Date of Report: 11/25/2015

Jennifer Brady

E & B Natural Resources Management Corp. 1600 Norris Road Bakersfield, CA 93308

Client Project: GIG Excavation

BCL Project: GIG

BCL Work Order: 1530059

Invoice ID:

Sincerely,

Enclosed are the results of analyses for samples received by the laboratory on 11/24/2015. If you have any questions concerning this report, please feel free to contact me.

Contact Person: Kerrie Vaughan

Authorized Signature

Client Services

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

Report ID: 1000421875



#### **Table of Contents**

Sampl	le Information	
•	Laboratory / Client Sample Cross Reference	3
Sampl	le Results	
- wp.	1530059-01 - SW26-d15.0 Excavation Sidewall Samples	
	Draft: Total Petroleum Hydrocarbons	6
	1530059-02 - SW27-d11.0 Excavation Sidewall Samples	
	Draft: Total Petroleum Hydrocarbons	7
	1530059-03 - SW28-d6.0 Excavation Sidewall Samples	
	Draft: Total Petroleum Hydrocarbons	8
	1530059-04 - SW29-d9.5 Excavation Sidewall Samples	
	Draft: Total Petroleum Hydrocarbons	9
	1530059-05 - SW30-d11.5 Excavation Sidewall Samples	
	Draft: Total Petroleum Hydrocarbons	10
	1530059-06 - SW31-d7.0 Excavation Sidewall Samples	
	Draft: Total Petroleum Hydrocarbons	11
	1530059-07 - SW32-d12.0 Excavation Sidewall Samples	
	Draft: Total Petroleum Hydrocarbons	12
	1530059-08 - SW33-d9.0 Excavation Sidewall Samples	
	Draft: Total Petroleum Hydrocarbons	13
	1530059-09 - SW34-d8.5 Excavation Sidewall Samples	
	Draft: Total Petroleum Hydrocarbons	14
	1530059-10 - SW35-d5.5 Excavation Sidewall Samples	
	Draft: Total Petroleum Hydrocarbons	15
	1530059-11 - SW36-d8.0 Excavation Sidewall Samples	
	Draft: Total Petroleum Hydrocarbons	16
	1530059-12 - SW37-d5.0 Excavation Sidewall Samples	
	Draft: Total Petroleum Hydrocarbons	17
	1530059-13 - SW38-d7.5 Excavation Sidewall Samples	
	Draft: Total Petroleum Hydrocarbons	18
	1530059-14 - SW39-d5.5 Excavation Sidewall Samples	
	Draft: Total Petroleum Hydrocarbons	19
	1530059-15 - SW40-d9.0 Sidewalls	
	Draft: Total Petroleum Hydrocarbons	20
	1530059-16 - SW41-d11.5 Sidewalls	
	Draft: Total Petroleum Hydrocarbons	21
	1530059-17 - XB4-d15.0 Sidewalls	
	Draft: Total Petroleum Hydrocarbons	22
	1530059-18 - XB5-d14.0 Excavation Bottom	
	Draft: Total Petroleum Hydrocarbons	23
	1530059-19 - XB6-d14.5 Excavation Bottom	
	Draft: Total Petroleum Hydrocarbons	24
	1530059-20 - XB7-d12.0 Excavation Bottom	
	Draft: Total Petroleum Hydrocarbons	25
Quality	y Control Reports	
	Draft: Total Petroleum Hydrocarbons	
	Method Blank Analysis	26
	Laboratory Control Sample	27
	Precision and Accuracy	28
Notes		
	Notes and Definitions	20

Report ID: 1000421875 Page 2 of 29



1600 Norris Road Bakersfield, CA 93308

11/25/2015 8:33 Reported:

