IL-0217-10

ecology and environment, inc.

223 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60606, TEL. 312-663-9415

International Specialists in the Environmental Sciences

EPA Region 5 Records Ctr.

357876

Date Received for Review: 10/3/84 Date Review Completed: 10/4/84

To: RON ST. JOHN

From: Cynthia Bachunas

Subject: LOVES PARK
ROS-8303-01D (ILLINOIS)

Sample Description: CASE 3140 - LOW WATER METALS AND CYANIDE

Project Data Status: COMPLETE

FIT Data Review Findings:

- FIELD BLANK ME 3270 CONTAINS 106 ppb IRON, 5.8 ppb SELENIUM AND 39 ppb ZINC. PLEASE CONSIDER THIS WHEN REVIEWING YOUR SAMPLE DATA.
- SEE ATTACHED CRL REVIEW COMMENTS

Additional Comments:

recycled paper

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 10/1/84

RECEIVED OCT 0 3 1984

SUBJECT: Review of Region V CLP Data
Received for Review on 9/20/84

FROM: Curtis Ross, Director Chuck Elly
Central Regional Laboratory

TO: Data User: FIT

We have reviewed the data for the following case(s).

SITE NAME Loves Park SMO Case No. 3140

EPA Data Set No. SF 638 No. of Samples 6 D.U./Activity Numbers Y9651 048500

CRL No. 84MS09570 To 84MS09812

SMO Traffic No. ME 3265 To ME 3270

Contract Laboratory: US Testing Hours Required for Review: 4

Following are our findings.

Contractural:

The reagent blank was used for the duplicate and spike reference. It is suggested an actual water collected sample be used for these qualified performances, since they provide information about the sample matrix.

Technical:

The initial calibration and preparation blanks for CN^- are not recorded on the Q.C. sheet. All other CN^- data was transmitted.

10-1-84 LM

( ) Data are acceptable for use.
(X) Data are acceptable for use with qualifications noted above.
( ) Data are preliminary - pending verification by Contractor Laboratory.
( ) Data are unacceptable.

cc: Dr. Alfred Haeberer/Joan Fisk/Gary Ward, EPA Support Services
Ross K. Robeson, EMSL-Las Vegas
Robert Pritchard, CLP/SMO

EPA FORM 1320-4 (REV 3-76)

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

SF 638

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SEP 10 1984
US EPA CENTRAL REGIONAL LAB
536 S. CLARK STREET
CHICAGO, ILLINOIS 60605

Date 9/7/84

COVER PAGE
INORGANIC ANALYSES DATA PACKAGE

Lab Name U S TESTING

Case No. 3140

Q.C. Report No.

RECEIVED OCT 0 3 1984

Sample Numbers

EPA No.	Lab ID N	No.	Lab ID No.
ME 3265	76149-1		
ME 3266	2		
ME 3267	3		
ME 3268	4		
ME 3269	5		
ME 3270	6		

Comments:

ICP Interelement and background corrections applied? Yes ✓ No ____.

Footnotes:
NR - not required by contract at this time
C - blank corrected
ND/B - not detected due to blank.
Form I:
Value - If the result is a value greater than or equal to the instrument detection limit but less than the contract required detection limit, report the value in brackets (i.e., [10]). Indicate the analytical method used with P (for ICP/AA) or F (for furnace).
< - Indicates element was analyzed for but not detected. Report with the detection limit value (e.g., <10).

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84MS09570

EPA Sample No.
ME 3265

Date 9/17/84

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

INORGANIC ANALYSIS DATA SHEET

LAB NAME U. S. TESTING CASE NO. 3140

LAB SAMPLE ID. NO. 76149-1 QC REPORT NO. _____

Elements Identified and Measured

Matrix LOW WATER

ug/L or mg/kg (Circle One)

1.	Aluminum	<200	P	13.	Magnesium	NR	
2.	Antimony	<20	F	14.	Manganese	206	P
3.	Arsenic	<10	F	15.	Mercury	<0.2	
4.	Barium	<100	P	16.	Nickel	<40	P
5.	Beryllium	<5	P	17.	Potassium	NR	
6.	Cadmium	<1	F	18.	Selenium	<2	F
7.	Calcium	NR		19.	Silver	<10	P
8.	Chromium	<10	P	20.	Sodium	NR	
9.	Cobalt	<50	P	21.	Thallium	<10	F
10.	Copper	<50	P	22.	Tin	<20	F
11.	Iron	366	P	23.	Vanadium	<200	P
12.	Lead	<5	F	24.	Zinc	104	P
Cyanide		<10		Percent Solids		NR	

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

Lab Manager Frank Buggynski

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84MS09S71

EPA Sample No.

