ExxonMobil
Environmental Services Company
4096 Piedmont Avenue #194
Oakland, California 94611
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Jennifer C. Sedlachek
Project Manager

ExxonMobil

RECEIVED
By Alameda County Environmental Health 9:24 am, Nov 02, 2015

July 29, 2015

Ms. Karel Detterman
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Room 250
Alameda, California 94502-6577

RE: Former Mobil RAS #99105/6301 San Pablo Avenue, Oakland, California.

Dear Ms. Detterman:

Attached for your review and comment is a copy of the letter report entitled ***Groundwater and Soil Vapor Sampling Reporting, Second Quarter 2015***, dated July 29, 2015, for the above-referenced site. The report was prepared by Cardno, of Petaluma, California, and details activities at the subject site.

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge.

If you have any questions or comments, please contact me at 510.547.8196.

Sincerely,

Jennifer C. Sedlachek
Project Manager

Attachment: Cardno's ***Groundwater and Soil Vapor Sampling Reporting, Second Quarter 2015***, dated July 29, 2015

cc: w/ attachment
Mr. Leroy Griffin, Oakland Fire Department
Messrs. On Dan and Nathan Lam

w/o attachment
Mr. Greg Gurss, Cardno

July 29, 2015
Cardno 2783C.Q152

Cardno

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Ms. Jennifer C. Sedlachek
ExxonMobil Environmental Services Company
4096 Piedmont Avenue, #194
Oakland, California 94611

SUBJECT **Groundwater and Soil Vapor Monitoring Report, Second Quarter 2015**
Former Mobil Service Station 99105
6301 San Pablo Avenue, Oakland, California

INTRODUCTION

At the request of ExxonMobil Environmental Services (EMES), on behalf of ExxonMobil Oil Corporation, Cardno performed second quarter 2015 groundwater and soil vapor monitoring and sampling activities at the subject site. Relevant plates, graphs, tables, and appendices are included at the end of this report. Currently, the site operates as an oil change facility.

GROUNDWATER MONITORING AND SAMPLING SUMMARY

Gauging and sampling date:		06/26/15
Wells gauged and sampled:		MW6 through MW8
Presence of NAPL:		None
Groundwater flow direction:		Southwest
Laboratory:		Eurofins Calscience, Inc., Garden Grove, California
Analyses performed:	EPA Method 8015B	TPHd, TPHg
	EPA Method 8260B	BTEX, MTBE, TAME, TBA, DIPE, EDB, 1,2-DCA, ETBE
Waste disposal:	21 gallons purge and decon water delivered to Instrat, Inc. of Rio Vista, California, on 07/02/15	

SOIL VAPOR MONITORING AND SAMPLING SUMMARY

Screening and sampling date:		06/26/15
Wells screened and sampled:		VW2 through VW4
Analyses performed:	EPA Method TO-3	TPHg
	EPA Method TO-15	BTEX, MTBE, Full scan VOCs

RESULTS AND CONCLUSIONS

Dissolved-phase concentrations show overall stable or decreasing trends, with the exception of BTEX concentrations in wells MW7 and MW8, which have only been sampled since August 2014. Dissolved-phase concentrations are limited in extent and adequately delineated:

- Toward the north by former well MW1.
- Toward the northwest by well MW2.
- Toward the west by borings B6 through B8 and AB11.
- Toward the east by well MW6.

PID measurements from the soil vapor samples were consistent with or less than measurements taken in 2014. Additionally, Cardno collected a tedlar bag for laboratory analysis to confirm the PID readings. The results indicated that concentrations at the site remained above ESLs. Cardno was unable to take PID readings or sample wells VW1 or VW5 due to wet conditions in the wells.

RECOMMENDATIONS

Based on the results of Tedlar samples, Cardno does not recommend collecting Summa™ samples at this time. Cardno recommends continued groundwater monitoring and sampling and additional field screening of soil vapor samples during the groundwater sampling events.

Newly-installed wells MW6 through MW8 have now been sampled for four quarters. Cardno recommends incorporating the wells into the semi-annual sampling schedule.

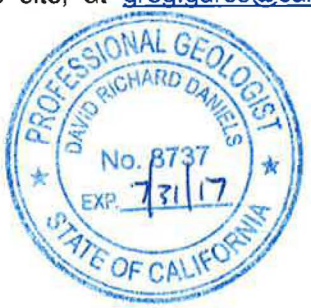
LIMITATIONS

For documents cited that were not generated by Cardno, the data taken from those documents is used "as is" and is assumed to be accurate. Cardno does not guarantee the accuracy of this data and makes no warranties for the referenced work performed nor the inferences or conclusions stated in these documents.

This document and the work performed have been undertaken in good faith, with due diligence and with the expertise, experience, capability, and specialized knowledge necessary to perform the work in a good and workmanlike manner and within all accepted standards pertaining to providers of environmental services in California at the time of investigation. No soil engineering or geotechnical references are implied or should be inferred. The evaluation of the geologic conditions at the site for this investigation is made from a limited number of data points. Subsurface conditions may vary away from these data points.

Please contact Mr. Greg Gurss, Cardno's project manager for this site, at greg.gurss@cardno.com or at (916) 692-3130 with any questions regarding this report.

Sincerely,



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Enclosures:

Acronym List

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Appendix B	Field Data Sheets
Appendix C	Laboratory Analytical Reports
Appendix D	Waste Disposal Documentation

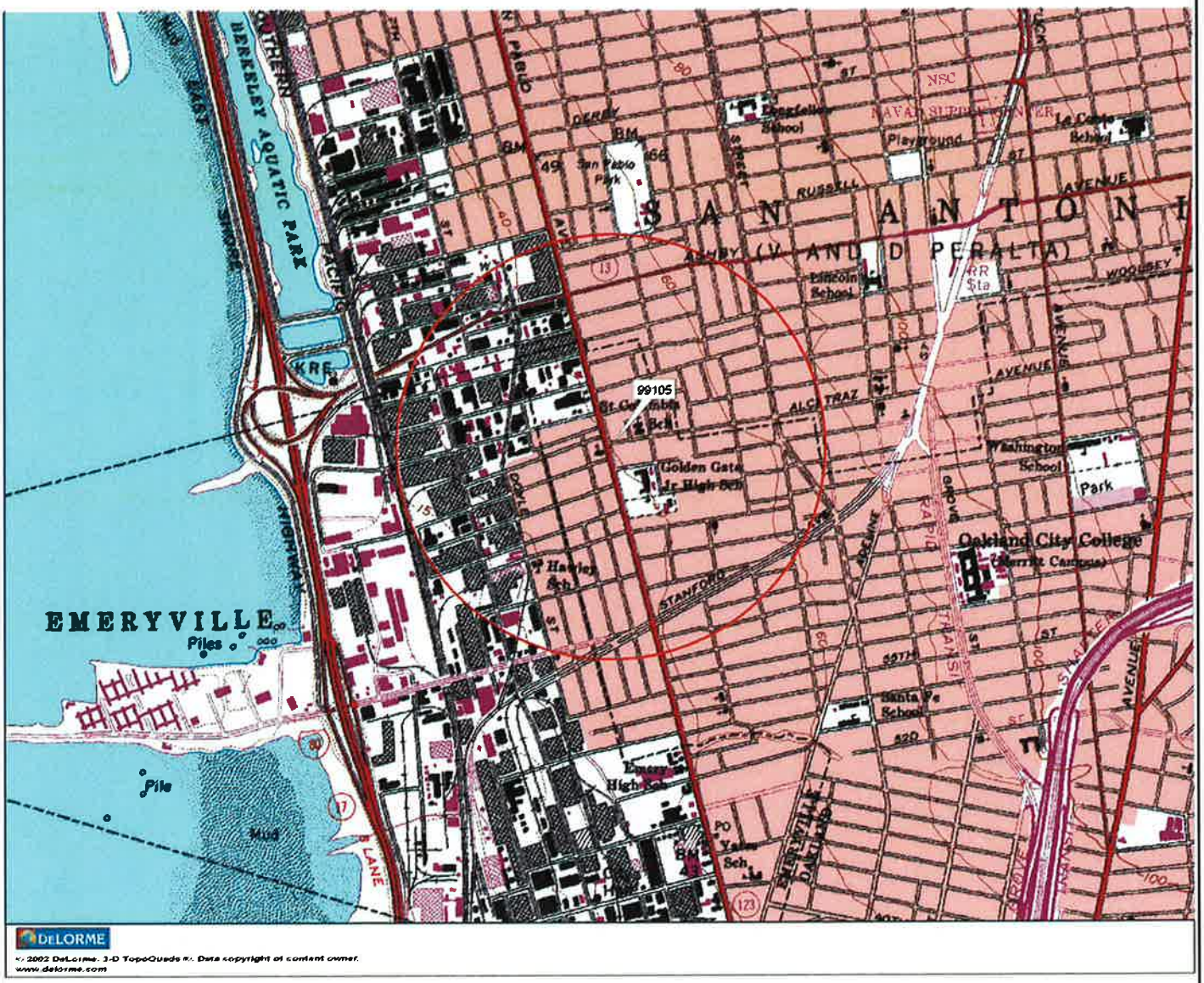
cc: Ms. Karel Detterman, Alameda County Health Care Services Agency, 1131 Harbor Bay Parkway, 2nd Floor, Alameda, California, 94502

Mr. Leroy Griffin, Oakland Fire Department, 250 Frank H. Ogawa, Suite 3341, Oakland, California, 94612

Messrs. On Dan and Nathan Lam, 200 El Dorado Terrace, San Francisco, California, 94112

