

Laboratory Analysis Report

Total Number of Pages: 8

Job ID : 14011174



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, <http://www.ablabs.com>

Client Project Name :
Big Foot Polymer

Report To : Client Name: Matrix Construction Products P.O.#.:
Attn: Kenneth R. Berry Jr. Sample Collected By:
Client Address: PO Box 1211 Date Collected: 01/23/14
City, State, Zip: Englewood, Colorado, 80150-1211

A&B Labs has analyzed the following samples...

Client Sample ID	Matrix	A&B Sample ID
Big Foot	Liquid	14011174.01

Alisha Hughes

Released By: Alisha Hughes
Title: Project Manager
Date: 2/10/2014



This Laboratory is NELAP (T104704213-13-8) accredited. Effective: 04/01/2013; Expires: 03/31/2014

Scope: Non-Potable Water, Drinking Water, Air, Solid, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client. Soil samples are reported on a wet weight basis unless otherwise noted. Uncertainty estimates are available on request.

Date Received : 01/29/2014 12:00

LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID : 14011174

Date: 2/10/2014

General Term Definition

Back-Wt	Back Weight	Post-Wt	Post Weight
BRL	Below Reporting Limit	ppm	parts per million
cfu	colony-forming units	Pre-Wt	Previous Weight
Conc.	Concentration	Q	Qualifier
D.F.	Dilution Factor	RegLimit	Regulatory Limit
Front-Wt	Front Weight	RPD	Relative Percent Difference
LCS	Laboratory Check Standard	RptLimit	Reporting Limit
LCSD	Laboratory Check Standard Duplicate	SDL	Sample Detection Limit
MS	Matrix Spike	surr	Surrogate
MSD	Matrix Spike Duplicate	T	Time
MW	Molecular Weight	TNTC	Too numerous to count

Qualifier Definition

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LABORATORY TEST RESULTS

Job ID : 14011174

Date 2/10/2014

Client Name: Matrix Construction Products

Attn: Kenneth R. Berry Jr.

Project Name: Big Foot Polymer

Client Sample ID: Big Foot

Job Sample ID: 14011174.01

Date Collected: 01/23/14

Sample Matrix Liquid

Time Collected: 00:00

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8151A	Chlorinated Herbicides								
	2,4,5-TP	BRL	ug/L	2.86	7.14			02/06/14 21:47	JKD
	2,4-D	BRL	ug/L	2.86	14.29			02/06/14 21:47	JKD
	DCPAA(surr)	101	%	2.85714	38-120			02/06/14 21:47	JKD
SW-846 8270D	Semivolatile Organic Compounds								
	2-Methylphenol	BRL	mg/L	2.86	0.029			02/05/14 17:15	PNS
	Pyridine	BRL	mg/L	2.86	0.143			02/05/14 17:15	PNS
	2,4,6-Tribromophenol(surr)	52.7	%	2.86	19-122			02/05/14 17:15	PNS
	2-Fluorobiphenyl(surr)	41.5	%	2.86	30-115			02/05/14 17:15	PNS
	2-Fluorophenol(surr)	21.2	%	2.86	15-115			02/05/14 17:15	PNS
	Nitrobenzene-d5(surr)	42.7	%	2.86	23-120			02/05/14 17:15	PNS
	Phenol-d6(surr)	14.5	%	2.86	10-130			02/05/14 17:15	PNS
	p-Terphenyl-d14(surr)	77.8	%	2.86	18-137			02/05/14 17:15	PNS

QUALITY CONTROL CERTIFICATE



Job ID : 14011174

Date : 2/10/2014

Analysis : Semivolatile Organic Compounds **Method :** SW-846 8270D **Reporting Units :** mg/L

QC Batch ID : Qb14020603 **Created Date :** 02/06/14 **Created By :** Psaraiya

Samples in This QC Batch : 14011174.01

Extraction : PB14020540 **Prep Method :** SW-846 3510C **Prep Date :** 01/30/14 12:00 **Prep By :** Msoria