ME 3266

Date 9/17/84

U.S. EPA Contract Laboratory Program
Sample Management Office
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703/557-2490 FTS: 8-557-2490

INORGANIC ANALYSIS DATA SHEET

LAB NAME U. S. TESTING CASE NO. 3140

LAB SAMPLE ID. NO. 76149-2 QC REPORT NO. _____

Elements Identified and Measured

Matrix LOW WATER

ug/L or mg/kg (Circle One)

1.	Aluminum	<200	P	13.	Magnesium	NR	
2.	Antimony	<20	F	14.	Manganese	196	P
3.	Arsenic	<10	F	15.	Mercury	<0.2	
4.	Barium	<100	P	16.	Nickel	<40	P
5.	Beryllium	<5	P	17.	Potassium	NR	
6.	Cadmium	<1	F	18.	Selenium	5.8	F
7.	Calcium	NR		19.	Silver	<10	P
8.	Chromium	<10	P	20.	Sodium	NR	
9.	Cobalt	<50	P	21.	Thallium	<10	F
10.	Copper	<50	P	22.	Tin	<20	F
11.	Iron	281	P	23.	Vanadium	<200	P
12.	Lead	<5	F	24.	Zinc	19	P

Cyanide <10 Percent Solids NR

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

Lab Manager Frank Buggenski

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84MS09572
EPA Sample No.
ME 3267

Date 9/17/84

U.S. EPA Contract Laboratory Program
Sample Management Office
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703/557-2490 FTS: 8-557-2490

INORGANIC ANALYSIS DATA SHEET

LAB NAME U. S. TESTING CASE NO. 3140

LAB SAMPLE ID. NO. 76149-3 QC REPORT NO. _____

Elements Identified and Measured

Matrix LOW WATER

(ug/L) or mg/kg (Circle One)

1.	Aluminum	<200	P	13.	Magnesium	NR	
2.	Antimony	<20	F	14.	Manganese	247	P
3.	Arsenic	<10	F	15.	Mercury	1.8	
4.	Barium	<100	P	16.	Nickel	<40	P
5.	Beryllium	<5	P	17.	Potassium	NR	
6.	Cadmium	<1	F	18.	Selenium	2.0	F
7.	Calcium	NR		19.	Silver	<10	P
8.	Chromium	<10	P	20.	Sodium	NR	
9.	Cobalt	<50	P	21.	Thallium	<10	F
10.	Copper	<50	P	22.	Tin	<20	F
11.	Iron	1080	P	23.	Vanadium	<200	P
12.	Lead	<5	F	24.	Zinc	33	P

Cyanide <10 Percent Solids NR

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

Lab Manager Frank Buggynski

RECEIVED OCT 0 3 1984

84MS09573

EPA Sample No.

ME 3268

Date 9/17/84

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

INORGANIC ANALYSIS DATA SHEET

LAB NAME U. S. TESTING CASE NO. 3140

LAB SAMPLE ID. NO. 76149-4 QC REPORT NO. _____

Elements Identified and Measured

Matrix LOW WATER

ug/L or mg/kg (Circle One)

1.	Aluminum	<200	P	13.	Magnesium	NR	
2.	Antimony	<20	F	14.	Manganese	177	P
3.	Arsenic	13	F	15.	Mercury	<0.2	
4.	Barium	1660	P	16.	Nickel	<40	P
5.	Beryllium	<5	P	17.	Potassium	NR	
6.	Cadmium	<1	F	18.	Selenium	<2	F
7.	Calcium	NR		19.	Silver	<10	P
8.	Chromium	<10	P	20.	Sodium	NR	
9.	Cobalt	<50	P	21.	Thallium	<10	F
10.	Copper	<50	P	22.	Tin	<20	F
11.	Iron	13600	P	23.	Vanadium	<200	P
12.	Lead	<5	F	24.	Zinc	39	P

Cyanide <10 Percent Solids NR

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

Lab Manager Frank Buzzynski

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84M509D72

EPA Sample No.

