ARROW
GEAR
COMPANY

2301 Curtiss Street Downers Grove, Illinois 60515 708-969-7640 Fax: 708-969-0253

171066

Melissa McDaniel
Litchfield - Hillsboro Landfill
East Route 16, Box 97
Litchfield, IL 62056

January 14, 1994

Dear Melissa :

Enclosed is the analytical report on the oil-dry mixture that your company hauls out for us. From speaking with you on the phone I understand that this is what you need to renew the disposal permit. I also understand that the landfill site will not accept our oil-dry mixture waste unless the permit has been renewed. Please take any necessary action for this renewal and let me know after you receive this letter if we need to supply you with any other paper work. The current permit, as you know, expires on the 12th of April, 1994. If you have any question please call me after 2:00pm at (708) 969 - 7640.

Thank-you

Sincerely,

Atif A. Odeh
Environmental Co-ordinator

NET® NATIONAL ENVIRONMENTAL TESTING, INC.

Bartlett Division
850 W. Bartlett Rd.
Bartlett, IL 60103
Tel: (708) 289-3100
Fax: (708) 289-5445

ANALYTICAL REPORT

Mr. Atif A. Odeh
ARROW GEAR
2301 Curtiss St.
Downers Grove, IL 60515

01/11/1994

Sample No. : 244790

NET Job No.: 93.11382

Sample Description: Oil Dry Sample
Waste Characterization

Date Taken:
Time Taken:
Date Sample Picked Up: 12/20/1993
IEPA Cert. No. 100221

Date Received: 12/20/1993
Time Received: 10:20

WDNR Cert. No. 999447130

Parameter	Results	Flags	Units	Date of Analysis	Analytical Method
Flashpoint	>200		Degree F	12/28/1993	1010 (1)
Cyanide, Reactive	<0.25		ug/g	01/04/1994	7.3 (1)
Paint Filter Test	Pass			12/28/1993	9095 (1)
pH, Non aqueous	7.83		units	12/28/1993	9040 (1)
Phenol, colorimetric	0.91		ug/g	01/04/1994	9065 (1)
Sulfide, Reactive	<2.5		ug/g	01/04/1994	9030 (1)
TCLP-Arsenic, ICP	<0.20		mg/L	12/30/1993	6010 (1)
TCLP-Barium, ICP	0.746		mg/L	12/30/1993	6010 (1)
TCLP-Cadmium, ICP	0.013		mg/L	12/30/1993	6010 (1)
TCLP-Chromium,ICP	<0.040		mg/L	12/30/1993	6010 (1)
TCLP-Lead, ICP	0.437		mg/L	12/30/1993	6010 (1)
TCLP-Mercury, CVAA	<0.0004		mg/L	12/29/1993	7470 (1)
TCLP-Selenium, ICP	<0.10		mg/L	12/30/1993	6010 (1)
TCLP-Silver, AA	<0.040		mg/L	12/29/1993	7760 (1)
TCLP-PESTICIDES-8080					
TCLP-gamma-BHC (Lindane)	<0.0005		mg/L	12/30/1993	8080 (1)
TCLP-Chlordane	<0.005		mg/L	12/30/1993	8080 (1)
TCLP-Endrin	<0.001		mg/L	12/30/1993	8080 (1)
TCLP-Heptachlor	<0.0005		mg/L	12/30/1993	8080 (1)
TCLP-Heptachlor epoxide	<0.0005		mg/L	12/30/1993	8080 (1)
TCLP-Methoxychlor	<0.005		mg/L	12/30/1993	8080 (1)
TCLP-Toxaphene	<0.005		mg/L	12/30/1993	8080 (1)
TCLP-HERBICIDES					
TCLP-2,4-D	<0.02		mg/L	12/29/1993	8150 (1)
TCLP-2,4,5-TP	<0.02		mg/L	12/29/1993	8150 (1)

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Mr. Atif A. Odeh
ARROW GEAR
2301 Curtiss St.
Downers Grove, IL 60515

01/11/1994

Sample No. : 244790

NET Job No.: 93.11382

Sample Description: Oil Dry Sample
Waste Characterization

Date Taken:
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Date Sample Picked Up: 12/20/1993
IEPA Cert. No. 100221