Project: GIG

Project Number: GIG Excavation Project Manager: Jennifer Brady

### **Laboratory / Client Sample Cross Reference**

Laboratory ID	Client Sample Information										
1530059-01	COC Number:		Receive Date:	11/24/2015 08:40							
	Project Number:		Sampling Date:	11/20/2015 14:23							
	Sampling Location:		Sample Depth:								
	Sampling Point:	SW26-d15.0 Excavation Sidewall Samples	Lab Matrix:	Solids							
	Sampled By:	Jeff Monroe	Sample Type:	Soil							
1530059-02	COC Number:		Receive Date:	11/24/2015 08:40							
	Project Number:		Sampling Date:	11/20/2015 00:00							
	Sampling Location:		Sample Depth:								
	Sampling Point:	SW27-d11.0 Excavation Sidewall Samples	Lab Matrix:	Solids							
	Sampled By:	Jeff Monroe	Sample Type:	Soil							
530059-03	COC Number:		Receive Date:	11/24/2015 08:40							
	Project Number:		Sampling Date:	11/20/2015 00:00							
	Sampling Location:		Sample Depth:								
	Sampling Point:	SW28-d6.0 Excavation Sidewall Samples	Lab Matrix:	Solids							
	Sampled By:	Jeff Monroe	Sample Type:	Soil							
1530059-04	COC Number:		Receive Date:	11/24/2015 08:40							
	Project Number:		Sampling Date:	11/20/2015 00:00							
	Sampling Location:		Sample Depth:								
	Sampling Point:	SW29-d9.5 Excavation Sidewall Samples	Lab Matrix:	Solids							
	Sampled By:	Jeff Monroe	Sample Type:	Soil							
1530059-05	COC Number:		Receive Date:	11/24/2015 08:40							
	Project Number:	<del></del>	Sampling Date:	11/20/2015 15:01							
	Sampling Location:		Sample Depth:								
	Sampling Point:	SW30-d11.5 Excavation Sidewall Samples	Lab Matrix:	Solids							
	Sampled By:	Jeff Monroe	Sample Type:	Soil							
1530059-06	COC Number:		Receive Date:	11/24/2015 08:40							
	Project Number:	<del></del>	Sampling Date:	11/20/2015 00:00							
	Sampling Location:		Sample Depth:								
	Sampling Point:	SW31-d7.0 Excavation Sidewall Samples	Lab Matrix:	Solids							
	Sampled By:	Jeff Monroe	Sample Type:	Soil							
530059-07	COC Number:		Receive Date:	11/24/2015 08:40							
	Project Number:		Sampling Date:	11/20/2015 00:00							
	Sampling Location:	<del></del>	Sample Depth:								
	Sampling Point:	SW32-d12.0 Excavation Sidewall Samples	Lab Matrix:	Solids							
	Sampled By:	Jeff Monroe	Sample Type:	Soil							

Report ID: 1000421875 Page 3 of 29



1600 Norris Road Bakersfield, CA 93308

11/25/2015 8:33 Reported:

Project: GIG

Project Number: GIG Excavation Project Manager: Jennifer Brady

### **Laboratory / Client Sample Cross Reference**

Laboratory ID	Client Sample Informati	on		
1530059-08	COC Number:		Receive Date:	11/24/2015 08:40
	Project Number:		Sampling Date:	11/20/2015 00:00
	Sampling Location:		Sample Depth:	
	Sampling Point:	SW33-d9.0 Excavation Sidewall Samples	Lab Matrix:	Solids
	Sampled By:	Jeff Monroe	Sample Type:	Soil
530059-09	COC Number:		Receive Date:	11/24/2015 08:40
	Project Number:		Sampling Date:	11/20/2015 00:00
	Sampling Location:		Sample Depth:	
	Sampling Point:	SW34-d8.5 Excavation Sidewall Samples	Lab Matrix:	Solids
	Sampled By:	Jeff Monroe	Sample Type:	Soil
530059-10	COC Number:		Receive Date:	11/24/2015 08:40
	Project Number:		Sampling Date:	11/23/2015 14:23
	Sampling Location:		Sample Depth:	
	Sampling Point:	SW35-d5.5 Excavation Sidewall Samples	Lab Matrix:	Solids
	Sampled By:	Jeff Monroe	Sample Type:	Soil
1530059-11	COC Number:		Receive Date:	11/24/2015 08:40
	Project Number:		Sampling Date:	11/20/2015 14:34
	Sampling Location:		Sample Depth:	
	Sampling Point:	SW36-d8.0 Excavation Sidewall Samples	Lab Matrix:	Solids
	Sampled By:	Jeff Monroe	Sample Type:	Soil
1530059-12	COC Number:		Receive Date:	11/24/2015 08:40
	Project Number:		Sampling Date:	11/23/2015 00:00
	Sampling Location:		Sample Depth:	
	Sampling Point:	SW37-d5.0 Excavation Sidewall Samples	Lab Matrix:	Solids
	Sampled By:	Jeff Monroe	Sample Type:	Soil
1530059-13	COC Number:		Receive Date:	11/24/2015 08:40
	Project Number:		Sampling Date:	11/23/2015 00:00
	Sampling Location:		Sample Depth:	
	Sampling Point:	SW38-d7.5 Excavation Sidewall Samples	Lab Matrix:	Solids
	Sampled By:	Jeff Monroe	Sample Type:	Soil
530059-14	COC Number:		Receive Date:	11/24/2015 08:40
	Project Number:		Sampling Date:	11/23/2015 00:00
	Sampling Location:	<del></del>	Sample Depth:	
	Sampling Point:	SW39-d5.5 Excavation Sidewall Samples	Lab Matrix:	Solids
	Sampled By:	Jeff Monroe	Sample Type:	Soil

