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Report . HW . 932102 . 1995 - 02 - 13 . Air Permit . pdf

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example: *letter . Year-Month . File Year-Year . pdf*

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example: *report . Site Number . Year-Month . Report Name . pdf*

Project Site numbers will be proceeded by the following:

Municipal Brownfields - B
Superfund - HW
Spills - SP
ERP - E
VCP - V
BCP - C

McLaren Hart®
ENVIRONMENTAL ENGINEERING CORPORATION

Dosier MFM

February 9, 1995

ADVANCE COPY VIA FAX

Ms. Jacqueline DiPronio
New York State Department of Environmental Conservation
Region 9 Division of Air
270 Michigan Avenue
Buffalo, NY 14203-2999

SUBJECT: SAMPLING AND ANALYSIS PROCEDURE - SUMMARY OF RESULTS

Dear Ms. DiPronio:

The following summary of results has been prepared by McLaren/Hart Environmental Engineering Corporation (McLaren/Hart) on behalf of The Carborundum Company (Carborundum) and BP Oil Company (BP Oil) to fulfill the reporting requirements of the Sampling and Analysis Procedure prepared by McLaren/Hart (November 1, 1994) and approved by the NYSDEC. This letter report has been developed to provide a description of activities that were employed to collect representative effluent stack vinyl chloride data from the Soil Remediation/Groundwater Treatment Facility and to present results of analytical testing so that current air permit levels can be adjusted.

SCOPE OF WORK

Sample Collection Events

To characterize the concentration of vinyl chloride exiting the stack, McLaren/Hart completed four stack sampling events over a four week period beginning December 2, 1994. The four sampling events occurred on December 2, December 8, December 16, and December 22, 1994. During the first week of sampling, four consecutive discharge stack samples were collected and analyzed to evaluate vinyl chloride concentration variability over time. In addition, one sample was collected from the influent vapor extraction system. During the second week of sampling, two effluent stack samples were collected and analyzed for vinyl chloride. During the third week of sampling, only one discharge stack sample was collected and analyzed for vinyl chloride since week two sampling displayed only minor variability. During the fourth week of sampling, samples were collected from both the discharge stack and influent vapor extraction system. These samples were analyzed for the full range of volatile organics including vinyl chloride.

Sampling Protocol

Stack samples were collected in a 12-liter Tedlar® bag from the discharge stack sampling port by connecting the Tedlar® bag directly to the discharge of an SKC Personal Sample Pump. The SKC pump was throttled back to maximize the period of sampling. McLaren/Hart opted to use the SKC pumps because low pressures in the discharge stack did not allow for adequate sample collection using the method outlined in the Sampling and Analysis Procedure. The Tedlar® bag samples were collected over

8500 Brooktree Road, Suite 300, Wexford, PA 15090 (412) 934-3744 FAX (412) 934-5944

a one-half hour period. Each Tedlar® bag used was purged twice with clean outside air prior to filling with sample.

One field blank was collected during the first sampling event. An air purged Tedlar® bag was filled with ambient air using a vacuum sampling pump. The field blank accompanied the stack samples and was analyzed using the same method as the stack samples. The field blank was labelled indiscreetly so as not to differentiate it from the stack samples.

A VES influent sample was collected during the first and fourth sampling events using a Gast vacuum sampling pump. An air purged Tedlar® bag was filled with influent sample by connecting the suction side of the vacuum pump to a pipe tap and connecting the discharge side of the pump to the Tedlar® Bag. The vacuum pump was throttled to allow sampling over as long a period as possible. The influent sample was collected over approximately 20 minutes. The first week influent sample was analyzed for vinyl chloride and the fourth week sample was analyzed for the full range of volatile organics including vinyl chloride.

Sample Analysis and Validation

All samples were immediately transported to Huntingdon Analytical Services (Huntingdon) for preparation and testing. Samples were stored at 4° C upon arrival at the laboratory. All GC/MS analysis were completed within 72 hours of sampling. Analyses were performed using modified EPA Method 8240 (GC/MS) for vinyl chloride or volatile organics. General QA/QC tests were completed by Huntingdon to meet the data quality objectives as outlined in McLaren/Hart's Quality Assurance Project Plan (QAPP). A copy of Huntingdon Analytical Services Environmental Quality Assurance/Quality Control Manual is given as Appendix A in McLaren/Hart's QAPP.

Mr. Don Anne, a Supervising Environmental Scientist from McLaren/Hart's, Albany, New York office conducted an independent data validation review. Mr. Anne's QA/QC Review of Volatile Organics Data are included as Attachment A. Of specific interest, trace quantities of acetone (0.25 ppm) were detected in the method blank of December 23, 1994 and therefore results with acetone less than ten times the highest associated blank level were considered not detected (flagged by a U) in samples.

Acetone < 10× blk method is U

Sample Results

Table 1 highlights the analytical results of discharge stack vinyl chloride sampling completed at the Soil Remediation/Groundwater Treatment Facility at the Carborundum facility in Wheatfield, New York. In addition, McLaren/Hart's on-line MSA VOC Analyzer results are shown for comparative purposes. MSA VOC Analyzer data was collected at approximately the same time as those samples manually collected by McLaren/Hart and subsequently analyzed by Huntingdon. Huntingdon's analytical reports are provided in Attachment B.

validate? statistics dev from mean std dev?