ME 3269

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

Date 9/17/84

INORGANIC ANALYSIS DATA SHEET

LAB NAME U. S. TESTING CASE NO. 3140

LAB SAMPLE ID. NO. 76149-S QC REPORT NO. _____

Elements Identified and Measured

Matrix LOW WATER

ug/L or mg/kg (Circle One)

1.	Aluminum	<200	P	13.	Magnesium	NR	
2.	Antimony	<20	F	14.	Manganese	253	P
3.	Arsenic	<10	F	15.	Mercury	<0.2	
4.	Barium	<100	P	16.	Nickel	<40	P
5.	Beryllium	<5	P	17.	Potassium	NR	
6.	Cadmium	<1	F	18.	Selenium	7.6	F
7.	Calcium	NR		19.	Silver	<10	P
8.	Chromium	<10	P	20.	Sodium	NR	
9.	Cobalt	<50	P	21.	Thallium	<10	F
10.	Copper	<50	P	22.	Tin	<20	F
11.	Iron	781	P	23.	Vanadium	<200	P
12.	Lead	<5	F	24.	Zinc	18	P

Cyanide <10 Percent Solids NR

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

Lab Manager Frank Buzzynski

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84MS09R12

EPA Sample No.

ME 3270

Date 9/17/84

U.S. EPA Contract Laboratory Program
Sample Management Office
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703/557-2490 FTS: 8-557-2490

INORGANIC ANALYSIS DATA SHEET

LAB NAME U. S. TESTING CASE NO. 3140

LAB SAMPLE ID. NO. 76149-6 QC REPORT NO. _____

Elements Identified and Measured

Matrix LOW WATER

ug/L or mg/kg (Circle One)

1.	Aluminum	<200	P	13.	Magnesium	NR	
2.	Antimony	<20	F	14.	Manganese	<10	P
3.	Arsenic	<10	F	15.	Mercury	<0.2	
4.	Barium	<100	P	16.	Nickel	<40	P
5.	Beryllium	<5	P	17.	Potassium	NR	
6.	Cadmium	<1	F	18.	Selenium	5.8	F
7.	Calcium	NR		19.	Silver	<10	P
8.	Chromium	<10	P	20.	Sodium	NR	
9.	Cobalt	<50	P	21.	Thallium	<10	F
10.	Copper	<50	P	22.	Tin	<20	F
11.	Iron	106	P	23.	Vanadium	<200	P
12.	Lead	<5	F	24.	Zinc	39	P

Cyanide <10 Percent Solids NR

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

Lab Manager Frank Buggynski

ecology and environment, inc.
223 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60606, TEL. 312-663-9415
International Specialists in the Environmental Sciences

Date Received for Review: 10/3/84 Date Review Completed: 10/4/84

To: RON ST. JOHN

From: Cynthia Bachunas

Subject: LOVES PARK (ILLINOIS)
ROS-8303-01D

Sample Description: CASE 3140 - LOW WATER METALS AND CYANIDE

Project Data Status: COMPLETE

FIT Data Review Findings:

- FIELD BLANK ME 3270 CONTAINS 106 ppb IRON 5.8 ppb SELENIUM AND 39 ppb ZINC. PLEASE CONSIDER THIS WHEN REVIEWING YOUR SAMPLE DATA.
- SEE ATTACHED CRL REVIEW COMMENTS

Additional Comments:

recycled paper

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 10/1/84

RECEIVED OCT 03 1984

SUBJECT: Review of Region V CLP Data
Received for Review on 9/20/84

FROM: Curtis Ross, Director Chuck Elly
Central Regional Laboratory

TO: Data User: FIT

We have reviewed the data for the following case(s).

SITE NAME Loves Park SMO Case No. 3140

EPA Data Set No. SF 638 No. of Samples 6 D.U./Activity Numbers Y9051 C48500

CRL No. 84M509570 To 84M509612

SMO Traffic No. ME 3265 To ME 3270

Contract Laboratory: US Testing Hours Required for Review: 4

Following are our findings.

Contractural:

The reagent blank was used for the duplicate and spike referance. It is suggested an actual water collected sample be used for these qualified performances, since they provide information about the sample matrix.

Technical:

The initial calibration and preparation blanks for CN^- are not recorded on the Q.C. sheet. All other CN^- data was transmitted.

10-1-84 LM

( ) Data are acceptable for use.
(X) Data are acceptable for use with qualifications noted above.
( ) Data are preliminary - pending verification by Contractor Laboratory.
( ) Data are unacceptable.

cc: Dr. Alfred Haeberer/Joan Fisk/Gary Ward, EPA Support Services
Ross K. Robeson, EMSL-Las Vegas
Robert Pritchard, CLP/SMO

EPA FORM 1320-4 (REV. 3-76)

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

SF 638

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SEP 10 1984
Date 9/17/84
US EPA CENTRAL REGIONAL LAB
536 S. CLARK STREET
CHICAGO, ILLINOIS 60605

COVER PAGE
INORGANIC ANALYSES DATA PACKAGE

Lab Name U S TESTING

Case No. 3140

Q.C. Report No.