Report ID: 1000421875 Page 4 of 29



1600 Norris Road Bakersfield, CA 93308

11/25/2015 8:33 Reported:

Project: GIG

Project Number: GIG Excavation Project Manager: Jennifer Brady

### **Laboratory / Client Sample Cross Reference**

Laboratory ID	Client Sample Informati	on		
1530059-15	COC Number:		Receive Date:	11/24/2015 08:40
	Project Number:		Sampling Date:	11/23/2015 00:00
	Sampling Location:		Sample Depth:	
	Sampling Point:	SW40-d9.0 Sidewalls	Lab Matrix:	Solids
	Sampled By:	Jeff Monroe	Sample Type:	Soil
1530059-16	COC Number:		Receive Date:	11/24/2015 08:40
	Project Number:		Sampling Date:	11/23/2015 00:00
	Sampling Location:		Sample Depth:	
	Sampling Point:	SW41-d11.5 Sidewalls	Lab Matrix:	Solids
	Sampled By:	Jeff Monroe	Sample Type:	Soil
1530059-17	COC Number:		Receive Date:	11/24/2015 08:40
	Project Number:		Sampling Date:	11/23/2015 17:49
	Sampling Location:		Sample Depth:	
	Sampling Point:	XB4-d15.0 Sidewalls	Lab Matrix:	Solids
	Sampled By:	Jeff Monroe	Sample Type:	Soil
1530059-18	COC Number:		Receive Date:	11/24/2015 08:40
	Project Number:		Sampling Date:	11/23/2015 00:00
	Sampling Location:		Sample Depth:	
	Sampling Point:	XB5-d14.0 Excavation Bottom	Lab Matrix:	Solids
	Sampled By:	Jeff Monroe	Sample Type:	Soil
1530059-19	COC Number:		Receive Date:	11/24/2015 08:40
	Project Number:		Sampling Date:	11/23/2015 00:00
	Sampling Location:		Sample Depth:	
	Sampling Point:	XB6-d14.5 Excavation Bottom	Lab Matrix:	Solids
	Sampled By:	Jeff Monroe	Sample Type:	Soil
1530059-20	COC Number:		Receive Date:	11/24/2015 08:40
	Project Number:		Sampling Date:	11/23/2015 00:00
	Sampling Location:		Sample Depth:	
	Sampling Point:	XB7-d12.0 Excavation Bottom	Lab Matrix:	Solids
	Sampled By:	Jeff Monroe	Sample Type:	Soil

Report ID: 1000421875 Page 5 of 29



1600 Norris Road Bakersfield, CA 93308 Reported: 11/25/2015 8:33

Project: GIG

Project Number: GIG Excavation Project Manager: Jennifer Brady

# **Draft: Total Petroleum Hydrocarbons**

BCL Sample ID:	1530059-01	Client Sampl	Client Sample Name: SW26-d15.0 Excavation Sidewall Samples, 11/20/2015 2:23:00PM, Jeff Monroe							
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run#	
TPH - Gasoline		ND	mg/kg	20	5.0	EPA-8015B/FFP	ND		1	
TPH - Diesel (FFP)		ND	mg/kg	10	1.2	EPA-8015B/FFP	ND		1	
TPH - Motor Oil		ND	mg/kg	20	6.5	EPA-8015B/FFP	ND		1	
Tetracosane (Surrogat	re)	80.0	%	20 - 145 (LC	CL - UCL)	EPA-8015B/FFP			1	

			Run					
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8015B/FFP	11/24/15	11/24/15 17:33	MWB	GC-2	1.007	BYK2307	

Report ID: 1000421875 Page 6 of 29

1600 Norris Road Bakersfield, CA 93308 Reported: 11/25/2015 8:33

Project: GIG

Project Number: GIG Excavation Project Manager: Jennifer Brady

# **Draft: Total Petroleum Hydrocarbons**

BCL Sample ID:	1530059-02	Client Sampl	Client Sample Name: SW27-d11.0 Excavation Sidewall Samples, 11/20/2015 12:00:00AM, Jeff Monroe							
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run#	
TPH - Gasoline		ND	mg/kg	20	5.0	EPA-8015B/FFP	ND		1	
TPH - Diesel (FFP)		ND	mg/kg	10	1.2	EPA-8015B/FFP	ND		1	
TPH - Motor Oil		ND	mg/kg	20	6.5	EPA-8015B/FFP	ND		1	
Tetracosane (Surrogat	re)	95.3	%	20 - 145 (LC	CL - UCL)	EPA-8015B/FFP			1	

