb	lb/D		ppb	lb/D		ppb	lb/D		ppb	lb/D	ppb	lb/D
40	Benzene		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
41	Carbon Tetrachloride		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
42	Chlorodibromomethane		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
43	Monochlorobenzene		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
44	Dichlorobromomethane		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
45	Chloroform		<	10	0		0.6	0.00011	<	10.0	0	<	10.0	0	0.146	0.000
46	1,1-Dichloroethene		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
47	1,2-Dichloroethene		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
48	Bromoform		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
49	Dichloropropylenes		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
50	Ethylbenzene		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
51	Tetrachloroethanes		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
52	Tetrachloroethylene		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
53	Toluene		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
54	1,1,1-Trichloroethane		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
55	1,1,2-Trichloroethane		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
56	Trichloroethylene		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
57	Methylene Chloride		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
58	Monochlorotoluene		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
59	Monochlorobenzotrifluoride		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
60	Vinyl chloride		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
61																
62	**PAGE 5 Conventionals**			mg/l	lb/D		mg/l	lb/D		mg/l	lb/D		mg/l	lb/D	ppb	lb/D
63	TSS		<	4	0.00	<	4.0	0.00	<	4.0	0.00	<	4.0	0.00	4	0.0000
64	SOC			3.6	0.76		2.9	0.61		3.9	0.82		2.0	0.00	3.467	0.5464
65	Phenol, Total (mg)			0.00785	0.00		0.0166	0.00		0.0369	0.00	<	0.005	0.00	0.015	0.0013
66																
67	**PAGE 6 Pesticides**			mg/l	lb/D		mg/l	lb/D		mg/l	lb/D		mg/l	lb/D	ppb	lb/D
68	Hexachlorocylohexane			0.0000124	0.00		0.00002559	0.00		0.000127	0.000	J	0.000022	0.000	0.000	0.00000000
69																
70	Notes: J= Estimated; R = Rejected Result												J			
71																

CHAIN OF CUSTODY RECORD

Miller Springs Remediation
Occidental Chemical

SHIP TO (LABORATORY NAME):
Ecology & Environmental
Analytical Services Center
LANCASTER, NY 14086

REF NO: 09954
LOVE CANAL
QTY SEWER SAMPLE

SAMPLE RESULTS REPORTING TO:
Susan Scrocchi Fax: (716) 297-2265 Phone: (716)297-2160
Mailing Address: CRA 2055 Niagara Falls Blvd. Suite Three
NIAGARA FALLS, NY 14304

FACILITY LOCATION:
LOVE CANAL

SAMPLER(S) (PRINT NAME)
TB/LK/DC

SIGNATURE Tony Blackman
716/685-8080

DATE	TIME	SAMPLE NO.	COMPOSITE	GRAB	OTHER	CONTAINER TYPE	CONTAINERS NO. of	VOA's	PHENOL	SEMI VOLATIL	PESTICIDES	TSS	SOC				PRESERVED	REMARKS
09/09/03	11:00	INTER-903		X		*	15	8	1	2	2	1	1				HCL	ALL SAMPLES STORED
																		AND SHIPPED IN COOLER(S)
09/09/03	9:00	INF-903		X			10	3	1	2	2	1	1					
09/09/03	9:30	102ND-903		X			10	3	1	2	2	1	1					WITH ICE/ICE PACKS AND
																		KEPT AT 4c
09/09/03	11:00	EFF-903		X			15	8	1	2	2	1	1					
																		COMBINE ALL 8 VOA's PER
																		FOR EACH SET
		Program Complete																voa 40 ml/g hcl
																		phenol 250 G h2so4
09/09/03		LCQTYTP 9903			X	*	1	1										svoc 1 Liter AG
		Beginning Total - 22618200																pest 1 Liter AG
		Ending Total - 22629900																tss 1 liter p
																		soc 125ml p h2so4
		TOTAL NUMBER OF CONTAINERS					51											

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
Tony Blackman	9/10/03	07:00	C. Grant	9/10/03	800

BOTTLE TYPES : G = GLASS ; AG = AMBER GLASS ; P = HPDE (PLASTIC) ; SAG = SILANIZED AMBER GLASS

METHOD OF SHIPMENT : SAMPLE TEAM: TB/LK/DC CHAIN OF CUSTODY NO: LC99031

MILLER SPRINGS REMEDIATION MANAGEMENT INC.
805 – 97th Street, Niagara Falls, NY 14304
A Subsidiary of Occidental Petroleum Corporation

WNY Operation Office

Telephone (716) 283-0111 x28
Fax (716) 283-2856

JAK

February 13, 2004

RECEIVED
FEB 19 2004
NYSDEC REG 9
X FOIL
REL ___UNREL

Mr. Albert C. Zaepfel
Industrial Monitoring Coordinator
NIAGARA FALLS WASTEWATER FACILITIES
P.O. Box 69
Niagara Falls, NY 14302-0069

RE: First Quarter 2004 Sampling
Occidental Chemical Corporation, Love Canal Leachate Treatment Facility
Permit No. 44

Dear Mr. Zaepfel:

Enclosed are the monitoring results and discharge report for the First Quarter of 2004.

When concentrations are reported as < or not detected at quantitation levels, calculated mass discharges are listed and included as zero in calculated averages. Similarly one or more < concentrations is averaged with other analyses as zero. When all data averaged are ND, the highest detection level is noted, i.e., <10, <5, <8 is shown as <10.

Should you have any questions, please contact me at 283-0111 x28.

Sincerely yours,

Brian Downie
Facility Coordinator

CC: G.J. Rider, Jr., P.E.
J. Konsella P.E., B. Sadowski
D. McLeod

NYSDEC, Albany
NYSDEC, Region 9
MSRM (File)

BDD LC-SW-1Q-2004cv.doc

CITY OF NIAGARA FALLS
DEPARTMENT OF WASTEWATER FACILITIES
ENFORCEMENT DIVISION

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PERMIT NO. 44 QUARTER FIRST - 2004

INDUSTRY NAME OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT
FACILITY

Pursuant to federal pretreatment reporting requirements and the City Sewer Use Ordinance Chapter 250, Significant Industrial Users shall submit periodic self-monitoring and compliance reports. Such reports shall be submitted using this form, according to the following schedule:

Quarterly
- 1st Quarter by February 28th
- 2nd Quarter by May 31st
- 3rd Quarter by August 31st
- 4th Quarter by November 30th

Each section of this report form shall be filled out for those parameters listed in Section "G" of the company's Wastewater Discharge Permit. The analysis results must be reported in both concentration and mass. In addition, the calculated annual average load (lbs./day) for each pollutant shall also be reported.

The samples shall be collected at the monitoring points identified in the user permit. Identification of those points in this report should be as listed on Page two (2) of the user permit.

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PAGE 2

PART II of the report is the Compliance Monitoring section. The user is obligated to determine if the analysis results indicate compliance or non-compliance. All violations noted should be brought to the City's attention immediately upon noting and should also be reported in this section. The analysis result should be compared against all applicable federal, state and local standards and limitations. If no violations are noted then "NO VIOLATIONS" should appear on the report.

Pursuant to 40 CFR Part 403.12 g of the federal standards, all violations noted must be followed up by a sample recollect/analysis and the results submitted to the City within thirty (30) days of first becoming aware of the violation.

Pursuant to 40 CFR Part 403.12 g , all Periodic Self-Monitoring Reports must be signed by a "responsible company official" certifying the following statement.

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 assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who mange 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.

Signed: _____ Date: 2-13-04

Brian Downie
Facility Coordinator

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) MS#1 - 97th Street

	RESULTS mg / L		RESULTS LBS / DAY		ANNUAL AVERAGE mg / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	12/09/03		12/09/03			
24 HOUR FLOW IN MGD	0.04270		0.04270		0.01918	(MGD)
TOTAL SUSPENDED SOLIDS	9		3.21		2.250	0.80
SOLUBLE ORGANIC CARBON	4.8		1.01		3.400	0.61
TOTAL PHOSPHOROUS						
TOTAL PHENOL	< 0.0050		0.00000		0.013	0.001
OIL AND GREASE						
CADMIUM						
CHROMIUM						
COPPER						
LEAD						
MERCURY						
NICKEL						
ZINC						
ARSENIC						
BERYLLIUM						
BARIUM						
TOTAL CYANIDE						
pH (STANDARD UNITS)						
RESIDUAL CHLORINE						
SODIUM CHLORIDE						

Notes: J= Estimated; R = Rejected Result

MILLER SPRINGS REMEDIATION MANAGEMENT INC.
805 – 97th Street, Niagara Falls, NY 14304
A Subsidiary of Occidental Petroleum Corporation

WNY Operation Office

Telephone (716) 283-0111 x28
Fax (716) 283-2856

May 25, 2004

Mr. Albert C. Zaepfel
Industrial Monitoring Coordinator
NIAGARA FALLS WASTEWATER FACILITIES
P.O. Box 69
Niagara Falls, NY 14302-0069

RE: Second Quarter 2004 Sampling
Occidental Chemical Corporation, Love Canal Leachate Treatment Facility
Permit No. 44

Dear Mr. Zaepfel:

Enclosed are the monitoring results and discharge report for the Second Quarter of 2004.

When concentrations are reported as < or not detected at quantitation levels, calculated mass discharges are listed and included as zero in calculated averages. Similarly one or more < concentrations is averaged with other analyses as zero. When all data averaged are ND, the highest detection level is noted, i.e., <10, <5, <8 is shown as <10.

Should you have any questions, please contact me at 283-0111 x28.

Sincerely yours,

Brian Downie
Facility Coordinator

CC: G.J. Rider, Jr., P.E. — NYSDEC, Albany
J. Konsella P.E., B. Sadowski — NYSDEC, Region 9
D. McLeod — MSRM (File)

BDD LC-SW-2Q-2004cv.doc

CITY OF NIAGARA FALLS
DEPARTMENT OF WASTEWATER FACILITIES
ENFORCEMENT DIVISION

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PERMIT NO. 44 QUARTER Second - 2004

INDUSTRY NAME OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT
FACILITY

Pursuant to federal pretreatment reporting requirements and the City Sewer Use Ordinance Chapter 250, Significant Industrial Users shall submit periodic self-monitoring and compliance reports. Such reports shall be submitted using this form, according to the following schedule:

Quarterly	-	1st Quarter by February 28th
	-	2nd Quarter by May 31st
	-	3rd Quarter by August 31st
	-	4th Quarter by November 30th

Each section of this report form shall be filled out for those parameters listed in Section "G" of the company's Wastewater Discharge Permit. The analysis results must be reported in both concentration and mass. In addition, the calculated annual average load (lbs./day) for each pollutant shall also be reported.

The samples shall be collected at the monitoring points identified in the user permit. Identification of those points in this report should be as listed on Page two (2) of the user permit.

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PAGE 2

PART II of the report is the Compliance Monitoring section. The user is obligated to determine if the analysis results indicate compliance or non-compliance. All violations noted should be brought to the City's attention immediately upon noting and should also be reported in this section. The analysis result should be compared against all applicable federal, state and local standards and limitations. If no violations are noted then "NO VIOLATIONS" should appear on the report.

Pursuant to 40 CFR Part 403.12 g of the federal standards, all violations noted must be followed up by a sample recollect/analysis and the results submitted to the City within thirty (30) days of first becoming aware of the violation.

Pursuant to 40 CFR Part 403.12 g , all Periodic Self-Monitoring Reports must be signed by a "responsible company official" certifying the following statement.

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 assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who mange 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.

Signed: _____ Date: _____

Brian Downie
Facility Coordinator

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS mg / L		RESULTS LBS / DAY		ANNUAL AVERAGE mg / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	03/08/04		03/08/04			
24 HOUR FLOW IN MGD	0.04000		0.04000		0.01315	(MGD)
TOTAL SUSPENDED SOLIDS	< 4		0.00		2.250	0.02
SOLUBLE ORGANIC CARBON	4.2		0.88		4.500	0.68
TOTAL PHOSPHOROUS						
TOTAL PHENOL	< 4.0000		0.00000		0.009	0.000
OIL AND GREASE						
CADMIUM						
CHROMIUM						
COPPER						
LEAD						
MERCURY						
NICKEL						
ZINC						
ARSENIC						
BERYLLIUM						
BARIUM						
TOTAL CYANIDE						
pH (STANDARD UNITS)						
RESIDUAL CHLORINE						
SODIUM CHLORIDE						

Notes: J= Estimated; R = Rejected Result

PART I

ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation

Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	03/08/04		03/08/04			
24 HOUR FLOW IN MGD	0.04		0.04			
BENZENE	< 10		0		< 10	0
CARBON TETRACHLORIDE	< 10		0		< 10	0
CHLORODIBROMOMETHANE	< 10		0		< 10	0
MONOCHLOROBENZENE	< 10		0		< 10	0
DICHLOROBROMOMETHANE	< 10		0		< 10	0
CHLOROFORM	< 10		0		< 10	0
1,1 - DICHLOROETHYLENE	< 10		0		< 10	0
1,2 - DICHLOROETHYLENE	< 10		0		< 10	0
BROMOFORM	< 10		0		< 10	0
DICHLOROPROPYLENES	< 10		0		< 10	0
ETHYLBENZENE	< 10		0		< 10	0
1,1,2,2 - TETRACHLOROETHANE	< 10		0		< 10	0
TETRACHLOROETHYLENE	< 10		0		< 10	0
TOLUENE	< 10		0		< 10	0
1,1,1 - TRICHLOROETHANE	< 10		0		< 10	0
1,1,2 - TRICHLOROETHANE	< 10		0		< 10	0
TRICHLOROETHYLENE	< 10		0		< 10	0
METHYLENE CHLORIDE	< 10		0		< 10	0
MONOCHLOROTOLUENES	< 10		0		< 10	0
MONOCHLOROBENZOTRIFLUROID	< 10		0		< 10	0
VINYL CHLORIDE	< 10		0		< 10	0

Notes: J= Estimated; R = Rejected Result

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PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation

Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	03/08/04		03/08/04			
24 HOUR FLOW IN MGD	0.04000		0.04000			
DIMETHYL PHTHALATE	< 9.43		0		< 10.1	0
BUTYL BENZYL PHTHALATE	< 9.43		0		< 10.1	0
DIBUTYL PHTHALATE	< 9.43		0		< 10.1	0
NITROSODIPHENYLAMINE	< 9.43		0		< 10.1	0
DICHLOROBENZENES	< 10		0		< 10	0
DICHLOROTOLUENE	< 10		0		< 10	0
ACENAPHTHENE	< 9.43		0		< 10.1	0
FLUORANTHENE	< 9.43		0		< 10.1	0
CHRYSENE	< 9.43		0		< 10.1	0
NAPHTHALENE	< 9.43		0		< 10.1	0
BENZO (a) ANTHRACENE	< 9.43		0		< 10.1	0
PYRENE	< 9.43		0		< 10.1	0
TRICHLOROBENZENE	< 10		0		< 10	0
TRICHLOROTOLUENE	< 10		0		< 10	0
HEXACHLOROBUTADIENE	< 9.43		0		< 10.1	0
TETRACHLOROBENZENE	J 2.0		0.001575		0.500	0.000394
HEXACHLOROCYCLOPENTADI	< 9.43		0		< 10.1	0
HEXACHLOROBENZENE	< 4.72		0		< 5.05	0
DICHLOROBENZOTRIFLUORID	< 10		0		< 10	0
DIOCTYL PHTHALATE	< 9.43		0		< 10.1	0
DIETHYL PHTHALATE	< 9.43		0		< 10.1	0

Notes: J= Estimated; R = Rejected Result

PART I

ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation

Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) MS#1 - 97th Street

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	03/08/04		03/08/04			
24 HOUR FLOW IN MGD	0.04000		0.04000			
PHENANTHRENE						
MONOCHLOROPHENOL	< 9.43		0		< 10.1	0
DICHLOROPHENOL	< 9.43		0		< 10.1	0
MONOCHLOROCRESOL	< 9.43		0		< 10.1	0
TRICHLOROPHENOL	< 0		0		< 10.1	0
PENTACHLOROPHENOL	< 9.43		0		< 10.1	0
HEXACHLOROCYCLOHEXANES	J 0.5254		0.000175273		0.275	0.00004489
PCB'S						
ENDOSULFAN I + ENDOSULFAN II + ENDOSULFAN SULFATE						
MIREX						
DECHLORANE PLUS						
HEPTACHLOR + HEPTACHLOR EPOXIDE						