Table 2 highlights the analytical results of influent and discharge stack volatile organic sampling completed during the fourth week of sampling. In addition, McLaren/Hart's on-line MSA VOC Analyzer results are shown for comparative purposes. MSA VOC Analyzer data was collected at approximately

the same time as those samples manually collected by McLaren/Hart and subsequently analyzed by Huntingdon.

Discussion of Results

Several key issues have been determined based on the results of the Sampling and Analysis Procedure completed by McLaren/Hart. These are as follows:

- Effluent stack vinyl chloride concentrations varied between 0.051 and 0.095 ppm during the four week sampling period. The descending trend in concentration during the four weeks of sampling is consistent with results of the general remediation during the month of December.

- Effluent stack vinyl chloride mass loading, based on the effluent stack flow rate and concentration, varied between 0.060 and 0.096 lbs/day. The maximum yearly discharge of vinyl chloride based on these results would be approximately 22 to 35 lbs, assuming continuous concentrations and flows. The effluent stack flow rates given in Table 1 are estimates since dilution air is added to the flow stream by the vacuum blower system. However, the blower manufacturer has informed McLaren/Hart that the amount of dilution air is approximately one and one-half times the influent flow rate at high vacuums. Therefore, McLaren/Hart is confident that the effluent stack flow rates given are a good estimate of actual conditions. estimate not actual.

- Consecutive sampling during week one and two indicated that vinyl chloride concentrations remained relatively constant over short durations (< 2 hours). However, short duration fluctuations in vinyl chloride concentrations (sample 120294-4) may occur as carbon adsorption equilibrium changes without changing influent conditions (i.e, temperature, relative humidity, and concentration).

- The results of the volatile organic analysis completed on week four samples indicated that the primary constituents being extracted from the subsurface are vinyl chloride, TCE, and 1,2 DCE (total). This is in concurrence with sampling performed during the Remedial Investigation. In addition, 1,1,1 TCA was detected at sub-ppm levels (0.33) but was reduced to below 0.15 ppm prior to exiting the effluent stack.

- Effluent stack sampling and analysis by the MSA VOC Analyzer correlates well with vinyl chloride, TCE and 1,2 DCE concentrations determined by Huntingdon Analytical Services. In addition, influent VES concentrations determined by the MSA analyzer correlated well with the Huntingdon data during week four volatiles testing and correlated poorly with the Huntingdon data during week one for vinyl chloride testing. The MSA VOC Analyzer is currently calibrated at 0.5 ppm for vinyl chloride, 10 ppm for DCE, and 20 ppm for TCE.

- During the four week sampling period, McLaren/Hart field personnel focused the remedial effort over those areas and/or wells exhibiting the highest mass removal. However, the air injection system was not operational during the sampling period. McLaren/Hart believes that increased mass removal may be seen with application of warm air injection and advises the NYSDEC that actual mass discharge levels of vinyl chloride at the stack may be slightly higher than determined during this study.

McLaren/Hart is prepared to apply for an Air Permit to Operate upon your satisfactory review of this document. Please call if you have any questions.

Sincerely,

McLAREN/HART

Robert F. DeLisio
Project Engineer

Kenneth B Andromalos FOR
Matthew C. Plautz, P.E.
Project Manager

RFD/MCP:jml

cc: Don Langshaw - BP Oil
Marty Doster - NYSDEC
Margaret Bonn - H&A
Ron Spears - Carborundum
Dave Hagen - H&A
Rick Becken - M/H

TABLE 1
RESULTS OF VINYL CHLORIDE STACK SAMPLING

Date	Sample ID#	Approximate Time of Sampling	Vinyl Chloride Huntingdon Lab (ppm)	Effluent Stack Flow Rate(1) (scfm)	Vinyl Chloride Mass Loading (lbs/day)	Vinyl Chloride On-Site GC Analysis(2) (ppm)
12/02/94	120294-2 (Blank)	9:05 AM	< 0.028 (U)	-	-	-
	120294-3	9:10 AM	0.095 (J)	4340	0.096	0.090
	120294-4	9:40 AM	0.03 (J)	4340	0.030	0.090
	120294-5	10:11 AM	0.09 (J)	4420	0.093	0.090
	120294-6	10:42 AM	0.086 (J)	4420	0.089	0.090
12/08/94	120894-2	9:36 AM	0.079 (J)	4200	0.077	0.060
	120894-3 (Blank)	9:02 AM	< 0.028 (U)	-	-	-
	120894-4	10:07 AM	0.074 (J)	4200	0.072	0.060
12/16/94	121694-1 (Blank)	12:25 PM	< 0.028 (U)	-	-	-
	121694-2	1:00 PM	0.051 (J)	5070	0.060	0.061
12/22/94	122294-2 (Blank)	12:20 PM	< 0.028 (U)	-	-	-
	122294-3	11:58 AM	< 0.15 (U)	4530	< 0.159	0.056

(1) Effluent stack flow rate is estimated using air stripper flow rate plus 2.5 times the influent VES flow rate. The factor of 2.5 takes into account the dilution air introduced into the flow stream by the vacuum blower system.