ACRONYM LIST

µg/L	Micrograms per liter
µs	Microsiemens
1,2-DCA	1,2-dichloroethane
acfm	Actual cubic feet per minute
AS	Air sparge
bgs	Below ground surface
BTEX	Benzene, toluene, ethylbenzene, and total xylenes
CEQA	California Environmental Quality Act
cfm	Cubic feet per minute
COC	Chain of Custody
CPT	Cone Penetration (Penetrometer) Test
DIPE	Di-isopropyl ether
DO	Dissolved oxygen
DOT	Department of Transportation
DPE	Dual-phase extraction
DTW	Depth to water
EDB	1,2-dibromoethane
EPA	Environmental Protection Agency
ESL	Environmental screening level
ETBE	Ethyl tertiary butyl ether
FID	Flame-ionization detector
fpm	Feet per minute
GAC	Granular activated carbon
gpd	Gallons per day
gpm	Gallons per minute
GWPTS	Groundwater pump and treat system
HVOC	Halogenated volatile organic compound
J	Estimated value between MDL and PQL (RL)
LEL	Lower explosive limit
LPC	Liquid-phase carbon
LRP	Liquid-ring pump
LUFT	Leaking underground fuel tank
LUST	Leaking underground storage tank
MCL	Maximum contaminant level
MDL	Method detection limit
mg/kg	Milligrams per kilogram
mg/L	Milligrams per liter
mg/m^3	Milligrams per cubic meter
MPE	Multi-phase extraction
MRL	Method reporting limit
msl	Mean sea level
MTBE	Methyl tertiary butyl ether
MTCA	Model Toxics Control Act
NAI	Natural attenuation indicators
NAPL	Non-aqueous phase liquid
NEPA	National Environmental Policy Act
NGVD	National Geodetic Vertical Datum
NPDES	National Pollutant Discharge Elimination System
O&M	Operations and Maintenance
ORP	Oxidation-reduction potential
OSHA	Occupational Safety and Health Administration
OVA	Organic vapor analyzer
P&ID	Process & Instrumentation Diagram
PAH	Polycyclic aromatic hydrocarbon
PCB	Polychlorinated biphenyl
PCE	Tetrachloroethene or perchloroethylene
PID	Photo-ionization detector
PLC	Programmable logic control
POTW	Publicly owned treatment works
ppmv	Parts per million by volume
PQL	Practical quantitation limit
psi	Pounds per square inch
PVC	Polyvinyl chloride
QA/QC	Quality assurance/quality control
RBSL	Risk-based screening levels
RCRA	Resource Conservation and Recovery Act
RL	Reporting limit
scfm	Standard cubic feet per minute
SSTL	Site-specific target level
STLC	Soluble threshold limit concentration
SVE	Soil vapor extraction
SVOC	Semivolatile organic compound
TAME	Tertiary amyl methyl ether
TBA	Tertiary butyl alcohol
TCE	Trichloroethene
TOC	Top of well casing elevation; datum is msl
TOG	Total oil and grease
TPHd	Total petroleum hydrocarbons as diesel
TPHg	Total petroleum hydrocarbons as gasoline
TPHmo	Total petroleum hydrocarbons as motor oil
TPHs	Total petroleum hydrocarbons as stoddard solvent
TRPH	Total recoverable petroleum hydrocarbons
UCL	Upper confidence level
USCS	Unified Soil Classification System
USGS	United States Geologic Survey
UST	Underground storage tank
VCP	Voluntary Cleanup Program
VOC	Volatile organic compound
VPC	Vapor-phase carbon



FN 2783TOPO

EXPLANATION

1/2-mile radius circle

N

APPROXIMATE SCALE

0 0.5 1 mile

SOURCE:
Modified from a map
provided by
DeLorme 3-D TopoQuads

Cardno
Shaping the Future

SITE VICINITY MAP

FORMER MOBIL SERVICE STATION 99105
6301 San Pablo Avenue
Oakland, California

PROJECT NO.
2783

PLATE
1

Analyte Concentrations in ug/L
Sampled June 26, 2015

Total Petroleum Hydrocarbons as diesel
Total Petroleum Hydrocarbons as gasoline
Benzene
Methyl Tertiary Butyl Ether

< Less than the Stated Laboratory Reporting Limit
ug/L Micrograms per Liter
g Chromatographic pattern does not match that of the specified standard.

APPROXIMATE SCALE
0 30 60 Feet

FN 2783 15 2QTR QM

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Shaping the Future

SELECT ANALTYICAL RESULTS
June 26, 2015

FORMER MOBIL SERVICE STATION 99105
6301 San Pablo Avenue
Oakland, California

EXPLANATION
MW8 Groundwater Monitoring Well
MW4 Destroyed Groundwater Monitoring Well
MP6 Destroyed Observation Well
AB13 Soil Boring

PROJECT NO.
2783

PLATE
2

APPROXIMATE SCALE

0 30 60 Feet

FN 2783 15 2QTR QM

Cardno
Shaping the Future

GROUNDWATER ELEVATION MAP
June 26, 2015

FORMER MOBIL SERVICE STATION 99105
6301 San Pablo Avenue
Oakland, California

EXPLANATION

- MW8 — Groundwater Monitoring Well
- 32.84 — Groundwater elevation in feet; datum is mean sea level
- MW4 — Destroyed Groundwater Monitoring Well
- MP6 — Destroyed Observation Well
- 32.5 ----- Line of Equal Groundwater Elevation; datum is mean sea level
- VW5 — Soil Vapor Sampling Well
- AB13 — Soil Boring

PROJECT NO. 2783

PLATE 3

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Mobil Service Station 99105
6301 San Pablo Avenue
Oakland, California

Well ID	Sampling Date		TOC Elev. (feet)	DTW (feet)	GW Elev. (feet)	NAPL (feet)	TPHd (µg/L)	TPHg (µg/L)	MTBE 8020/8021 (µg/L)	MTBE 8240/8260 (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
Environmental Screening Levels, Groundwater is Current or Potential Drinking Water Source (December 2013)														
Table F-1a			---	---	---	---	100	100	5	5	1	40	30	20
MW1	03/14/96		32.79	4.50	28.29	No	**450**	**610**	---	---	0.75	0.54	1.5	**59**
MW1	05/21/96		32.79	5.64	27.15	No	ND	ND	---	---	ND	ND	ND	ND
MW1	08/13/96		32.79	9.76	23.03	No	ND	ND	---	---	ND	ND	ND	ND
MW1	11/08/96		32.79	10.24	22.55	No	ND	ND	ND	---	ND	0.92	ND	2.1
MW1	01/31/97		32.79	3.83	28.96	No	ND	ND	2.6	ND	ND	0.85	ND	ND
MW1	04/22/97		32.79	9.14	23.65	No	ND	ND	ND	---	ND	ND	ND	ND
MW1	07/29/97	a	32.79	10.18	22.61	No	60e	ND	**36**	---	0.84	0.95	ND	1.6
MW1	10/09/97	a	32.79	10.46	22.33	No	56e	ND	ND	---	ND	ND	ND	ND
MW1	01/23/98	a	32.79	3.95	28.84	No	33	ND	ND	---	ND	ND	ND	ND
MW1	04/22/98		32.79	5.33	27.46	No	ND	ND	ND	---	ND	ND	ND	ND
MW1	07/21/98		32.79	9.17	23.62	No	---	ND	ND	---	ND	ND	ND	ND
MW1	10/20/98		32.79	10.41	22.38	No	---	ND	ND	---	ND	ND	ND	ND
MW1	01/27/99		32.79	5.51	27.28	No	---	ND	ND	---	ND	ND	ND	ND
MW1	Apr-99		Destroyed during construction activities.											
MW2	03/14/96		32.80	4.51	28.29	No	**250**	**560**	---	---	**2.0**	0.96	4.3	11
MW2	05/21/96		32.80	5.65	27.15	No	**560**	**730**	---	---	**5.1**	1.4	6.7	5.9
MW2	08/13/96		32.80	10.14	22.66	No	**380b**	**490**	---	---	**25**	3.5	7.2	13
MW2	11/08/96		32.80	10.70	22.10	No	**160d**	**520**	**6.1**	---	**80**	2.7	14	**66**
MW2	01/31/97		32.80	3.84	28.96	No	**130b**	74	ND	---	ND	ND	ND	ND
MW2	04/22/97		32.80	9.61	23.19	No	**430**	**260**	ND	---	**2.7**	ND	2.5	ND
MW2	07/29/97	a	32.80	10.53	22.27	No	**150d**	**320**	ND	---	**28**	1.2	10	ND
MW2	10/09/97	a	32.80	10.87	21.93	No	**160b**	**460**	2.6	---	**43**	2.8	2.0	2.6
MW2	01/23/98	a	32.80	3.75	29.05	No	54	ND	ND	---	ND	ND	ND	ND
MW2	04/22/98		32.80	5.36	27.44	No	**540**	**180**	ND	---	**1.2**	0.3	0.4	ND
MW2	07/21/98		32.80	9.55	23.25	No	---	80	ND	---	**8.9**	2.1	0.6	2.5
MW2	10/20/98		32.80	10.75	22.05	No	---	50	ND	---	0.8	0.7	ND	0.8
MW2	01/27/99		32.80	5.53	27.27	No	---	ND	ND	---	0.6	ND	ND	ND
MW2	07/27/99		32.80	6.20	26.60	No	---	ND	ND	---	ND	0.6	ND	ND
MW2	12/08/99		32.80	9.98	22.82	No	---	ND	ND	---	**1.2**	0.43	ND	ND
MW2	10/25/00		39.34	11.30	28.04	No	---	<20	<0.30	---	**2.0**	0.59	0.46	1.3
MW2	01/15/01		39.34	9.41	29.93	No	---	<20	<0.30	---	<0.20	0.46	<0.20	<0.60
MW2	04/10/01		39.34	6.16	33.18	No	---	23	<1.0	---	0.28	<0.20	<0.20	<0.60
MW2	07/24/01		39.34	10.70	28.64	No	---	<50	<0.30	---	<0.20	0.93	<0.20	0.82
MW2	11/27/01		39.34	10.15	29.19	No	---	<50	<0.30	---	**1.2**	0.22	<0.20	<0.60
MW2	01/18/02		41.99	5.46	36.53	No	---	<50.0	1.40	---	<0.50	<0.50	<0.50	<0.50
MW2	04/10/02		41.99	6.48	35.51	No	---	<50.0	1.80	---	<0.50	<0.50	<0.50	<0.50
MW2	07/12/02		41.99	10.45	31.54	No	---	<50.0	<0.50	---	<0.50	<0.50	<0.50	<0.50
MW2	10/14/02		41.99	11.46	30.53	No	---	<50.0	<0.5	---	<0.5	4.1	0.6	4.0
MW2	01/20/03		41.99	5.39	36.60	No	---	<50.0	0.6	---	<0.50	<0.50	<0.50	<0.50

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Mobil Service Station 99105
6301 San Pablo Avenue
Oakland, California