Notes: J= Estimated; R = Rejected Result

PART II
COMPLIANCE MONITORING

INDUSTRY NAME: OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT FACILITY

PERMIT NO. 44

2nd Quarter 2004

VIOLATION PARAMETER	DATE	FLOW (MGD)	SAMPLE POINT LOCATION	ACTUAL DISCHARGE	PERMIT LIMIT	TYPE LIMIT VIOLATED **
NO VIOLATIONS						

NOTE:

* - ACTUAL DISCHARGE - LIST ACTUAL ANALYTICAL RESULTS AND APPROPRIATE UNITS

** - TYPE LIMIT VIOLATED - LIST TYPE:

A.A. = ANNUAL AVERAGE

D.M. = DAILY MAXIMUM

L.L. = LOCAL LIMITS (ORDINANCE 250.5.1)

OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT FACILITY
PERMIT NO. 44
2nd Quarter 2004

	DATE	FLOW(GPD)	DAYS	MGD	
	02/03/04	27,700			
	02/05/04	36,600			
	02/06/04	20,000			
	02/09/04	61,600			
	02/12/04	35,400			
	02/18/04	36,800			
	02/20/04	14,300			
	02/23/04	70,800			
	02/24/04	26,800			
	SUBTOTAL	**330,000**	**9**	0.037	
	Monthly	330,000	29	0.011	
	03/01/04	47,800			
	03/02/04	2,800			
	03/03/04	1,700			
	03/04/04	96,200			
Sampled	03/05/04	900			**MGD**
	03/08/04	40,000			0.04
	03/09/04	102,300			
	03/10/04	92,500			
	03/11/04	71,700			
	03/12/04	54,700			
	03/15/04	65,000			
	03/16/04	32,100			
	03/17/04	12,200			
	03/19/04	29,900			
	03/22/04	68,300			
	03/23/04	33,800			
	03/24/04	65,700			
	03/25/04	25,700			
	03/29/04	70,600			
	03/30/04	76,200			
	03/31/04	48,300			
	SUBTOTAL	**1,038,400**	**21**	0.049	
	Monthly	1,038,400	**31**	0.033	
	04/02/04	46,700			
	04/05/04	84,400			
	04/06/04	41,300			
	04/08/04	28,900			
	04/09/04	49,900			
	04/12/04	59,500			
	04/13/04	42,200			
	04/15/04	21,400			
	04/19/04	69,200			
	04/20/04	49,100			
	04/21/04	36,500			
	04/22/04	46,900			
	04/23/04	70,700			
	04/26/04	39,400			
	04/27/04	30,500			
	04/28/04	42,600			
	04/29/04	41,200			
	SUBTOTAL	**800,400**	**17**	0.047	
	Monthly	800,400	**30**	0.027	
	TOTAL	**2,168,800**			
				Gallons	**MGD**
	Days Operated	47		**46,145**	**0.0461**
	DAYS in QTR.	90		**24,098**	**0.0241**

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	This is the interim sheet for															
2	the 2nd quarter. The data															
3	source is the CRA and the															
4	Q&E sheets. This data is linked to pg 3 - pg 6.			3rd Quarter 2003			4th Quarter 2003			1st Quarter 2004			2nd Quarter 2004		Annual Average	
5	**SAMPLE DATE**			06/16/03			09/09/03			12/09/03			03/08/04			
6	**FLOW (MGD)**			0.00000			0.01170			0.00090			0.04000		0.01315	
7	N/A= Not applicable															
8	**PAGE 2 Acid extractables**			ug/L	lb/D		ug/L	lb/D		ug/L	lb/D		ug/L	lb/D	ppb	lb/D
9	Monochlorophenol		<	10.1	0	<	9.4	0	<	9.35	0	<	9.43	0	10.1	0.000
10	Dichlorophenol		<	10.1	0	<	9.4	0	<	9.35	0	<	9.43	0	10.1	0.000
11	Monochlorocresol		<	10.1	0	<	9.4	0	<	9.35	0	<	9.43	0	10.1	0.000
12	Trichlorophenol		<	10.1	0	<	9.4	0	<	0	0	<	0	0	10.1	0.000
13	Pentachlorophenol		<	10.1	0	<	9.4	0	<	9.35	0	<	9.43	0	10.1	0.000
14																
15	**PAGE 3 Base Neutrals**														ppb	lb/D
16	Dimethyl Phthalate		<	10.1	0	<	9.4	0	<	9.35	0	<	9.43	0	10.1	0.000
17	Butyl Benzyl Phthalate		<	10.1	0	<	9.4	0	<	9.35	0	<	9.43	0	10.1	0.000
18	Dibutyl Phthalate		<	10.1	0	<	9.4	0	<	9.35	0	<	9.43	0	10.1	0.000
19	Nitrosodiphenylamine		<	10.1	0	<	9.4	0	<	9.35	0	<	9.43	0	10.1	0.000
20	Dichlorobenzenes		<	10	0	<	10.0	0	<	10	0	<	10	0	10	0.000
21	Dichlorotoluene		<	10	0	<	10.0	0	<	10	0	<	10	0	10	0.000
22	Acenapthalene		<	10.1	0	<	9.4	0	<	9.35	0	<	9.43	0	10.1	0.000
23	Fluoranthene		<	10.1	0	<	9.4	0	<	9.35	0	<	9.43	0	10.1	0.000
24	Chrysene		<	10.1	0	<	9.4	0	<	9.35	0	<	9.43	0	10.1	0.000
25	Napthalene		<	10.1	0	<	9.4	0	<	9.35	0	<	9.43	0	10.1	0.000
26	Benzo(a)anthracene		<	10.1	0	<	9.4	0	<	9.35	0	<	9.43	0	10.1	0.000
27	Pyrene		<	10.1	0	<	9.4	0	<	9.35	0	<	9.43	0	10.1	0.000
28	Trichlorobenzene		<	10	0	<	10.0	0	<	10	0	<	10	0	10	0.000
29	Trichlorotoluene		<	10	0	<	10.0	0	<	10	0	<	10	0	10	0.000
30	Hexachlorobutadiene		<	10.1	0	<	9.4	0	<	9.35	0	<	9.43	0	10.1	0.000
31	Tetrachlorobenzene		<	5.96	0	<	4.7	0	<	4.67	0	J	2	0.0015746	0.500	0.000
32	Hexachlorobenzene		<	5.05	0	<	4.7	0	<	4.67	0	<	4.72	0	5.05	0.000
33	Dichlorobenzotrifluoride		<	10	0	<	10.0	0	<	10	0	<	10	0	10	0.000
34	Phenanthrene															
35	Hexachlorocyclopentadiene		<	10.1	0	<	9.4	0	<	9.35	0	<	9.43	0	10.1	0.000
36	Dioctyl phthalate		<	10.1	0	<	9.4	0	<	9.35	0	<	9.43	0	10.1	0.000
37	Diethyl phthalate		<	10.1	0	<	9.4	0	<	9.35	0	<	9.43	0	10.1	0.000
38																
39	**PAGE 4 Volatiles**			ppb	lb/D		ppb	lb/D		ppb	lb/D		ppb	lb/D	ppb	lb/D
40	Benzene		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
41	Carbon Tetrachloride		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
42	Chlorodibromomethane		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
43	Monochlorobenzene		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
44	Dichlorobromomethane		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
45	Chloroform		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
46	1,1-Dichloroethene		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
47	1,2-Dichloroethene		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
48	Bromoform		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
49	Dichloropropylenes		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
50	Ethylbenzene		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
51	Tetrachloroethanes		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
52	Tetrachloroethylene		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
53	Toluene		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
54	1,1,1-Trichloroethane		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
55	1,1,2-Trichloroethane		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
56	Trichloroethylene		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
57	Methylene Chloride		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
58	Monochlorotoluene		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
59	Monochlorobenzotrifluoride		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
60	Vinyl chloride		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
61																
62	**PAGE 5 Conventionals**			mg/l	lb/D		mg/l	lb/D		mg/l	lb/D		mg/l	lb/D	ppb	lb/D
63	TSS		<	4	0.00	<	4.0	0.00		9.0	0.07	<	4.0	0.00	2.250	0.0169
64	SOC			3.9	0.82		2.0	0.00		4.8	1.01		4.2	0.88	4.500	0.6778
65	Phenol, Total (mg)			0.0369	0.00	<	0.005	0.00	<	0.005	0.00	<	4	0.00	0.009	0.0000
66				ug/L			ug/L			ug/L			ug/L			
67	**PAGE 6 Pesticides**			~~mg/l~~	lb/D		~~mg/l~~	lb/D		~~mg/l~~	lb/D		~~mg/l~~	lb/D	ppb	lb/D
68	Hexachlorocylohexane			0.0001272	0.00	J	0.00002201	0.00		0.573100	0.000		0.525400	0.000	0.275	0.00004489
69																
70	Notes: J= Estimated; R = Rejected Result															
71																

Mistake accidently 0.000573 & 0.000525

CHAIN OF CUSTODY RECORD

Miller Springs Remediation
Occidental Chemical

SHIP TO (LABORATORY NAME):
Ecology & Environmental
Analytical Services Center
LANCASTER, NY 14086

REF NO: 09954
LOVE CANAL
QTY SEWER SAMPLE

SAMPLE RESULTS REPORTING TO:
Susan Scrocchi Fax: (716) 297-2265 Phone: (716)297-2160
Mailing Address: CRA 2055 Niagara Falls Blvd. Suite Three
NIAGARA FALLS, NY 14304

FACILITY LOCATION:
LOVE CANAL

SAMPLER(S) (PRINT NAME)
TB/JS/DC

SIGNATURE
716/685-8080

DATE	TIME	SAMPLE NO.	COMPOSITE	GRAB	OTHER	CONTAINER TYPE	CONTAINERS NO. of	VOA's	PHENOL	SEMI VOLATIL	PESTICIDES	TSS	SOC				PRESERVED	REMARKS
03/08/04	11:30	INTER-304		X		*	15	8	1	2	2	1	1				HCL	ALL SAMPLES STORED
																		AND SHIPPED IN COOLER(S)
03/08/04	09:00	INF-304		X			10	3	1	2	2	1	1					
03/08/04	10:00	102ND-304		X			10	3	1	2	2	1	1					WITH ICE/ICE PACKS AND
																		KEPT AT 4c
03/08/04	11:30	EFF-304		X			15	8	1	2	2	1	1					Lab Trip Date
																		2/23/04
																		COMBINE ALL 8 VOA's PER
																		FOR EACH SET
		Program Complete																voa 40 ml/g hcl
																		phenol 250 G h2so4
03/08/04		LCQTYTP 3804			X	*	1	1										svoc 1 Liter AG
																		pest 1 Liter AG
		BEGINNING TOTAL- 24747600																tss 1 liter p
		ENDING TOTAL- 24787600																soc 125ml p h2so4
		TOTAL NUMBER OF CONTAINERS					51											

RELINQUISHED BY:	DATE	TIME	RECEIVED BY: John Fach	DATE 3/9/04	TIME 0905
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME

BOTTLE TYPES : G = GLASS ; AG = AMBER GLASS ; P = HPDE (PLASTIC) ; SAG = SILANIZED AMBER GLASS

METHOD OF SHIPMENT : SAMPLE TEAM: TB/JS/DC CHAIN OF CUSTODY NO: LC38041

J. Konsella
BDS

MILLER SPRINGS REMEDIATION MANAGEMENT INC.

805 – 97th Street, Niagara Falls, NY 14304

A Subsidiary of Occidental Petroleum Corporation

WNY Operation Office

Telephone (716) 283-0111 x28
Fax (716) 283-2856

November 24, 2004

Mr. Albert C. Zaepfel
Industrial Monitoring Coordinator
NIAGARA FALLS WASTEWATER FACILITIES
P.O. Box 69
Niagara Falls, NY 14302-0069

RE: Fourth Quarter 2004 Sampling
Occidental Chemical Corporation, Love Canal Leachate Treatment Facility
Permit No. 44

Dear Mr. Zaepfel:

Enclosed are the monitoring results and discharge report for the Fourth Quarter of 2004.

When concentrations are reported as < or not detected at quantitation levels, calculated mass discharges are listed and included as zero in calculated averages. Similarly one or more < concentrations is averaged with other analyses as zero. When all data averaged are ND, the highest detection level is noted, i.e., <10, <5, <8 is shown as <10.

Should you have any questions, please contact me at 283-0111 x28.

Sincerely yours,

Brian Downie
Facility Coordinator

CC: G.J. Rider, Jr., P.E.
J. Konsella P.E., B. Sadowski
D. McLeod

NYSDEC, Albany
NYSDEC, Region 9
MSRM (File)

CITY OF NIAGARA FALLS
DEPARTMENT OF WASTEWATER FACILITIES
ENFORCEMENT DIVISION

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PERMIT NO. 44 QUARTER Fourth - 2004

INDUSTRY NAME OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT
FACILITY

Pursuant to federal pretreatment reporting requirements and the City Sewer Use Ordinance Chapter 250, Significant Industrial Users shall submit periodic self-monitoring and compliance reports. Such reports shall be submitted using this form, according to the following schedule:

Quarterly	-	1st Quarter by February 28th
	-	2nd Quarter by May 31st
	-	3rd Quarter by August 31st
	-	4th Quarter by November 30th

Each section of this report form shall be filled out for those parameters listed in Section "G" of the company's Wastewater Discharge Permit. The analysis results must be reported in both concentration and mass. In addition, the calculated annual average load (lbs./day) for each pollutant shall also be reported.

The samples shall be collected at the monitoring points identified in the user permit. Identification of those points in this report should be as listed on Page two (2) of the user permit.

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PAGE 2

PART II of the report is the Compliance Monitoring section. The user is obligated to determine if the analysis results indicate compliance or non-compliance. All violations noted should be brought to the City's attention immediately upon noting and should also be reported in this section. The analysis result should be compared against all applicable federal, state and local standards and limitations. If no violations are noted then "NO VIOLATIONS" should appear on the report.

Pursuant to 40 CFR Part 403.12 g of the federal standards, all violations noted must be followed up by a sample recollect/analysis and the results submitted to the City within thirty (30) days of first becoming aware of the violation.

Pursuant to 40 CFR Part 403.12 g , all Periodic Self-Monitoring Reports must be signed by a "responsible company official" certifying the following statement.

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 assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who mange 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.