RECEIVED OCT 03 1984

Sample Numbers

EPA No.	Lab ID N	No.	Lab ID No.
ME 3265	76149-1		
ME 3266	2		
ME 3267	3		
ME 3268	4		
ME 3269	5		
ME 3270	6		

Comments:

ICP Interelement and background corrections applied? Yes ✓ No ____.

Footnotes:
NR - not required by contract at this time
C - blank corrected
ND/B - not detected due to blank.
Form I:
Value - If the result is a value greater than or equal to the instrument detection limit but less than the contract required detection limit, report the value in brackets (i.e., [10]). Indicate the analytical method used with P (for ICP/AA) or F (for furnace).
< - Indicates element was analyzed for but not detected. Report with the detection limit value (e.g., <10).

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84MS09570

EPA Sample No.

ME 3265 G-102

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

Date 9/17/84

INORGANIC ANALYSIS DATA SHEET

LAB NAME U. S. TESTING CASE NO. 3140

LAB SAMPLE ID. NO. 76149-1 QC REPORT NO. _____

Elements Identified and Measured

Matrix LOW WATER

ug/L or mg/kg (Circle One)

1.	Aluminum	<200	P	13.	Magnesium	NR	
2.	Antimony	<20	F	14.	Manganese	206	P
3.	Arsenic	<10	F	15.	Mercury	<0.2	
4.	Barium	<100	P	16.	Nickel	<40	P
5.	Beryllium	<5	P	17.	Potassium	NR	
6.	Cadmium	<1	F	18.	Selenium	<2	F
7.	Calcium	NR		19.	Silver	<10	P
8.	Chromium	<10	P	20.	Sodium	NR	
9.	Cobalt	<50	P	21.	Thallium	<10	F
10.	Copper	<50	P	22.	Tin	<20	F
11.	Iron	366	P	23.	Vanadium	<200	P
12.	Lead	<5	F	24.	Zinc	104	P

Cyanide <10 Percent Solids NR

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

Lab Manager Frank Buggynah

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84MS09S71

EPA Sample No.

ME 3266 G-103

Date 9/17/84

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

INORGANIC ANALYSIS DATA SHEET

LAB NAME U. S. TESTING CASE NO. 3140

LAB SAMPLE ID. NO. 76149-2 QC REPORT NO. _____

Elements Identified and Measured

Matrix LOW WATER

ug/L or mg/kg (Circle One)

1.	Aluminum	<200	P	13.	Magnesium	NR	
2.	Antimony	<20	F	14.	Manganese	196	P
3.	Arsenic	<10	F	15.	Mercury	<0.2	
4.	Barium	<100	P	16.	Nickel	<40	P
5.	Beryllium	<5	P	17.	Potassium	NR	
6.	Cadmium	<1	F	18.	Selenium	5.8	F
7.	Calcium	NR		19.	Silver	<10	P
8.	Chromium	<10	P	20.	Sodium	NR	
9.	Cobalt	<50	P	21.	Thallium	<10	F
10.	Copper	<50	P	22.	Tin	<20	F
11.	Iron	281	P	23.	Vanadium	<200	P
12.	Lead	<5	F	24.	Zinc	19	P

Cyanide <10 Percent Solids NR

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

Lab Manager Frank Buzzynski

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84M509572

EPA Sample No.

ME 3267 G-104

Date 9/17/84

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

INORGANIC ANALYSIS DATA SHEET

LAB NAME U. S. TESTING CASE NO. 3140

LAB SAMPLE ID. NO. 76149-3 QC REPORT NO. _____

Elements Identified and Measured

Matrix LOW WATER

ug/L or mg/kg (Circle One)

1.	Aluminum	<200	P	13.	Magnesium	NR	
2.	Antimony	<20	F	14.	Manganese	247	P
3.	Arsenic	<10	F	15.	Mercury	1.8	
4.	Barium	<100	P	16.	Nickel	<40	P
5.	Beryllium	<5	P	17.	Potassium	NR	
6.	Cadmium	<1	F	18.	Selenium	2.0	F
7.	Calcium	NR		19.	Silver	<10	P
8.	Chromium	<10	P	20.	Sodium	NR	
9.	Cobalt	<50	P	21.	Thallium	<10	F
10.	Copper	<50	P	22.	Tin	<20	F
11.	Iron	1080	P	23.	Vanadium	<200	P
12.	Lead	<5	F	24.	Zinc	33	P

Cyanide <10 Percent Solids NR

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

Lab Manager Frank Buggynski

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84MS09573

EPA Sample No.