Well ID	Sampling Date		TOC Elev. (feet)	DTW (feet)	GW Elev. (feet)	NAPL (feet)	TPHd (µg/L)	TPHg (µg/L)	MTBE 8020/8021 (µg/L)	MTBE 8240/8260 (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
Environmental Screening Levels, Groundwater is Current or Potential Drinking Water Source (December 2013)														
Table F-1a			---	---	---	---	100	100	5	5	1	40	30	20
MW2	04/28/03		41.99	5.87	36.12	No	---	<50.0	<0.50	---	<0.50	<0.50	<0.50	<0.50
MW2	07/15/03		41.99	10.31	31.68	No	---	<50	<0.5	---	<0.5	<0.5	<0.5	<0.5
MW2	10/08/03		41.99	11.20	30.79	No	---	<50	<0.5	---	<0.5	<0.5	<0.5	<0.5
MW2	01/15/04		41.99	5.36	36.63	No	---	63.3	1.0	---	0.70	<0.5	<0.5	<0.5
MW2	Well not sampled from 2004 to 2010.													
MW2	09/17/10		41.99	10.72	31.27	No	<50	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50
MW2	12/15/10		42.24	Well resurveyed.										
MW2	09/14/11		42.24	10.02	32.22	No	**110g**	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50
MW2	01/18/12		42.24	11.24	31.00	No	---	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50
MW2	01/27/12		42.24	9.65	32.59	No	<50	---	---	---	---	---	---	---
MW2	07/09/12		42.24	10.07	32.17	No	<50	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50
MW2	01/25/13		42.24	5.62	36.62	No	<50	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50
MW2	08/23/13		42.24	10.76	31.48	No	<50	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50
MW2	01/10/14		42.24	11.42	30.82	No	<50	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50
MW2	07/14/14		42.24	10.52	31.72	No	<49	<50	---	<0.50	<0.50	<0.50	<0.50	0.52
MW2	08/18/14		42.24	11.06	31.18	No	---	---	---	---	---	---	---	---
MW2	11/06/14		42.24	---	---	---	---	---	---	---	---	---	---	---
MW2	01/23/15		42.24	6.10	36.14	No	<50	62g	---	<0.50	<0.50	<0.50	<0.50	<0.50
MW2	06/26/15		42.24	---	---	---	---	---	---	---	---	---	---	---
MW3	03/14/96		32.80	9.55	23.25	No	**1,200**	**4,200**	---	---	**220**	30	**140**	**520**
MW3	05/21/96		32.80	10.16	22.64	No	**2,800**	**8,500**	---	---	**710**	**110**	**440**	**1,700**
MW3	08/13/96		32.80	11.18	21.62	No	**2,300c**	**5,000**	---	---	**430**	ND	**200**	**360**
MW3	11/08/96		32.80	11.51	21.29	No	**2,900b**	**8,400**	**73**	ND	**890**	**82**	**790**	**1,700**
MW3	01/31/97		32.80	7.90	24.90	No	**7,500b**	**16,000**	ND	---	**660**	**85**	**960**	**1,800**
MW3	04/22/97		32.80	10.64	22.16	No	**2,700**	**8,000**	**200**	ND	**340**	33	**400**	**490**
MW3	07/29/97	a	32.80	11.36	21.44	No	**2,300b**	**9,800**	ND	---	**330**	ND	**530**	**530**
MW3	10/09/97	a	32.80	11.52	21.28	No	**2,600b**	**7,300**	**270**	ND	**300**	ND	**430**	**460**
MW3	01/23/98	a	32.80	7.50	25.30	No	**2,300**	**6,100**	ND	---	**190**	23	**330**	**320**
MW3	04/22/98		32.80	6.81	25.99	No	**2,600**	**4,900**	ND	ND	**140**	12	**250**	**230**
MW3	07/21/98		32.80	10.65	22.15	No	---	**7,400**	**74**	ND	**250**	16	**400**	**370**
MW3	10/20/98		32.80	11.57	21.23	No	---	**6,700**	ND	ND	**200**	18	**350**	**350**
MW3	01/27/99		32.80	9.11	23.69	No	---	**3,100**	**13**	---	**74**	4	**94**	**39**
MW3	07/27/99		32.80	7.27	25.53	No	---	**8,900**	ND	---	**170**	21	**360**	**440**
MW3	12/08/99		32.80	10.63	22.17	No	---	**4,800**	ND	---	**94**	13	**170**	**210**
MW3	10/25/00		39.27	12.08	27.19	No	---	**3,800**	**<50**	<5	**63**	2.9	**100**	**65**
MW3	01/15/01		39.27	10.29	28.98	No	---	**4,300**	<5.0	---	**76**	9.5	**47**	**76**
MW3	04/10/01		39.27	10.11	29.16	No	---	**2,700**	**<20**	---	**55**	4.4	**100**	**37**
MW3	07/24/01		39.27	11.57	27.70	No	---	**3,100**	<1.0	---	**110**	6.9	**110**	**81**
MW3	11/27/01		39.27	10.93	28.34	No	---	**2,400**	<0.30	---	**47**	8.9	25	**35**

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Mobil Service Station 99105
6301 San Pablo Avenue
Oakland, California

Well ID	Sampling Date	TOC Elev. (feet)	DTW (feet)	GW Elev. (feet)	NAPL (feet)	TPHd (µg/L)	TPHg (µg/L)	MTBE 8020/8021 (µg/L)	MTBE 8240/8260 (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
Environmental Screening Levels, Groundwater is Current or Potential Drinking Water Source (December 2013)													
Table F-1a		---	---	---	---	100	100	5	5	1	40	30	20
MW3	01/18/02	41.71	9.47	32.24	No	---	**1,130**	**13.6**	---	**15.3**	2.30	**42.0**	**24.6**
MW3	04/10/02	41.71	10.14	31.57	No	---	**916**	**11.2**	---	**35.1**	3.00	22.5	13.8
MW3	07/12/02	41.71	11.34	30.37	No	---	**2,330**	**15.4**	---	**60.5**	2.90	**39.8**	**50.9**
MW3	10/14/02	41.71	12.10	29.61	No	---	**2,550**	<0.5	---	**36.9**	3.8	20.3	**48.0**
MW3	01/20/03	41.71	9.20	32.51	No	---	**1,750**	**10.7**	---	**20.4**	**304.0**	**60.7**	**22.0**
MW3	04/28/03	41.71	9.37	32.34	No	---	**2,730**	**11.2**	---	**10.0**	2.7	**42.7**	**20.1**
MW3	07/15/03	41.71	11.15	30.56	No	---	**1,790**	**5.6**	---	**68.8**	3.6	**39.0**	**44.7**
MW3	10/08/03	41.71	11.89	29.82	No	---	**1,320**	**7.1**	---	**35.1**	4.0	23.6	**31.8**
MW3	01/15/04	41.71	9.16	32.55	No	---	**791**	3.4	---	**24.4**	1.3	**40.1**	14.7
MW3	Well not sampled from 2004 to 2010.												
MW3	09/17/10	41.71	11.46	30.25	No	99	**2,500**	---	<0.50	**2.6**	0.31f	1.8	1.8
MW3	12/15/10	42.18	Well resurveyed.										
MW3	09/14/11	42.18	11.37	30.81	No	**270g**	**1,200**	---	<0.50	**18**	0.95	1.7	1.3
MW3	01/18/12	42.18	12.11	30.07	No	---	**910g**	---	<0.50	0.89	<0.50	<0.50	0.88
MW3	01/27/12	42.18	10.18	32.00	No	**1,000g**	---	---	---	---	---	---	---
MW3	07/09/12	42.18	11.15	31.03	No	**420g**	**350g**	---	<0.50	**7.9**	<0.50	<0.50	<0.50
MW3	01/25/13	42.18	9.41	32.77	No	**120g**	**390g**	---	<0.50	**2.8**	<0.50	<0.50	<0.50
MW3	08/23/13	42.18	11.67	30.51	No	**310g**	**640**	---	<0.50	**1.1**	<0.50	<0.50	<0.50
MW3	01/10/14	42.18	12.13	30.05	No	**160g**	**720g**	---	<0.50	<0.50	<0.50	<0.50	<0.50
MW3	07/14/14	42.18	11.55	30.63	No	**320g**	**1,100g**	---	<0.50	**1.8**	<0.50	<0.50	0.53
MW3	08/18/14	42.18	11.83	30.35	No	---	---	---	---	---	---	---	---
MW3	11/06/14	42.18	---	---	---	---	---	---	---	---	---	---	---
MW3	01/23/15	41.18	10.19	30.99	No	**440g**	**750g**	---	<0.50	**5.6**	1.7	0.79	1.0
MW3	06/26/15	42.18	---	---	---	---	---	---	---	---	---	---	---
MW4	03/14/96	31.50	4.92	26.58	No	**3,500**	**12,000**	---	---	**2,200**	**140**	**880**	**2,000**
MW4	05/21/96	31.50	8.60	22.90	No	**4,200**	**11,000**	---	---	**1,700**	ND	**930**	**470**
MW4	08/13/96	31.50	10.02	21.50	0.02	---	---	---	---	---	---	---	---
MW4	11/08/96	31.50	10.28	21.33	0.15	---	---	---	---	---	---	---	---
MW4	01/31/97	31.50	7.88	23.62	No	**8,200b**	**23,000**	ND	---	**980**	**68**	**1,100**	**1,400**
MW4	04/22/97	31.50	7.40	24.10	No	**4,500**	**8,800**	ND	---	**950**	ND	**610**	**130**
MW4	07/29/97	31.50	9.85	21.74	0.12	---	---	---	---	---	---	---	---
MW4	10/09/97	31.50	10.35	21.38	0.30	---	---	---	---	---	---	---	---
MW4	01/23/98	31.50	4.68	27.51	0.92	---	---	---	---	---	---	---	---
MW4	04/22/98	31.50	6.39	25.22	0.14	---	---	---	---	---	---	---	---
MW4	07/21/98	31.50	7.10	24.55	0.20	---	---	---	---	---	---	---	---
MW4	10/20/98	31.50	9.03	22.60	0.17	---	---	---	---	---	---	---	---
MW4	01/27/99	31.50	5.37	26.18	0.07	---	---	---	---	---	---	---	---
MW4	Apr-99	Destroyed during construction activities.											