Signed: Brian Downie

Date: 11/24/04

Brian Downie
Facility Coordinator

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: **44**

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS mg / L		RESULTS LBS / DAY		ANNUAL AVERAGE mg / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	09/02/04		09/02/04			
24 HOUR FLOW IN MGD	0.02560		0.02560		0.02293	(MGD)
TOTAL SUSPENDED SOLIDS	< 4		0.00		4.000	0.38
SOLUBLE ORGANIC CARBON	4.9		1.03		5.500	1.07
TOTAL PHOSPHOROUS						
TOTAL PHENOL	0.0207		0.00442		0.128	0.015
OIL AND GREASE						
CADMIUM						
CHROMIUM						
COPPER						
LEAD						
MERCURY						
NICKEL						
ZINC						
ARSENIC						
BERYLLIUM						
BARIUM						
TOTAL CYANIDE						
pH (STANDARD UNITS)						
RESIDUAL CHLORINE						
SODIUM CHLORIDE						

Notes: J= Estimated; R = Rejected Result

24-Nov-04

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: **44**

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	09/02/04		09/02/04			
24 HOUR FLOW IN MGD	0.0256		0.0256			
BENZENE	< 10		0		< 10	0
CARBON TETRACHLORIDE	< 10		0		< 10	0
CHLORODIBROMOMETHANE	< 10		0		< 10	0
MONOCHLOROBENZENE	< 10		0		< 10	0
DICHLOROBROMOMETHANE	< 10		0		< 10	0
CHLOROFORM	< 10		0		< 10	0
1,1 - DICHLOROETHYLENE	< 10		0		< 10	0
1,2 - DICHLOROETHYLENE	< 10		0		< 10	0
BROMOFORM	< 10		0		< 10	0
DICHLOROPROPYLENES	< 10		0		< 10	0
ETHYLBENZENE	< 10		0		< 10	0
1,1,2,2 - TETRACHLOROETHANE	< 10		0		< 10	0
TETRACHLOROETHYLENE	< 10		0		< 10	0
TOLUENE	< 10		0		< 10	0
1,1,1 - TRICHLOROETHANE	< 10		0		< 10	0
1,1,2 - TRICHLOROETHANE	< 10		0		< 10	0
TRICHLOROETHYLENE	< 10		0		< 10	0
METHYLENE CHLORIDE	< 10		0		< 10	0
MONOCHLOROTOLUENES	< 10		0		< 10	0
MONOCHLOROBENZOTRIFLUROIDE	< 10		0		< 10	0
VINYL CHLORIDE	< 10		0		< 10	0

Notes: J= Estimated; R = Rejected Result

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: **44**

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	09/02/04		09/02/04			
24 HOUR FLOW IN MGD	0.02560		0.02560			
DIMETHYL PHTHALATE	< 9.35		0		< 9.43	0
BUTYL BENZYL PHTHALATE	< 9.35		0		< 9.43	0
DIBUTYL PHTHALATE	< 9.35		0		< 9.43	0
NITROSODIPHENYLAMINE	< 9.35		0		< 9.43	0
DICHLOROBENZENES	< 10		0		< 10	0
DICHLOROTOLUENE	< 10		0		< 10	0
ACENAPHTHENE	< 9.35		0		< 9.43	0
FLUORANTHENE	< 9.35		0		< 9.43	0
CHRYSENE	< 9.35		0		< 9.43	0
NAPHTHALENE	< 9.35		0		< 9.43	0
BENZO (a) ANTHRACENE	< 9.35		0		< 9.43	0
PYRENE	< 9.35		0		< 9.43	0
TRICHLOROBENZENE	< 10		0		< 10	0
TRICHLOROTOLUENE	< 10		0		< 10	0
HEXACHLOROBUTADIENE	< 9.35		0		< 9.43	0
TETRACHLOROBENZENE	< 4.7		0		< 0.500	0.000394
HEXACHLOROCYCLOPENTADIEN	< 9.35		0		< 9.43	0
HEXACHLOROBENZENE	< 4.72		0		< 4.72	0
DICHLOROBENZOTRIFLUORIDE	< 10		0		< 10	0
DIOCTYL PHTHALATE	< 9.35		0		< 9.43	0
DIETHYL PHTHALATE	< 9.35		0		< 9.43	0

Notes: J= Estimated; R = Rejected Result

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) MS#1 - 97th Street

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	09/02/04		09/02/04			
24 HOUR FLOW IN MGD	0.02560		0.02560			
PHENANTHRENE						
MONOCHLOROPHENOL	< 9.35		0		< 9.43	0
DICHLOROPHENOL	< 9.35		0		< 9.43	0
MONOCHLOROCRESOL	< 9.35		0		< 9.43	0
TRICHLOROPHENOL	< 9.35		0		< 9.43	0
PENTACHLOROPHENOL	< 935		0		< 9.43	0
HEXACHLOROCYCLOHEXANES	0.00056		0.000000120		0.000	0.00000116
PCB'S						
ENDOSULFAN I + ENDOSULFAN II + ENDOSULFAN SULFATE						
MIREX						
DECHLORANE PLUS						
HEPTACHLOR + HEPTACHLOR EPOXIDE						

Notes: J= Estimated; R = Rejected Result

PART II
COMPLIANCE MONITORING

INDUSTRY NAME: OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT FACILITY

PERMIT NO. 44

4th Quarter 2004

VIOLATION PARAMETER	DATE	FLOW (MGD)	SAMPLE POINT LOCATION	ACTUAL DISCHARGE	PERMIT LIMIT	TYPE LIMIT VIOLATED **
NO VIOLATIONS						

NOTE:

* - ACTUAL DISCHARGE - LIST ACTUAL ANALYTICAL RESULTS AND APPROPRIATE UNITS

** - TYPE LIMIT VIOLATED - LIST TYPE:

A.A. = ANNUAL AVERAGE

D.M. = DAILY MAXIMUM

L.L. = LOCAL LIMITS (ORDINANCE 250.5.1)

OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT FACILITY
PERMIT NO. 44
4th Quarter 2004

	DATE	FLOW(GPD)	DAYS	MGD	
	08/03/04	19,600			
	08/04/04	47,900			
	08/05/04	29,600			
	08/06/04	8,000			
	08/09/04	48,500			
	08/10/04	42,800			
	08/11/04	32,500			
	08/17/04	39,600			
	08/19/04	16,900			
	08/25/04	16,500			
	SUBTOTAL	**301,900**	**10**	**0.030**	
	Monthly	301,900	31	0.010	
	09/02/04	25,600			**MGD**
	09/03/04	34,200			0.0256
	09/07/04	51,800			
	09/10/04	12,600			
Sampled	09/13/04	76,600			
	09/14/04	51,300			
	09/15/04	70,800			
	09/16/04	75,300			
	09/20/04	33,500			
	09/27/04	41,100			
	09/28/04	3,300			
	09/29/04	8,700			
	SUBTOTAL	**484,800**	**12**	**0.040**	
	Monthly	484,800	30	0.016	
	10/05/04	18,800			
	10/11/04	37,500			
	10/19/04	47,600			
	10/26/04	31,800			
	SUBTOTAL	**135,700**	**4**	**0.034**	
	Monthly	135,700	31	0.004	
	TOTAL	**922,400**			
				Avg Gallons	**MGD**
	Days Operated	26		**35,477**	**0.0355**
	DAYS in QTR.	92		**10,026**	**0.0100**

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	This is the interim sheet															
2	for the 4th quarter. The															
3	data source is the CRA															
4	and the Q&E sheets. This			1st Quarter 2004			2nd Quarter 2004			3rd Quarter 2004			4th Quarter 2004		Annual Average	
5	data is linked to pg 3 - pg															
5	SAMPLE DATE			12/09/03			03/08/04			06/03/04			09/02/04			
6	FLOW (MGD)			0.00090			0.04000			0.02520			0.02560		0.02293	
7	N/A= Not applicable															
8	PAGE 2 Acid extractables			ug/L	lb/D		ug/L	lb/D		ug/L	lb/D		ug/L	lb/D	ppb	lb/D
9	Monochlorophenol		<	9.35	0	<	9.4	0	<	9.43	0	<	9.35	0	9.43	0.000
10	Dichlorophenol		<	9.35	0	<	9.4	0	<	9.43	0	<	9.35	0	9.43	0.000
11	Monochlorocresol		<	9.35	0	<	9.4	0	<	9.43	0	<	9.35	0	9.43	0.000
12	Trichlorophenol		<	0	0	<	0.0	0	<	9.43	0	<	9.35	0	9.43	0.000
13	Pentachlorophenol		<	9.35	0	<	9.4	0	<	9.43	0	<	935	0	9.43	0.000
14																
15	PAGE 3 Base Neutrals														ppb	lb/D
16	Dimethyl Phthalate		<	9.35	0	<	9.4	0	<	9.43	0	<	9.35	0	9.43	0.000
17	Butyl Benzyl Phthalate		<	9.35	0	<	9.4	0	<	9.43	0	<	9.35	0	9.43	0.000
18	Dibutyl Phthalate		<	9.35	0	<	9.4	0	<	9.43	0	<	9.35	0	9.43	0.000
19	Nitrosodiphenylamine		<	9.35	0	<	9.4	0	<	9.43	0	<	9.35	0	9.43	0.000
20	Dichlorobenzenes		<	10	0	<	10.0	0	<	10	0	<	10	0	10	0.000
21	Dichlorotoluene		<	10	0	<	10.0	0	<	10	0	<	10	0	10	0.000
22	Acenapthalene		<	9.35	0	<	9.4	0	<	9.43	0	<	9.35	0	9.43	0.000
23	Fluoranthene		<	9.35	0	<	9.4	0	<	9.43	0	<	9.35	0	9.43	0.000
24	Chrysene		<	9.35	0	<	9.4	0	<	9.43	0	<	9.35	0	9.43	0.000
25	Napthalene		<	9.35	0	<	9.4	0	<	9.43	0	<	9.35	0	9.43	0.000
26	Benzo(a)anthracene		<	9.35	0	<	9.4	0	<	9.43	0	<	9.35	0	9.43	0.000
27	Pyrene		<	9.35	0	<	9.4	0	<	9.43	0	<	9.35	0	9.43	0.000
28	Trichlorobenzene		<	10	0	<	10.0	0	<	10	0	<	10	0	10	0.000
29	Trichlorotoluene		<	10	0	<	10.0	0	<	10	0	<	10	0	10	0.000
30	Hexachlorobutadiene		<	9.35	0	<	9.4	0	<	9.43	0	<	9.35	0	9.43	0.000
31	Tetrachlorobenzene		<	4.67	0		2.0	0.00157	<	4.72	0	<	4.67	0	0.500	0.000
32	Hexachlorobenzene		<	4.67	0	<	4.7	0	<	4.72	0	<	4.72	0	4.72	0.000
33	Dichlorobenzotrifluoride		<	10	0	<	10.0	0	<	10	0	<	10	0	10	0.000
34	Phenanthrene															
35	Hexachlorocyclopentadiene		<	9.35	0	<	9.4	0	<	9.43	0	<	9.35	0	9.43	0.000
36	Dioctyl phthalate		<	9.35	0	<	9.4	0	<	9.43	0	<	9.35	0	9.43	0.000
37	Diethyl phthalate		<	9.35	0	<	9.4	0	<	9.43	0	<	9.35	0	9.43	0.000
38																
39	PAGE 4 Volatiles			ppb	lb/D		ppb	lb/D		ppb	lb/D		ppb	lb/D	ppb	lb/D
40	Benzene		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
41	Carbon Tetrachloride		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
42	Chlorodibromomethane		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
43	Monochlorobenzene		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
44	Dichlorobromomethane		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
45	Chloroform		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
46	1,1-Dichloroethene		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
47	1,2-Dichloroethene		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
48	Bromoform		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
49	Dichloropropylenes		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
50	Ethylbenzene		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
51	Tetrachloroethanes		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
52	Tetrachloroethylene		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
53	Toluene		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
54	1,1,1-Trichloroethane		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
55	1,1,2-Trichloroethane		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
56	Trichloroethylene		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
57	Methylene Chloride		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
58	Monochlorotoluene		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
59	Monochlorobenzotrifluoride		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
60	Vinyl chloride		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
61																
62	PAGE 5 Conventionals			mg/l	lb/D		mg/l	lb/D		mg/l	lb/D		mg/l	lb/D	ppb	lb/D
63	TSS			9	0.07	<	4.0	0.00		7.0	1.47	<	4.0	0.00	4.000	0.3847
64	SOC			4.8	1.01		4.2	0.88		6.5	1.37		4.9	1.03	5.500	1.0719
65	Phenol, Total (mg)		<	0.005	0.00	<	4	0.00		0.256	0.05		0.0207	0.00	0.128	0.0146
66																
67	PAGE 6 Pesticides			mg/l	lb/D		mg/l	lb/D		mg/l	lb/D		mg/l	lb/D	ppb	lb/D
68	Hexachlorocylohexane			0.0005731	0.00		0.0005254	0.00		0.000146	0.000		0.000562	0.000	0.000	0.00000116
69																
70	Notes: J= Estimated; R = Rejected Result															
71																

CHAIN OF CUSTODY RECORD

Miller Springs Remediation Occidental Chemical	SHIP TO (LABORATORY NAME): **Ecology & Environmental** **Analytical Services Center** **LANCASTER, NY 14086**	REF NO: 09954 **LOVE CANAL** **QTY SEWER SAMPLE**	SAMPLE RESULTS REPORTING TO: **Susan Scrocchi** Fax: (716) 297-2265 Phone: (716)297-2160 **Mailing Address:** CRA 2055 Niagara Falls Blvd. Suite Three NIAGARA FALLS, NY 14304
FACILITY LOCATION: **LOVE CANAL**	SAMPLER(S) (PRINT NAME) **TB/FK/DC**	SIGNATURE **716/685-8080**	

DATE	TIME	SAMPLE NO.	COMPOSITE	GRAB	OTHER	CONTAINER TYPE	CONTAINERS NO. of	VOA's	PHENOL	SEMI VOLATIL	PESTICIDES	TSS	SOC				PRESERVED	REMARKS
09/02/04	12:00	INTER-904		X		*	15	8	1	2	2	1	1				HCL	ALL SAMPLES STORED
																		AND SHIPPED IN COOLER(S)
09/02/04	9:45	INF-904		X			10	3	1	2	2	1	1					
09/02/04	11:25	102ND-904		X			10	3	1	2	2	1	1					WITH ICE/ICE PACKS AND
																		KEPT AT 4c
09/02/04	12:00	EFF-904		X			15	8	1	2	2	1	1					
		TOTALIZER START 27456300																
		END 27481900																COMBINE ALL 8 VOA's PER
																		FOR EACH SET
		Program Complete																voa 40 ml/g hcl
																		phenol 250 G h2so4
09/02/04		LCQTYTP 9204			X	*	1	1										svoc 1 Liter AG
																		pest 1 Liter AG
																		tss 1 liter p
																		soc 125ml p h2so4
		TOTAL NUMBER OF CONTAINERS					51											

RELINQUISHED BY:	DATE 9/3/04	TIME 8:00am	RECEIVED BY:	DATE 9/3/04	TIME 930
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME

BOTTLE TYPES : G = GLASS ; AG = AMBER GLASS ; P = HPDE (PLASTIC) ; SAG = SILANIZED AMBER GLASS

METHOD OF SHIPMENT : SAMPLE TEAM: TB/FK/DC CHAIN OF CUSTODY NO: LC92041

MILLER SPRINGS REMEDIATION MANAGEMENT INC.
805 – 97th Street, Niagara Falls, NY 14304
A Subsidiary of Occidental Petroleum Corporation

WNY Operation Office

Telephone (716) 283-0111 x28
Fax (716) 283-2856

JAK

February 22, 2005

RECEIVED
FEB 24 2005
NYSDEC REG 9
FOIL
X REL ___ UNREL

Mr. Albert C. Zaepfel
Industrial Monitoring Coordinator
NIAGARA FALLS WASTEWATER FACILITIES
P.O. Box 69
Niagara Falls, NY 14302-0069

RE: First Quarter 2005 Sampling
Occidental Chemical Corporation, Love Canal Leachate Treatment Facility
Permit No. 44

Dear Mr. Zaepfel:

Enclosed are the monitoring results and discharge report for the First Quarter of 2005.

When concentrations are reported as < or not detected at quantitation levels, calculated mass discharges are listed and included as zero in calculated averages. Similarly one or more < concentrations is averaged with other analyses as zero. When all data averaged are ND, the highest detection level is noted, i.e., <10, <5, <8 is shown as <10.

Should you have any questions, please contact me at 283-0111 x28.

Sincerely yours,

Brian Downie
Facility Coordinator

CC: G.J. Rider, Jr., P.E.
J. Konsella P.E., B. Sadowski
D. McLeod

NYSDEC, Albany
NYSDEC, Region 9
MSRM (File)

CITY OF NIAGARA FALLS
DEPARTMENT OF WASTEWATER FACILITIES
ENFORCEMENT DIVISION

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PERMIT NO. 44 QUARTER First - 2005

INDUSTRY NAME OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT
FACILITY

Pursuant to federal pretreatment reporting requirements and the City Sewer Use Ordinance Chapter 250, Significant Industrial Users shall submit periodic self-monitoring and compliance reports. Such reports shall be submitted using this form, according to the following schedule:

Quarterly	-	1st Quarter by February 28th
	-	2nd Quarter by May 31st
	-	3rd Quarter by August 31st
	-	4th Quarter by November 30th

Each section of this report form shall be filled out for those parameters listed in Section "G" of the company's Wastewater Discharge Permit. The analysis results must be reported in both concentration and mass. In addition, the calculated annual average load (lbs./day) for each pollutant shall also be reported.

The samples shall be collected at the monitoring points identified in the user permit. Identification of those points in this report should be as listed on Page two (2) of the user permit.

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PAGE 2

PART II of the report is the Compliance Monitoring section. The user is obligated to determine if the analysis results indicate compliance or non-compliance. All violations noted should be brought to the City's attention immediately upon noting and should also be reported in this section. The analysis result should be compared against all applicable federal, state and local standards and limitations. If no violations are noted then "NO VIOLATIONS" should appear on the report.

Pursuant to 40 CFR Part 403.12 g of the federal standards, all violations noted must be followed up by a sample recollect/analysis and the results submitted to the City within thirty (30) days of first becoming aware of the violation.

Pursuant to 40 CFR Part 403.12 g , all Periodic Self-Monitoring Reports must be signed by a "responsible company official" certifying the following statement.