Date Received: 12/20/1993
Time Received: 10:20

WDNR Cert. No. 999447130

Parameter	Results	Flags	Units	Date of Analysis	Analytical Method
TCLP-ACID COMPOUNDS - 8270					
TCLP-Cresols, Total	<0.10		mg/L	01/05/1994	8270 (1)
TCLP-3-Methylphenol (m-cresol)	<0.10		mg/L	01/05/1994	8270 (1)
TCLP-2-Methylphenol (o-Cresol)	<0.10		mg/L	01/05/1994	8270 (1)
TCLP-4-Methylphenol (p-Cresol)	<0.10		mg/L	01/05/1994	8270 (1)
TCLP-Pentachlorophenol	<0.50		mg/L	01/05/1994	8270 (1)
TCLP-2,4,5-Trichlorophenol	<0.50		mg/L	01/05/1994	8270 (1)
TCLP-2,4,6-Trichlorophenol	<0.10		mg/L	01/05/1994	8270 (1)
TCLP-VOLATILES-8240					
TCLP-Benzene	<0.020		mg/L	12/30/1993	8240 (1)
TCLP-Carbon Tetrachloride	<0.020		mg/L	12/30/1993	8240 (1)
TCLP-Chlorobenzene	<0.020		mg/L	12/30/1993	8240 (1)
TCLP-Chloroform	<0.020		mg/L	12/30/1993	8240 (1)
TCLP-1,4-Dichlorobenzene	<0.020		mg/L	12/30/1993	8240 (1)
TCLP-1,2-Dichloroethane	<0.020		mg/L	12/30/1993	8240 (1)
TCLP-1,1-Dichloroethene	<0.020		mg/L	12/30/1993	8240 (1)
TCLP-Methyl Ethyl Ketone	14.4		mg/L	12/30/1993	8240 (1)
TCLP-Tetrachloroethene	<0.020		mg/L	12/30/1993	8240 (1)
TCLP-Trichloroethene	<0.020		mg/L	12/30/1993	8240 (1)
TCLP-Vinyl Chloride	<0.160		mg/L	12/30/1993	8240 (1)
TCLP BASE NEUTRAL COMPOUNDS					
TCLP-1,4-Dichlorobenzene	<0.10		mg/L	01/05/1994	8270
TCLP-Hexachloroethane	<0.10		mg/L	01/05/1994	8270 (1)
TCLP-Nitrobenzene	<0.10		mg/L	01/05/1994	8270 (1)
TCLP-Hexachlorobutadiene	<0.10		mg/L	01/05/1994	8270 (1)
TCLP-2,4-Dinitrotoluene	<0.10		mg/L	01/05/1994	8270 (1)
TCLP-Hexachlorobenzene	<0.10		mg/L	01/05/1994	8270 (1)
TCLP-Pyridine	<0.10		mg/L	01/05/1994	8270 (1)

ENVOTECH - ILLINOIS, INC.

LITCHFIELD-HILLSBORO LANDFILL
East Route 16 • Box 97 • Litchfield, IL 62056
Phone 217 • 324-2811

DATE: 12/16/93

TO: Atif Odeh FAX #: 1-708-969-0253

FROM: Melissa McDaniel

Enclosed are 3 pages, including the cover page. If you experience any problems with this transmittal, please contact me at the above number. My fax number is (217) 324-2822.

Printed on Recycled Paper

NATIONAL ENVIRONMENTAL TESTING, INC.

NET Midwest, Inc.
Bartlett Division
850 West Bartlett Road
Bartlett, IL 60103

Tel: (708) 289-3100
Fax: (708) 289-5445

FAX TRANSMISSION NOTICE

Date: 1/3/~~93~~ 94

To:

Company: Arrow Gear FAX NO: 969-0253

Sender: Susan Cansfield

You should receive 2 pages, including this notice. If you don't receive all pages, please call the sender immediately. This transmission includes:

- ____ letter/memo
- ____ other
- ____ project notes (Project ID: _____)
- ____ analytical report(s):
- ____ Sample No(s): _____

Comments: Please fill out attached Chain of Custody for the Oil Dry Sample we received 12/20.

Thank you!