(2) On-Site GC data represents vinyl chloride analysis using the on-site MSA VOC Analyzer. The data presented were taken as close to the sampling times as possible for comparative purposes.

(J) Data usable with caution as an estimated concentration indentification criteria for the compound are satisfied, however the concentration listed is an estimated value which is greater than the method detection limit but less than the practical quantitation limit.

(U) Compound was analyzed for, but was not detected above the associated detection limit.

TABLE 2
VOLATILE ORGANICS SAMPLING RESULTS *

Sample Location	VES Influent Huntingdon	VES Influent MSA VOC Analyzer	Effluent Stack Huntingdon	Effluent Stack MSA VOC Analyzer
Sample #	122294-1	NA	122294-3	NA
Date	12/22/94	12/22/94	12/22/94	12/22/94
Approximate Time	11:35 AM	11:41 AM	11:58 AM	12:24 PM
Parameter				
Vinyl Chloride (ppm)	0.28	0.25	< 0.15 (U)	0.064
TCE (ppm)	11	13.7	0.23	< 0.25
1,2 DCE - total (ppm)	1.9	2.21	0.51	0.458
1,1,1 TCA (ppm)	0.33	-	< 0.15 (U)	-
Acetone (ppm)	0.83 (U)	-	0.53 (U)	-
Others (ppm)	< 0.15 (U)	-	< 0.15 (U)	-

* Only those compounds that were detected by the full volatile screen are shown. MSA VOC Analyzer only analyzes for TCE, 1,2 DCE, and Vinyl Chloride.

(U) Compound was analyzed for, but was not detected above the associated detection limit.

NA - Not Applicable

ATTACHMENT A

QA/QC Review of Volatiles Data
from Huntingdon Analytical Services
Report Numbers 94-1862, 94-1898
94-1948, 94-1968

Holding Times: Samples were analyzed within SW-846 holding times.

GC/MS Tuning and Mass Calibration: All BFB tuning criteria were within control limits.

Initial Calibration: All compounds with contractual requirements for RRFs and %RSDs met those criteria.

All compounds had RRFs above the allowable minimum (0.050) as required. Acetone (37.2%) had a %RSD above the allowable maximum (30%) on 11-01-94. Results for acetone should be considered estimates (J) in associated samples.

Continuing Calibration: All compounds with contract requirements for RRF50s and %Ds met those criteria.

All compounds had RRF50s abovethe allowable minimum (0.050) and %Ds below the allowable amximum (25%) as required.

Blanks: Method blank VBLKW01 (12-23-94) contained a trace of acetone (0.25 ppm). Results for acetone less than ten times the highest associated blank level should be considered not detected (U) in samples.

Internal Standard Area Summary: All internal standard areas and retention times were within control limits.

Surrogate Recovery: All surrogate recoveries were within control limits.

Matrix Spike: Both percent recoveries were within control limits for both MS samples.

ATTACHMENT B

ENVIRONMENTAL ANALYTICAL REPORT

REPORT NUMBER: 94-1862

PREPARED FOR:

McLAREN/HART
2050 CORY ROAD
SANBORN, NEW YORK 14132

RE: BP AMERICA (090801056)

PREPARED BY:

HUNTINGDON ANALYTICAL SERVICES
P.O. BOX 250
MIDDLEPORT, NEW YORK 14105
TELEPHONE: 716/735-3400; FAX: 716/735-3653

DECEMBER 8, 1994

Huntingdon

HUNTINGDON ANALYTICAL SERVICES
ELAP #10833
ENVIRONMENTAL REPORT

REPORT NUMBER: 94-1862

STATEMENT OF WORK PERFORMED

I HEREBY DECLARE THAT THE WORK WAS PERFORMED UNDER MY SUPERVISION ACCORDING TO THE PROCEDURES OUTLINED BY THE FOLLOWING REFERENCES AND THAT THIS REPORT PROVIDES A CORRECT AND FAITHFUL RECORD OF THE RESULTS OBTAINED.

- 40 CFR PART 136, "GUIDELINES ESTABLISHING TEST PROCEDURES FOR THE ANALYSIS OF POLLUTANTS UNDER THE CLEAN WATER ACT", OCTOBER 26, 1984 (FEDERAL REGISTER) U. S. ENVIRONMENTAL PROTECTION AGENCY.

- U.S. ENVIRONMENTAL PROTECTION AGENCY, "TEST METHODS OF EVALUATING SOLID WASTE - PHYSICAL/CHEMICAL METHODS", OFFICE OF SOLID WASTE AND EMERGENCY RESPONSE, SW-846, 2ND EDITION AND 3RD EDITION.

THIS REPORT CONTAINS ANALYTICAL DATA BASED ON OUR EXAMINATION OF THE SAMPLE(S) PRESENTED TO US. THIS REPORT CONTAINS (EXCEPT WHERE EXPLICITLY STATED) A COMPLETE ACCOUNT OF THE ANALYSES REQUESTED TO BE PERFORMED ON THE SAMPLE(S). INFORMATION WHICH WAS NOT REQUESTED TO BE REPORTED IS NOT INCLUDED.