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 assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who mange 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.

Signed: _____ Date: 2/22/05

Brian Downie
Facility Coordinator

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS mg / L		RESULTS LBS / DAY		ANNUAL AVERAGE mg / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	12/14/04		12/14/04			
24 HOUR FLOW IN MGD	0.04620		0.04620		0.03425	(MGD)
TOTAL SUSPENDED SOLIDS	< 4		0.00		1.750	0.37
SOLUBLE ORGANIC CARBON	2.2		0.46		5.125	0.94
TOTAL PHOSPHOROUS						
TOTAL PHENOL	< 0.0123		0.00000		0.069	0.015
OIL AND GREASE						
CADMIUM						
CHROMIUM						
COPPER						
LEAD						
MERCURY						
NICKEL						
ZINC						
ARSENIC						
BERYLLIUM						
BARIUM						
TOTAL CYANIDE						
pH (STANDARD UNITS)						
RESIDUAL CHLORINE						
SODIUM CHLORIDE						

Notes: J= Estimated; R = Rejected Result

PART I

ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation

Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	12/14/04		12/14/04			
24 HOUR FLOW IN MGD	0.0462		0.0462			
BENZENE	< 10		0		< 10	0
CARBON TETRACHLORIDE	< 10		0		< 10	0
CHLORODIBROMOMETHANE	< 10		0		< 10	0
MONOCHLOROBENZENE	< 10		0		< 10	0
DICHLOROBROMOMETHANE	< 10		0		< 10	0
CHLOROFORM	< 10		0		< 10	0
1,1 - DICHLOROETHYLENE	< 10		0		< 10	0
1,2 - DICHLOROETHYLENE	< 10		0		< 10	0
BROMOFORM	< 10		0		< 10	0
DICHLOROPROPYLENES	< 10		0		< 10	0
ETHYLBENZENE	< 10		0		< 10	0
1,1,2,2 - TETRACHLOROETHANE	< 10		0		< 10	0
TETRACHLOROETHYLENE	< 10		0		< 10	0
TOLUENE	J 0.75		0.00029		0.188	7.22E-05
1,1,1 - TRICHLOROETHANE	< 10		0		< 10	0
1,1,2 - TRICHLOROETHANE	< 10		0		< 10	0
TRICHLOROETHYLENE	< 10		0		< 10	0
METHYLENE CHLORIDE	< 10		0		< 10	0
MONOCHLOROTOLUENES	J 0.682		0.00026		0.171	6.57E-05
MONOCHLOROBENZOTRIFLUROID	< 10		0		< 10	0
VINYL CHLORIDE	< 10		0		< 10	0

Notes: J= Estimated; R = Rejected Result

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation

Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	12/14/04		12/14/04			
24 HOUR FLOW IN MGD	0.04620		0.04620			
DIMETHYL PHTHALATE	< 10.1		0		< 9.43	0
BUTYL BENZYL PHTHALATE	< 10.1		0		< 9.43	0
DIBUTYL PHTHALATE	< 10.1		0		< 9.43	0
NITROSODIPHENYLAMINE	< 10.1		0		< 9.43	0
DICHLOROBENZENES	< 10		0		< 10	0
DICHLOROTOLUENE	< 10		0		< 10	0
ACENAPHTHENE	< 10.1		0		< 9.43	0
FLUORANTHENE	< 10.1		0		< 9.43	0
CHRYSENE	< 10.1		0		< 9.43	0
NAPHTHALENE	< 10.1		0		< 9.43	0
BENZO (a) ANTHRACENE	< 10.1		0		< 9.43	0
PYRENE	< 10.1		0		< 9.43	0
TRICHLOROBENZENE	< 10		0		< 10	0
TRICHLOROTOLUENE	< 10		0		< 10	0
HEXACHLOROBUTADIENE	< 10.1		0		< 9.43	0
TETRACHLOROBENZENE	< 5.1		0		< 0.500	0.000394
HEXACHLOROCYCLOPENTADI	< 10.1		0		< 9.43	0
HEXACHLOROBENZENE	< 5.05		0		< 4.72	0
DICHLOROBENZOTRIFLUORID	< 10		0		< 10	0
DIOCTYL PHTHALATE	< 10.1		0		< 9.43	0
DIETHYL PHTHALATE	< 10.1		0		< 9.43	0

Notes: J= Estimated; R = Rejected Result

PART I

ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation

Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	12/14/04		12/14/04			
24 HOUR FLOW IN MGD	0.04620		0.04620			
PHENANTHRENE						
MONOCHLOROPHENOL	< 10.1		0		< 9.43	0
DICHLOROPHENOL	< 10.1		0		< 9.43	0
MONOCHLOROCRESOL	< 10.1		0		< 9.43	0
TRICHLOROPHENOL	< 10.1		0		< 9.43	0
PENTACHLOROPHENOL	< 10.1		0		< 935	0
HEXACHLOROCYCLOHEXANES	J 0.0006		0.000000230		0.000	0.00000014
PCB'S						
ENDOSULFAN I + ENDOSULFAN II + ENDOSULFAN SULFATE						
MIREX						
DECHLORANE PLUS						
HEPTACHLOR + HEPTACHLOR EPOXIDE						

Notes: J= Estimated; R = Rejected Result

PART II
COMPLIANCE MONITORING

INDUSTRY NAME: OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT FACILITY

PERMIT NO. 44

1st Quarter 2005

VIOLATION PARAMETER	DATE	FLOW (MGD)	SAMPLE POINT LOCATION	ACTUAL DISCHARGE	PERMIT LIMIT	TYPE LIMIT VIOLATED **
NO VIOLATIONS						

NOTE:

* - ACTUAL DISCHARGE - LIST ACTUAL ANALYTICAL RESULTS AND APPROPRIATE UNITS

** - TYPE LIMIT VIOLATED - LIST TYPE:

A.A. = ANNUAL AVERAGE

D.M. = DAILY MAXIMUM

L.L. = LOCAL LIMITS (ORDINANCE 250.5.1)

OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT FACILITY
PERMIT NO. 44
1st Quarter 2005

	DATE	FLOW(GPD)	DAYS	MGD	
	11/01/04	32,900			
	11/08/04	41,400			
	11/19/04	52,000			
	11/24/04	9,800			
	11/29/04	75,300			
	SUBTOTAL	**211,400**	**5**	**0.042**	
	Monthly	211,400	30	0.007	
	12/02/04	83,200			
	12/03/04	65,100			
	12/06/04	20,000			
	12/08/04	2,900			
Sampled	12/09/04	23,500			
	12/10/04	23,700			
	12/13/04	16,800			**MGD**
	12/14/04	46,200			0.0462
	12/15/04	84,200			
	12/20/04	69,100			
	12/21/04	52,100			
	12/27/04	69,500			
	12/28/04	64,400			
	12/29/04	53,700			
	SUBTOTAL	**674,400**	**14**	**0.048**	
	Monthly	674,400	31	0.022	
	01/03/05	51,900			
	01/04/05	38,000			
	01/05/05	68,500			
	01/06/05	83,500			
	01/07/05	29,800			
	01/10/05	55,900			
	01/11/05	55,100			
	01/12/05	66,900			
	01/13/05	65,800			
	01/14/05	5,200			
	01/17/05	35,800			
	01/18/05	72,100			
	01/20/05	27,800			
	01/21/05	45,500			
	01/24/05	33,700			
	01/25/05	58,000			
	01/31/05	47,900			
	SUBTOTAL	**841,400**	**17**	**0.049**	
	Monthly	841,400	31	0.027	
	TOTAL	**1,727,200**			
				Avg Gallons	**MGD**
	Days Operated	36		**47,978**	**0.0480**
	DAYS in QTR.	92		**18,774**	**0.0188**

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	This is the interim sheet for															
2	the 1St quarter. The data															
3	source is the CRA and the															
4	Q&E sheets. This data is linked to pg 3 - pg 6.			2nd Quarter 2004			3rd Quarter 2004			4th Quarter 2004			1st Quarter 2005		Annual Average	
5	SAMPLE DATE			03/08/04			06/03/04			09/02/04			12/14/04			
6	FLOW (MGD)			0.04000			0.02520			0.02560			0.04620		0.03425	
7	N/A= Not applicable															
8	PAGE 2 Acid extractables			ug/L	lb/D		ug/L	lb/D		ug/L	lb/D		ug/L	lb/D	ppb	lb/D
9	Monochlorophenol		<	9.43	0	<	9.4	0	<	9.35	0	<	10.1	0	9.43	0.000
10	Dichlorophenol		<	9.43	0	<	9.4	0	<	9.35	0	<	10.1	0	9.43	0.000
11	Monochlorocresol		<	9.43	0	<	9.4	0	<	9.35	0	<	10.1	0	9.43	0.000
12	Trichlorophenol		<	0	0	<	9.4	0	<	9.35	0	<	10.1	0	9.43	0.000
13	Pentachlorophenol		<	9.43	0	<	9.4	0	<	9.35	0	<	10.1	0	935	0.000
14																
15	PAGE 3 Base Neutrals														ppb	lb/D
16	Dimethyl Phthalate		<	9.43	0	<	9.4	0	<	9.35	0	<	10.1	0	9.43	0.000
17	Butyl Benzyl Phthalate		<	9.43	0	<	9.4	0	<	9.35	0	<	10.1	0	9.43	0.000
18	Dibutyl Phthalate		<	9.43	0	<	9.4	0	<	9.35	0	<	10.1	0	9.43	0.000
19	Nitrosodiphenylamine		<	9.43	0	<	9.4	0	<	9.35	0	<	10.1	0	9.43	0.000
20	Dichlorobenzenes		<	10	0	<	10.0	0	<	10	0	<	10	0	10	0.000
21	Dichlorotoluene		<	10	0	<	10.0	0	<	10	0	<	10	0	10	0.000
22	Acenapthalene		<	9.43	0	<	9.4	0	<	9.35	0	<	10.1	0	9.43	0.000
23	Fluoranthene		<	9.43	0	<	9.4	0	<	9.35	0	<	10.1	0	9.43	0.000
24	Chrysene		<	9.43	0	<	9.4	0	<	9.35	0	<	10.1	0	9.43	0.000
25	Napthalene		<	9.43	0	<	9.4	0	<	9.35	0	<	10.1	0	9.43	0.000
26	Benzo(a)anthracene		<	9.43	0	<	9.4	0	<	9.35	0	<	10.1	0	9.43	0.000
27	Pyrene		<	9.43	0	<	9.4	0	<	9.35	0	<	10.1	0	9.43	0.000
28	Trichlorobenzene		<	10	0	<	10.0	0	<	10	0	<	10	0	10	0.000
29	Trichlorotoluene		<	10	0	<	10.0	0	<	10	0	<	10	0	10	0.000
30	Hexachlorobutadiene		<	9.43	0	<	9.4	0	<	9.35	0	<	10.1	0	9.43	0.000
31	Tetrachlorobenzene			2	0.00157	<	4.7	0	<	4.67	0	<	5.05	0	0.500	0.000
32	Hexachlorobenzene		<	4.72	0	<	4.7	0	<	4.72	0	<	5.05	0	4.72	0.000
33	Dichlorobenzotrifluoride		<	10	0	<	10.0	0	<	10	0	<	10	0	10	0.000
34	Phenanthrene															
35	Hexachlorocyclopentadiene		<	9.43	0	<	9.4	0	<	9.35	0	<	10.1	0	9.43	0.000
36	Dioctyl phthalate		<	9.43	0	<	9.4	0	<	9.35	0	<	10.1	0	9.43	0.000
37	Diethyl phthalate		<	9.43	0	<	9.4	0	<	9.35	0	<	10.1	0	9.43	0.000
38																
39	PAGE 4 Volatiles			ppb	lb/D		ppb	lb/D		ppb	lb/D		ppb	lb/D	ppb	lb/D
40	Benzene		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
41	Carbon Tetrachloride		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
42	Chlorodibromomethane		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
43	Monochlorobenzene		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
44	Dichlorobromomethane		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
45	Chloroform		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
46	1,1-Dichloroethene		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
47	1,2-Dichloroethene		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
48	Bromoform		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
49	Dichloropropylenes		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
50	Ethylbenzene		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
51	Tetrachloroethanes		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
52	Tetrachloroethylene		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
53	Toluene		<	10	0	<	10.0	0	<	10.0	0		J 0.8	0.000289	0.188	0.000
54	1,1,1-Trichloroethane		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
55	1,1,2-Trichloroethane		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
56	Trichloroethylene		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
57	Methylene Chloride		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
58	Monochlorotoluene		<	10	0	<	10.0	0	<	10.0	0		J 0.7	0.0002628	0.171	0.000
59	Monochlorobenzotrifluoride		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
60	Vinyl chloride		<	10	0	<	10.0	0	<	10.0	0	<	10.0	0	10	0.000
61																
62	PAGE 5 Conventionals			mg/l	lb/D		mg/l	lb/D		mg/l	lb/D		mg/l	lb/D	ppb	lb/D
63	TSS		<	4	0.00		7.0	1.47	<	4.0	0.00	<	4.0	0.00	1.750	0.3678
64	SOC			4.2	0.88		6.5	1.37		4.9	1.03		2.2	0.46	5.125	0.9352
65	Phenol, Total (mg)		<	4	0.00		0.256	0.05		0.0207	0.00	<	0.0123	0.00	0.069	0.0146
66																
67	PAGE 6 Pesticides			mg/l	lb/D		mg/l	lb/D		mg/l	lb/D		mg/l	lb/D	ppb	lb/D
68	Hexachlorocylohexane			0.0005254	0.00		0.0001458	0.00		0.000562	0.000	J	0.000596	0.000	0.000	0.00000014
69																
70	Notes: J= Estimated; R = Rejected Result															
71																

CHAIN OF CUSTODY RECORD

Miller Springs Remediation Occidental Chemical	SHIP TO (LABORATORY NAME): Ecology & Environmental Analytical Services Center LANCASTER, NY 14086	REF NO: 09954 LOVE CANAL QTY SEWER SAMPLE	SAMPLE RESULTS REPORTING TO: Susan Scrocchi Fax: (716) 297-2265 Phone: (716)297-2160 Mailing Address: CRA 2055 Niagara Falls Blvd. Suite Three NIAGARA FALLS, NY 14304
FACILITY LOCATION: LOVE CANAL	SAMPLER(S) (PRINT NAME) TB/FK/DC	SIGNATURE Tracy Blackman 716/685-8080	

DATE	TIME	SAMPLE NO.	COMPOSITE	GRAB	OTHER	CONTAINER TYPE	CONTAINERS NO. of	VOA's	PHENOL	SEMI VOLATIL	PESTICIDES	TSS	SOC				PRESERVED	REMARKS
12/14/04	12:00	INTER-1204		X		*	15	8	1	2	2	1	1				HCL	ALL SAMPLES STORED
																		AND SHIPPED IN COOLER(S)
12/14/04	10:00	INF-1204		X			10	3	1	2	2	1	1					
12/14/04	11:00	102ND-1204		X			10	3	1	2	2	1	1					WITH ICE/ICE PACKS AND
																		KEPT AT 4c
12/14/04	12:00	EFF-1204		X			15	8	1	2	2	1	1					
																		COMBINE ALL 8 VOA's PER
																		FOR EACH SET
		Program Complete															Lab Trip	voa 40 ml/g hcl
																	Date	phenol 250 G h2so4
12/14/04		LCQTYTP 121404			X	*	1	1									12/2/04	svoc 1 Liter AG
		Beginning TOTAL - 28523400																pest 1 Liter AG
		ENDING TOTAL - 28569600																tss 1 liter p
																		soc 125ml p h2so4
		TOTAL NUMBER OF CONTAINERS					51											

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
Tracy Blackman	12/15/04	08:00	[illegible]	12/15/04	8:40 AM
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME

BOTTLE TYPES : G = GLASS ; AG = AMBER GLASS ; P = HPDE (PLASTIC) ; SAG = SILANIZED AMBER GLASS

METHOD OF SHIPMENT : SAMPLE TEAM: TB/FK/DC CHAIN OF CUSTODY NO: LC1214041

MILLER SPRINGS REMEDIATION MANAGEMENT INC.
805 – 97th Street, Niagara Falls, NY 14304
A Subsidiary of Occidental Petroleum Corporation

WNY Operation Office

Telephone (716) 283-0111 x28
Fax (716) 283-2856

May 12, 2005

Mr. Albert C. Zaepfel
Industrial Monitoring Coordinator
NIAGARA FALLS WASTEWATER FACILITIES
1201 Buffalo Avenue
Niagara Falls, NY 14303-1514

RE: Second Quarter 2005 Sampling
Occidental Chemical Corporation, Love Canal Leachate Treatment Facility
Permit No. 44

Dear Mr. Zaepfel:

Enclosed are the monitoring results and discharge report for the Second Quarter of 2005.