ME 3268 G-105

Date 9/17/84

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

INORGANIC ANALYSIS DATA SHEET

LAB NAME U. S. TESTING CASE NO. 3140

LAB SAMPLE ID. NO. 76149-4 QC REPORT NO. _____

Elements Identified and Measured

Matrix LOW WATER

ug/L or mg/kg (Circle One)

1.	Aluminum	<200	P	13.	Magnesium	NR	
2.	Antimony	<20	F	14.	Manganese	177	P
3.	Arsenic	13	F	15.	Mercury	<0.2	
4.	Barium	1660	P	16.	Nickel	<40	P
5.	Beryllium	<5	P	17.	Potassium	NR	
6.	Cadmium	<1	F	18.	Selenium	<2	F
7.	Calcium	NR		19.	Silver	<10	P
8.	Chromium	<10	P	20.	Sodium	NR	
9.	Cobalt	<50	P	21.	Thallium	<10	F
10.	Copper	<50	P	22.	Tin	<20	F
11.	Iron	13600	P	23.	Vanadium	<200	P
12.	Lead	<5	F	24.	Zinc	39	P

Cyanide <10 Percent Solids NR

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

Lab Manager Frank Buzzynski

RECEIVED OCT 0 3 1984

84M509D72

EPA Sample No.

ME 3269 G-104

Date 9/17/84

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

INORGANIC ANALYSIS DATA SHEET

LAB NAME U. S. TESTING CASE NO. 3140

LAB SAMPLE ID. NO. 76149-S QC REPORT NO. _____

Elements Identified and Measured

Matrix LOW WATER

ug/L or mg/kg (Circle One)

1.	Aluminum	<200	P	13.	Magnesium	NR	
2.	Antimony	<20	F	14.	Manganese	253	P
3.	Arsenic	<10	F	15.	Mercury	<0.2	
4.	Barium	<100	P	16.	Nickel	<40	P
5.	Beryllium	<5	P	17.	Potassium	NR	
6.	Cadmium	<1	F	18.	Selenium	7.6	F
7.	Calcium	NR		19.	Silver	<10	P
8.	Chromium	<10	P	20.	Sodium	NR	
9.	Cobalt	<50	P	21.	Thallium	<10	F
10.	Copper	<50	P	22.	Tin	<20	F
11.	Iron	781	P	23.	Vanadium	<200	P
12.	Lead	<5	F	24.	Zinc	18	P

Cyanide <10 Percent Solids NR

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

Lab Manager Frank Buzzynski

RECEIVED OCT 0 3 1984

84MS09R12

EPA Sample No.

ME 3270 Blank

Date 9/17/84

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

INORGANIC ANALYSIS DATA SHEET

LAB NAME U. S. TESTING CASE NO. 3140

LAB SAMPLE ID. NO. 76149-6 QC REPORT NO. _____

Elements Identified and Measured

Matrix Low water

ug/L or mg/kg (Circle One)

1.	Aluminum	<200	P	13.	Magnesium	NR	
2.	Antimony	<20	F	14.	Manganese	<10	P
3.	Arsenic	<10	F	15.	Mercury	<0.2	
4.	Barium	<100	P	16.	Nickel	<40	P
5.	Beryllium	<5	P	17.	Potassium	NR	
6.	Cadmium	<1	F	18.	Selenium	5.8	F
7.	Calcium	NR		19.	Silver	<10	P
8.	Chromium	<10	P	20.	Sodium	NR	
9.	Cobalt	<50	P	21.	Thallium	<10	F
10.	Copper	<50	P	22.	Tin	<20	F
11.	Iron	106	P	23.	Vanadium	<200	P
12.	Lead	<5	F	24.	Zinc	39	P

Cyanide <10 Percent Solids NR

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: _____

Lab Manager Frank Buggynski

I62

USEPA-SAMPLE MANAGEMENT OFFICE
PO BOX 818 ALEXANDRIA,VA 22313

84MS09R12

SAMPLE NO.
E8332 Blank

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ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME PEDCO ENV.
LAB SAMPLE ID NO DR961
SAMPLE MATRIX WATER
DATA RELEASE AUTHORIZED A9