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Mobil Service Station 99105
6301 San Pablo Avenue
Oakland, California

Well ID	Sampling Date	TOC Elev. (feet)	DTW (feet)	GW Elev. (feet)	NAPL (feet)	TPHd (µg/L)	TPHg (µg/L)	MTBE 8020/8021 (µg/L)	MTBE 8240/8260 (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
Environmental Screening Levels, Groundwater is Current or Potential Drinking Water Source (December 2013)													
Table F-1a		---	---	---	---	100	100	5	5	1	40	30	20
MW5	10/25/00	39.18	10.92	28.26	No	---	**2,500**	**<20**	---	**79**	3.8	**66**	<20
MW5	01/15/01	39.18	8.32	30.86	No	---	**3,900**	<5.0	---	**120**	7.9	**280**	**52**
MW5	04/10/01	39.18	7.21	31.97	No	---	**8,000**	**<50**	<5	**280**	4.4	**410**	**100**
MW5	07/24/01	39.18	9.54	29.64	No	---	**7,000**	<1.0	---	**360**	7.4	**380**	**67**
MW5	11/27/01	39.18	8.84	30.34	No	---	**5,000**	**8.9**	<2	**64**	11	**340**	**52**
MW5	01/18/02	41.59	6.52	35.07	No	---	**6,330**	**21.8**	---	**99.1**	2.30	**103**	19.6
MW5	04/10/02	41.59	7.20	34.39	No	---	**2,140**	<2.50	---	**275**	8.00	**183**	**24.5**
MW5	07/12/02	41.59	8.83	32.76	No	---	**3,940**	**20**	<0.50	**350**	<0.50	**268**	14
MW5	10/14/02	41.59	10.74	30.85	No	---	**4,040**	<2.5	---	**98.5**	9.0	**169**	**29.0**
MW5	01/20/03	41.59	6.45	35.14	No	---	**7,660**	**59**	<0.50	**421**	10.0	**743**	**96.0**
MW5	04/28/03	41.59	6.68	34.91	No	---	**7,510**	**47**	<0.50	**403**	5.5	**524**	**50.5**
MW5	07/15/03	41.59	8.68	32.91	No	---	**6,080**	**52.9**	<2.5	**406**	19.8	**412**	**34.7**
MW5	10/08/03	41.59	10.56	31.03	No	---	**2,460**	**54.3**	<0.5	**160**	12.8	**173**	**31.7**
MW5	01/15/04	41.59	6.56	35.03	No	---	**4,630**	**37.4**	<0.5	**181**	6.0	**312**	**38.5**
MW5	Well not sampled from 2004 to 2010.												
MW5	09/17/10	41.59	9.99	31.60	No	**5,700**	**6,600**	---	<5.0	**19**	<5.0	16	1.4f
MW5	12/15/10	41.86	Well resurveyed.										
MW5	09/14/11	41.86	7.33	34.53	No	**1,600g**	**7,200**	---	<2.0	**23**	<2.0	8.6	<2.0
MW5	01/18/12	41.86	9.46	32.40	No	---	**3,600g**	---	<1.0	**14**	<1.0	7.6	<1.0
MW5	01/27/12	41.86	8.81	33.05	No	**3,100g**	---	---	---	---	---	---	---
MW5	07/09/12	41.86	8.91	32.95	Sheen	**29,000g**	**9,300g**	---	<2.5	**21**	<2.5	6.9	<2.5
MW5	01/25/13	41.86	6.01	35.85	Sheen	**22,000g**	**4,900g**	---	<2.0	**46**	<2.0	4.5	<2.0
MW5	08/23/13	41.86	9.12	32.74	No	**34,000g**	**17,000**	---	<2.0	**17**	<2.0	6.3	<2.0
MW5	01/10/14	41.86	10.30	31.56	No	**36,000g**	**62,000**	---	<2.0	**4.7**	<2.0	3.5	<2.0
MW5	07/14/14	41.86	8.70	33.16	No	**88,000g**	**90,000g**	---	<5.0	**100**	<5.0	12	<5.0
MW5	08/18/14	41.86	9.40	32.46	No	---	---	---	---	---	---	---	---
MW5	08/22/14	41.86	9.60	32.26	No	**5,800g**	**5,100**	---	<5.0	**520**	<5.0	**320**	**81**
MW5	11/06/14	41.86	---	---	---	---	---	---	---	---	---	---	---
MW5	01/23/15	41.86	7.30	34.56	No	**19,000g**	**3,300g**	---	<5.0	**130**	<5.0	**65**	**26**
MW5	06/26/15	41.86	---	---	---	---	---	---	---	---	---	---	---
MW6	08/18/14	42.00	Well surveyed.										
MW6	08/18/14	42.00	13.12	28.88	No	**350g**	**410g**	---	0.60	<0.50	<0.50	<0.50	<0.50
MW6	08/22/14	42.00	11.20	30.80	No	**1,000g**	**1,500g**	---	<0.50	<0.50	<0.50	<0.50	<0.50
MW6	11/06/14	42.00	10.77	31.23	No	**640g**	**840g**	---	0.80	<0.50	<0.50	<0.50	<0.50
MW6	01/23/15	42.00	7.38	34.62	No	**170g**	**120g**	---	<0.50	<0.50	<0.50	<0.50	<0.50
MW6	06/26/15	42.00	9.11	32.89	No	**160g**	**170g**	---	<0.50	<0.50	<0.50	<0.50	<0.50
MW7	08/18/14	41.34	Well surveyed.										
MW7	08/18/14	41.34	13.81	27.53	No	<51	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Mobil Service Station 99105
6301 San Pablo Avenue
Oakland, California

Well ID	Sampling Date	TOC Elev. (feet)	DTW (feet)	GW Elev. (feet)	NAPL (feet)	TPHd (µg/L)	TPHg (µg/L)	MTBE 8020/8021 (µg/L)	MTBE 8240/8260 (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
Environmental Screening Levels, Groundwater is Current or Potential Drinking Water Source (December 2013)													
Table F-1a		---	---	---	---	100	100	5	5	1	40	30	20
MW7	08/22/14	41.34	Dry	---	---	---	---	---	---	---	---	---	---
MW7	11/06/14	41.34	11.73	29.61	No	<50	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50
MW7	01/23/15	41.34	10.81	30.53	No	57g	**140**	---	<0.50	**4.2**	2.8	6.4	6.1
MW7	06/26/15	41.34	10.28	31.06	No	49g	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50
MW8	08/18/14	41.30	Well surveyed.										
MW8	08/18/14	41.30	12.18	29.12	No	**440g**	**1,600**	---	<0.50	**39**	<0.50	19	**44**
MW8	08/22/14	41.30	13.10	28.20	No	**350g**	**950g**	---	<0.50	**5.7**	<0.50	4.2	6.4
MW8	11/06/14	41.30	10.96	30.34	No	**260g**	**910g**	---	<0.50	**54**	<0.50	25	11
MW8	01/23/15	41.30	6.83	34.47	No	**440g**	**1,000g**	---	<0.50	**110**	1.8	19	10
MW8	06/26/15	41.30	8.46	32.84	No	**650g**	**1,100**	---	<2.0	**100**	<2.0	24	6.2
Grab Groundwater Samples													
Former Gasoline Tank Cavity													
TW1	01/04/96	---	6.00	---	No	**700**	ND	---	---	ND	ND	ND	ND
Used-Oil Tank Cavity													
WW1	01/04/96	---	3.00	---	No	---	ND	---	---	ND	ND	ND	ND
AB1	03/05/98	---	4.5	---	No	---	**1,600**	ND	---	**31**	5.3	79	**130**
AB2	03/05/98	---	8.0	---	No	---	ND	ND	---	ND	2.9	0.9	5.7
AB3	03/05/98	---	5.5	---	No	---	**6,800**	**230**	---	**680**	**100**	**1,500**	**2,300**
AB4	03/05/98	---	4.0	---	No	---	**8,500**	ND	---	**240**	ND	**260**	**720**
AB6	03/05/98	---	4.5	---	No	---	**12,000**	ND	---	**350**	ND	**310**	**100**
AB9	03/05/98	---	6.0	---	No	---	**1,000**	ND	---	**57**	12	44	**93**
AB10	03/05/98	---	2.0	---	No	---	**200**	ND	---	**3.0**	1.2	3.2	2.8
AB11	03/05/98	---	8.5	---	No	---	ND	ND	---	ND	ND	ND	ND
AB12	03/05/98	---	6.0	---	No	---	**8,800**	**37**	---	**660**	50	**630**	**940**
AB13	03/05/98	---	8.0	---	No	---	**210**	ND	---	**11**	0.8	10	15
HA1	01/25/00	---	---	---	---	---	**<500**	<5.0	---	<0.3	<0.3	<0.3	<0.6
B1	11/18/10	---	Dry	---	---	---	---	---	---	---	---	---	---
B2	11/19/10	---	Dry	---	---	---	---	---	---	---	---	---	---
B3	11/19/10	---	8.45	---	---	<50	<50	---	<0.50	<0.50	<0.50	0.053f	0.21f
B4	11/19/10	---	Dry	---	---	---	---	---	---	---	---	---	---
B5	11/18/10	---	8.95	---	---	<50	<50	---	<0.50	<0.50	<0.50	0.047f	0.21f
W-15-B6	06/19/12	---	15	---	---	<50	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50
W-15-B7	06/19/12	---	15	---	---	<50	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50
W-9.5-B8	06/19/12	---	9.5	---	---	**230g**	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Mobil Service Station 99105
6301 San Pablo Avenue
Oakland, California

Notes:	Adapted from ETIC's *Report of Groundwater Monitoring, Third Quarter 2010*.	
TOC Elev.	=	Top of casing elevation.
DTW	=	Depth to water.
GW Elev.	=	Groundwater elevation.
NAPL	=	Non-aqueous phase liquid.
TPHd	=	Total petroleum hydrocarbons as diesel analyzed using EPA Method 8015B.
TPHg	=	Total petroleum hydrocarbons as gasoline analyzed using EPA Method 8015B.
MTBE 8020/8021	=	Methyl tertiary butyl ether analyzed using EPA Method 8020 or 8021B.
MTBE 8240/8260	=	Methyl tertiary butyl ether analyzed using EPA Method 8260B or 8240.
BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8260B.
DIPE	=	Di-isopropyl ether analyzed using EPA Method 8260B.
ETBE	=	Ethyl tertiary butyl ether analyzed using EPA Method 8260B.
TAME	=	Tertiary amyl methyl ether analyzed using EPA Method 8260B.
TBA	=	Tertiary butyl alcohol analyzed using EPA Method 8260B.
1,2-DCA	=	1,2-dichloroethane analyzed using EPA Method 8260B.
EDB	=	1,2-dibromoethane analyzed using EPA Method 8260B.
Ethanol	=	Ethanol analyzed using EPA Method 8260B.
ND	=	Not detected at or above the laboratory reporting limit.
µg/L	=	Micrograms per liter.
<	=	Less than the stated laboratory reporting limit.
---	=	Not analyzed/Not applicable.
a	=	Well sampled using no-purge method.
b	=	Diesel and unidentified hydrocarbons <C15.
c	=	Diesel and unidentified hydrocarbons <C15>C25.
d	=	Diesel and unidentified hydrocarbons >C20.
e	=	Unidentified hydrocarbons >C18.
f	=	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit.
g	=	Chromatographic pattern does not match that of the specified standard.