When concentrations are reported as < or not detected at quantitation levels, calculated mass discharges are listed and included as zero in calculated averages. Similarly one or more < concentrations is averaged with other analyses as zero. When all data averaged are ND, the highest detection level is noted, i.e., <10, <5, <8 is shown as <10.

Should you have any questions, please contact me at 283-0111 x28.

Sincerely yours,

Brian Downie
Facility Coordinator

CC: G.J. Rider, Jr., P.E. — NYSDEC, Albany
J. Konsella P.E., B. Sadowski — NYSDEC, Region 9
D. McLeod — MSRM (File)

CITY OF NIAGARA FALLS
DEPARTMENT OF WASTEWATER FACILITIES
ENFORCEMENT DIVISION

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PERMIT NO. 44 QUARTER Second - 2005

INDUSTRY NAME OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT
FACILITY

Pursuant to federal pretreatment reporting requirements and the City Sewer Use Ordinance Chapter 250, Significant Industrial Users shall submit periodic self-monitoring and compliance reports. Such reports shall be submitted using this form, according to the following schedule:

Quarterly	-	1st Quarter by February 28th
	-	2nd Quarter by May 31st
	-	3rd Quarter by August 31st
	-	4th Quarter by November 30th

Each section of this report form shall be filled out for those parameters listed in Section "G" of the company's Wastewater Discharge Permit. The analysis results must be reported in both concentration and mass. In addition, the calculated annual average load (lbs./day) for each pollutant shall also be reported.

The samples shall be collected at the monitoring points identified in the user permit. Identification of those points in this report should be as listed on Page two (2) of the user permit.

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PAGE 2

PART II of the report is the Compliance Monitoring section. The user is obligated to determine if the analysis results indicate compliance or non-compliance. All violations noted should be brought to the City's attention immediately upon noting and should also be reported in this section. The analysis result should be compared against all applicable federal, state and local standards and limitations. If no violations are noted then "NO VIOLATIONS" should appear on the report.

Pursuant to 40 CFR Part 403.12 g of the federal standards, all violations noted must be followed up by a sample recollect/analysis and the results submitted to the City within thirty (30) days of first becoming aware of the violation.

Pursuant to 40 CFR Part 403.12 g , all Periodic Self-Monitoring Reports must be signed by a "responsible company official" certifying the following statement.

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 assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who mange 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.

Signed: _____ Date: 5-12-05

Brian Downie
Facility Coordinator

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS mg / L		RESULTS LBS / DAY		ANNUAL AVERAGE mg / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	03/16/05		03/16/05			
24 HOUR FLOW IN MGD	0.03750		0.03750		0.03363	(MGD)
TOTAL SUSPENDED SOLIDS	9.2		2.88		4.050	1.09
SOLUBLE ORGANIC CARBON	5.7		1.20		3.950	1.01
TOTAL PHOSPHOROUS						
TOTAL PHENOL	< 0.0100		0.00000		0.069	0.015
OIL AND GREASE						
CADMIUM						
CHROMIUM						
COPPER						
LEAD						
MERCURY						
NICKEL						
ZINC						
ARSENIC						
BERYLLIUM						
BARIUM						
TOTAL CYANIDE						
pH (STANDARD UNITS)						
RESIDUAL CHLORINE						
SODIUM CHLORIDE						

Notes: J= Estimated; R = Rejected Result

PART I

ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation

Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	03/16/05		03/16/05			
24 HOUR FLOW IN MGD	0.0375		0.0375			
BENZENE	< 1		0		< 10	0
CARBON TETRACHLORIDE	< 1		0		< 10	0
CHLORODIBROMOMETHANE	< 1		0		< 10	0
MONOCHLOROBENZENE	< 1		0		< 10	0
DICHLOROBROMOMETHANE	< 1		0		< 10	0
CHLOROFORM	< 1		0		< 10	0
1,1 - DICHLOROETHYLENE	< 1		0		< 10	0
1,2 - DICHLOROETHYLENE	< 1		0		< 10	0
BROMOFORM	< 1		0		< 10	0
DICHLOROPROPYLENES	< 1		0		< 10	0
ETHYLBENZENE	< 1		0		< 10	0
1,1,2,2 - TETRACHLOROETHANE	< 1		0		< 10	0
TETRACHLOROETHYLENE	< 1		0		< 10	0
TOLUENE	< 1		0		< 0.188	7.22E-05
1,1,1 - TRICHLOROETHANE	< 1		0		< 10	0
1,1,2 - TRICHLOROETHANE	< 1		0		< 10	0
TRICHLOROETHYLENE	< 1		0		< 10	0
METHYLENE CHLORIDE	< 1		0		< 10	0
MONOCHLOROTOLUENES	< 1		0		< 0.171	6.57E-05
MONOCHLOROBENZOTRIFLUROID	< 1		0		< 10	0
VINYL CHLORIDE	< 1		0		< 10	0

Notes: J= Estimated; R = Rejected Result

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation

Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	03/16/05		03/16/05			
24 HOUR FLOW IN MGD	0.03750		0.03750			
DIMETHYL PHTHALATE	< 9.4		0		< 10.1	0
BUTYL BENZYL PHTHALATE	< 9.4		0		< 10.1	0
DIBUTYL PHTHALATE	< 9.4		0		< 10.1	0
NITROSODIPHENYLAMINE	< 9.4		0		< 10.1	0
DICHLOROBENZENES	< 1		0		< 10	0
DICHLOROTOLUENE	< 1		0		< 10	0
ACENAPHTHENE	< 9.4		0		< 10.1	0
FLUORANTHENE	< 9.4		0		< 10.1	0
CHRYSENE	< 9.4		0		< 10.1	0
NAPHTHALENE	< 9.4		0		< 10.1	0
BENZO (a) ANTHRACENE	< 9.4		0		< 10.1	0
PYRENE	< 9.4		0		< 10.1	0
TRICHLOROBENZENE	< 1		0		< 10	0
TRICHLOROTOLUENE	< 1		0		< 10	0
HEXACHLOROBUTADIENE	< 9.4		0		< 10.1	0
TETRACHLOROBENZENE	< 9.4		0		< 5.05	0
HEXACHLOROCYCLOPENTADI	< 9.4		0		< 10.1	0
HEXACHLOROBENZENE	< 9.4		0		< 5.05	0
DICHLOROBENZOTRIFLUORID	< 1		0		< 10	0
DIOCTYL PHTHALATE	< 9.4		0		< 10.1	0
DIETHYL PHTHALATE	< 9.4		0		< 10.1	0

Notes: J= Estimated; R = Rejected Result

PART I

ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation

Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	03/16/05		03/16/05			
24 HOUR FLOW IN MGD	0.03750		0.03750			
PHENANTHRENE						
MONOCHLOROPHENOL	< 9.4		0		< 10.1	0
DICHLOROPHENOL	< 9.4		0		< 10.1	0
MONOCHLOROCRESOL	< 9.4		0		< 10.1	0
TRICHLOROPHENOL	< 9.4		0		< 10.1	0
PENTACHLOROPHENOL	< 47		0		< 10.1	0
HEXACHLOROCYCLOHEXANES	J 0.00013		0.000000041		0.000	0.00000011
PCB'S						
ENDOSULFAN I + ENDOSULFAN II + ENDOSULFAN SULFATE						
MIREX						
DECHLORANE PLUS						
HEPTACHLOR + HEPTACHLOR EPOXIDE						

Notes: J= Estimated; R = Rejected Result

PART II
COMPLIANCE MONITORING

INDUSTRY NAME: OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT FACILITY

PERMIT NO. 44

2nd Quarter 2005

VIOLATION PARAMETER	DATE	FLOW (MGD)	SAMPLE POINT LOCATION	ACTUAL DISCHARGE	PERMIT LIMIT	TYPE LIMIT VIOLATED **
NO VIOLATIONS						

NOTE:

* - ACTUAL DISCHARGE - LIST ACTUAL ANALYTICAL RESULTS AND APPROPRIATE UNITS

** - TYPE LIMIT VIOLATED - LIST TYPE:

A.A. = ANNUAL AVERAGE

D.M. = DAILY MAXIMUM

L.L. = LOCAL LIMITS (ORDINANCE 250.5.1)

OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT FACILITY
PERMIT NO. 44
2nd Quarter 2005

	DATE	FLOW(GPD)	DAYS	MGD	
	02/07/05	24,800			
	02/11/05	37,200			
	02/14/05	29,900			
	02/15/05	25,000			
	02/16/05	11,800			
	02/17/05	47,500			
	02/18/05	60,800			
	02/22/05	58,500			
	02/23/05	81,000			
	02/25/05	1,000			
	02/28/05	62,700			
	SUBTOTAL	**440,200**	**11**	0.040	
	Monthly	440,200	30	0.015	
	03/01/05	67,300			
	03/02/05	48,600			
	03/08/05	102,200			
	03/09/05	67,800			
Sampled	03/14/05	14,000			**MGD**
	03/16/05	37,500			0.0375
	03/18/05	60,600			
	03/21/05	42,800			
	03/22/05	77,900			
	03/23/05	36,900			
	03/25/05	55,200			
	03/28/05	14,900			
	03/29/05	73,200			
	SUBTOTAL	**698,900**	**13**	0.054	
	Monthly	698,900	31	0.023	
	04/01/05	57,800			
	04/12/05	62,400			
	04/13/05	79,500			
	04/14/05	59,300			
	04/15/05	46,300			
	04/18/05	95,900			
	04/19/05	74,300			
	04/20/05	63,000			
	04/21/05	78,000			
	04/22/05	52,500			
	04/25/05	6,400			
	04/26/05	66,800			
	04/27/05	36,900			
	04/29/05	26,200			
	SUBTOTAL	**805,300**	**14**	0.058	
	Monthly	805,300	31	0.026	
	TOTAL	**1,944,400**			
				Avg Gallons	**MGD**
	Days Operated	38		**51,168**	**0.0512**
	DAYS in QTR.	92		**21,135**	**0.0211**

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	This is the interim sheet for															
2	the 1St quarter. The data															
3	source is the CRA and the															
4	Q&E sheets. This data is			3rd Quarter 2004			4th Quarter 2004			1st Quarter 2005			2nd Quarter 2005		Annual Average	
5	linked to pg 3 - pg 6.															
6	SAMPLE DATE			06/03/04			09/02/04			12/14/04			03/16/05			
7	FLOW (MGD)			0.02520			0.02560			0.04620			0.03750		0.03363	
8	N/A= Not applicable															
9	PAGE 2 Acid extractables			ug/L	lb/D		ug/L	lb/D		ug/L	lb/D		ug/L	lb/D	ppb	lb/D
10	Monochlorophenol		<	9.43	0	<	9.4	0	<	10.1	0	<	9.4	0	10.1	0.000
11	Dichlorophenol		<	9.43	0	<	9.4	0	<	10.1	0	<	9.4	0	10.1	0.000
12	Monochlorocresol		<	9.43	0	<	9.4	0	<	10.1	0	<	9.4	0	10.1	0.000
13	Trichlorophenol		<	9.43	0	<	9.4	0	<	10.1	0	<	9.4	0	10.1	0.000
14	Pentachlorophenol		<	9.43	0	<	9.4	0	<	10.1	0	<	47	0	10.1	0.000
15																
16	PAGE 3 Base Neutrals														ppb	lb/D
17	Dimethyl Phthalate		<	9.43	0	<	9.4	0	<	10.1	0	<	9.4	0	10.1	0.000
18	Butyl Benzyl Phthalate		<	9.43	0	<	9.4	0	<	10.1	0	<	9.4	0	10.1	0.000
19	Dibutyl Phthalate		<	9.43	0	<	9.4	0	<	10.1	0	<	9.4	0	10.1	0.000
20	Nitrosodiphenylamine		<	9.43	0	<	9.4	0	<	10.1	0	<	9.4	0	10.1	0.000
21	Dichlorobenzenes		<	10	0	<	10.0	0	<	10	0	<	1.0	0	10	0.000
22	Dichlorotoluene		<	10	0	<	10.0	0	<	10	0	<	1.0	0	10	0.000
23	Acenapthalene		<	9.43	0	<	9.4	0	<	10.1	0	<	9.4	0	10.1	0.000
24	Fluoranthene		<	9.43	0	<	9.4	0	<	10.1	0	<	9.4	0	10.1	0.000
25	Chrysene		<	9.43	0	<	9.4	0	<	10.1	0	<	9.4	0	10.1	0.000
26	Napthalene		<	9.43	0	<	9.4	0	<	10.1	0	<	9.4	0	10.1	0.000
27	Benzo(a)anthracene		<	9.43	0	<	9.4	0	<	10.1	0	<	9.4	0	10.1	0.000
28	Pyrene		<	9.43	0	<	9.4	0	<	10.1	0	<	9.4	0	10.1	0.000
29	Trichlorobenzene		<	10	0	<	10.0	0	<	10	0	<	1.0	0	10	0.000
30	Trichlorotoluene		<	10	0	<	10.0	0	<	10	0	<	1.0	0	10	0.000
31	Hexachlorobutadiene		<	9.43	0	<	9.4	0	<	10.1	0	<	9.4	0	10.1	0.000
32	Tetrachlorobenzene		<	4.72	0	<	4.7	0	<	5.05	0	<	9.4	0	5.05	0.000
33	Hexachlorobenzene		<	4.72	0	<	4.7	0	<	5.05	0	<	9.4	0	5.05	0.000
34	Dichlorobenzotrifluoride		<	10	0	<	10.0	0	<	10	0	<	1.0	0	10	0.000
35	Phenanthrene															
36	Hexachlorocyclopentadiene		<	9.43	0	<	9.4	0	<	10.1	0	<	9.4	0	10.1	0.000
37	Dioctyl phthalate		<	9.43	0	<	9.4	0	<	10.1	0	<	9.4	0	10.1	0.000
38	Diethyl phthalate		<	9.43	0	<	9.4	0	<	10.1	0	<	9.4	0	10.1	0.000
39																
40	PAGE 4 Volatiles			ppb	lb/D		ppb	lb/D		ppb	lb/D		ppb	lb/D	ppb	lb/D
41	Benzene		<	10	0	<	10.0	0	<	10.0	0	<	1.0	0	10	0.000
42	Carbon Tetrachloride		<	10	0	<	10.0	0	<	10.0	0	<	1.0	0	10	0.000
43	Chlorodibromomethane		<	10	0	<	10.0	0	<	10.0	0	<	1.0	0	10	0.000
44	Monochlorobenzene		<	10	0	<	10.0	0	<	10.0	0	<	1.0	0	10	0.000
45	Dichlorobromomethane		<	10	0	<	10.0	0	<	10.0	0	<	1.0	0	10	0.000
46	Chloroform		<	10	0	<	10.0	0	<	10.0	0	<	1.0	0	10	0.000
47	1,1-Dichloroethene		<	10	0	<	10.0	0	<	10.0	0	<	1.0	0	10	0.000
48	1,2-Dichloroethene		<	10	0	<	10.0	0	<	10.0	0	<	1.0	0	10	0.000
49	Bromoform		<	10	0	<	10.0	0	<	10.0	0	<	1.0	0	10	0.000
50	Dichloropropylenes		<	10	0	<	10.0	0	<	10.0	0	<	1.0	0	10	0.000
51	Ethylbenzene		<	10	0	<	10.0	0	<	10.0	0	<	1.0	0	10	0.000
52	Tetrachloroethanes		<	10	0	<	10.0	0	<	10.0	0	<	1.0	0	10	0.000
53	Tetrachloroethylene		<	10	0	<	10.0	0	<	10.0	0	<	1.0	0	10	0.000
54	Toluene		<	10	0	<	10.0	0		0.8	0.00029	<	1.0	0	0.188	0.000
55	1,1,1-Trichloroethane		<	10	0	<	10.0	0	<	10.0	0	<	1.0	0	10	0.000
56	1,1,2-Trichloroethane		<	10	0	<	10.0	0	<	10.0	0	<	1.0	0	10	0.000
57	Trichloroethylene		<	10	0	<	10.0	0	<	10.0	0	<	1.0	0	10	0.000
58	Methylene Chloride		<	10	0	<	10.0	0	<	10.0	0	<	1.0	0	10	0.000
59	Monochlorotoluene		<	10	0	<	10.0	0		0.7	0.00026	<	1.0	0	0.171	0.000
60	Monochlorobenzotrifluoride		<	10	0	<	10.0	0	<	10.0	0	<	1.0	0	10	0.000
61	Vinyl chloride		<	10	0	<	10.0	0	<	10.0	0	<	1.0	0	10	0.000
62																
63	PAGE 5 Conventionals			mg/l	lb/D		mg/l	lb/D		mg/l	lb/D		mg/l	lb/D	ppb	lb/D
64	TSS			7	1.47	<	4.0	0.00	<	4.0	0.00		9.2	2.88	4.050	1.0871
65	SOC			6.5	1.37		4.9	1.03		2.2	0.46		5.7	1.20	3.950	1.0141
66	Phenol, Total (mg)			0.256	0.05		0.0207	0.00	<	0.0123	0.00	<	0.01	0.00	0.069	0.0146
67																
68	PAGE 6 Pesticides			mg/l	lb/D		mg/l	lb/D		mg/l	lb/D		mg/l	lb/D	ppb	lb/D
69	Hexachlorocylohexane			0.0001458	0.00		0.0005622	0.00		0.000596	0.000	J	0.000132	0.000	0.000	0.00000011
70																
71	Notes: J= Estimated; R = Rejected Result															