			Run				_	
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8015B/FFP	11/24/15	11/24/15 17:56	MWB	GC-2	1	BYK2307	

Report ID: 1000421875 Page 7 of 29

11/25/2015 8:33 Reported:

Project: GIG

Project Number: GIG Excavation Project Manager: Jennifer Brady

### E & B Natural Resources Management Corp.

1600 Norris Road Bakersfield, CA 93308

### **Draft: Total Petroleum Hydrocarbons**

BCL Sample ID:	1530059-03	Client Sampl	ient Sample Name: SW28-d6.0 Excavation Sidewall Samples, 11/20/2015 12:00:00AM, Jeff Monroe							
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
TPH - Gasoline		ND	mg/kg	20	5.0	EPA-8015B/FFP	ND		1	
TPH - Diesel (FFP)		ND	mg/kg	10	1.2	EPA-8015B/FFP	ND		1	
TPH - Motor Oil		ND	mg/kg	20	6.5	EPA-8015B/FFP	ND		1	
Tetracosane (Surrogate	e)	86.1	%	20 - 145 (LC	L - UCL)	EPA-8015B/FFP			1	

Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8015B/FFP	11/24/15	11/24/15 18:18	MWB	GC-2	1	BYK2307	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com

Report ID: 1000421875 Page 8 of 29

1600 Norris Road Bakersfield, CA 93308

11/25/2015 8:33 Reported:

Project: GIG

Project Number: GIG Excavation Project Manager: Jennifer Brady

### **Draft: Total Petroleum Hydrocarbons**

BCL Sample ID:	1530059-04	Client Sampl	ent Sample Name: SW29-d9.5 Excavation Sidewall Samples, 11/20/2015 12:00:00AM, Jeff Monroe							
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
TPH - Gasoline		ND	mg/kg	20	5.0	EPA-8015B/FFP	ND		1	
TPH - Diesel (FFP)		ND	mg/kg	10	1.2	EPA-8015B/FFP	ND		1	
TPH - Motor Oil		ND	mg/kg	20	6.5	EPA-8015B/FFP	ND		1	
Tetracosane (Surrogate	e)	79.6	%	20 - 145 (LC	L - UCL)	EPA-8015B/FFP			1	

			Run			QC		
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8015B/FFP	11/24/15	11/24/15 19:26	MWB	GC-2	1	BYK2307	

Report ID: 1000421875 Page 9 of 29

Project: GIG

Project Number: GIG Excavation Project Manager: Jennifer Brady

E & B Natural Resources Management Corp.

1600 Norris Road Bakersfield, CA 93308

# **Draft: Total Petroleum Hydrocarbons**

BCL Sample ID:	1530059-05	Client Sampl	e Name:	SW30-d11.5	SW30-d11.5 Excavation Sidewall Samples, 11/20/2015 3:01:00PM, Jeff Monroe						
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run#		
TPH - Gasoline		ND	mg/kg	20	5.0	EPA-8015B/FFP	ND		1		
TPH - Diesel (FFP)		ND	mg/kg	10	1.2	EPA-8015B/FFP	ND		1		
TPH - Motor Oil		ND	mg/kg	20	6.5	EPA-8015B/FFP	ND		1		
Tetracosane (Surrogat	e)	74.5	%	20 - 145 (LC	CL - UCL)	EPA-8015B/FFP			1		

			Run					
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8015B/FFP	11/24/15	11/24/15 19:49	MWB	GC-2	0.987	BYK2307	

Report ID: 1000421875 Page 10 of 29

11/25/2015 8:33 Reported:

Project: GIG

Project Number: GIG Excavation Project Manager: Jennifer Brady

E & B Natural Resources Management Corp.

1600 Norris Road Bakersfield, CA 93308

### **Draft: Total Petroleum Hydrocarbons**

BCL Sample ID:	1530059-06	Client Sampl	Sample Name: SW31-d7.0 Excavation Sidewall Samples, 11/20/2015 12:00:00AM, Jeff Monroe							
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run#	
TPH - Gasoline		ND	mg/kg	20	5.0	EPA-8015B/FFP	ND		1	
TPH - Diesel (FFP)		11	mg/kg	10	1.2	EPA-8015B/FFP	ND	A52	1	
TPH - Motor Oil		140	mg/kg	20	6.5	EPA-8015B/FFP	ND		1	
Tetracosane (Surrogate	e)	80.4	%	20 - 145 (LC	CL - UCL)	EPA-8015B/FFP			1	

			Run		QC			
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8015B/FFP	11/24/15	11/24/15 20:12	MWB	GC-2	0.993	BYK2307	