PHILLIP A. KUYKENDALL DECEMBER 8, 1994
ENVIRONMENTAL LABORATORY MANAGER

REPORT CODE LEGEND:

<DL	= LESS THAN DETECTION LIMIT
ND	= NOT DETECTED
NA	= NOT APPLICABLE
INP	= INFORMATION NOT PROVIDED
MB	= METHOD BLANK

Huntingdon

HUNTINGDON ANALYTICAL SERVICES

EPA METHOD 8240 MODIFIED
VOLATILE ORGANICS
TEDLAR BAGS

SAMPLE IDENTIFICATION:	120294-1	120294-2	120294-3	120294-4		
HAS SAMPLE #941862	01	02	03	04		
		Blank				
COMPOUND	RESULT ppm	RESULT ppm	RESULT ppm	RESULT ppm	MDL ppm	PQL ppm
VINYL CHLORIDE ----------	0.098 •	<0.028	0.095 •	0.030 •	0.028	0.28
DATE ANALYZED:	12-5-94	12-5-94	12-5-94	12-5-94		

• ESTIMATED VALUE, RESULT BETWEEN MDL AND PQL.

HUNTINGDON ANALYTICAL SERVICES

EPA METHOD 8240 MODIFIED
VOLATILE ORGANICS
TEDLAR BAGS

SAMPLE IDENTIFICATION :	120294-05	120294-6	METHOD BLANK		
HAS SAMPLE #941862	05	06	--		
COMPOUND	RESULT ppm	RESULT ppm	RESULT ppm	MDL ppm	PQL ppm
VINYL CHLORIDE ----------	0.090 *	0.086 *	<0.028	0.028	0.28
DATE ANALYZED:	12-5-94	12-5-94	12-5-94		

* ESTIMATED VALUE, RESULT BETWEEN MDL AND PQL.

Huntingdon

HUNTINGDON ANALYTICAL SERVICES
CHAIN OF CUSTODY RECORD AND ANALYTICAL REQUEST FORM

Page of

Client Name: McLaren Hart / BP
Address: 2050 Corry Rd. Sanborn, NY 14132
Contact: Richard C Becker
Phone: (716) 731-4010

Project No.: 090801056
Project Site/Name: BP America
Sampler's Signature: Richard C Becker

HAS Quote #
P.O. # 09P940328
HAS Ref. No.: ~~93-111~~ 12-2-94
94-1862

Sample I.D.	Date	Time	Comp or Grab	Sample Location	HAS Seq. #	Matrix	No. of Cont.	Container Size & Type: 12L Tedlar bag						Analysis Requested/Remarks
120294-1			grab	BP America Sanborn, NY	01	AIR	1	✓						Mod 8240 Vinyl Chloride
120294-2			grab		02		1	✓						
120294-3			grab		03		1	✓						
120294-4			grab		04		1	✓						
120294-5			grab		05		1	✓						
120294-6			grab		06		1	✓						

Relinquished by:	Date/Time:	Received by:	Relinquished by:	Date/Time:	Received by:
Richard C Becker	12/02/94 1155	Ellen Romer	Ellen Romer	12/2/94 1225	
Relinquished by:	Date/Time:	Received by:	Relinquished by:	Date/Time:	Received by:
Relinquished by:	Date/Time:	Received for Lab by: Ellen Pearson	Date/Time: 12/2/94 1225	Remarks:	

Environmental Analytical Report

Report Number: 94-1898

Prepared for:

McLaren/Hart
2050 Cory Road
Sanborn, New York 14132

RE: BP America (09.0801056)

Prepared by:

Huntingdon Analytical Services
P.O. Box 250
Middleport, New York 14105
Telephone: 716/735-3400; Fax: 716/735-3653

December 13, 1994

Huntingdon

HUNTINGDON ANALYTICAL SERVICES
ELAP #10833
ENVIRONMENTAL REPORT

REPORT NUMBER: 94-1898

STATEMENT OF WORK PERFORMED

I HEREBY DECLARE THAT THE WORK WAS PERFORMED UNDER MY SUPERVISION ACCORDING TO THE PROCEDURES OUTLINED BY THE FOLLOWING REFERENCES AND THAT THIS REPORT PROVIDES A CORRECT AND FAITHFUL RECORD OF THE RESULTS OBTAINED.

- 40 CFR PART 136, "GUIDELINES ESTABLISHING TEST PROCEDURES FOR THE ANALYSIS OF POLLUTANTS UNDER THE CLEAN WATER ACT", OCTOBER 26, 1984 (FEDERAL REGISTER) U. S. ENVIRONMENTAL PROTECTION AGENCY.

- U.S. ENVIRONMENTAL PROTECTION AGENCY, "TEST METHODS OF EVALUATING SOLID WASTE - PHYSICAL/CHEMICAL METHODS", OFFICE OF SOLID WASTE AND EMERGENCY RESPONSE, SW-846, 2ND EDITION AND 3RD EDITION.