CHAIN OF CUSTODY RECORD

Miller Springs Remediation
Occidental Chemical

SHIP TO (LABORATORY NAME):
STL PITTSBURGH
450 William Pitt Way
Pittsburgh,PA 15238

REF NO: 09954
LOVE CANAL
QTY SEWER SAMPLE
412-820-2088

SAMPLE RESULTS REPORTING TO:
Susan Scrocchi Fax: (716) 297-2265 Phone: (716)297-2160
Mailing Address: CRA 2055 Niagara Falls Blvd. Suite Three
NIAGARA FALLS, NY 14304

FACILITY LOCATION:
LOVE CANAL

SAMPLER(S) (PRINT NAME)
TB/FK/DC

SIGNATURE Troy Blackman
716/685-8080

DATE	TIME	SAMPLE NO.	COMPOSITE	GRAB	OTHER	CONTAINER TYPE	CONTAINERS NO. of	VOA's	PHENOL	SEMI VOLATIL	PESTICIDES	TSS	SOC				PRESERVED	REMARKS
03/16/05	12:00	INTER-305		X		*	15	8	1	2	2	1	1				HCL	ALL SAMPLES STORED
																		AND SHIPPED IN COOLER(S)
03/16/05	09:00	INF-305		X			10	3	1	2	2	1	1					
03/16/05	10:00	102ND-305		X			10	3	1	2	2	1	1					WITH ICE/ICE PACKS AND
																		KEPT AT 4c
03/16/05	12:00	EFF-305		X			15	8	1	2	2	1	1					
																		COMBINE ALL 8 VOA's PER
																		FOR EACH SET
		Program Complete																voa 40 ml/g hcl
																		phenol 250 G h2so4
03/16/05		LCQTYTP 31605			X	*	2	2										svoc 1 Liter AG
		Beginning TOTAL - 30544100																pest 1 Liter AG
		ENDING TOTAL - 30581600																tss 1 liter p
																		soc 125ml/p h2so4
		TOTAL NUMBER OF CONTAINERS					52											

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
Troy Blackman	3/16/04	14:00			
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME

BOTTLE TYPES : G = GLASS ; AG = AMBER GLASS ; P = HPDE (PLASTIC) ; SAG = SILANIZED AMBER GLASS

METHOD OF SHIPMENT : SAMPLE TEAM: TB/FK/DC CHAIN OF CUSTODY NO: LC316051

MILLER SPRINGS REMEDIATION MANAGEMENT INC.
805 – 97th Street, Niagara Falls, NY 14304
A Subsidiary of Occidental Petroleum Corporation

WNY Operation Office

Telephone (716) 283-0111 x28
Fax (716) 283-2856

August 16, 2005

Mr. Albert C. Zaepfel
Industrial Monitoring Coordinator
NIAGARA FALLS WASTEWATER FACILITIES
1201 Buffalo Avenue
Niagara Falls, NY 14303-1514

RE: Third Quarter 2005 Sampling
Occidental Chemical Corporation, Love Canal Leachate Treatment Facility
Permit No. 44

Dear Mr. Zaepfel:

Enclosed are the monitoring results and discharge report for the Third Quarter of 2005.

When concentrations are reported as < or not detected at quantitation levels, calculated mass discharges are listed and included as zero in calculated averages. Similarly one or more < concentrations is averaged with other analyses as zero. When all data averaged are ND, the highest detection level is noted, i.e., <10, <5, <8 is shown as <10.

Should you have any questions, please contact me at 283-0111 x28.

Sincerely yours,

Brian Downie
Facility Coordinator

CC: G.J. Rider, Jr., P.E. — NYSDEC, Albany
J. Konsella P.E., B. Sadowski — NYSDEC, Region 9
D. McLeod — MSRM (File)

CITY OF NIAGARA FALLS
DEPARTMENT OF WASTEWATER FACILITIES
ENFORCEMENT DIVISION

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PERMIT NO. 44 QUARTER Third - 2005

INDUSTRY NAME OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT
FACILITY

Pursuant to federal pretreatment reporting requirements and the City Sewer Use Ordinance Chapter 250, Significant Industrial Users shall submit periodic self-monitoring and compliance reports. Such reports shall be submitted using this form, according to the following schedule:

Quarterly	-	1st Quarter by February 28th
	-	2nd Quarter by May 31st
	-	3rd Quarter by August 31st
	-	4th Quarter by November 30th

Each section of this report form shall be filled out for those parameters listed in Section "G" of the company's Wastewater Discharge Permit. The analysis results must be reported in both concentration and mass. In addition, the calculated annual average load (lbs./day) for each pollutant shall also be reported.

The samples shall be collected at the monitoring points identified in the user permit. Identification of those points in this report should be as listed on Page two (2) of the user permit.

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PAGE 2

PART II of the report is the Compliance Monitoring section. The user is obligated to determine if the analysis results indicate compliance or non-compliance. All violations noted should be brought to the City's attention immediately upon noting and should also be reported in this section. The analysis result should be compared against all applicable federal, state and local standards and limitations. If no violations are noted then "NO VIOLATIONS" should appear on the report.

Pursuant to 40 CFR Part 403.12 g of the federal standards, all violations noted must be followed up by a sample recollect/analysis and the results submitted to the City within thirty (30) days of first becoming aware of the violation.

Pursuant to 40 CFR Part 403.12 g , all Periodic Self-Monitoring Reports must be signed by a "responsible company official" certifying the following statement.

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 assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who mange 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.

Signed: _____ Date: 8/17/05

Brian Downie
Facility Coordinator

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS mg / L		RESULTS LBS / DAY		ANNUAL AVERAGE mg / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	05/10/05		05/10/05			
24 HOUR FLOW IN MGD	0.03940		0.03940		0.02865	(MGD)
TOTAL SUSPENDED SOLIDS	< 4		0.00		2.300	0.00
SOLUBLE ORGANIC CARBON	8.5		1.79		4.625	0.94
TOTAL PHOSPHOROUS						
TOTAL PHENOL	< 0.0100		0.00000		0.005	0.001
OIL AND GREASE						
CADMIUM						
CHROMIUM						
COPPER						
LEAD						
MERCURY						
NICKEL						
ZINC						
ARSENIC						
BERYLLIUM						
BARIUM						
TOTAL CYANIDE						
pH (STANDARD UNITS)						
RESIDUAL CHLORINE						
SODIUM CHLORIDE						

Notes: J= Estimated; R = Rejected Result

PART I

ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation

Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	05/10/05		05/10/05			
24 HOUR FLOW IN MGD	0.0394		0.0394			
BENZENE	< 1		0		< 10	0
CARBON TETRACHLORIDE	< 1		0		< 10	0
CHLORODIBROMOMETHANE	< 1		0		< 10	0
MONOCHLOROBENZENE	< 1		0		< 10	0
DICHLOROBROMOMETHANE	< 1		0		< 10	0
CHLOROFORM	< 1		0		< 10	0
1,1 - DICHLOROETHYLENE	< 1		0		< 10	0
1,2 - DICHLOROETHYLENE	< 1		0		< 10	0
BROMOFORM	< 1		0		< 10	0
DICHLOROPROPYLENES	< 1		0		< 10	0
ETHYLBENZENE	< 1		0		< 10	0
1,1,2,2 - TETRACHLOROETHANE	< 1		0		< 10	0
TETRACHLOROETHYLENE	< 1		0		< 10	0
TOLUENE	< 1		0		< 0.188	0.000144
1,1,1 - TRICHLOROETHANE	< 1		0		< 10	0
1,1,2 - TRICHLOROETHANE	< 1		0		< 10	0
TRICHLOROETHYLENE	< 1		0		< 10	0
METHYLENE CHLORIDE	< 1		0		< 10	0
MONOCHLOROTOLUENES	< 1		0		< 0.171	0.000131
MONOCHLOROBENZOTRIFLUROID	< 1		0		< 10	0
VINYL CHLORIDE	< 1		0		< 10	0

Notes: J= Estimated; R = Rejected Result

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation

Love Canal Leachate Treatment Facility

SIU PERMIT NO: **44**

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	05/10/05		05/10/05			
24 HOUR FLOW IN MGD	0.03940		0.03940			
DIMETHYL PHTHALATE	< 9.4		0		< 10.1	0
BUTYL BENZYL PHTHALATE	< 9.4		0		< 10.1	0
DIBUTYL PHTHALATE	< 9.4		0		< 10.1	0
NITROSODIPHENYLAMINE	< 9.4		0		< 10.1	0
DICHLOROBENZENES	< 1		0		< 10	0
DICHLOROTOLUENE	< 1		0		< 10	0
ACENAPHTHENE	< 9.4		0		< 10.1	0
FLUORANTHENE	< 9.4		0		< 10.1	0
CHRYSENE	< 9.4		0		< 10.1	0
NAPHTHALENE	< 9.4		0		< 10.1	0
BENZO (a) ANTHRACENE	< 9.4		0		< 10.1	0
PYRENE	< 9.4		0		< 10.1	0
TRICHLOROBENZENE	< 1		0		< 10	0
TRICHLOROTOLUENE	< 1		0		< 10	0
HEXACHLOROBUTADIENE	< 9.4		0		< 10.1	0
TETRACHLOROBENZENE	< 9.4		0		< 9.4	0
HEXACHLOROCYCLOPENTADII	< 9.4		0		< 10.1	0
HEXACHLOROBENZENE	< 9.4		0		< 9.4	0
DICHLOROBENZOTRIFLUORIDI	< 1		0		< 10	0
DIOCTYL PHTHALATE	< 9.4		0		< 10.1	0
DIETHYL PHTHALATE	< 9.4		0		< 10.1	0

Notes: J= Estimated; R = Rejected Result

PART I

ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation

Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	05/10/05		05/10/05			
24 HOUR FLOW IN MGD	0.03940		0.03940			
PHENANTHRENE						
MONOCHLOROPHENOL	< 9.4		0		< 10.1	0
DICHLOROPHENOL	< 9.4		0		< 10.1	0
MONOCHLOROCRESOL	< 9.4		0		< 10.1	0
TRICHLOROPHENOL	< 9.4		0		< 10.1	0
PENTACHLOROPHENOL	< 47		0		< 47	0
HEXACHLOROCYCLOHEXANES	0.00023		0.000000077		0.000	0.00000016
PCB'S						
ENDOSULFAN I + ENDOSULFAN II + ENDOSULFAN SULFATE						
MIREX						
DECHLORANE PLUS						
HEPTACHLOR + HEPTACHLOR EPOXIDE						

Notes: J= Estimated; R = Rejected Result

PART II
COMPLIANCE MONITORING

INDUSTRY NAME: OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT FACILITY

PERMIT NO. 44

3rd Quarter 2005

VIOLATION PARAMETER	DATE	FLOW (MGD)	SAMPLE POINT LOCATION	ACTUAL DISCHARGE	PERMIT LIMIT	TYPE LIMIT VIOLATED **
NO VIOLATIONS						

NOTE:

* - ACTUAL DISCHARGE - LIST ACTUAL ANALYTICAL RESULTS AND APPROPRIATE UNITS

** - TYPE LIMIT VIOLATED - LIST TYPE:

A.A. = ANNUAL AVERAGE

D.M. = DAILY MAXIMUM

L.L. = LOCAL LIMITS (ORDINANCE 250.5.1)

OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT FACILITY
PERMIT NO. 44
3rd Quarter 2005

	DATE	FLOW(GPD)	DAYS	MGD	
	05/02/05	31,600			**MGD**
	05/10/05	39,400			0.0394
	05/11/05	25,800			
	05/17/05	41,900			
	05/25/05	44,700			
	SUBTOTAL	**183,400**	**5**	**0.037**	
	Monthly	183,400	31	0.006	
	06/01/05	31,900			
	06/03/05	29,900			
	06/09/05	14,100			
	06/14/05	39,500			
Sampled	06/21/05	42,000			
	06/27/05	3,400			
	SUBTOTAL	**160,800**	**6**	**0.027**	
	Monthly	160,800	**30**	0.005	
	07/05/05	39,400			
	07/12/05	25,200			
	07/19/05	28,000			
	SUBTOTAL	**92,600**	**3**	**0.031**	
	Monthly	92,600	**31**	0.003	
	TOTAL	**436,800**			

		Avg Gallons	MGD
Days Operated	14	**31,200**	**0.0312**
DAYS in QTR.	92	**4,748**	**0.0047**