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Mobil Service Station 99105
6301 San Pablo Avenue
Oakland, California

Well ID	Sampling Date		DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Ethanol (µg/L)
Environmental Screening Levels, Groundwater is Current or Potential Drinking Water Source (December 2013)									
Table F-1a			---	---	---	12	0.50	0.05	---
MW1	03/14/96	- 01/27/99	Not analyzed for these analytes						
MW1	Apr-99		Destroyed during construction activities.						
MW2	03/14/96	- 01/15/04	Not analyzed for these analytes						
MW2	09/17/10		<0.50	<0.50	<0.50	<10	<0.50	**<0.50**	---
MW2	09/14/11		<0.50	<0.50	<0.50	<5.0	<0.50	**<0.50**	<50
MW2	01/18/12		<0.50	<0.50	<0.50	<5.0	<0.50	**<0.50**	<50
MW2	01/27/12		---	---	---	---	---	---	---
MW2	07/09/12		<0.50	<0.50	<0.50	<5.0	<0.50	**<0.50**	---
MW2	01/25/13		<0.50	<0.50	<0.50	<5.0	<0.50	**<0.50**	---
MW2	08/23/13		<0.50	<0.50	<0.50	<5.0	<0.50	**<0.50**	---
MW2	01/10/14		<0.50	<0.50	<0.50	<5.0	<0.50	**<0.50**	---
MW2	07/14/14		<0.50	<0.50	<0.50	<5.0	<0.50	**<0.50**	---
MW2	08/18/14		---	---	---	---	---	---	---
MW2	08/22/14		---	---	---	---	---	---	---
MW2	11/06/14		---	---	---	---	---	---	---
MW2	01/23/15		<0.50	<0.50	<0.50	<5.0	<0.50	**<0.50**	---
MW2	06/26/15		---	---	---	---	---	---	---
MW3	03/14/96	- 01/15/04	Not analyzed for these analytes						
MW3	09/17/10		0.17f	<0.50	<0.50	9.8f	**1.9**	**<0.50**	---
MW3	09/14/11		<0.50	<0.50	<0.50	<5.0	<0.50	**<0.50**	<50
MW3	01/18/12		<0.50	<0.50	<0.50	**23**	<0.50	**<0.50**	<50
MW3	01/27/12		---	---	---	---	---	---	---
MW3	07/09/12		<0.50	<0.50	<0.50	9.1	**1.1**	**<0.50**	---
MW3	01/25/13		<0.50	<0.50	<0.50	9.6	**1.1**	**<0.50**	---
MW3	08/23/13		<0.50	<0.50	<0.50	7.2	**0.90**	**<0.50**	---
MW3	01/10/14		<0.50	<0.50	<0.50	**12**	**1.1**	**<0.50**	---
MW3	07/14/14		<0.50	<0.50	<0.50	11	**1.1**	**<0.50**	---
MW3	08/18/14		---	---	---	---	---	---	---
MW3	08/22/14		---	---	---	---	---	---	---
MW3	11/06/14		---	---	---	---	---	---	---
MW3	01/23/15		<0.50	<0.50	<0.50	8.1	**0.70**	**<0.50**	---
MW3	06/26/15		---	---	---	---	---	---	---
MW4	03/14/96	- 01/27/99	Not analyzed for these analytes						
MW4	Apr-99		Destroyed during construction activities.						
MW5	10/25/00	- 01/15/04	Not analyzed for these analytes						
MW5	09/17/10		<5.0	<5.0	<5.0	**<100**	**<5.0**	**<5.0**	---
MW5	09/14/11		<2.0	<2.0	<2.0	**25**	**<2.0**	**<2.0**	<200

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Mobil Service Station 99105
6301 San Pablo Avenue
Oakland, California

Well ID	Sampling Date	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Ethanol (µg/L)
Environmental Screening Levels, Groundwater is Current or Potential Drinking Water Source (December 2013)								
Table F-1a		---	---	---	12	0.50	0.05	---
MW5	01/18/12	<1.0	<1.0	<1.0	**37**	**<1.0**	**<1.0**	<100
MW5	01/27/12	---	---	---	---	---	---	---
MW5	07/09/12	<2.5	<2.5	<2.5	**36**	**<2.5**	**<2.5**	---
MW5	01/25/13	<2.0	<2.0	<2.0	**45**	**<2.0**	**<2.0**	---
MW5	08/23/13	<2.0	<2.0	<2.0	**42**	**<2.0**	**<2.0**	---
MW5	01/10/14	<2.0	<2.0	<2.0	**36**	**<2.0**	**<2.0**	---
MW5	07/14/14	<5.0	<5.0	<5.0	**<50**	**<5.0**	**<5.0**	---
MW5	08/18/14	---	---	---	---	---	---	---
MW5	08/22/14	<5.0	<5.0	<5.0	**<50**	**<5.0**	**<5.0**	---
MW5	11/06/14	---	---	---	---	---	---	---
MW5	01/23/15	<5.0	<5.0	<5.0	**<50**	**<5.0**	**<5.0**	---
MW5	06/26/15	---	---	---	---	---	---	---
MW6	08/18/14	<0.50	<0.50	<0.50	**14**	**1.1**	**<0.50**	---
MW6	08/22/14	<0.50	<0.50	<0.50	**12**	<0.50	**<0.50**	---
MW6	11/06/14	<0.50	<0.50	<0.50	**14**	**1.3**	**<0.50**	---
MW6	01/23/15	<0.50	<0.50	<0.50	6.7	<0.50	**<0.50**	---
MW6	06/26/15	<0.50	<0.50	<0.50	<5.0	<0.50	**<0.50**	---
MW7	08/18/14	<0.50	<0.50	<0.50	**21**	**3.1**	**<0.50**	---
MW7	08/22/14	Dry	---	---	---	---	---	---
MW7	11/06/14	<0.50	<0.50	<0.50	**15**	**3.9**	**<0.50**	---
MW7	01/23/15	<0.50	<0.50	<0.50	**23**	**5.1**	**<0.50**	---
MW7	06/26/15	<0.50	<0.50	<0.50	11	**3.4**	**<0.50**	---
MW8	08/18/14	<0.50	<0.50	<0.50	**20**	**0.78**	**<0.50**	---
MW8	08/22/14	<0.50	<0.50	<0.50	**31**	<0.50	**<0.50**	---
MW8	11/06/14	<0.50	<0.50	<0.50	**34**	**2.8**	**<0.50**	---
MW8	01/23/15	<0.50	<0.50	<0.50	**20**	<0.50	**<0.50**	---
MW8	06/26/15	<2.0	<2.0	<2.0	**20**	**<2.0**	**<2.0**	---
Grab Groundwater Samples								
Not analyzed for these analytes prior to 2010.								
B1	11/18/10	---	---	---	---	---	---	---
B3	11/19/10	---	---	---	---	**8.7**	---	---
B4	11/19/10	---	---	---	---	---	---	---
B5	11/18/10	---	---	---	---	0.099f	---	---
W-15-B6	06/19/12	<0.50	<0.50	<0.50	<5.0	---	---	---
W-15-B7	06/19/12	<0.50	<0.50	<0.50	<5.0	---	---	---
W-9.5-B8	06/19/12	<0.50	<0.50	<0.50	<5.0	---	---	---

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Mobil Service Station 99105
6301 San Pablo Avenue
Oakland, California

Notes:		Adapted from ETIC's *Report of Groundwater Monitoring, Third Quarter 2010*.
TOC Elev.	=	Top of casing elevation.
DTW	=	Depth to water.
GW Elev.	=	Groundwater elevation.
NAPL	=	Non-aqueous phase liquid.
TPHd	=	Total petroleum hydrocarbons as diesel analyzed using EPA Method 8015B.
TPHg	=	Total petroleum hydrocarbons as gasoline analyzed using EPA Method 8015B.
MTBE 8020/8021	=	Methyl tertiary butyl ether analyzed using EPA Method 8020 or 8021B.
MTBE 8240/8260	=	Methyl tertiary butyl ether analyzed using EPA Method 8260B or 8240.
BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8260B.
DIPE	=	Di-isopropyl ether analyzed using EPA Method 8260B.
ETBE	=	Ethyl tertiary butyl ether analyzed using EPA Method 8260B.
TAME	=	Tertiary amyl methyl ether analyzed using EPA Method 8260B.
TBA	=	Tertiary butyl alcohol analyzed using EPA Method 8260B.
1,2-DCA	=	1,2-dichloroethane analyzed using EPA Method 8260B.
EDB	=	1,2-dibromoethane analyzed using EPA Method 8260B.
Ethanol	=	Ethanol analyzed using EPA Method 8260B.
ND	=	Not detected at or above the laboratory reporting limit.
µg/L	=	Micrograms per liter.
<	=	Less than the stated laboratory reporting limit.
---	=	Not analyzed/Not applicable.
a	=	Well sampled using no-purge method.
b	=	Diesel and unidentified hydrocarbons <C15.
c	=	Diesel and unidentified hydrocarbons <C15>C25.
d	=	Diesel and unidentified hydrocarbons >C20.
e	=	Unidentified hydrocarbons >C18.
f	=	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit.
g	=	Chromatographic pattern does not match that of the specified standard.