CASE NO: 3140
QC REPORT NO.
CONTRACT NO. 68-01-6779
DATE SAMPLE RECEIVED 8/16/84

VOLATILES

CONCENTRATION LOW
DATE PREPARED 8/17/84
DATE ANALYZED 8/17/84
PER CENT MOISTURE N/A
CONCENTRATION/DIL. FACTOR-----5ML

PP#	CAS#		UG/L
(2V)	107-02-8	ACROLEIN	100U
(3V)	107-13-1	ACRYLONITRILE	100U
(4V)	71-43-2	BENZENE	5U
(6V)	56-23-2	CARBON TETRACHLORIDE	5U
(7V)	108-90-7	CLOROBENZENE	5U
(10V)	107-06-2	1,2-DICHLOROETHANE	5U
(11V)	71-55-6	1,1,1-TRICHLOROETHANE	5U
(13V)	75-34-3	1,1-DICHLOROETHANE	5U
(14V)	79-00-5	1,1,2-TRICHLOROETHANE	5U
(15V)	79-34-5	1,1,2,2-TETRACHLOROETHANE	10U
(16V)	75-00-3	CHLOROETHANE	10U
(19V)	110-75-8	2-CHLOROETHYLVINYLETHER	10U
(23V)	67-66-3	CHLOROFORM	5U
(29V)	75-35-4	1,1-DICHLOROETHENE	5U
(30V)	156-60-5	TRANS-1,2-DICHLOROETHENE	5U
(32V)	78-87-5	1,2-DICHLOROPROPANE	10U
(33V)	10061-02-6	TRANS-1,3-DICHLOROPROPENE	5U
	10061-01-05	CIS-1,3-DICHLOROPROPENE	5U
(38V)	100-41-4	ETHYLBENZENE	5U
(44V)	75-09-2	METHYLENE CHLORIDE	5UC
(45V)	74-87-3	CHLOROMETHANE	10U
(46V)	74-83-9	BROMOMETHANE	10U
(47V)	75-25-2	BROMOFORM	10U
(48V)	75-27-4	BROMODICHLOROMETHANE	5U
(49V)	75-69-4	FLUOROTRICHLOROMETHANE	5U
(50V)	75-71-8	DICHLORODIFLUOROMETHANE	NA
(51V)	124-48-1	CHLORODIBROMOMETHANE	5U
(85V)	127-18-4	TETRACHLOROETHENE	5U
(86V)	108-88-3	TOLUENE	5U
(87V)	79-01-6	TRICHLOROETHENE	5U
(88V)	75-01-4	VINYL CHLORIDE	10U
	67-64-1	ACETONE	7.5
	78-93-3	2-BUTANONE	5U
	75-15-0	CARBON DISULFIDE	1U
	519-78-6	2-HEXANONE	5U
	108-10-1	4-METHYL-2-PENTANONE	5U
	100-42-5	STYRENE	5U
	108-05-4	VINYL ACETATE	5U
	1330-20-7	TOTAL XYLENES	5U

PESTICIDES

CONCENTRATION LOW
DATE EXTRACTED 8/16/84
DATE ANALYZED 9/5/84
PERCENT MOISTURE N/A
CONCENTRATION/DIL. FACTOR-----10

PP#	CAS#		UG/L
(89P)	309-00-2	ALDRIN	.005U
(90P)	60-57-1	DIELDRIN	.005U
(91P)	57-74-9	CHLORDANE	.05U
(92P)	50-29-3	4,4'DDT	.01U
(93P)	72-55-9	4,4'DDE	.005U
(94P)	72-54-8	4,4'DDD	.1U
(95P)	115-29-7	ALPHA-ENDOSULFAN	.005U
(96P)	115-29-7	BETA-ENDOSULFAN	.005U
(97P)	1031-07-8	ENDOSULFAN SULFATE	.01U
(98P)	72-20-8	ENDRIN	.005U
(99P)	7421-93-4	ENDRIN ALDEHYDE	.01U
(100P)	76-44-8	HEPTACHLOR	.005U
(101P)	1024-57-3	HEPTACHLOR EPOXIDE	.005U
(102P)	319-84-6	ALPHA-BHC	.005U
(103P)	319-85-7	BETA-BHC	.005U
(104P)	319-86-8	DELTA-BHC	.005U
(105P)	58-89-9	GAMMA-BHC (LINDANE)	.005U
106P	53469-21-9	PCB-1242	.05U
107P	11097-69-1	PCB-1254	.1U
108P	11104-28-2	PCB-1221	.1U
109P	11141-16-5	PCB-1232	.05U
110P	12672-29-6	PCB-1248	.1U
111P	11096-82-5	PCB-1260	.1U
112P	12674-11-2	PCB-1016	.2U
113P	8001-35-2	TOXAPHENE	.05U

003162

USEPA-SAMPLE MANAGEMENT OFFICE
PO BOX 818 ALEXANDRIA,VA 22313

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SAMPLE NO.
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ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME PEDCO ENV.
LAB SAMPLE ID NO. DR961
SAMPLE MATRIX WATER
DATA RELEASE AUTHORIZED