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PHILLIP A. KUYKENDALL DECEMBER 13, 1994
ENVIRONMENTAL LABORATORY MANAGER

REPORT CODE LEGEND:

<DL	= LESS THAN DETECTION LIMIT
ND	= NOT DETECTED
NA	= NOT APPLICABLE
INP	= INFORMATION NOT PROVIDED
MB	= METHOD BLANK

Huntingdon

HUNTINGDON ANALYTICAL SERVICES

EPA METHOD 8240 MODIFIED
VOLATILE ORGANICS
TEDLAR BAGS

SAMPLE IDENTIFICATION :	120294-2	120294-3	120294-4	METHOD BLANK		
HAS SAMPLE #941898	01	02	03	--		
COMPOUND	RESULT ppm	RESULT ppm	RESULT ppm	RESULT ppm	MDL ppm	PQL ppm
VINYL CHLORIDE ----------	0.079 *	<0.028	0.074 *	<0.028	0.028	0.28
DATE ANALYZED:	12-9-94	12-9-94	12-9-94	12-9-94		

* ESTIMATED VALUE, RESULT BETWEEN MDL AND PQL.

Huntingdon

HUNTINGDON ANALYTICAL SERVICES Page of
CHAIN OF CUSTODY RECORD AND ANALYTICAL REQUEST FORM

Client Name: McLaren Hart / BP
Address: 2050 Cory Rd. Sanborn, NY 14132
Contact: Richard C Becker
Phone: (716) 731-4010

Project No.: 09.0801056
Project Site/Name: BP America
Sampler's Signature: Richard C Becker

HAS Quote #
P.O. # 09P940328
HAS Ref. No.: 93-Pyl 12-9-44
94-1898

Sample I.D.	Date	Time	Comp or Grab	Sample Location	HAS Seq. #	Matrix	No. of Cont.	Container Size & Type: 12 Liter Bag						Analysis Requested/Remarks
120294-2	12-08	0936	grab	BP America	01	air	1	✓						Mod. 8240 Vinyl Chloride
120294-3	12-08	0902	grab	BP America	02	air	1	✓						Mod 8240 Vinyl Chloride " " " "
120294-4	12-08	1007	grab	BP America	03 ffp	air	1	✓						

Relinquished by:	Date/Time:	Received by:	Relinquished by:	Date/Time:	Received by:
Richard C Becker	12/08/94 1545	Karen Kramer	Karen Kramer	12/8/94 1635	
Relinquished by:	Date/Time:	Received by:	Relinquished by:	Date/Time:	Received by:
Relinquished by:	Date/Time:	Received for Lab by:	Date/Time:	Remarks:	
		KM Fugate	12/8/94 16:35	21°C	

HUNTINGDON ANALYTICAL SERVICES

DISCREPANCY/DEFICIENCY REPORT FORM

TO: Laboratory Manager

FROM: PAM

DATE: 12/9/94

RE: Sample I.D. No. 94-1898
Batch No. 01503

EXPLANATION: Sample ID on COC 120294-2 (01)
120294-3 (02)
120294-4 (03)
ID on sample bags 120894-2 (01)
120894-3 (02)
120894-4 (03)
PM

cc: Client report file

ENVIRONMENTAL ANALYTICAL REPORT

REPORT NUMBER: 94-1948

PREPARED FOR:

MCLAREN/HART
2050 CORY ROAD
SANBORN, NEW YORK 14132

RE: BP AMERICA (090801056)

PREPARED BY:

HUNTINGDON ANALYTICAL SERVICES
P.O. BOX 250
MIDDLEPORT, NEW YORK 14105
TELEPHONE: 716/735-3400; FAX: 716/735-3653

DECEMBER 20, 1994

Huntingdon

HUNTINGDON ANALYTICAL SERVICES
ELAP #10833
ENVIRONMENTAL REPORT

REPORT NUMBER: 94-1948

STATEMENT OF WORK PERFORMED

I HEREBY DECLARE THAT THE WORK WAS PERFORMED UNDER MY SUPERVISION ACCORDING TO THE PROCEDURES OUTLINED BY THE FOLLOWING REFERENCES AND THAT THIS REPORT PROVIDES A CORRECT AND FAITHFUL RECORD OF THE RESULTS OBTAINED.

- 40 CFR PART 136, "GUIDELINES ESTABLISHING TEST PROCEDURES FOR THE ANALYSIS OF POLLUTANTS UNDER THE CLEAN WATER ACT", OCTOBER 26, 1984 (FEDERAL REGISTER) U. S. ENVIRONMENTAL PROTECTION AGENCY.

- U.S. ENVIRONMENTAL PROTECTION AGENCY, "TEST METHODS OF EVALUATING SOLID WASTE - PHYSICAL/CHEMICAL METHODS", OFFICE OF SOLID WASTE AND EMERGENCY RESPONSE, SW-846, 2ND EDITION AND 3RD EDITION.