Susan

TCLP VOA
undiluted
mult = 10x

QUANT REPORT

Operator ID: CARRIE Quant Rev: 6 Quant Time: 931230 17:10
Output File: ^A8911::QT Injected at: 931230 16:40
Data File: >A8911::D3 Dilution Factor: 1.00000
Name: BT#244790RE ARROW GE
Misc: ARROW GEAR TCLP 250uL 20X 5uL20700/5ML PURGED

ID File: A1824W::F4
Title: EPA Method 8240, Multi-Point Calibration, HP-5970, 7001A
Last Calibration: 931230 10:35

	Compound	R.T.	Q ion	Area	Conc	Units
1)	*Bromochloromethane	8.43	128.0	49582	50.00	ug/L
11)	Acetone	4.20	43.0	32967	170.03	ug/L M
12)	1,1,2-Trichlorotrifluoroethane	4.15	101.0	1942	.75	ug/L
15)	Methylene chloride	5.22	84.0	1736	1.56	ug/L M
19)	2-Butanone	7.53	72.0	4096M	72.30	ug/L 14.4
21)	Chloroform	8.16	83.0	2510	.78	ug/L
23)	1,2-Dichloroethane-d4	9.57	65.0	87547	49.83	ug/L
25)	*1,4-Difluorobenzene	10.47	114.0	214721	50.00	ug/L
39)	*Chlorobenzene-d5	16.77	117.0	168853	50.00	ug/L
40)	4-Methyl-2-pentanone	12.76	43.0	2835	2.41	ug/L M
41)	Toluene-d8	13.60	98.0	196118	50.62	ug/L
42)	Toluene	13.74	92.0	1445	.64	ug/L
47)	m&p-Xylene	17.19	106.0	1347	.74	ug/L
51)	Bromofluorobenzene	19.44	95.0	132367	52.62	ug/L
55)	Naphthalene	27.33	128.0	53684	19.24	ug/L M

* Compound is ISTD

72.30 mg/L × 20 = 1446 mg/L ⇒ 10x dilu
14,460 mg/L

NET Midwest, Bartlett Division

KEY TO ABBREVIATIONS and METHOD REFERENCES

<	:	Less than; When appearing in the results column indicates the analyte was not detected at or above the reported value.
mg/L	:	Concentration in units of milligrams of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per million (ppm).
ug/g	:	Concentration in units of micrograms of analyte per gram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per million (ppm) or mg/Kg.
ug/L	:	Concentration in units of micrograms of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per billion (ppb).
ug/Kg	:	Concentration in units of micrograms of analyte per kilogram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per billion (ppb).
B	:	Sample result flag indicating that the analyte was also found in the method blank analysis. The value after the B indicates the concentration found in the blank analysis.
E	:	Sample result flag indicating that the reported concentration exceeds the linear range of the instrument for that specific analysis and should be considered estimated.
TCLP	:	These initials appearing in front of an analyte name indicate that the Toxicity Characteristic Leaching Procedure (TCLP) was performed for this test.
%	:	Percent; To convert ppm to %, divide the result by 10,000. To convert % to ppm, multiply the result by 10,000.
Dry Weight	:	When indicated, the results are reported on a dry weight basis. The contribution of the moisture content in the sample is subtracted when calculating the concentration of the analyte.
ICP	:	Indicates analysis was performed using Inductively Coupled Plasma Spectroscopy.
AA	:	Indicates analysis was performed using Atomic Absorption Spectroscopy.
GFAA	:	Indicates analysis was performed using Graphite Furnace Atomic Absorption Spectroscopy.
PQL	:	Practical Quantitation Limit; the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

Method References

(1) Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986.

(2) ASTM "American Society for Testing Materials

(3) Methods 100 through 499: see "Methods for Chemical Analysis of Water and Wastes", USEPA, 600/4-79-020, Rev. 1983.

(4) See "Standard Methods for the Examination of Water and Wastewater", 17th Ed, APHA, 1989.

(5) Methods 600 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants", USEPA Federal Register Vol. 49 No. 209, October 1984.

(6) Methods 500 through 599: see "Methods for the Determination of Organic Compounds in Drinking Water," USEPA 600/4-88/039, Rev. 1988.