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
2-Methylphenol	95-48-7	BRL	mg/L	1	0.01	
Pyridine	110-86-1	BRL	mg/L	1	0.05	
2-Fluorophenol(surr)	367-12-4	33.1	%	1	15-115	
Phenol-d6(surr)	13127-88-3	23	%	1	10-130	
Nitrobenzene-d5(surr)	4165-60-0	54.1	%	1	23-120	
2-Fluorobiphenyl(surr)	132-60-8	54.4	%	1	30-115	
2,4,6-Tribromophenol(surr)	118-79-6	43.8	%	1	19-122	
p-Terphenyl-d14(surr)	1718-51-0	62.4	%	1	18-137	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
2-Methylphenol	0.05	0.015	30	0.05	0.015	30	0	35	26-114	
Pyridine	0.05	0.011	22	0.05	0.011	22	0	35	D-129	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE



Job ID : 14011174

Date : 2/10/2014

Analysis : Chlorinated Herbicides **Method :** SW-846 8151A **Reporting Units :** ug/L

QC Batch ID : Qb14020726 **Created Date :** 02/07/14 **Created By :** Psaraiya

Samples in This QC Batch : 14011174.01

Extraction : PB14020543 **Prep Method :** SW-846 8151A **Prep Date :** 01/30/14 12:00 **Prep By :** Msoria

QC Type: Method Blank							
Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
2,4,5-TP	93-72-1	BRL	ug/L	1	2.5		
2,4-D	94-75-7	BRL	ug/L	1	5		
DCPAA(surr)	19719-28-9	93.8	%	1	38-120		

QC Type: LCS and LCSD										
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrLimit	%Recovery CtrLimit	Qual
2,4,5-TP	10	7.68	76.8	10	7.75	77.5	0.9	32	35-125	
2,4-D	10	8.56	85.6	10	8.72	87.2	1.8	29	29-124	

Refer to the Definition page for terms.

The Chain of Custody is a Legal Document

10100 East Freeway (I-10)
Houston, TX 77029
713-453-6060
1-877-478-6060 Toll Free
713-453-6091 Fax
info@ablabs.com
www.ablabs.com



14011174
A&B JOB ID: **Q1140122-01**
Project #: **Big-Foot**

Project Name / Location: **Big-Foot polymer**

Reporting Requirement:
 TRRP Limits Only TRRP Rpt. Package See Attached Standard Level II

Sampler's Name & Company:
KENNETH R. BERRY, JR

Sampler's Signature & Date:
Kenneth Berry, Jr 1/23/14

Sample ID & Description:
Big-Foot
dry white granules

Lab Use Only:
OIA

10. Sampling Date:
1/23/14

11. Matrix:
Time
Date

12. Matrix:
comp
grab
Water
Soil
Sludge
Air
Other

13. No. of Containers:
0-RESOL (2-METHYLPIPERYL)
PYRIDINE SW-246 3700
2,4-D; 2,4,5-TP (SILVER)
SW-246 2151A

18. Comments:
MIXING INSTRUCTIONS:
MIX THE BIG-FOOT
@ 0.08% INTO
350 ML OF DEIONIZED
WATER

14. Containers*
15. Preservatives**
16. pH-Lab Only

19. RELINQUISHED BY:
1) *John H. Berry*
2) *USPS*
3)

DATE TIME
1/23/14 6:143
1-22-14 12:00

KNOWN HAZARDS / COMMENT

*Containers: VOA- 40 ml vial
4 oz/8 oz- glass wide mouth
BILL OF LADING/TRACKING #
A&B CANNOT ACCEPT VERBAL CHANGES. PLEASE FAX WRITTEN CHANGES TO 713-453-6091 OR EMAIL THE NEW COC TO YOUR PROJECT MANAGER.