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PHILLIP A. KUYKENDALL DECEMBER 20, 1994
ENVIRONMENTAL LABORATORY MANAGER

REPORT CODE LEGEND:
<DL = LESS THAN DETECTION LIMIT
ND = NOT DETECTED
NA = NOT APPLICABLE
INP = INFORMATION NOT PROVIDED
MB = METHOD BLANK

Huntingdon

HUNTINGDON ANALYTICAL SERVICES

EPA METHOD 8240 MODIFIED
VOLATILE ORGANICS
TEDLAR BAGS

SAMPLE IDENTIFICATION :	121694-1	121694-2	METHOD BLANK		
HAS SAMPLE #941948	01	02	--		
COMPOUND	RESULT ppm	RESULT ppm	RESULT ppm	MDL ppm	PQL ppm
VINYL CHLORIDE ----------	<0.028	0.051 *	<0.028	0.028	0.28
DATE ANALYZED:	12-19-94	12-19-94	12-19-94		

* ESTIMATED VALUE, RESULT BETWEEN MDL AND PQL.

Huntingdon

140 Telegraph Road
Middleport, NY 14105
Phone (716) 735-3400
Fax (716) 735-3653

CHAIN OF CUSTODY RECORD AND ANALYTICAL REQUEST FORM

Client Name: McLaren Hart / BP
Address: 2050 Cory Rd.
Sanborn, NY 14132
Contact: Richard C Becker
Phone: (716) 731-4010

Project No.: 090801056
Project Site/Name: BP America
Sampler's Signature: Richard C Becker

Ref.#9 4-1948
P.O.# 09P940328
Quote#

Sample I.D.	Date	Time	Comp or Grab	Sample Location	HAS Seq.#	Matrix	No. of Cont.	Container Size & Type: 12L Tedlar bag						Analysis Requested/Remarks
121694-1	12/16	1225	Grab	BP Sanborn, NY	01	air	1	✓						Mod 8240 Vinyl Chloride
121694-2	12/16	1230	Grab	"	02pp	air	1	✓						" " " "

Relinquished by:	Date/Time:	Received by:	Relinquished by:	Date/Time:	Received by:
Richard C Becker	12/16/94 1530	Karen Kromer	Karen Kromer	12/16/94 1615	
Relinquished by:	Date/Time:	Received by:	Relinquished by:	Date/Time:	Received by:
Relinquished by:	Date/Time:	Received for Lab by: KM Ingalls	Date/Time: 12/16/94 16:15	Remarks: 23°C	

Environmental Analytical Report

Report Number: 94-1968

Prepared for:

McLaren Hart / BP
2050 Cory Road
Sanborn, New York 14132

RE: BP America (090801056)

Prepared by:

Huntingdon Analytical Services
P.O. Box 250
Middleport, New York 14105
Telephone: 716/735-3400; Fax: 716/735-3653

January 3, 1995

Huntingdon

HUNTINGDON ANALYTICAL SERVICES
ELAP #10833
ENVIRONMENTAL REPORT

REPORT NUMBER: 94-1968

STATEMENT OF WORK PERFORMED

I HEREBY DECLARE THAT THE WORK WAS PERFORMED UNDER MY SUPERVISION ACCORDING TO THE PROCEDURES OUTLINED BY THE FOLLOWING REFERENCES AND THAT THIS REPORT PROVIDES A CORRECT AND FAITHFUL RECORD OF THE RESULTS OBTAINED.

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PHILLIP A. KUYKENDALL JANUARY 3, 1995
ENVIRONMENTAL LABORATORY MANAGER

REPORT CODE LEGEND:

<DL	= LESS THAN DETECTION LIMIT
ND	= NOT DETECTED
NA	= NOT APPLICABLE
INP	= INFORMATION NOT PROVIDED
MB	= METHOD BLANK

Huntingdon

HUNTINGDON ANALYTICAL SERVICES

WET CHEMISTRY

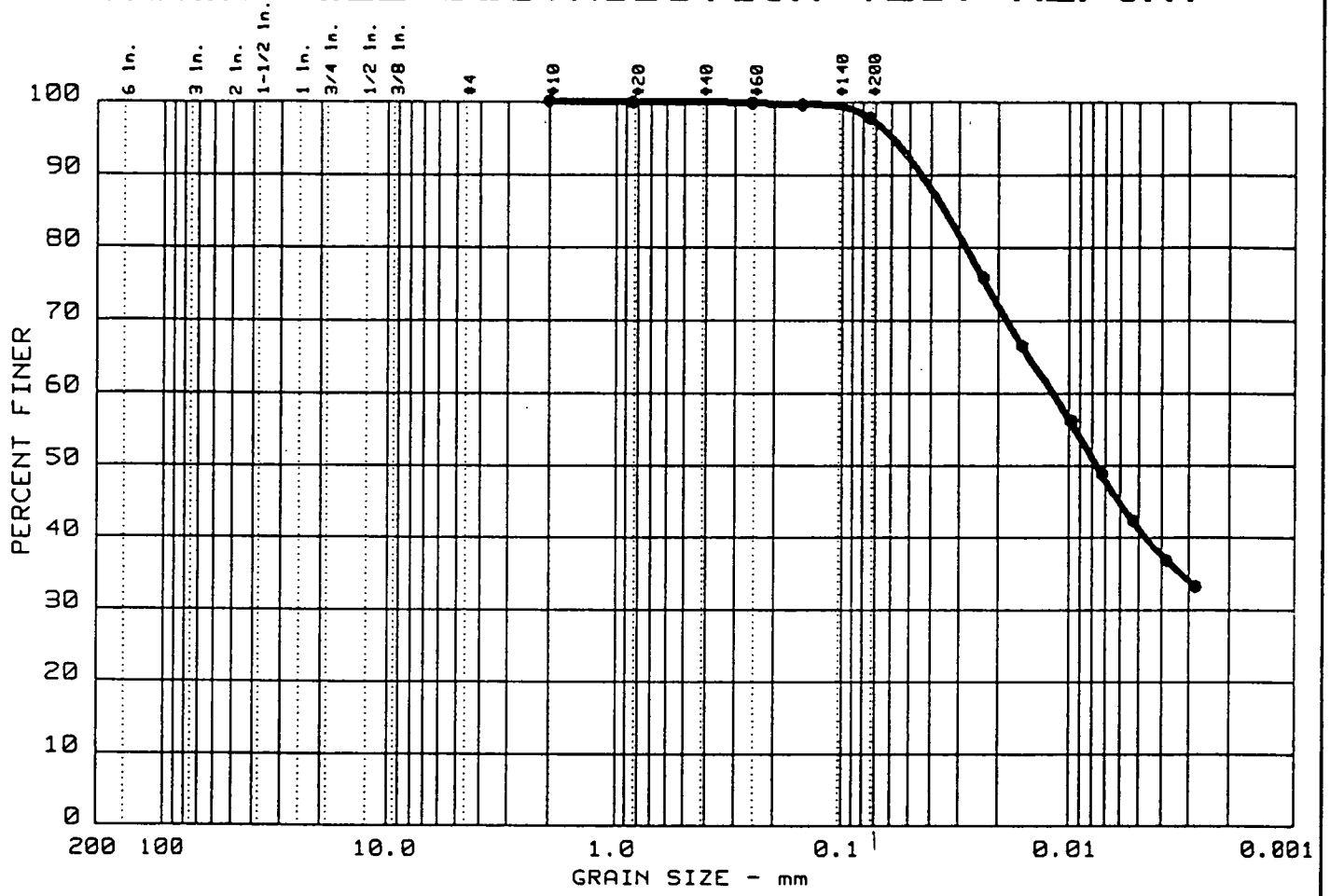
SAMPLE IDENTIFICATION :			122294-4	METHOD BLANK
HAS SAMPLE #941968			04	--
ANALYTE	EPA METHOD	DATE ANALYZED	RESULT mg/L	RESULT mg/L
TOTAL SUSPENDED SOLIDS ----------	160.2	12/23/94	5,550	<1.0
DATE SAMPLED:			12/22/94	----

HUNTINGDON ANALYTICAL SERVICES

EPA METHOD 8240 (MODIFIED)
VOLATILE ORGANICS

SAMPLE IDENTIFICATION :	122294-1	122294-2	122294-3	METHOD BLANK	
HAS SAMPLE #941968	01	02	03	–	
COMPOUND	RESULT ppm	RESULT ppm	RESULT ppm	RESULT ppm	DL ppm
CHLOROMETHANE	<0.15	<0.15	<0.15	<0.15	0.15
BROMOMETHANE	<0.15	<0.15	<0.15	<0.15	0.15
VINYL CHLORIDE	0.28	<0.15	<0.15	<0.15	0.15
CHLOROETHANE	<0.15	<0.15	<0.15	<0.15	0.15
METHYLENE CHLORIDE	<0.15	<0.15	<0.15	<0.15	0.15
ACETONE	0.83	0.65	0.53	0.25	0.15
TRICHLOROFLUOROMETHANE	<0.15	<0.15	<0.15	<0.15	0.15
CARBON DISULFIDE	<0.15	<0.15	<0.15	<0.15	0.15
1,1-DICHLOROETHENE	<0.15	<0.15	<0.15	<0.15	0.15
1,1-DICHLOROETHANE	<0.15	<0.15	<0.15	<0.15	0.15
1,2-DICHLOROETHENE (TOTAL)	1.9	<0.15	0.51	<0.15	0.15
CHLOROFORM	<0.15	<0.15	<0.15	<0.15	0.15
1,2-DICHLOROETHANE	<0.15	<0.15	<0.15	<0.15	0.15
2-BUTANONE	<0.15	<0.15	<0.15	<0.15	0.15
1,1,1-TRICHLOROETHANE	0.33 ✓	<0.15	<0.15	<0.15	0.15
CARBON TETRACHLORIDE	<0.15	<0.15	<0.15	<0.15	0.15
VINYL ACETATE	<0.15	<0.15	<0.15	<0.15	0.15
BROMODICHLOROMETHANE	<0.15	<0.15	<0.15	<0.15	0.15
1,2-DICHLOROPROPANE	<0.15	<0.15	<0.15	<0.15	0.15
cis-1,3-DICHLOROPROPENE	<0.15	<0.15	<0.15	<0.15	0.15
TRICHLOROETHENE	11	<0.15	0.23	<0.15	0.15
DIBROMOCHLOROMETHANE	<0.15	<0.15	<0.15	<0.15	0.15
1,1,2-TRICHLOROETHANE	<0.15	<0.15	<0.15	<0.15	0.15
BENZENE	<0.15	<0.15	<0.15	<0.15	0.15
trans-1,3-DICHLOROPROPENE	<0.15	<0.15	<0.15	<0.15	0.15
2-CHLOROETHYLVINYL ETHER	<0.15	<0.15	<0.15	<0.15	0.15
BROMOFORM	<0.15	<0.15	<0.15	<0.15	0.15
4-METHYL-2-PENTANONE	<0.15	<0.15	<0.15	<0.15	0.15
2-HEXANONE	<0.15	<0.15	<0.15	<0.15	0.15
TETRACHLOROETHENE	<0.15	<0.15	<0.15	<0.15	0.15
1,1,2,2-TETRACHLOROETHANE	<0.15	<0.15	<0.15	<0.15	0.15
TOLUENE	<0.15	<0.15	<0.15	<0.15	0.15
CHLOROBENZENE	<0.15	<0.15	<0.15	<0.15	0.15
ETHYL BENZENE	<0.15	<0.15	<0.15	<0.15	0.15
STYRENE	<0.15	<0.15	<0.15	<0.15	0.15
XYLENE (TOTAL)	<0.15	<0.15	<0.15	<0.15	0.15
1,3-DICHLOROBENZENE	<0.15	<0.15	<0.15	<0.15	0.15
1,2-DICHLOROBENZENE	<0.15	<0.15	<0.15	<0.15	0.15
1,4-DICHLOROBENZENE	<0.15	<0.15	<0.15	<0.15	0.15
DATE ANALYZED:	INF 12-23-94	12-23-94	12-23-94	12-23-94	