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	This is the interim sheet for															
2	the 3rd quarter. The data															
3	source is the CRA and the															
4	Q&E sheets. This data is			4th Quarter 2004			1st Quarter 2005			2nd Quarter 2005			3rd Quarter 2005		Annual Average	
5	linked to pg 3 - pg 6.															
6	**SAMPLE DATE**			09/02/04			12/14/04			03/16/05			05/10/05			
7	**FLOW (MGD)**			0.02560			0.04620			0.00340			0.03940		0.02865	
8	N/A= Not applicable															
9	**PAGE 2 Acid extractables**			ug/L	lb/D		ug/L	lb/D		ug/L	lb/D		ug/L	lb/D	ppb	lb/D
10	Monochlorophenol		<	9.35	0	<	10.1	0	<	9.4	0	<	9.4	0	10.1	0.000
11	Dichlorophenol		<	9.35	0	<	10.1	0	<	9.4	0	<	9.4	0	10.1	0.000
12	Monochlorocresol		<	9.35	0	<	10.1	0	<	9.4	0	<	9.4	0	10.1	0.000
13	Trichlorophenol		<	9.35	0	<	10.1	0	<	9.4	0	<	9.4	0	10.1	0.000
14	Pentachlorophenol		<	9.35	0	<	10.1	0	<	47	0	<	47	0	47	0.000
15																
16	**PAGE 3 Base Neutrals**														ppb	lb/D
17	Dimethyl Phthalate		<	9.35	0	<	10.1	0	<	9.4	0	<	9.4	0	10.1	0.000
18	Butyl Benzyl Phthalate		<	9.35	0	<	10.1	0	<	9.4	0	<	9.4	0	10.1	0.000
19	Dibutyl Phthalate		<	9.35	0	<	10.1	0	<	9.4	0	<	9.4	0	10.1	0.000
20	Nitrosodiphenylamine		<	9.35	0	<	10.1	0	<	9.4	0	<	9.4	0	10.1	0.000
21	Dichlorobenzenes		<	10	0	<	10.0	0	<	1	0	<	1.0	0	10	0.000
22	Dichlorotoluene		<	10	0	<	10.0	0	<	1	0	<	1.0	0	10	0.000
23	Acenapthalene		<	9.35	0	<	10.1	0	<	9.4	0	<	9.4	0	10.1	0.000
24	Fluoranthene		<	9.35	0	<	10.1	0	<	9.4	0	<	9.4	0	10.1	0.000
25	Chrysene		<	9.35	0	<	10.1	0	<	9.4	0	<	9.4	0	10.1	0.000
26	Napthalene		<	9.35	0	<	10.1	0	<	9.4	0	<	9.4	0	10.1	0.000
27	Benzo(a)anthracene		<	9.35	0	<	10.1	0	<	9.4	0	<	9.4	0	10.1	0.000
28	Pyrene		<	9.35	0	<	10.1	0	<	9.4	0	<	9.4	0	10.1	0.000
29	Trichlorobenzene		<	10	0	<	10.0	0	<	1	0	<	1.0	0	10	0.000
30	Trichlorotoluene		<	10	0	<	10.0	0	<	1	0	<	1.0	0	10	0.000
31	Hexachlorobutadiene		<	9.35	0	<	10.1	0	<	9.4	0	<	9.4	0	10.1	0.000
32	Tetrachlorobenzene		<	4.67	0	<	5.1	0	<	9.4	0	<	9.4	0	9.4	0.000
33	Hexachlorobenzene		<	4.72	0	<	5.1	0	<	9.4	0	<	9.4	0	9.4	0.000
34	Dichlorobenzotrifluoride		<	10	0	<	10.0	0	<	1	0	<	1.0	0	10	0.000
35	Phenanthrene															
36	Hexachlorocyclopentadiene		<	9.35	0	<	10.1	0	<	9.4	0	<	9.4	0	10.1	0.000
37	Dioctyl phthalate		<	9.35	0	<	10.1	0	<	9.4	0	<	9.4	0	10.1	0.000
38	Diethyl phthalate		<	9.35	0	<	10.1	0	<	9.4	0	<	9.4	0	10.1	0.000
39																
40	**PAGE 4 Volatiles**			ppb	lb/D		ppb	lb/D		ppb	lb/D		ppb	lb/D	ppb	lb/D
41	Benzene		<	10	0	<	10.0	0	<	1.0	0	<	1.0	0	10	0.000
42	Carbon Tetrachloride		<	10	0	<	10.0	0	<	1.0	0	<	1.0	0	10	0.000
43	Chlorodibromomethane		<	10	0	<	10.0	0	<	1.0	0	<	1.0	0	10	0.000
44	Monochlorobenzene		<	10	0	<	10.0	0	<	1.0	0	<	1.0	0	10	0.000
45	Dichlorobromomethane		<	10	0	<	10.0	0	<	1.0	0	<	1.0	0	10	0.000
46	Chloroform		<	10	0	<	10.0	0	<	1.0	0	<	1.0	0	10	0.000
47	1,1-Dichloroethene		<	10	0	<	10.0	0	<	1.0	0	<	1.0	0	10	0.000
48	1,2-Dichloroethene		<	10	0	<	10.0	0	<	1.0	0	<	1.0	0	10	0.000
49	Bromoform		<	10	0	<	10.0	0	<	1.0	0	<	1.0	0	10	0.000
50	Dichloropropylenes		<	10	0	<	10.0	0	<	1.0	0	<	1.0	0	10	0.000
51	Ethylbenzene		<	10	0	<	10.0	0	<	1.0	0	<	1.0	0	10	0.000
52	Tetrachloroethanes		<	10	0	<	10.0	0	<	1.0	0	<	1.0	0	10	0.000
53	Tetrachloroethylene		<	10	0	<	10.0	0	<	1.0	0	<	1.0	0	10	0.000
54	Toluene		<	10	0		0.8	0.00029	<	1.0	0.00029	<	1.0	0	0.188	0.000
55	1,1,1-Trichloroethane		<	10	0	<	10.0	0	<	1.0	0	<	1.0	0	10	0.000
56	1,1,2-Trichloroethane		<	10	0	<	10.0	0	<	1.0	0	<	1.0	0	10	0.000
57	Trichloroethylene		<	10	0	<	10.0	0	<	1.0	0	<	1.0	0	10	0.000
58	Methylene Chloride		<	10	0	<	10.0	0	<	1.0	0	<	1.0	0	10	0.000
59	Monochlorotoluene		<	10	0		0.7	0.00026	<	1.0	0.00026	<	1.0	0	0.171	0.000
60	Monochlorobenzotrifluoride		<	10	0	<	10.0	0	<	1.0	0	<	1.0	0	10	0.000
61	Vinyl chloride		<	10	0	<	10.0	0	<	1.0	0	<	1.0	0	10	0.000
62																
63	**PAGE 5 Conventionals**			mg/l	lb/D		mg/l	lb/D		mg/l	lb/D		mg/l	lb/D	ppb	lb/D
64	TSS		<	4	0.00	<	4.0	0.00		9.2	0.00	<	4.0	0.00	2.300	0.0000
65	SOC			4.9	1.03		2.2	0.46		5.7	0.46		8.5	1.79	4.625	0.9352
66	Phenol, Total (mg)			0.0207	0.00	<	0.0123	0.00	<	0.01	0.00	<	0.01	0.00	0.005	0.0011
67																
68	**PAGE 6 Pesticides**			mg/l	lb/D		mg/l	lb/D		mg/l	lb/D		mg/l	lb/D	ppb	lb/D
69	Hexachlorocylohexane			0.0005622	0.00		0.000596	0.00		0.000132	0.000		0.000234	0.000	0.000	0.00000016
70																
71	Notes: J= Estimated; R = Rejected Result															

	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1																
2																
3																
4																
5	**SAMPLE DATE**															
6	**FLOW (MGD)**															
7	N/A= Not applicable															
8	**PAGE 2 Acid extractables**															
9	Monochlorophenol		<	m-Monochlorobenzotrifluor			0			-						
10	Dichlorophenol		<	Dibromochloromethane			0			-						
11	Monochlorocresol		<	m-Monochlorobenzotrifluor			0			-						
12	Trichlorophenol		<	Trichloroethene			0			-						
13	Pentachlorophenol		<	Pentachlorophenol			1			Pentachlorophenol						
14																
15	**PAGE 3 Base Neutrals**			o-Monochlorobenzotrifluori			0			-						
16	Dimethyl Phthalate		<	Dimethyl phthalate			0			-						
17	Butyl Benzyl Phthalate		<	Bromoform			0			-						
18	Dibutyl Phthalate		<	Dibromochloromethane			0			-						
19	Nitrosodiphenylamine		<	Naphthalene			0			-						
20	Dichlorobenzenes		<	Dibromochloromethane			0			-						
21	Dichlorotoluene		<	Dibromochloromethane			0			-						
22	Acenapthalene		<	Acenaphthylene			0			-						
23	Fluoranthene		<	Fluoranthene			1			10.0 U						
24	Chrysene		<	Chrysene			1			10.0 U						
25	Napthalene		<	Naphthalene			0			-						
26	Benzo(a)anthracene		<	Benzo(a)anthracene			1			10.0 U						
27	Pyrene		<	Pyrene			1			10.0 U						
28	Trichlorobenzene		<	trans-1,3-Dichloropropene			0			-						
29	Trichlorotoluene		<	Trichloroethene			0			-						
30	Hexachlorobutadiene		<	Hexachlorobutadiene			1			10.0 U						
31	Tetrachlorobenzene		<	Pyrene			0			-						
32	Hexachlorobenzene		<	Hexachlorobenzene			1			10.0 U						
33	Dichlorobenzotrifluoride		<	Dibromochloromethane			0			-						
34	Phenanthrene			Pentachlorophenol			0			-						
35	Hexachlorocyclopentadiene		<	Hexachlorocyclopentadien			1			10.0 U						
36	Dioctyl phthalate		<	Di-n-octyl phthalate			0			-						
37	Diethyl phthalate		<	Diethyl phthalate			1			10.0 U						
38				0												
39	**PAGE 4 Volatiles**			o-Monochlorobenzotrifluori			0			-						
40	Benzene		<	Benzene			1			10.0 U						
41	Carbon Tetrachloride		<	Carbon tetrachloride			0			-						
42	Chlorodibromomethane		<	Chlorobenzene			0			-						
43	Monochlorobenzene		<	m-Monochlorobenzotrifluor			0			-						
44	Dichlorobromomethane		<	Dibromochloromethane			0			-						
45	Chloroform		<	Chlorobenzene			0			-			J			
46	1,1-Dichloroethene		<	1,1-Dichloroethene			1			#N/A						
47	1,2-Dichloroethene		<	1,2-Dichlorobenzene			0			-						
48	Bromoform		<	Bromoform			1			10.0 U						
49	Dichloropropylenes		<	Dibromochloromethane			0			-						
50	Ethylbenzene		<	Ethylbenzene			1			10.0 U						
51	Tetrachloroethanes		<	Pyrene			0			-						
52	Tetrachloroethylene		<	Tetrachloroethene			0			-						
53	Toluene		<	Toluene			1			10.0 U						
54	1,1,1-Trichloroethane		<	1,1,1-Trichloroethane			1			#N/A						
55	1,1,2-Trichloroethane		<	1,1,2-Trichloroethane			1			#N/A						
56	Trichloroethylene		<	Trichloroethene			0			-						
57	Methylene Chloride		<	Methylene chloride			0			-						
58	Monochlorotoluene		<	m-Monochlorobenzotrifluor			0			-						
59	Monochlorobenzotrifluoride		<	m-Monochlorobenzotrifluor			0			-						
60	Vinyl chloride		<	Vinyl chloride			1			10.0 U						
61				0												
62	**PAGE 5 Conventionals**			o-Monochlorobenzotrifluori			0			-						
63	TSS		<	Trichloroethene			0			-						
64	SOC			Pyrene			0			-						
65	Phenol, Total (mg)			Pentachlorophenol			0			-						
66				0												
67	**PAGE 6 Pesticides**			o-Monochlorobenzotrifluori			0			-						
68	Hexachlorocylohexane			Hexachlorocyclopentadien			0			-						
69							17									
70	Notes: J= Estimated; R = Rejected Result															
71																

CHAIN OF CUSTODY RECORD

Miller Springs Remediation
Occidental Chemical

SHIP TO (LABORATORY NAME):
STL PITTSBURGH
301 Alpha Drive, RIDC Park
Pittsburgh, PA 15238

REF NO: 09954
LOVE CANAL
QTY SEWER SAMPLE
412-963-7058

SAMPLE RESULTS REPORTING TO:
Susan Scrocchi Fax: (716) 297-2265 Phone: (716)297-2160
Mailing Address: CRA 2055 Niagara Falls Blvd. Suite Three
NIAGARA FALLS, NY 14304

FACILITY LOCATION:
LOVE CANAL

SAMPLER(S) (PRINT NAME)
FK TB DC

SIGNATURE

DATE	TIME	SAMPLE NO.	COMPOSITE	GRAB	OTHER	CONTAINER TYPE	CONTAINERS NO. of	VOA's	PHENOL	SEMI VOLATIL	PESTICIDES	TSS	SOC				PRESERVED	REMARKS
05/10/05	8:40	INTER-505		X		*	2	2									HCL	ALL SAMPLES STORED
05/10/05	9:40	INTER-505		X			2	2										AND SHIPPED IN COOLER(S)
05/10/05	10:40	INTER-505		X			2	2									-	WITH ICE/ICE PACKS AND
05/10/05	11:40	INTER-505		X			2	2									-	KEPT AT 4c
05/10/05	8:40	EFF-505		X			2	2									-	
05/10/05	9:40	EFF-505		X			2	2										
05/10/05	10:40	EFF-505		X			2	2									H2SO4	
05/10/05	11:40	EFF-505		X			2	2										
																		COMBINE ALL 8 VOA's PER
																	HCL	EACH SET TO MAKE IT
																		A COMPSITE SAMPLE
																	-	FOR EACH SET
																	-	
																	-	40 ml/g
																	H2SO4	1 Liter AG
																		1 Liter AG
																		1 Liter AG
																		4oz. P
																		4ozAG
		TOTAL NUMBER OF CONTAINERS					16											

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
	5/10/05	13:30			
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME

BOTTLE TYPES : G = GLASS ; AG = AMBER GLASS ; P = HPDE (PLASTIC) ; SAG = SILANIZED AMBER GLASS

METHOD OF SHIPMENT : SAMPLE TEAM: TBLACKMON/DCROC CHAIN OF CUSTODY NO: LC510051

MILLER SPRINGS REMEDIATION MANAGEMENT INC.
805 – 97th Street, Niagara Falls, NY 14304
A Subsidiary of Occidental Petroleum Corporation

WNY Operation Office

Telephone (716) 283-0111 x28
Fax (716) 283-2856

November 08, 2005

Mr. Albert C. Zaepfel
Industrial Monitoring Coordinator
NIAGARA FALLS WASTEWATER FACILITIES
1201 Buffalo Avenue
Niagara Falls, NY 14303-1514

RE: Fourth Quarter 2005 Sampling
Occidental Chemical Corporation, Love Canal Leachate Treatment Facility
Permit No. 44

Dear Mr. Zaepfel:

Enclosed are the monitoring results and discharge report for the Fourth Quarter of 2005.

When concentrations are reported as < or not detected at quantitation levels, calculated mass discharges are listed and included as zero in calculated averages. Similarly one or more < concentrations is averaged with other analyses as zero. When all data averaged are ND, the highest detection level is noted, i.e., <10, <5, <8 is shown as <10.

Should you have any questions, please contact me at 283-0111 x28.

Sincerely yours,

Brian Downie
Facility Coordinator

CC:	G.J. Rider, Jr., P.E.	NYSDEC, Albany
	J. Konsella P.E., B. Sadowski	NYSDEC, Region 9
	D. McLeod	GSHI
	S. Parkhill	MSRM

CITY OF NIAGARA FALLS
DEPARTMENT OF WASTEWATER FACILITIES
ENFORCEMENT DIVISION

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PERMIT NO. 44 QUARTER Fourth - 2005

INDUSTRY NAME OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT
FACILITY

Pursuant to federal pretreatment reporting requirements and the City Sewer Use Ordinance Chapter 250, Significant Industrial Users shall submit periodic self-monitoring and compliance reports. Such reports shall be submitted using this form, according to the following schedule:

Quarterly	-	1st Quarter by February 28th
	-	2nd Quarter by May 31st
	-	3rd Quarter by August 31st
	-	4th Quarter by November 30th

Each section of this report form shall be filled out for those parameters listed in Section "G" of the company's Wastewater Discharge Permit. The analysis results must be reported in both concentration and mass. In addition, the calculated annual average load (lbs./day) for each pollutant shall also be reported.

The samples shall be collected at the monitoring points identified in the user permit. Identification of those points in this report should be as listed on Page two (2) of the user permit.

SELF MONITORING REPORT
SIGNIFICANT INDUSTRIAL USERS

PAGE 2

PART II of the report is the Compliance Monitoring section. The user is obligated to determine if the analysis results indicate compliance or non-compliance. All violations noted should be brought to the City's attention immediately upon noting and should also be reported in this section. The analysis result should be compared against all applicable federal, state and local standards and limitations. If no violations are noted then "NO VIOLATIONS" should appear on the report.

Pursuant to 40 CFR Part 403.12 g of the federal standards, all violations noted must be followed up by a sample recollect/analysis and the results submitted to the City within thirty (30) days of first becoming aware of the violation.

Pursuant to 40 CFR Part 403.12 g , all Periodic Self-Monitoring Reports must be signed by a "responsible company official" certifying the following statement.

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 assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who mange 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.