TABLE 2
WELL CONSTRUCTION DETAILS
Former Mobil Service Station 99105
6301 San Pablo Avenue
Oakland, California

Well ID	Well Installation Date	Well Destruction Date	TOC Elevation (feet)	Well Casing Material	Total Depth (feet)	Well Depth (feet)	Borehole Diameter (inches)	Casing Diameter (inches)	Screened Interval (feet)	Slot Size (inches)	Filter Pack Interval (feet)	Filter Pack Material
MW1	03/01/96	Apr-99	32.79	PVC	21.5	21.5	10	4	5-20	0.010	4.5-21.5	#12 Sand
MW2	03/01/96	---	42.24	PVC	21.5	21.5	10	4	5-20	0.010	4.5-21.5	#12 Sand
MW3	03/01/96	---	42.18	PVC	21.5	21.5	10	4	5-20	0.010	4.5-21.5	#12 Sand
MW4	03/01/96	Apr-99	31.50	PVC	26.5	25	10	4	5-25	0.010	4.5-21.5	#12 Sand
MW5	09/06/00	---	41.86	PVC	21.5	21.5	10	4	5-20	0.010	4-21.5	#2/12 Sand
MW6	08/11/14	---	42.00	PVC	18	15	12	4	5-15	0.020	4-15	#2/12 Sand
MW7	08/11/14	---	41.34	PVC	16	15	10	2	5-15	0.020	4-15	#2/12 Sand
MW8	08/15/14	---	41.30	PVC	16	15	12	4	5-15	0.020	4-15	#2/12 Sand
VW1	11/01/10	---	---	Stainless Steel	6	6	4	0.25	5.25-5.75	0.0057	5-6	#2/12 Sand
VW2	11/02/10	---	---	Stainless Steel	6	6	4	0.25	5.25-5.75	0.0057	5-6	#2/12 Sand
VW3	11/01/10	---	---	Stainless Steel	6	6	4	0.25	5.25-5.75	0.0057	5-6	#2/12 Sand
VW4	11/02/10	---	---	Stainless Steel	6	6	4	0.25	5.25-5.75	0.0057	5-6	#2/12 Sand
VW5	11/02/10	---	---	Stainless Steel	6	6	4	0.25	5.25-5.75	0.0057	5-6	#2/12 Sand
MP1	11/16/98	1998	---	PVC	23	23	1.5	1	4-23	0.020	2.5-23	#3 Sand
MP2	11/16/98	1998	---	PVC	20	20	1.5	1	5-20	0.020	4-20	#3 Sand
MP3	11/16/98	1998	---	PVC	18	18	1.5	1	3-18	0.020	2-18	#3 Sand
MP4	11/16/98	1998	---	PVC	18	18	1.5	1	3-18	0.020	2-18	#3 Sand
MP5	11/16/98	1998	---	PVC	18	18	1.5	1	3-18	0.020	2-18	#3 Sand
MP6	11/16/98	1998	---	PVC	17.5	17.5	1.5	1	3.5-17.5	0.020	2.5-17.5	#3 Sand
SVS1	06/18/12	---	38.78	PVC/Stainless Steel	5.5	5	3.25	0.25	4.75-5	0.010	4.5-5	#3 Sand
SVS2	06/18/12	---	41.05	PVC/Stainless Steel	5.5	5	3.25	0.25	4.75-5	0.010	4.5-5	#3 Sand
SVS3	06/18/12	---	42.64	PVC/Stainless Steel	5.5	5	3.25	0.25	4.75-5	0.010	4.5-5	#3 Sand

Notes:
TOC = Top of casing.
PVC = Polyvinyl chloride.
--- = Not applicable/Not available.

TABLE 3
CUMULATIVE PID READINGS, VAPOR WELLS
Former Mobil Service Station 99105
6301 San Pablo Avenue
Oakland, California

Sample Date	VW1 (ppm)	VW2 (ppm)	VW3 (ppm)	VW4 (ppm)	VW5 (ppm)
08/01/14	559	118	146	>7,000	500
08/18/14	317	1.9	85.8	1,780	395
08/22/14	62	0.4	122	>9,000	473
12/31/14	75.2	Wet	178.1	1,499	165.4
01/23/15	1.2	2.2	64	3,680	18
06/26/15	Wet	0.7	79.5	2,319	Wet

Notes:
ppm = Parts per million.

TABLE 4
CUMULATIVE SOIL VAPOR ANALYTICAL DATA
Former Mobil Service Station 99105
6301 San Pablo Avenue
Oakland, California
(Page 1 of 2)

Well ID		Sample Date		Depth (feet bgs)	O_2 + A (%V)	Methane (%V)	CO_2 (%V)	Helium (%V)	Vacuum (%V)	TPHg ($\mu g/m^3$)	MTBE ($\mu g/m^3$)	B ($\mu g/m^3$)	T ($\mu g/m^3$)	E ($\mu g/m^3$)	X ($\mu g/m^3$)	1,2-DCA ($\mu g/m^3$)	EDB ($\mu g/m^3$)	TBA ($\mu g/m^3$)	Ethanol ($\mu g/m^3$)	Add'l VOCs ($\mu g/m^3$)
Environmental Screening Levels, Shallow Soil Gas, Table E-2 (December 2013)																				
Residential Land Use					---	---	---	---	---	300,000	4,700	42	160,000	490	52,000	58	17	---	---	---
Commercial/Industrial Land Use					---	---	---	---	---	2,500,000	47,000	420	1,300,000	4,900	440,000	580	170	---	---	---
SVS1		06/25/12		---	11	<0.500	0.817	0.0107	-5.00	8,200	<7.2	11	12	6.2	26	<2.0	<3.8	<6.1	<9.4	18g, 4.8h, 2.8i, 7.0j, 2.7k, 1.1l
SVS2		06/25/12		---	15.5	<0.500	3.27	<0.0100	-5.00	<7,000	<7.6	5.7	4.6	4.1	25	<2.1	<4.1	<6.4	<10	15g, 15i, 5.7j, 8.9k
SVS3		06/25/12		---	20.3	<0.500	1.69	<0.0100	-5.00	<7,000	<7.2	9.6	4.5	<2.2	13	<2.0	<3.8	<6.1	<9.4	3.1a, 18g, 16i, 13j, 6.8k, 37n, 6.9o
VW1		11/09/10		5-6	3.75	<0.895	14.0	---	---	190,000	<13	10	17	80	100	<3.6	<6.9	<11	---	---
VW1		06/26/12		5-6	7.76	0.514	11.2	0.0688	-5.00	8,100	<8.0	**47**	33	9.4	84	<2.2	<4.3	<6.7	39	12a, 12b, 4.1c, 16d, 37g, 9.4h, 8.8i, 53j, 3.7m
VW1		06/26/15	q	5-6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
VW2		11/09/10		5-6	18.5	<0.680	3.02	---	---	20,000	<9.8	<2.2	<2.6	<3.0	<12	4.8	<5.2	<8.2	---	---
VW2		06/26/12		5-6	16.9	<0.500	4.28	<0.0100	-5.00	<7,000	<7.2	2.2	3.0	<2.2	<8.7	<2.0	<3.8	<6.1	25	4.2e, 6.1g, 4.0j, 300k, 4.7n, 8.1o
VW2		06/26/15	p	5-6	---	---	---	---	---	<7,000	<7.2	4.7	2.6	1.2	29	<2.0	<3.8	<15	---	8.9h
VW3		11/09/10		5-6	1.55	<0.765	16.6	---	---	120,000	<11	9.7	25	9.0	36	4.2	<5.9	<9.3	---	---
VW3		06/26/15	p	5-6	---	---	---	---	---	260,000	<14	6.0	<38	84	68	<4.0	<7.7	<30	---	76c, 180d, 46m
VW4		11/09/10		5-6	1.59	14.2	14.1	<0.00164	---	**250,000,000**	**<10,000**	**16,000**	9,200	**71,000**	**60,000**	**<2,900**	**<5,400**	<8,500	---	---
VW4		06/26/12		5-6	2.27	40.4	18.0	<0.0100	-5.00	**220,000,000**	**<7,200**	**30,000**	<1,900	**95,000**	20,000	**<2,000**	**<3,800**	<6,100	<9,400	29,000c, 72,000d, 15,000m
VW4	Dup	06/26/12	f	5-6	21.6	1.36	<0.500	1.98	-5.00	**4,500,000**	<720	**900**	<190	**2,300**	<870	**<200**	**<380**	<610	<940	530c, 1,100d, 310m
VW4		06/26/15	p	5-6	---	---	---	---	---	**140,000,000**	**<7,200**	**18,000**	<19,000	**50,000**	21,000	**<2,000**	**<3,800**	<15,000	---	15,000c, 30,000d, 11,000m
VW5		11/09/10		5-6	10.3	6.61	12.5	<0.00164	---	**31,000,000**	<2,300	**1,000**	<590	<680	<2,700	**<640**	**<1,200**	<1,900	---	---
VW5	Dup	11/09/10		5-6	9.10	6.44	13.1	<0.00164	---	**30,000,000**	<2,200	**740**	<570	<660	<2,600	**<610**	**<1,200**	<1,800	---	---
VW5		06/26/12		5-6	14.6	5.36	7.95	<0.0100	-5.00	**4,300,000**	<720	**370**	<190	<220	<870	**<200**	**<380**	<610	<940	ND
VW5		06/26/15	q	5-6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

TABLE 4
CUMULATIVE SOIL VAPOR ANALYTICAL DATA
Former Mobil Service Station 99105
6301 San Pablo Avenue
Oakland, California

Notes:

O_2 + A	= Oxygen plus argon analyzed using ASTM D-1946.
Methane	= Methane analyzed using ASTM D-1946.
CO_2	= Carbon dioxide analyzed using ASTM D-1946.
Helium	= Helium analyzed using ASTM D-1946.
Vacuum	= Vacuum collected using a vacuum gauge.
TPHg	= Total petroleum hydrocarbons analyzed using EPA Method TO-3M.
MTBE	= Methyl tertiary butyl ether analyzed using EPA Method TO-15.
BTEX	= Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method TO-15.
1,2-DCA	= 1,2-dichloroethane analyzed using EPA Method TO-15.
EDB	= 1,2-dibromoethene analyzed using EPA Method TO-15.
TBA	= Tertiary butyl alcohol analyzed using EPA Method TO-15.
Ethanol	= Ethanol analyzed using EPA Method TO-15.
Add'l VOCs	= Additional volatile organic carbons analyzed using EPA Method T0-15.
feet bgs	= Feet below ground surface.
%V	= Percent by volume.
$\mu g/m^3$	= Micrograms per cubic meter.
---	= Not analyzed.
a	= 1,2-dichlorobenzene.
b	= 1,4-dichlorobenzene.
c	= 1,3,5-trimethylbenzene.
d	= 1,2,4-trimethylbenzene.
e	= Bromodichloromethane.
f	= Leak detection compound reported, biased low.
g	= Acetone.
h	= 2-Butanone.
i	= Carbon disulfide.
j	= Chlorobenzene.
k	= Chloroform.
l	= Chloromethane.
m	= 4-ethyltoluene.
n	= Trichloroethene.
o	= Tetrachloroethene.
p	= Samples collected in a tedlar bag.
q	= Unable to sample well due to wet conditions.