CASE NO: 3140
QC REPORT NO.
CONTRACT NO. 68-01-6779
DATE SAMPLE RECEIVED 8/16/84

SEMIVOLATILE COMPOUNDS

CONCENTRATION LOW
DATE EXTRACTED 8/16/84
DATE ANALYZED 9/11/84
PER CENT MOISTURE N/A
CONCENTRATION/DIL. FACTOR-----500

00163

PP#	CAS#		UG/L
(21A)	88-06-2	2,4,6-TRICHLOROPHENOL	10U
(22A)	59-50-7	P-CHLORO-M-CRESOL	10U
(24A)	95-57-8	2-CHLOROPHENOL	10U
(31A)	120-83-2	2,4-DICHLOROPHENOL	10U
(34A)	105-67-9	2,4-DIMETHYLPHENOL	10U
(57A)	88-75-5	2-NITROPHENOL	20U
(58A)	100-02-7	4-NITROPHENOL	50U
(59A)	51-28-5	2,4-DINITROPHENOL	50U
(60A)	534-52-1	4,6-DINITRO-O-CRESOL	20U
(64A)	87-86-5	PENTACHLOROPHENOL	10U
(65A)	108-95-2	PHENOL	10U
	65-85-0	BENZOIC ACID	100U
	95-48-7	2-METHYLPHENOL	5U
	108-39-4	4-METHYLPHENOL	5U
	95-95-4	2,4,5-TRICHLOROPHENOL	100U
(1B)	83-32-9	ACENAPTHENE	10U
(5B)	92-87-5	BENZIDINE	40U
(8B)	120-82-1	1,2,4-TRICHLOROBENZENE	10U
(9B)	118-74-1	HEXACHLOROBENZENE	10U
(12B)	67-72-1	HEXACHLOROETHANE	10U
(18B)	111-44-4	BIS(2-CHLOROETHYL)ETHER	10U
(20B)	91-58-7	2-CHLORONAPTHALENE	10U
(25B)	95-50-1	1,2-DICHLOROBENZENE	10U
(26B)	541-73-1	1,3-DICHLOROBENZENE	10U
(27B)	106-46-7	1,4-DICHLOROBENZENE	10U
(28B)	91-94-1	3,3'-DICHLOROBENZIDINE	20U
(35B)	121-14-2	2,4-DINITROTOLUENE	20U
(36B)	606-20-2	2,6-DINITROTOLUENE	20U
(37B)	122-66-7	1,2-DIPHENYLHYDRAZINE	20U
(39B)	206-44-0	FLUORANTHENE	10U
(40B)	7005-72-3	4-CHLOROPHENYLPHENYLETHER	10U
(41B)	101-55-3	4-BROMPHENYLPHENYLETHER	10U
(42B)	39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	20U
(43B)	111-91-1	BIS(2-CHLORETHOXY)METHANE	20U
(52B)	87-68-3	HEXACHLOROBUTADIENE	10U
(53B)	77-47-4	HEXACHLOROCYCLOPENTADIENE	10U
(54B)	78-59-1	ISOPHORONE	10U
(55B)	91-20-3	NAPTHALENE	10U
(56B)	98-95-3	NITROBENZENE	10U
(62B)	86-30-6	N-NITROSODIPHENYLAMINE	10U
(63B)	621-64-7	N-NITROSODIPROPYLAMINE	10U
(66B)	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	10U
(67B)	85-68-7	BENZYLBUTYL PHTHALATE	10U
(68B)	84-74-2	DI-N-BUTYL PHTHALATE	10U
(69B)	117-84-0	DI-N-OCTYL PHTHALATE	10U
(70B)	84-66-2	DIETHYL PHTHALATE	10U
(71B)	131-11-3	DIMETHYL PHTHALATE	10U
(72B)	56-55-3	BENZO(A)ANTHRACENE	10U
(73B)	50-32-8	BENZO(A)PYRENE	20U
(74B)	205-99-2	BENZO(B)FLUORANTHENE AND/	20U
(75B)	207-08-9	BENZO(K)FLUORANTHENE OR	20U
(76B)	218-01-9	CHRYSENE	20U
(77B)	208-96-8	ACENAPTHYLENE	10U
(78B)	120-12-7	ANTHRACENE	10U
(79B)	191-24-2	BENZO(GHI)PERYLENE	20U
(80B)	86-73-7	FLUORENE	10U
(81B)	85-01-8	PHENANTHRENE	10U
(82B)	53-70-3	DIBENZO(AH)ANTHRACENE	20U
(83B)	193-39-5	INDENO(123-CD)PYRENE	20U
(84B)	129-00-0	PYRENE	10U
	62-53-3	ANILINE	5U
	100-51-6	BENZYL ALCOHOL	20U
	106-47-8	4-CHLOROANILINE	50U
	132-64-9	DIBENZOFURAN	10U
	91-57-6	2-METHYLNAPTHALENE	20U
	88-74-4	2-NITROANILINE	100U
	99-09-2	3-NITROANILINE	100U
	100-01-6	4-NITROANILINE	100U