GRAIN SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
●	1	0.0	0.0	2.3	56.5	<41.2

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
●					0.01					

MATERIAL DESCRIPTION	USCS	AASHTO
● BROWN SILT AND CLAY, trace sand		

Project No.: G032.008
Project: BP AMERICA
● Location: 122394 - 5

Date: DECEMBER 30, 1994

GRAIN SIZE DISTRIBUTION TEST REPORT

HUNTINGDON ENGINEERING & ENVIRONMENTAL

Remarks:

CLIENT: H.A.S./MCLAREN HART

LAB NO. 2185.001

Figure No. 1

Huntingdon

140 Telegraph Road
Middleport, NY 14105
Phone (716) 735-3400
Fax (716) 735-3653

CHAIN OF CUSTODY RECORD AND ANALYTICAL REQUEST FORM

Client Name: McLaren Hart / BP
Address: 2050 Cory Rd.
Sanborn NY 14132
Contact: Richard C Backen
Phone: (716) 731-4016

Project No.: 09080105G
Project Site/Name: BP America
Sampler's Signature: Richard C Backen

Ref.#9 ~~[illegible]~~8
P.O.# 09P940328
Quote# 94-2698

94-1968

Sample I.D.	Date	Time	Comp or Grab	Sample Location	HAS Seq.#	Matrix	No. of Cont.	Container Size & Type						Analysis Requested/Remarks
								12L Tedlar Bag						
122294-1	12/22/94	1135	grab	BP Sanborn, NY	01	air	1	✓						Mod. 8240 TCL Volatile Organics
122294-2	"	1220	"	"	02	air	1	✓						"
122294-3	"	1123	"	"	03	air	1	✓						"
122294-4	"	1340	"	"	04	water	1							Total Suspended Solids
122294-5	"	1340	"	"	05	water	1							Hydrometer Particulate size distr.

Relinquished by:	Date/Time:	Received by:	Relinquished by:	Date/Time:	Received by:
Richard C Backen	12/22/94 1:45 pm	Charles V Reyes	Charles V Reyes	12/22/94 2:45p	
Relinquished by:	Date/Time:	Received by:	Relinquished by:	Date/Time:	Received by:
Relinquished by:	Date/Time:	Received for Lab by:	Date/Time:	Remarks:	
		Pamela Pellison	12/22/94 1445		

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
270 Michigan Avenue
Buffalo, NY 14203-2999
(716) 851-7165

COPY

Langdon Marsh
Commissioner

October 24, 1994

Mr. Ronald F. Spears, Jr.
Sr. Environmental Specialist
The Carborundum Company
1625 Buffalo Avenue
Niagara Falls, New York 14303

Dear Mr. Spears:

AMENDMENT TO PERMIT
AIR - PERMIT TO CONSTRUCT
EMISSION POINT 00001
AIR FACILITY #2940000578
DEC ID NO. 9-2940-00027/00045-0
CARBORUNDUM SPECIALTY GRAPHITE
TOWN OF SANBORN - NIAGARA COUNTY

In response to a September 22, 1994 letter by McLaren Hart, the referenced permit expiration date is hereby extended to April 1, 1995.

All other provisions of the original permit remain as written.

Thank you for your cooperation.

Respectfully,

Paul D. Eismann

Paul D. Eismann
Deputy Permit Administrator
Division of Regulatory Affairs

MJM/dz

cc: Ms. Jacqueline DiPronio, Reg. 9 Division of Air
Mr. Martin Doster, Reg. 9 Hazardous Waste Remediation
Mr. James Devald, Niagara County Health Department
Mr. Robert DeLisio, McLaren Hart