Report ID: 1000421875 Page 11 of 29

1600 Norris Road Bakersfield, CA 93308 Reported: 11/25/2015 8:33

Project: GIG

Project Number: GIG Excavation Project Manager: Jennifer Brady

# **Draft: Total Petroleum Hydrocarbons**

BCL Sample ID:	1530059-07	Client Sampl	e Name:	SW32-d12.0 Excavation Sidewall Samples, 11/20/2015 12:00:00AM, Jeff Monroe							
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run#		
TPH - Gasoline		ND	mg/kg	20	5.0	EPA-8015B/FFP	ND		1		
TPH - Diesel (FFP)		ND	mg/kg	10	1.2	EPA-8015B/FFP	ND		1		
TPH - Motor Oil		ND	mg/kg	20	6.5	EPA-8015B/FFP	ND		1		
Tetracosane (Surrogat	re)	88.0	%	20 - 145 (LC	CL - UCL)	EPA-8015B/FFP			1		

			Run		QC			
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8015B/FFP	11/24/15	11/24/15 20:57	MWB	GC-2	1.007	BYK2307	

Report ID: 1000421875 Page 12 of 29

1600 Norris Road Bakersfield, CA 93308 Reported: 11/25/2015 8:33

Project: GIG

Project Number: GIG Excavation Project Manager: Jennifer Brady

# **Draft: Total Petroleum Hydrocarbons**

BCL Sample ID:	1530059-08	Client Sampl	e Name:	SW33-d9.0 E	Excavation Sig	dewall Samples, 11/20/2	015 12:00:00AN	M, Jeff Monroe	
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run#
TPH - Gasoline		ND	mg/kg	20	5.0	EPA-8015B/FFP	ND		1
TPH - Diesel (FFP)		ND	mg/kg	10	1.2	EPA-8015B/FFP	ND		1
TPH - Motor Oil		ND	mg/kg	20	6.5	EPA-8015B/FFP	ND		1
Tetracosane (Surrogat	re)	82.9	%	20 - 145 (LC	CL - UCL)	EPA-8015B/FFP			1

			Run		QC			
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8015B/FFP	11/24/15	11/24/15 21:19	MWB	GC-2	1.003	BYK2307	

Report ID: 1000421875 Page 13 of 29

Project: GIG

Project Number: GIG Excavation Project Manager: Jennifer Brady

E & B Natural Resources Management Corp.

1600 Norris Road Bakersfield, CA 93308

# **Draft: Total Petroleum Hydrocarbons**

BCL Sample ID:	1530059-09	Client Sampl	e Name:	e: SW34-d8.5 Excavation Sidewall Samples, 11/20/2015 12:00:00AM, Jeff Monroe						
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run#	
TPH - Gasoline		ND	mg/kg	20	5.0	EPA-8015B/FFP	ND		1	
TPH - Diesel (FFP)		15	mg/kg	10	1.2	EPA-8015B/FFP	ND	A52	1	
TPH - Motor Oil		65	mg/kg	20	6.5	EPA-8015B/FFP	ND		1	
Tetracosane (Surrogat	e)	75.1	%	20 - 145 (LC	CL - UCL)	EPA-8015B/FFP			1	

			Run		QC			
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8015B/FFP	11/24/15	11/24/15 21:42	MWB	GC-2	1.017	BYK2307	

Report ID: 1000421875 Page 14 of 29

Project: GIG

Project Number: GIG Excavation Project Manager: Jennifer Brady

E & B Natural Resources Management Corp.

1600 Norris Road Bakersfield, CA 93308

# **Draft: Total Petroleum Hydrocarbons**

BCL Sample ID:	1530059-10	Client Sampl	e Name:	SW35-d5.5 E	Excavation Sig	lewall Samples, 11/23/2	015 2:23:00PM	I, Jeff Monroe	
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run#
TPH - Gasoline		ND	mg/kg	20	5.0	EPA-8015B/FFP	ND		1
TPH - Diesel (FFP)		ND	mg/kg	10	1.2	EPA-8015B/FFP	ND		1
TPH - Motor Oil		ND	mg/kg	20	6.5	EPA-8015B/FFP	ND		1
Tetracosane (Surrogat	re)	66.4	%	20 - 145 (LC	CL - UCL)	EPA-8015B/FFP			1

			Run		QC			
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8015B/FFP	11/24/15	11/24/15 22:05	MWB	GC-2	0.993	BYK2307	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com

Report ID: 1000421875

Project: GIG

Project Number: GIG Excavation Project Manager: Jennifer Brady

E & B Natural Resources Management Corp.