NET NATIONAL ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY RECORD

COMPANY: Arrow Gear Co.
ADDRESS: 2301 Curtiss St. / Downers Grove, IL 60515
PHONE: 708-969-7640 FAX: 708-969-0253
PROJECT NAME/LOCATION:
PROJECT NUMBER:
PROJECT MANAGER: Atif Odeh

REPORT TO:
INVOICE TO:
P.O. NO.
NET QUOTE NO.

SAMPLED BY (PRINT NAME): Atif A. Odeh
SIGNATURE:
(PRINT NAME)
SIGNATURE

[redacted]																							COMMENTS
											Arsenic mg/L	Barium mg/L	Cadmium mg/L	Chromium	Lead	Mercury	Selenium	Silver	Endrin	Lindane			
12-15-93	2:00PM	Oil Dry CLAY used mixture "WASTE"									5	100	1	5	5	0.2	0.4	10	0.5	10			Other Metals and chemicals to check "see attached"

CONDITION OF SAMPLE: BOTTLES INTACT? YES / NO
FIELD FILTERED? YES / NO
COC SEALS PRESENT AND INTACT? YES / NO
VOLATILES FREE OF HEADSPACE? YES / NO
TEMPERATURE UPON RECEIPT:

SAMPLE REMAINDER DISPOSAL: RETURN SAMPLE REMAINDER TO CLIENT VIA
I REQUEST NET TO DISPOSE OF ALL SAMPLE REMAINDERS
DATE 1/4/94

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	RELINQUISHED BY:	DATE/TIME	RECEIVED FOR NET BY:

METHOD OF SHIPMENT: Fax

REMARKS: Please See Attached for Analyses parameters

01/03/94 15:14 ☎708 289 5445 NET BARTLETT DIV 002/002

ARROW GEAR COMPANY

DATE: 1-4-94

FAX COVER FORM

Please deliver the following to:

NAME: Susan

FIRM: NET

TELECOPIER# 708-289-5445

FROM:

Sender's Name: Atif Odeh

We are transmitting 4 pages, which includes this form.

Our Fax Number is: (708) 969-0253
Our Phone Number is: (708) 969-7640

2301 Curtiss Street, Downers Grove, IL 60515

Susan:

IF you need any other information let me know!
See attached parameter for Testing.

Atif

1-4-94

NET NATIONAL ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY RECORD

COMPANY Arrow Gear Co.
ADDRESS 2301 Curtiss St. / Downers Grove, IL 60515
PHONE 708-969-7640 FAX 708-969-0253
PROJECT NAME/LOCATION
PROJECT NUMBER
PROJECT MANAGER Atif Odeh

REPORT TO:
INVOICE TO:
P.O. NO.
NET QUOTE NO.

SAMPLED BY Atif A. Odeh (PRINT NAME) SIGNATURE
(PRINT NAME) SIGNATURE

DATE	TIME	SAMPLE DESCRIPTION	GRAB	COMP	NO. OF CONTAINERS	MATRIX	PRESERVATIVE	Arsenic mg/L	Barium mg/L	Cadmium mg/L	Chromium	Lead	Mercury	Selenium	Silver	Endrin	Lindane	COMMENTS
12-15-93	2:00PM	Oil Dry CLAY used mixture "WASTE"			1			5	100	1	5	5	0.2	0.4	10	0.5	10	Other Metals and chemicals to check "see attached"

CONDITION OF SAMPLE: BOTTLES INTACT? YES / NO FIELD FILTERED? YES / NO COC SEALS PRESENT AND INTACT? YES / NO VOLATILES FREE OF HEADSPACE? YES / NO TEMPERATURE UPON RECEIPT:

SAMPLE REMAINDER DISPOSAL: RETURN SAMPLE REMAINDER TO CLIENT VIA
I REQUEST NET TO DISPOSE OF ALL SAMPLE REMAINDERS DATE 1/4/94

RELINQUISHED BY	DATE/TIME	RECEIVED BY:	RELINQUISHED BY:	DATE/TIME	RECEIVED FOR NET BY:

METHOD OF SHIPMENT Fax

REMARKS: Please See Attached for Analyses parameters

The lab analyses must be conducted to determine the concentrations of the following parameters.