Preservatives: C-C66l H-HCl N-HNO3
S-H2SO4 OH-NaOH T-Na2S2O3 X-Other
METHOD OF SHIPMENT: **USPS EXPRESS**
Temperature: **16.4°C**
Intact? Y N
Initials: **CC 10200330**

Samples will be disposed of after 30 days. A&B reserves the right to return samples.

Day Zero is the day sample is received.
Can Report due at 5pm on due day.

Company: **MATRIX CONSULTING**
Address: **PO BOX 1211**
EMLEWOOD CO 90150-1211
Contact: **KENNETH R. BERRY, JR**
Phone: **877-591-3137**
Fax: **630-741-3459**
Email: **john.berry@matrixcp.com**

3. PO #
A. Turnaround Time- Business Days
 1 Day*
 2 Days*
 3 Days*
 5 Days*
 7 Days-Standard
 Other
* Surcharge Applies

Via-email: bsapp@ablabs.com

1401174

January 22, 2014

Bethany Corbett Sapp
A&B Environmental Services
10100 East Freeway, Ste. 100
Houston, TX 77029
P: 713.453.6060, X135 F: 713.453.6091

RE: Quote ID: QT14012201 (BIG-FOOT)

DIA

Thank you for your online quote. A 2-3 oz. sample of our white dry granular product (BIG-FOOT®) will be sent to your address for testing according to EPA protocols for the following.

1. o-cresol (2-methylphenol)
2. 2,4-D
3. 2,4,5-TP (Silvex)
4. Pyridine

Mix Instructions: Mix the BIG-FOOT white granular solid at concentration of 0.084 g into 350 ml of deionized water

Thank you for your assistance. Please be sure to name the product (BIG-FOOT) on the test results, and to name Silvex.

Thank You,

Kenneth R. Berry, Jr
President
Matrix Construction Products
PO Box 1211
Englewood, CO 80150-1211
P: 877.591.3137 C: 630.730.7428



C. Cupe 1/29/14 @ 12:00
Via USPS
116.4°C
cc 1070023320



Sample Condition Checklist

A&B JobID : 14011174	Date Received : 01/29/2014	Time Received : 12:00PM																											
Client Name : Matrix Construction Products																													
Temperature : 16.4°C	Sample pH : N/A																												
Thermometer ID : 102002320	pH Paper ID : N/A																												
Check Points																													
1.	Cooler seal present and signed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>																								
2.	Sample(s) in a cooler.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																								
3.	If yes, ice in cooler.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>																								
4.	Sample(s) received with chain-of-custody.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																								
5.	C-O-C signed and dated.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																								
6.	Sample(s) received with signed sample custody seal.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																								
7.	Sample containers arrived intact. (If no comment).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																								
8.	<table style="width: 100%; border: none;"> <tr> <td style="width: 10%;">Matrix</td> <td style="width: 10%;">Water</td> <td style="width: 10%;">Soil</td> <td style="width: 10%;">Liquid</td> <td style="width: 10%;">Sludge</td> <td style="width: 10%;">Solid</td> <td style="width: 10%;">Cassette</td> <td style="width: 10%;">Tube</td> <td style="width: 10%;">Bulk</td> <td style="width: 10%;">Badge</td> <td style="width: 10%;">Food</td> <td style="width: 10%;">Other</td> </tr> <tr> <td>:</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table>	Matrix	Water	Soil	Liquid	Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Other	:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Matrix	Water	Soil	Liquid	Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Other																		
:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>																		
9.	Sample(s) were received in appropriate container(s).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																								
10.	Sample(s) were received with proper preservative	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>																								
11.	All samples were logged or labeled.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																								
12.	Sample ID labels match C-O-C ID's	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																								
13.	Bottle count on C-O-C matches bottles found.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																								
14.	Sample volume is sufficient for analyses requested.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																								
15.	Samples were received within the hold time.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																								
16.	VOA vials completely filled.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>																								
17.	Sample accepted.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																								
Comments : Include actions taken to resolve discrepancies/problem:																													
Other = Product																													

Received by : CCripe

Check in by/date : CCripe / 01/29/2014