1600 Norris Road Bakersfield, CA 93308

# **Draft: Total Petroleum Hydrocarbons**

BCL Sample ID:	1530059-11	Client Sampl	e Name:	SW36-d8.0 Excavation Sidewall Samples, 11/20/2015 2:34:00PM, Jeff Monroe						
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
TPH - Gasoline		ND	mg/kg	20	5.0	EPA-8015B/FFP	ND		1	
TPH - Diesel (FFP)		ND	mg/kg	10	1.2	EPA-8015B/FFP	ND		1	
TPH - Motor Oil		ND	mg/kg	20	6.5	EPA-8015B/FFP	ND		1	
Tetracosane (Surrogat	e)	149	%	20 - 145 (LC	CL - UCL)	EPA-8015B/FFP		S09	1	

			Run					
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8015B/FFP	11/24/15	11/24/15 22:27	MWB	GC-2	0.993	BYK2307	

Report ID: 1000421875 Page 16 of 29

1600 Norris Road Bakersfield, CA 93308 Reported: 11/25/2015 8:33

Project: GIG

Project Number: GIG Excavation Project Manager: Jennifer Brady

# **Draft: Total Petroleum Hydrocarbons**

BCL Sample ID:	1530059-12	Client Sampl	e Name:	SW37-d5.0 Excavation Sidewall Samples, 11/23/2015 12:00:00AM, Jeff Monroe						
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run#	
TPH - Gasoline		ND	mg/kg	4600	1200	EPA-8015B/FFP	ND	A01	1	
TPH - Diesel (FFP)		16000	mg/kg	2300	280	EPA-8015B/FFP	ND	A01	1	
TPH - Motor Oil		16000	mg/kg	4600	1500	EPA-8015B/FFP	ND	A01	1	
Tetracosane (Surrogat	e)	71.7	%	20 - 145 (LC	L - UCL)	EPA-8015B/FFP		A01	1	

			Run					
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8015B/FFP	11/24/15	11/24/15 15:08	MWB	GC-2	230.77	BYK2307	

Report ID: 1000421875 Page 17 of 29

11/25/2015 8:33 Reported:

Project: GIG

Project Number: GIG Excavation Project Manager: Jennifer Brady

E & B Natural Resources Management Corp.

1600 Norris Road Bakersfield, CA 93308

### **Draft: Total Petroleum Hydrocarbons**

BCL Sample ID:	1530059-13	Client Sampl	e Name:	SW38-d7.5 E	SW38-d7.5 Excavation Sidewall Samples, 11/23/2015 12:00:00AM, Jeff Monroe						
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #		
TPH - Gasoline		ND	mg/kg	20	5.0	EPA-8015B/FFP	ND		1		
TPH - Diesel (FFP)		ND	mg/kg	10	1.2	EPA-8015B/FFP	ND		1		
TPH - Motor Oil		ND	mg/kg	20	6.5	EPA-8015B/FFP	ND		1		
Tetracosane (Surrogate	e)	63.0	%	20 - 145 (LC	L - UCL)	EPA-8015B/FFP			1		

			Run					
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8015B/FFP	11/24/15	11/24/15 23:12	MWB	GC-2	1.014	BYK2307	

Report ID: 1000421875 Page 18 of 29

1600 Norris Road Bakersfield, CA 93308 Reported: 11/25/2015 8:33

Project: GIG

Project Number: GIG Excavation Project Manager: Jennifer Brady

# **Draft: Total Petroleum Hydrocarbons**

BCL Sample ID:	1530059-14	Client Sampl	e Name:	SW39-d5.5 E	Excavation Sig	lewall Samples, 11/23/2	015 12:00:00AN	M, Jeff Monroe	
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Gasoline		ND	mg/kg	20	5.0	EPA-8015B/FFP	ND		1
TPH - Diesel (FFP)		ND	mg/kg	10	1.2	EPA-8015B/FFP	ND		1
TPH - Motor Oil		ND	mg/kg	20	6.5	EPA-8015B/FFP	ND		1
Tetracosane (Surrogat	e)	67.7	%	20 - 145 (LC	CL - UCL)	EPA-8015B/FFP			1

			Run					
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8015B/FFP	11/24/15	11/25/15 00:20	MWB	GC-2	0.990	BYK2307	