APPENDIX A

GROUNDWATER SAMPLING PROTOCOL

GROUNDWATER SAMPLING PROTOCOL

The static water level and separate-phase product level, if present, in each well that contained water and/or separate-phase product are measured with a ORS Interface Probe, which is accurate to the nearest 0.01 foot. To calculate groundwater elevations and evaluate groundwater gradient, depth to water (DTW) levels are subtracted from top of casing elevations.

Groundwater samples collected for subjective evaluation are collected by gently lowering approximately half the length of a clean Teflon® or polypropylene bailer past the air-water interface (if possible) and collecting a sample from near the surface of the water in the well. The samples are checked for measurable free-phase hydrocarbons or sheen. If appropriate, free-phase hydrocarbons are removed from the well.

Before water samples are collected from the groundwater monitoring wells, the wells are purged until a minimum of three well casing volumes is purged and stabilization of the temperature, pH, and conductivity is obtained. Water samples from the wells that do not obtain stability of the temperature, pH, and conductivity are considered to be "grab samples." The quantity of water purged from each well is calculated as follows:

1 well casing volume = $\pi r^2 h(7.48)$ where:

r	=	radius of the well casing in feet
h	=	column of water in the well in feet (depth to bottom - depth to water)
7.48	=	conversion constant from cubic feet to gallons
π	=	ratio of the circumference of a circle to its diameter

Gallons of water purged/gallons in 1 well casing volume = well casing volumes removed.

The wells are purged using a submersible pump. Prior to use at the site and between wells the pump is cleaned.

Five gallons of water are placed in three 15-gallon tubs. Liquinox detergent is added to the first tub of water. The pump and tubing are submerged in the first tub and the water is pumped through the pump. The process is repeated in the second and third tub.

After purging, each well is allowed to recharge to at least 80% of the initial water level. Water samples from wells that do not recover at least 80% (due to slow recharging of the well) between purging and sampling are considered to be "grab samples." Water samples are collected with a new, disposable Teflon® or polypropylene bailer. The groundwater is carefully poured into selected sample containers (40-milliliter [ml] glass vials, 1,000-ml glass amber bottles, etc.), which are filled so as to produce a positive meniscus.

Depending on the required analysis, each sample container is preserved with hydrochloric acid, nitric acid, etc., or it is preservative free. The type of preservative used for each sample is specified on the Chain-of-Custody record.

Each vial and glass amber bottle is sealed with a cap containing a Teflon® septum, and subsequently examined for air bubbles to avoid headspace, which would allow volatilization to occur. The samples are promptly transported in iced storage in a thermally-insulated ice chest, accompanied by a Chain-of-Custody record, to a California state-certified laboratory.

Water generated during purging and cleaning is contained and transported off site for treatment and disposal.

APPENDIX B

FIELD DATA SHEETS

Daily Field Report

Cardno

Cardno Shaping the Future

Project ID #:	99105	**Cardno Job #**	2783
Subject:	MPS SVS	**Date:**	6/26/15
Equipment Used:	OTW meter, PID, h/tools	**Sheet:**	1 of 1
Name(s):	Azat R. Magdanov		
Time Arrived On Site:	0515	**Time Departed Site:**	1115 **Total Travel** —

Arrived on site conducted HSS meeting, reviewed applicable JSAs, and issued GW permit.
Calibrated PID and water multimeter prepared vacuum box and tedlar bag's.
0600 - 0645 checked with PID and sampled VW2 and VW3 vapor wells.
0600 - opened all GW wells (MW6, 7, 8) and let them recharge before gauging.
0700 measured DTW, in MW6,7,8.
0700 - 0810 - hand - bailed MW6, 7, 8.
All wells went dry at ~2 case volumes.
Let wells recharge and checked vapor wells VW1, VW4, VW5.
VW1 and VW5 - wet, couldn't sample.
Sampled VW4.

0905 - 1045 sampled MW6, 7, 8. Wells do not recharge to 80% in 2 hrs.

1115 closed the permit, checked the site, and left.

VOC concentrations measured by Mini RAE 2000 PID calibrated at 100ppm Hexane:
VW1 - wet (not measured);
VW2 - 0.7 ppm;
VW3 - 79.5 ppm;
VW4 - 2319 ppm;
VW5 - wet (not measured).

Water produced on site:
Purge - 21 gal.
Decon - 0 gal.
Total - 21 gal.

*M/P/S 3 WELLS	*M/S — WELLS	*M/S LOW FLOW — WELLS
*MO — WELLS	*O/P — WELLS	*POTABLE — WELLS

*TOOK TWO AT 1000 AM
TOTAL PURGED GALLONS: 21
* — T/C SET UPS

Cardno ERI Groundwater M+S
Depth To Water

Case Volume= H(r^2x0.163)

H=Height of Water Column in Feet
r=Radius of well casing in inches

Common conversion factors:
2"=0.163, 4"=0.652, 6"=1.457

Project	Location	Date	Name
2783	99105	06/26/2015	Azat R. Magdanov

WELL ID	WELL DIAMETER	ODOR? SHEEN?	TOTAL DEPTH	Pre-Purge DTW	Case Volume	80% recharge	COMMENTS
	inches		feet	feet	Gal	feet	
MW6	4	—	14.57	9.11	3.56	10.20	—
MW7	2	—	14.50	10.28	0.69	11.12	—
MW8	4	—	14.27	8.46	3.78	9.62	—

WATER SAMPLING SITE STATUS

Date: 06/26/2015

Inspected by: Azat R. Magdanov

Cardno ERI Job No.: 2783 Station No.: 99105 Site Address: 6301 S. Pablo Ave., Oakland, CA.

Well ID	Well Head Screws	Rubber Gasket	Well Cap Locking	Lock on Well Cap	Concrete Well Seal	Well Head PVC	Water in Well Vault	Tabs	Well Cover	Fence/Gate Condition	# Drums	Drum Contents	Building Condition	Site Appearance	Comments / Well Covers
	N/R/ok	N/R/ok	N/R/ok	N/R/ok	N/R/ok	N/R/ok	Y / N	N/R/ok	N/R/ok	N/R/ok		s/w/e	g/v/o	N/R/ok	
MW7	OK	OK	N	N	OK	OK	Y	OK	OK	NA	NA	NA	NA	OK	
MW8	↓	↓	↓	↓	↓	↓	N	↑	↓	↓	↓	↓	↓	↓	
MW6	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
VW1	↓	↓	NA	NA	↓	NA	↓	↓	↓	↓	↓	↓	↓	↓	
VW2	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
VW3	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
VW4	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
VW5	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	

N = Not repairable in time available-see comments.
R = Repaired-see comments
ok = No action needed.

Y = Yes.
N = No.

s = Soil.
w = Water.
e = Empty.

g = Graffiti on walls.
v = Vagrants (or evidence of).
o = Open (not secured).

GROUNDWATER SAMPLING FIELD LOG

Client Name: Exxon Mobil Cardno ERI Job #: 2783 Date: 6-26-15 Page 1 of 1

Location: 99105 Field Cleaning Performed: _____ Case Volume = (TD - DTW) x F where F =

Field Crew: Azat R. Magdanov Analysis: _____

0.163 for 2" inside-diameter well casing
0.652 for 4" inside-diamter well casing
1.457 for 6" inside-diamter well casing

Well ID	Time	Case Volume	Purge Volume	Temp	Cond	pH	Post-Purge DTW	80% Recharge	BB	40mil	Amber	DO	ORP	Comments Well Box Condition
MW7	0701	0.69	1				12.29	N						
	0705		1	19.5	468	6.61	Sample Date: 06/26/2015							Dry @ 2 gal.
	0708		2	19.4	474	6.69	Sample Name: MW7							Doesn't recharge
			3				Sample Time: 0930							in 2 hrs.
MW8	0719	3.78	4				11.83							Dry @ 10 gal.
	0723		4	20.8	428	6.84	Sample Date: 06/26/2015							Doesn't recharge
	0731		8	21.0	427	6.86	Sample Name: MW8							in 2 hrs.
			12				Sample Time: 1015							
MW6	0749	3.56	4											Dry @ 9 gal.
	0755		4	18.7	481	6.88	Sample Date: 06/26/2015							Doesn't recharge
	0805		8	18.7	485	6.85	Sample Name: MW6							in 2 hrs.
			12				Sample Time: 1045							
							Sample Date: 06/26/2015							
							Sample Name: DUP							
							Sample Time: 0905							
							Sample Date:							
							Sample Name:							
							Sample Time:							
							Sample Date:							
							Sample Name:							
							Sample Time:							
							Sample Date:							
							Sample Name:							
							Sample Time:							

APPENDIX C

LABORATORY ANALYTICAL REPORTS

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WORK ORDER NUMBER: 15-06-2174

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Cardno ERI

Client Project Name: ExxonMobil 99105/022783C

Attention: Greg Gurss
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Approved for release on 07/09/2015 by:
Cecile deGuia
Project Manager

ResultLink ▸

Email your PM ▸

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Client Project Name: ExxonMobil 99105/022783C
Work Order Number: 15-06-2174

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Work Order Narrative

Work Order: 15-06-2174 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 06/27/15. They were assigned to Work Order 15-06-2174.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Sample Summary