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ORGANICS ANALYSIS DATA SHEET - Page 3

Sample Number: EF332

Laboratory Name: PEDCO ENVIRONMENTAL Case No: 3140

QC Report No:

B. Tentatively Identified Compounds

	CAS #	Compound Name	Fraction	Scan No. or Retention Time	% Maximum Score Attained Mass Matching Routine: (Specify: Perkin)	Estimated Concentration (ug/L or ug/kg)
1.		NONE	VOA			
2.						
3.		UNKNOWN	BNA	1655		10
4.						
5.						
6.						
7.						
8.						
9.						
10.						
11.						
12.						
13.						
14.						
15.						
16.						
17.						
18.						
19.						
20.						
21.						
22.						
23.						
24.						
25.						
26.						
27.						
28.						
29.						
30.						

Site Name / SDDI: LOVES PARK [illegible] / ROS-8DS-01D

Case Number : 3140

Sampling Date: 8-15-84

Sampling Time: 9:30

Sample/Station Location: W-2 / G-102

Organic Traffic Number E 8327

Inorganic Traffic Number ME 3265

High Hazard Traffic Number E

Physical Description

At time of collection: Low CONC. Ground water

Physical Changes (if any)

From time of collection until shipment: NaOH added to Cyanide
metals filtered .45 ug HNO3 added to metals

Instrument Readings (i.e. - pH, conductivity...): pH~2 metals
pH~12 Cyanide

Sampling Date: 8-15-84

Sampling Time: 9:30

Sample/Station Location: W-3 / G-103

Organic Traffic Number E 8328

Inorganic Traffic Number ME 3266

High Hazard Traffic Number E:

Physical Description

At time of collection: Low Conc. Ground water

Physical Changes (if any)

From time of collection until shipment: NaOH added to Cyanide
metals filtered .45 ug HNO3 added to metals

Instrument Readings (i.e. - ph, conductivity...): pH~2 metals
pH~12 cyanide

Site Name / Spot: Loves Park / ROS-8303-01D

Case Number : 3140

Sampling Date: 8-15-84

Sampling Time: ~~[illegible]~~ " 10:00

Sample/Station Location: W-4 / G-104

Organic Traffic Number E 8329

Inorganic Traffic Number ME 3267

High Hazard Traffic Number E

Physical Description

At time of collection: Low Conc. Ground water

Physical Changes (if any)

From time of collection until shipment: NaOH added to Cyanide
HNO3 added to metals metals filt 45 ug

Instrument Readings (i.e. - pH, conductivity...): PH-2 metals
PH-12 Cyanide

Sampling Date: 8-15-84

Sampling Time: 10:00

Sample/Station Location: W-5 / G-105

Organic Traffic Number E 8330

Inorganic Traffic Number ME 3268

High Hazard Traffic Number E

Physical Description

At time of collection: Low Conc. Ground water

Physical Changes (if any)

From time of collection until shipment: NaOH added to Cyanide
Metals filtered 45 ug HNO3 added to metals

Instrument Readings (i.e. - ph, conductivity...): PH-2 metals
PH-12 cyanide

Site Name / Unit: LOVES PARK / ROS-8303-010

Site Number: 3140

Sampling Date: ~~[illegible]~~ 8-15-84

Sampling Time: ~~W-4/6-104~~ 10:00

Sample/Station Location: W-4/6-104

Organic Traffic Number E 8331

Inorganic Traffic Number ME 3269

High Hazard Traffic Number E

Physical Description

At time of collection: Low Conc. Ground water

Physical Changes (if any)

From time of collection until shipment: NaOH added to Cyanide metals filtered .45 ug HNO3 added to metals

Instrument Readings (i.e. - pH, conductivity...): pH<2 metals pH>12 Cyanide

Sampling Date: 8-15-84

Sampling Time: 11:00

Sample/Station Location: BLANK/BLANK

Organic Traffic Number E 8332

Inorganic Traffic Number ME 3270

High Hazard Traffic Number E

Physical Description

At time of collection: DISTILLED WATER

Physical Changes (if any)

From time of collection until shipment: NaOH added to Cyanide metals filtered .45 ug HNO3 added to metals

Instrument Readings (i.e. - ph, conductivity...): pH<2 metals pH>12 Cyanide