Report ID: 1000421875 Page 19 of 29



1600 Norris Road Bakersfield, CA 93308 Reported: 11/25/2015 8:33

Project: GIG

Project Number: GIG Excavation Project Manager: Jennifer Brady

# **Draft: Total Petroleum Hydrocarbons**

BCL Sample ID:	1530059-15	Client Sampl	e Name:	SW40-d9	SW40-d9.0 Sidewalls, 11/23/2015 12:00:00AM, Jeff Monroe						
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #		
TPH - Gasoline		ND	mg/kg	20	5.0	EPA-8015B/FFP	ND		1		
TPH - Diesel (FFP)		ND	mg/kg	10	1.2	EPA-8015B/FFP	ND		1		
TPH - Motor Oil		ND	mg/kg	20	6.5	EPA-8015B/FFP	ND		1		
Tetracosane (Surrogat	e)	75.6	%	20 - 145 (LC	CL - UCL)	EPA-8015B/FFP			1		

			Run					
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8015B/FFP	11/24/15	11/24/15 22:50	MWB	GC-2	0.997	BYK2307	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com

Report ID: 1000421875

1600 Norris Road Bakersfield, CA 93308 Reported: 11/25/2015 8:33

Project: GIG

Project Number: GIG Excavation Project Manager: Jennifer Brady

# **Draft: Total Petroleum Hydrocarbons**

BCL Sample ID:	1530059-16	Client Sampl	e Name:	SW41-d1	1.5 Sidewa	eff Monroe			
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run#
TPH - Gasoline		ND	mg/kg	20	5.0	EPA-8015B/FFP	ND		1
TPH - Diesel (FFP)		ND	mg/kg	10	1.2	EPA-8015B/FFP	ND		1
TPH - Motor Oil		ND	mg/kg	20	6.5	EPA-8015B/FFP	ND		1
Tetracosane (Surrogat	re)	73.9	%	20 - 145 (LC	CL - UCL)	EPA-8015B/FFP			1

			Run					
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8015B/FFP	11/24/15	11/25/15 01:05	MWB	GC-2	0.990	BYK2307	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com

Report ID: 1000421875 Page 21 of 29

Project: GIG

Project Number: GIG Excavation Project Manager: Jennifer Brady

E & B Natural Resources Management Corp.

1600 Norris Road Bakersfield, CA 93308

# **Draft: Total Petroleum Hydrocarbons**

BCL Sample ID:	1530059-17	Client Sampl	e Name:	XB4-d15.	0 Sidewalls	s, 11/23/2015 5:4	9:00PM, Jeff	Monroe	
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run#
TPH - Gasoline		ND	mg/kg	20	5.0	EPA-8015B/FFP	ND		1
TPH - Diesel (FFP)		ND	mg/kg	10	1.2	EPA-8015B/FFP	ND		1
TPH - Motor Oil		ND	mg/kg	20	6.5	EPA-8015B/FFP	ND		1
Tetracosane (Surrogat	te)	78.8	%	20 - 145 (LC	CL - UCL)	EPA-8015B/FFP			1

			Run				QC	
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8015B/FFP	11/24/15	11/25/15 00:43	MWB	GC-2	1.014	BYK2307	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com

Report ID: 1000421875

Project: GIG

Project Number: GIG Excavation Project Manager: Jennifer Brady

E & B Natural Resources Management Corp.

1600 Norris Road Bakersfield, CA 93308

# **Draft: Total Petroleum Hydrocarbons**

BCL Sample ID:	1530059-18	Client Sampl	e Name:	XB5-d14.	0 Excavation	on Bottom, 11/23/2	015 12:00:0	00AM, Jeff Monroe	
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Gasoline		ND	mg/kg	20	5.0	EPA-8015B/FFP	ND		1
TPH - Diesel (FFP)		ND	mg/kg	10	1.2	EPA-8015B/FFP	ND		1
TPH - Motor Oil		ND	mg/kg	20	6.5	EPA-8015B/FFP	ND		1
Tetracosane (Surrogat	e)	74.9	%	20 - 145 (LC	CL - UCL)	EPA-8015B/FFP			1

			Run				QC	
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8015B/FFP	11/24/15	11/25/15 02:59	MWB	GC-2	0.990	BYK2307	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com

Report ID: 1000421875

Project: GIG

Project Number: GIG Excavation Project Manager: Jennifer Brady

E & B Natural Resources Management Corp.

1600 Norris Road Bakersfield, CA 93308

# **Draft: Total Petroleum Hydrocarbons**

BCL Sample ID:	1530059-19	Client Sampl	e Name:	XB6-d14.	5 Excavation	on Bottom, 11/23/2	015 12:00:0	00AM, Jeff Monroe	
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Gasoline		ND	mg/kg	20	5.0	EPA-8015B/FFP	ND		1
TPH - Diesel (FFP)		ND	mg/kg	10	1.2	EPA-8015B/FFP	ND		1
TPH - Motor Oil		ND	mg/kg	20	6.5	EPA-8015B/FFP	ND		1
Tetracosane (Surrogat	te)	86.5	%	20 - 145 (LC	CL - UCL)	EPA-8015B/FFP			1

			Run					
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8015B/FFP	11/24/15	11/25/15 03:21	MWB	GC-2	1.010	BYK2307	

Report ID: 1000421875 Page 24 of 29

Project: GIG

Project Number: GIG Excavation Project Manager: Jennifer Brady

E & B Natural Resources Management Corp.