Paint Filter Test
Flash point
Sulfide (reactive) (1)
Cyanide (reactive) (1)
Phenol (total) (2)
pH

Toxicity Characteristic Constituents
and Regulatory Levels

USEPA HW Number	Constituent	CAS Number	Regulatory Level (mg/l)
D004	Arsenic	7440-38-2	5.0
D005	Barium	7440-39-3	100.0
D006	Cadmium	7440-43-9	1.0
D007	Chromium	7440-47-3	5.0
D008	Lead	7439-92-1	5.0
D009	Mercury	7439-97-6	0.2
D010	Selenium	7782-49-2	1.0
D011	Silver	7440-22-4	5.0
D012	Endrin	72-20-8	0.02
D013	Lindane	58-89-9	0.4
D014	Methoxychlor	72-43-5	10.0
D015	Toxaphene	8001-35-2	0.5
D016	2,4-D	94-75-7	10.0
D017	2,4,5-TP Silvex)	93-72-1	1.0
D018	Benzene	71-43-2	0.5
D019	Carbon Tetrachloride	56-23-5	0.5
D020	Chlordane	57-74-9	0.03
D021	Chlorobenzene	108-90-7	100.0
D022	Chloroform	67-66-3	6.0
D023	o-Cresol	95-48-7	200.0
D024	m-Cresol	108-39-4	200.0
D025	p-Cresol	106-44-5	200.0
D026	Cresol		200.0*
D027	1,4-Dichlorobenzene	106-46-7	7.5
D028	1,2-Dichloroethane	107-06-2	0.5
D029	1,1-Dichloroethylene	75-35-4	0.7
D030	2,4-Dinitrotoluene	121-14-2	0.13
D031	Heptachlor (and its Epoxide)	76-44-8	0.008
D032	Hexachlorobenzene	118-74-1	0.13
D033	Hexachloro-1,3-butadiene	87-68-3	0.5
D034	Hexachloroethane	67-72-1	3.0
D035	Methyl Ethyl Ketone	78-93-3	200.0
D036	Nitrobenzene	98-95-3	2.0
D037	Pentachlorophenol	87-86-5	100.0

USEPA HW Number	Constituent	CAS Number	Regulatory Level (mg/l)
D038	Pyridine	110-86-1	5.0
D039	Tetrachloroethylene	127-18-4	0.7
D040	Trichloroethylene	79-01-6	0.5
D041	2,4,5-Trichlorophenol	95-95-4	400.0
D042	2,4,6-Trichlorophenol	88-06-2	2.0
D043	Vinyl Chloride	75-01-4	0.2

*If o-, m-, and p-cresol concentrations cannot be differentiated, the total cresol concentration (D026) is used. The regulatory level for total cresol is 200 mg/l.

For any waste streams containing a liquid phase(s) (fails paint filter), each phase must be analyzed for total organic halogen (TOX) using the test method specified in Part 729 of Subtitle G. Any waste containing 10,000 PPM or greater of TOX must be analyzed to determine the specific constituents, and their concentrations, that make up TOX. Any liquid containing multiple phases must include individual analyses for each phase. These constituents and their concentration should be reported in a blank space on the lab analysis portion of the application form (unless the constituent is already on the form).

Hazardous wastes subject to the Land Disposal Restrictions must be analyzed for the specific compounds identified in 40 CFR 268 and 35 IAC 728 in accordance with the test methods described in SW-846.

NOTES

1. Analysis for total sulfide and/or cyanide may be substituted for reactive concentrations if they are equal to or less than 10 ppm. For wastes containing greater than 10 ppm reactive cyanide or reactive sulfide the generator will be required to provide a signed and dated statement indicating that none of the following have occurred:

   a. The waste has never caused injury to a worker because of H_2S and/or HCN generation;

   b. That the OSHA work place air concentration limits for H_2S and/or HCN have not been exceeded in areas where the waste is generated stored or otherwise handled; or

   c. That air concentrations of H_2S and/or HCN, above 10 ppm, have not been encountered in areas where the waste is generated, storage or otherwise handled.

   d. For waste containing 250 ppm or greater reactive cyanide or 500 ppm or greater reactive sulfide it is presumed hazardous pursuant to 35 Ill. Adm. Code 721.123(a)(5) unless specific information to show it does not a present danger to human health or the environment can be provided.