Signed: _____ Date: 11/08/05

Brian Downie
Facility Coordinator

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation
Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS mg / L		RESULTS LBS / DAY		ANNUAL AVERAGE mg / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	08/24/05		08/24/05			
24 HOUR FLOW IN MGD	0.02780		0.02780		0.02920	(MGD)
TOTAL SUSPENDED SOLIDS	7		1.62		4.050	0.41
SOLUBLE ORGANIC CARBON	10.1		2.12		6.225	1.21
TOTAL PHOSPHOROUS						
TOTAL PHENOL	0.0560		0.01298		0.014	0.003
OIL AND GREASE						
CADMIUM						
CHROMIUM						
COPPER						
LEAD						
MERCURY						
NICKEL						
ZINC						
ARSENIC						
BERYLLIUM						
BARIUM						
TOTAL CYANIDE						
pH (STANDARD UNITS)						
RESIDUAL CHLORINE						
SODIUM CHLORIDE						

Notes: J= Estimated; R = Rejected Result

PART I

ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation

Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	08/24/05		08/24/05			
24 HOUR FLOW IN MGD	0.0278		0.0278			
BENZENE	< 1		0		< 10	0
CARBON TETRACHLORIDE	< 1		0		< 10	0
CHLORODIBROMOMETHANE	< 1		0		< 10	0
MONOCHLOROBENZENE	< 1		0		< 10	0
DICHLOROBROMOMETHANE	< 1		0		< 10	0
CHLOROFORM	< 1		0		< 10	0
1,1 - DICHLOROETHYLENE	< 1		0		< 10	0
1,2 - DICHLOROETHYLENE	< 1		0		< 10	0
BROMOFORM	< 1		0		< 10	0
DICHLOROPROPYLENES	< 1		0		< 10	0
ETHYLBENZENE	< 1		0		< 10	0
1,1,2,2 - TETRACHLOROETHANE	< 1		0		< 10	0
TETRACHLOROETHYLENE	< 1		0		< 10	0
TOLUENE	< 1		0		< 0.188	0.000144
1,1,1 - TRICHLOROETHANE	< 1		0		< 10	0
1,1,2 - TRICHLOROETHANE	< 1		0		< 10	0
TRICHLOROETHYLENE	< 1		0		< 10	0
METHYLENE CHLORIDE	< 1		0		< 10	0
MONOCHLOROTOLUENES	< 1		0		< 0.171	0.000131
MONOCHLOROBENZOTRIFLUROID	< 1		0		< 10	0
VINYL CHLORIDE	< 1		0		< 10	0

Notes: J= Estimated; R = Rejected Result

PART I
ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation

Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	08/24/05		08/24/05			
24 HOUR FLOW IN MGD	0.02780		0.02780			
DIMETHYL PHTHALATE	< 9.4		0		< 10.1	0
BUTYL BENZYL PHTHALATE	< 9.4		0		< 10.1	0
DIBUTYL PHTHALATE	< 9.4		0		< 10.1	0
NITROSODIPHENYLAMINE	< 9.4		0		< 10.1	0
DICHLOROBENZENES	< 1		0		< 10	0
DICHLOROTOLUENE	< 1		0		< 10	0
ACENAPHTHENE	< 9.4		0		< 10.1	0
FLUORANTHENE	< 9.4		0		< 10.1	0
CHRYSENE	< 9.4		0		< 10.1	0
NAPHTHALENE	< 9.4		0		< 10.1	0
BENZO (a) ANTHRACENE	< 9.4		0		< 10.1	0
PYRENE	< 9.4		0		< 10.1	0
TRICHLOROBENZENE	< 1		0		< 10	0
TRICHLOROTOLUENE	< 1		0		< 10	0
HEXACHLOROBUTADIENE	< 9.4		0		< 10.1	0
TETRACHLOROBENZENE	< 9.4		0		< 9.4	0
HEXACHLOROCYCLOPENTADI	< 9.4		0		< 10.1	0
HEXACHLOROBENZENE	< 9.4		0		< 9.4	0
DICHLOROBENZOTRIFLUORIDI	< 1		0		< 10	0
DIOCTYL PHTHALATE	< 9.4		0		< 10.1	0
DIETHYL PHTHALATE	< 9.4		0		< 10.1	0

Notes: J= Estimated; R = Rejected Result

PART I

ANALYTICAL RESULTS

SIU PERMIT NAME: Occidental Chemical Corporation

Love Canal Leachate Treatment Facility

SIU PERMIT NO: 44

SAMPLE LOCATION (AS PER PERMIT) **MS#1 - 97th Street**

	RESULTS ug / L		RESULTS LBS / DAY		ANNUAL AVERAGE ug / L	ANNUAL AVERAGE LBS / DAY
DATE SAMPLED	08/24/05		08/24/05			
24 HOUR FLOW IN MGD	0.02780		0.02780			
PHENANTHRENE						
MONOCHLOROPHENOL	< 9.4		0		< 10.1	0
DICHLOROPHENOL	< 9.4		0		< 10.1	0
MONOCHLOROCRESOL	< 9.4		0		< 10.1	0
TRICHLOROPHENOL	< 9.4		0		< 10.1	0
PENTACHLOROPHENOL	< 47		0		< 47	0
HEXACHLOROCYCLOHEXANES	3.8E-05		0.000000009		0.000	0.00000014
PCB'S						
ENDOSULFAN I + ENDOSULFAN II + ENDOSULFAN SULFATE						
MIREX						
DECHLORANE PLUS						
HEPTACHLOR + HEPTACHLOR EPOXIDE						

Notes: J= Estimated; R = Rejected Result

PART II
COMPLIANCE MONITORING

INDUSTRY NAME: OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT FACILITY

PERMIT NO. 44

4th Quarter 2005

VIOLATION PARAMETER	DATE	FLOW (MGD)	SAMPLE POINT LOCATION	ACTUAL DISCHARGE	PERMIT LIMIT	TYPE LIMIT VIOLATED **
NO VIOLATIONS						

NOTE:

* - ACTUAL DISCHARGE - LIST ACTUAL ANALYTICAL RESULTS AND APPROPRIATE UNITS

** - TYPE LIMIT VIOLATED - LIST TYPE:

A.A. = ANNUAL AVERAGE

D.M. = DAILY MAXIMUM

L.L. = LOCAL LIMITS (ORDINANCE 250.5.1)

OCCIDENTAL CHEMICAL CORPORATION
LOVE CANAL LEACHATE TREATMENT FACILITY
PERMIT NO. 44
4th Quarter 2005

	DATE	FLOW(GPD)	DAYS	MGD	
	08/02/05	35,500			
	08/15/05	11,300			
	08/18/05	19,300			MGD
	08/24/05	27,800			0.0278
	08/25/05	4,900			
	SUBTOTAL	**98,800**	**5**	0.020	
	Monthly	98,800	31	0.003	
	09/06/05	54,200			
	09/07/05	51,700			
	09/16/05	32,000			
	09/22/05	42,600			
Sampled	09/23/05	5,000			
	09/27/05	46,600			
	09/28/05	36,700			
	09/29/05	49,100			
	SUBTOTAL	**317,900**	**8**	0.040	
	Monthly	317,900	**30**	0.011	
	10/03/05	57,300			
	10/10/05	20,600			
	10/11/05	18,400			
	10/14/05	78,600			
	10/17/05	36,600			
	10/24/05	53,400			
	10/25/05	37,800			
	10/26/05	60,800			
	10/27/05	57,400			
	10/31/05	65,400			
	SUBTOTAL	**486,300**	**10**	0.049	
	Monthly	486,300	**31**	0.016	
	TOTAL	**903,000**			
				Avg Gallons	**MGD**
	Days Operated	23		**39,261**	**0.0393**
	DAYS in QTR.	92		**9,815**	**0.0098**

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	This is the interim sheet for															
2	the 4th quarter. The data															
3	source is the CRA and the															
4	Q&E sheets. This data is			1st Quarter 2005			2nd Quarter 2005			3rd Quarter 2005			4th Quarter 2005		Annual Average	
5	linked to pg 3 - pg 6.															
5	**SAMPLE DATE**			12/14/04			03/16/05			05/10/05			08/24/05			
6	**FLOW (MGD)**			0.04620			0.00340			0.03940			0.02780		0.02920	
7	N/A= Not applicable															
8	**PAGE 2 Acid extractables**			ug/L	lb/D		ug/L	lb/D		ug/L	lb/D		ug/L	lb/D	ppb	lb/D
9	Monochlorophenol		<	10.1	0	<	9.4	0	<	9.4	0	<	9.4	0	10.1	0.000
10	Dichlorophenol		<	10.1	0	<	9.4	0	<	9.4	0	<	9.4	0	10.1	0.000
11	Monochlorocresol		<	10.1	0	<	9.4	0	<	9.4	0	<	9.4	0	10.1	0.000
12	Trichlorophenol		<	10.1	0	<	9.4	0	<	9.4	0	<	9.4	0	10.1	0.000
13	Pentachlorophenol		<	10.1	0	<	47.0	0	<	47	0	<	47	0	47	0.000
14																
15	**PAGE 3 Base Neutrals**														ppb	lb/D
16	Dimethyl Phthalate		<	10.1	0	<	9.4	0	<	9.4	0	<	9.4	0	10.1	0.000
17	Butyl Benzyl Phthalate		<	10.1	0	<	9.4	0	<	9.4	0	<	9.4	0	10.1	0.000
18	Dibutyl Phthalate		<	10.1	0	<	9.4	0	<	9.4	0	<	9.4	0	10.1	0.000
19	Nitrosodiphenylamine		<	10.1	0	<	9.4	0	<	9.4	0	<	9.4	0	10.1	0.000
20	Dichlorobenzenes		<	10	0	<	1.0	0	<	1	0	<	1.0	0	10	0.000
21	Dichlorotoluene		<	10	0	<	1.0	0	<	1	0	<	1.0	0	10	0.000
22	Acenapthalene		<	10.1	0	<	9.4	0	<	9.4	0	<	9.4	0	10.1	0.000
23	Fluoranthene		<	10.1	0	<	9.4	0	<	9.4	0	<	9.4	0	10.1	0.000
24	Chrysene		<	10.1	0	<	9.4	0	<	9.4	0	<	9.4	0	10.1	0.000
25	Napthalene		<	10.1	0	<	9.4	0	<	9.4	0	<	9.4	0	10.1	0.000
26	Benzo(a)anthracene		<	10.1	0	<	9.4	0	<	9.4	0	<	9.4	0	10.1	0.000
27	Pyrene		<	10.1	0	<	9.4	0	<	9.4	0	<	9.4	0	10.1	0.000
28	Trichlorobenzene		<	10	0	<	1.0	0	<	1	0	<	1.0	0	10	0.000
29	Trichlorotoluene		<	10	0	<	1.0	0	<	1	0	<	1.0	0	10	0.000
30	Hexachlorobutadiene		<	10.1	0	<	9.4	0	<	9.4	0	<	9.4	0	10.1	0.000
31	Tetrachlorobenzene		<	5.05	0	<	9.4	0	<	9.4	0	<	9.4	0	9.4	0.000
32	Hexachlorobenzene		<	5.05	0	<	9.4	0	<	9.4	0	<	9.4	0	9.4	0.000
33	Dichlorobenzotrifluoride		<	10	0	<	1.0	0	<	1	0	<	1.0	0	10	0.000
34	Phenanthrene															
35	Hexachlorocyclopentadiene		<	10.1	0	<	9.4	0	<	9.4	0	<	9.4	0	10.1	0.000
36	Dioctyl phthalate		<	10.1	0	<	9.4	0	<	9.4	0	<	9.4	0	10.1	0.000
37	Diethyl phthalate		<	10.1	0	<	9.4	0	<	9.4	0	<	9.4	0	10.1	0.000
38																
39	**PAGE 4 Volatiles**			ppb	lb/D		ppb	lb/D		ppb	lb/D		ppb	lb/D	ppb	lb/D
40	Benzene		<	10	0	<	1.0	0	<	1.0	0	<	1.0	0	10	0.000
41	Carbon Tetrachloride		<	10	0	<	1.0	0	<	1.0	0	<	1.0	0	10	0.000
42	Chlorodibromomethane		<	10	0	<	1.0	0	<	1.0	0	<	1.0	0	10	0.000
43	Monochlorobenzene		<	10	0	<	1.0	0	<	1.0	0	<	1.0	0	10	0.000
44	Dichlorobromomethane		<	10	0	<	1.0	0	<	1.0	0	<	1.0	0	10	0.000
45	Chloroform		<	10	0	<	1.0	0	<	1.0	0	<	1.0	0	10	0.000
46	1,1-Dichloroethene		<	10	0	<	1.0	0	<	1.0	0	<	1.0	0	10	0.000
47	1,2-Dichloroethene		<	10	0	<	1.0	0	<	1.0	0	<	1.0	0	10	0.000
48	Bromoform		<	10	0	<	1.0	0	<	1.0	0	<	1.0	0	10	0.000
49	Dichloropropylenes		<	10	0	<	1.0	0	<	1.0	0	<	1.0	0	10	0.000
50	Ethylbenzene		<	10	0	<	1.0	0	<	1.0	0	<	1.0	0	10	0.000
51	Tetrachloroethanes		<	10	0	<	1.0	0	<	1.0	0	<	1.0	0	10	0.000
52	Tetrachloroethylene		<	10	0	<	1.0	0	<	1.0	0	<	1.0	0	10	0.000
53	Toluene			0.75	0.00029	<	1.0	0.00029	<	1.0	0	<	1.0	0	0.188	0.000
54	1,1,1-Trichloroethane		<	10	0	<	1.0	0	<	1.0	0	<	1.0	0	10	0.000
55	1,1,2-Trichloroethane		<	10	0	<	1.0	0	<	1.0	0	<	1.0	0	10	0.000
56	Trichloroethylene		<	10	0	<	1.0	0	<	1.0	0	<	1.0	0	10	0.000
57	Methylene Chloride		<	10	0	<	1.0	0	<	1.0	0	<	1.0	0	10	0.000
58	Monochlorotoluene			0.682	0.00026	<	1.0	0.00026	<	1.0	0	<	1.0	0	0.171	0.000
59	Monochlorobenzotrifluoride		<	10	0	<	1.0	0	<	1.0	0	<	1.0	0	10	0.000
60	Vinyl chloride		<	10	0	<	1.0	0	<	1.0	0	<	1.0	0	10	0.000
61																
62	**PAGE 5 Conventionals**			mg/l	lb/D		mg/l	lb/D		mg/l	lb/D		mg/l	lb/D	ppb	lb/D
63	TSS		<	4	0.00		9.2	0.00	<	4.0	0.00		7.0	1.62	4.050	0.4057
64	SOC			2.2	0.46		5.7	0.46		8.5	1.79		10.1	2.12	6.225	1.2085
65	Phenol, Total (mg)		<	0.0123	0.00	<	0.01	0.00	<	0.01	0.00		0.056	0.01	0.014	0.0032
66																
67	**PAGE 6 Pesticides**			mg/l	lb/D		mg/l	lb/D		mg/l	lb/D		mg/l	lb/D	ppb	lb/D
68	Hexachlorocylohexane			0.000596	0.00		0.0001322	0.00		0.000234	0.000		0.000038	0.000	0.000	0.00000014
69																
70	Notes: J= Estimated; R = Rejected Result															
71																

CHAIN OF CUSTOD' ECORD

Miller Springs Remediation
Occidental Chemical

SHIP TO (LABORATORY NAME):
STL PITTSBURGH
301 Alpha Drive, RIDC Park
Pittsburgh, PA 15238

REF NO: 09954
LOVE CANAL
QTY SEWER SAMPLE
412-963-7058

SAMPLE RESULTS REPORTING TO:
Susan Scrocchi Fax: (716) 297-2265 Phone: (716)297-2160
Mailing Address: CRA 2055 Niagara Falls Blvd. Suite Three
NIAGARA FALLS, NY 14304

FACILITY LOCATION:
LOVE CANAL

SAMPLER(S) (PRINT NAME)
FK TB DC

SIGNATURE

DATE	TIME	SAMPLE NO.	COMPOSITE	GRAB	OTHER	CONTAINER TYPE	CONTAINERS NO. of	VOA's	PHENOL	SEMI VOLATIL	PESTICIDES	TSS	SOC				PRESERVED	REMARKS
08/24/05	9:40	INTER-805		X		*	2	2									HCL	ALL SAMPLES STORED
08/24/05	10:40	INTER-805		X			2	2										AND SHIPPED IN COOLER(S)
08/24/05	11:40	INTER-805		X			2	2									-	WITH ICE/ICE PACKS AND
08/24/05	12:40	INTER-805		X			2	2									-	KEPT AT 4c
08/24/05	9:40	EFF-805		X			2	2									-	
08/24/05	10:40	EFF-805		X			2	2										
08/24/05	11:40	EFF-805		X			2	2									H2SO4	
08/24/05	12:40	EFF-805		X			2	2										
																		COMBINE ALL 8 VOA's PER
																	HCL	EACH SET TO MAKE IT
																		A COMPSITE SAMPLE
																	-	FOR EACH SET
																	-	
																	-	40 ml/g
																	H2SO4	1 Liter AG
																		1 Liter AG
																		1 Liter AG
																		4oz. P
																		4ozAG
		TOTAL NUMBER OF CONTAINERS					16											

Program Complete

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
	8/24/05	1:45pm			
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME

BOTTLE TYPES : G = GLASS ; AG = AMBER GLASS ; P = HPDE (PLASTIC) ; SAG = SILANIZED AMBER GLASS

METHOD OF SHIPMENT : SAMPLE TEAM: TB/DC/FK CHAIN OF CUSTODY NO: LC824051