1600 Norris Road Bakersfield, CA 93308

# **Draft: Total Petroleum Hydrocarbons**

BCL Sample ID:	1530059-20	Client Sampl	e Name:	XB7-d12.	XB7-d12.0 Excavation Bottom, 11/23/2015 12:00:00AM, Jeff Monroe					
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
TPH - Gasoline		ND	mg/kg	20	5.0	EPA-8015B/FFP	ND		1	
TPH - Diesel (FFP)		ND	mg/kg	10	1.2	EPA-8015B/FFP	ND		1	
TPH - Motor Oil		ND	mg/kg	20	6.5	EPA-8015B/FFP	ND		1	
Tetracosane (Surrogat	e)	70.5	%	20 - 145 (LC	CL - UCL)	EPA-8015B/FFP			1	

			Run				QC	
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8015B/FFP	11/24/15	11/25/15 03:44	MWB	GC-2	1.010	BYK2307	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com

Report ID: 1000421875 Page 25 of 29



1600 Norris Road Bakersfield, CA 93308

11/25/2015 8:33 Reported:

Project: GIG

Project Number: GIG Excavation Project Manager: Jennifer Brady

#### **Draft: Total Petroleum Hydrocarbons**

#### **Quality Control Report - Method Blank Analysis**

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYK2307						
TPH - Gasoline	BYK2307-BLK1	ND	mg/kg	20	5.0	
TPH - Diesel (FFP)	BYK2307-BLK1	ND	mg/kg	10	1.2	
TPH - Motor Oil	BYK2307-BLK1	ND	mg/kg	20	6.5	
Tetracosane (Surrogate)	BYK2307-BLK1	84.3	%	20 - 14	5 (LCL - UCL)	

4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com Report ID: 1000421875

Page 26 of 29



1600 Norris Road Bakersfield, CA 93308 Reported: 11/25/2015 8:33

Project: GIG

Project Number: GIG Excavation
Project Manager: Jennifer Brady

#### **Draft: Total Petroleum Hydrocarbons**

#### **Quality Control Report - Laboratory Control Sample**

				Spike		Percent	Control Limits Percent Lab				
Constituent	QC Sample ID	Туре	Result	Level	Units	Recovery	RPD	Recovery	RPD	Quals	
QC Batch ID: BYK2307											
TPH - Diesel (FFP)	BYK2307-BS1	LCS	70.771	83.056	mg/kg	85.2		64 - 124			
Tetracosane (Surrogate)	BYK2307-BS1	LCS	2.6736	3.3223	mg/kg	80.5		20 - 145			

Report ID: 1000421875 4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com Page 27 of 29



1600 Norris Road Bakersfield, CA 93308 Reported: 11/25/2015 8:33

Project: GIG

Project Number: GIG Excavation
Project Manager: Jennifer Brady

### **Draft: Total Petroleum Hydrocarbons**

#### **Quality Control Report - Precision & Accuracy**

									Control Limits			
		Source	Source		Spike			Percent		Percent	Lab	
Constituent	Туре	Sample ID	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery	Quals	
QC Batch ID: BYK2307	Use	d client samp	le: N									
TPH - Diesel (FFP)	MS	1323260-83	ND	69.672	82.237	mg/kg		84.7		52 - 131		
	MSD	1323260-83	ND	74.633	83.333	mg/kg	6.9	89.6	30	52 - 131		
Tetracosane (Surrogate)	MS	1323260-83	ND	2.7030	3.2895	mg/kg		82.2		20 - 145		
	MSD	1323260-83	ND	2.8000	3.3333	mg/kg	3.5	84.0		20 - 145		

Report ID: 1000421875 4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com Page 28 of 29

E & B Natural Resources Management Corp. Reported: 11/25/2015 8:33

1600 Norris Road Project: GIG

Bakersfield, CA 93308 Project Number: GIG Excavation
Project Manager: Jennifer Brady

#### **Notes And Definitions**

MDL Method Detection Limit
ND Analyte Not Detected

PQL Practical Quantitation Limit

A01 Detection and quantitation limits are raised due to sample dilution.

A52 Chromatogram not typical of diesel.

S09 The surrogate recovery on the sample for this compound was not within the control limits.

Report ID: 1000421875 4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com Page 29 of 29