Client:	Cardno ERI	Work Order:	15-06-2174
	601 North McDowell Blvd.	Project Name:	ExxonMobil 99105/022783C
	Petaluma, CA 94954-2312	PO Number:	022783C
		Date/Time Received:	06/27/15 10:20
		Number of Containers:	26
Attn:	Greg Gurss		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
MW6	15-06-2174-1	06/26/15 10:45	8	Aqueous
MW7	15-06-2174-2	06/26/15 09:30	8	Aqueous
MW8	15-06-2174-3	06/26/15 10:15	8	Aqueous
QCBB	15-06-2174-4	06/26/15 09:05	2	Aqueous

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Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/27/15
Work Order: 15-06-2174
Preparation: EPA 3510/SG 0.5
Method: EPA 8015B (M)
Units: ug/L

Project: ExxonMobil 99105/022783C

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW6	15-06-2174-1-J	06/26/15 10:45	Aqueous	GC 45	06/29/15	06/29/15 23:42	150629B05

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	160	48	1.00	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	82	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW7	15-06-2174-2-J	06/26/15 09:30	Aqueous	GC 45	06/29/15	06/30/15 10:54	150629B05

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	49	48	1.00	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	82	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW8	15-06-2174-3-J	06/26/15 10:15	Aqueous	GC 45	06/29/15	06/30/15 00:19	150629B05

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	650	48	1.00	SG,HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	77	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-15-304-1075	N/A	Aqueous	GC 45	06/29/15	06/29/15 21:33	150629B05

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	74	68-140	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/27/15
Work Order: 15-06-2174
Preparation: EPA 5030C
Method: EPA 8015B (M)
Units: ug/L

Project: ExxonMobil 99105/022783C

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW6	15-06-2174-1-H	06/26/15 10:45	Aqueous	GC 1	07/02/15	07/02/15 19:18	150702L017

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	170	50	1.00	HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	69	38-134	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW7	15-06-2174-2-H	06/26/15 09:30	Aqueous	GC 1	07/02/15	07/02/15 19:54	150702L017

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	65	38-134	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW8	15-06-2174-3-H	06/26/15 10:15	Aqueous	GC 1	07/02/15	07/02/15 20:30	150702L017

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	1100	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	93	38-134	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-436-10194	N/A	Aqueous	GC 1	07/02/15	07/02/15 15:09	150702L017

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	64	38-134	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/27/15
Work Order: 15-06-2174
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: ExxonMobil 99105/022783C

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW6	15-06-2174-1-A	06/26/15 10:45	Aqueous	GC/MS L	07/01/15	07/01/15 21:10	150701L006

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	0.50	1.00	
Toluene	ND	0.50	1.00	
Ethylbenzene	ND	0.50	1.00	
o-Xylene	ND	0.50	1.00	
p/m-Xylene	ND	0.50	1.00	
Xylenes (total)	ND	0.50	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	1.00	
Tert-Butyl Alcohol (TBA)	ND	5.0	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1.00	
1,2-Dibromoethane	ND	0.50	1.00	
1,2-Dichloroethane	ND	0.50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	102	68-120	
Dibromofluoromethane	98	80-127	
1,2-Dichloroethane-d4	107	80-128	
Toluene-d8	100	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Cardno ERI		Date Received:	06/27/15
601 North McDowell Blvd.		Work Order:	15-06-2174
Petaluma, CA 94954-2312		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: ExxonMobil 99105/022783C			Page 2 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW7	15-06-2174-2-A	06/26/15 09:30	Aqueous	GC/MS L	07/01/15	07/01/15 21:39	150701L006

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	0.50	1.00	
Toluene	ND	0.50	1.00	
Ethylbenzene	ND	0.50	1.00	
o-Xylene	ND	0.50	1.00	
p/m-Xylene	ND	0.50	1.00	
Xylenes (total)	ND	0.50	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	1.00	
Tert-Butyl Alcohol (TBA)	11	5.0	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1.00	
1,2-Dibromoethane	ND	0.50	1.00	
1,2-Dichloroethane	3.4	0.50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	102	68-120	
Dibromofluoromethane	98	80-127	
1,2-Dichloroethane-d4	108	80-128	
Toluene-d8	98	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/27/15
Work Order: 15-06-2174
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: ExxonMobil 99105/022783C

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW8	**15-06-2174-3-A**	**06/26/15 10:15**	**Aqueous**	**GC/MS L**	**07/01/15**	**07/01/15 22:07**	**150701L006**

Parameter	Result	RL	DF	Qualifiers
Benzene	100	2.0	4.00	
Toluene	ND	2.0	4.00	
Ethylbenzene	24	2.0	4.00	
o-Xylene	ND	2.0	4.00	
p/m-Xylene	6.2	2.0	4.00	
Xylenes (total)	6.2	2.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	2.0	4.00	
Tert-Butyl Alcohol (TBA)	20	20	4.00	
Diisopropyl Ether (DIPE)	ND	2.0	4.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	4.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	4.00	
1,2-Dibromoethane	ND	2.0	4.00	
1,2-Dichloroethane	ND	2.0	4.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	102	68-120	
Dibromofluoromethane	100	80-127	
1,2-Dichloroethane-d4	106	80-128	
Toluene-d8	98	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Cardno ERI		Date Received:	06/27/15
601 North McDowell Blvd.		Work Order:	15-06-2174
Petaluma, CA 94954-2312		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: ExxonMobil 99105/022783C			Page 4 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-884-1265**	**N/A**	**Aqueous**	**GC/MS L**	**07/01/15**	**07/01/15 11:52**	**150701L006**

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	0.50	1.00	
Toluene	ND	0.50	1.00	
Ethylbenzene	ND	0.50	1.00	
o-Xylene	ND	0.50	1.00	
p/m-Xylene	ND	0.50	1.00	
Xylenes (total)	ND	0.50	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	1.00	
Tert-Butyl Alcohol (TBA)	ND	5.0	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1.00	
1,2-Dibromoethane	ND	0.50	1.00	
1,2-Dichloroethane	ND	0.50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	97	68-120	
Dibromofluoromethane	101	80-127	
1,2-Dichloroethane-d4	100	80-128	
Toluene-d8	99	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

Cardno ERI		Date Received:	06/27/15
601 North McDowell Blvd.		Work Order:	15-06-2174
Petaluma, CA 94954-2312		Preparation:	EPA 5030C
		Method:	EPA 8015B (M)
Project: ExxonMobil 99105/022783C			Page 1 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-06-2161-1	Sample	Aqueous	GC 1	07/02/15	07/02/15 15:45	150702S009
15-06-2161-1	Matrix Spike	Aqueous	GC 1	07/02/15	07/02/15 16:20	150702S009
15-06-2161-1	Matrix Spike Duplicate	Aqueous	GC 1	07/02/15	07/02/15 16:56	150702S009

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	ND	2000	1952	98	1937	97	68-122	1	0-18	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Cardno ERI		Date Received:	06/27/15
601 North McDowell Blvd.		Work Order:	15-06-2174
Petaluma, CA 94954-2312		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: ExxonMobil 99105/022783C			Page 2 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-06-2176-25	Sample	Aqueous	GC/MS L	07/01/15	07/01/15 13:00	150701S006
15-06-2176-25	Matrix Spike	Aqueous	GC/MS L	07/01/15	07/01/15 15:26	150701S006
15-06-2176-25	Matrix Spike Duplicate	Aqueous	GC/MS L	07/01/15	07/01/15 15:55	150701S006

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	10.00	10.42	104	10.50	105	75-125	1	0-20	
Toluene	ND	10.00	10.29	103	10.41	104	75-125	1	0-20	
Ethylbenzene	ND	10.00	10.58	106	10.63	106	75-125	1	0-20	
o-Xylene	ND	10.00	9.834	98	9.967	100	75-127	1	0-20	
p/m-Xylene	ND	20.00	20.73	104	20.82	104	75-125	0	0-20	
Methyl-t-Butyl Ether (MTBE)	ND	10.00	9.840	98	11.17	112	71-131	13	0-20	
Tert-Butyl Alcohol (TBA)	ND	50.00	57.13	114	51.36	103	20-180	11	0-40	
Diisopropyl Ether (DIPE)	ND	10.00	10.79	108	11.44	114	64-136	6	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	10.00	9.128	91	10.39	104	73-133	13	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	10.00	8.488	85	9.814	98	75-125	15	0-20	
1,2-Dibromoethane	ND	10.00	10.11	101	11.05	110	75-126	9	0-20	
1,2-Dichloroethane	ND	10.00	10.35	103	10.95	110	75-127	6	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Cardno ERI	Date Received: 06/27/15
601 North McDowell Blvd.	Work Order: 15-06-2174
Petaluma, CA 94954-2312	Preparation: EPA 3510/SG 0.5
	Method: EPA 8015B (M)
Project: ExxonMobil 99105/022783C	Page 1 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-304-1075	LCS	Aqueous	GC 45	06/29/15	06/29/15 21:51	150629B05
099-15-304-1075	LCSD	Aqueous	GC 45	06/29/15	06/29/15 22:09	150629B05

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	2000	2271	114	2305	115	75-117	1	0-13	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cardno ERI		Date Received:	06/27/15
601 North McDowell Blvd.		Work Order:	15-06-2174
Petaluma, CA 94954-2312		Preparation:	EPA 5030C
		Method:	EPA 8015B (M)
Project: ExxonMobil 99105/022783C			Page 2 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-436-10194	LCS	Aqueous	GC 1	07/02/15	07/02/15 14:33	150702L017

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
TPH as Gasoline	2000	1922	96	78-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cardno ERI		Date Received:	06/27/15
601 North McDowell Blvd.		Work Order:	15-06-2174
Petaluma, CA 94954-2312		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: ExxonMobil 99105/022783C			Page 3 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-884-1265	LCS	Aqueous	GC/MS L	07/01/15	07/01/15 11:07	150701L006

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Benzene	10.00	9.931	99	80-120	73-127	
Toluene	10.00	9.946	99	80-120	73-127	
Ethylbenzene	10.00	10.19	102	80-120	73-127	
o-Xylene	10.00	9.599	96	80-120	73-127	
p/m-Xylene	20.00	20.02	100	80-120	73-127	
Methyl-t-Butyl Ether (MTBE)	10.00	9.468	95	75-123	67-131	
Tert-Butyl Alcohol (TBA)	50.00	52.29	105	80-120	73-127	
Diisopropyl Ether (DIPE)	10.00	10.19	102	73-121	65-129	
Ethyl-t-Butyl Ether (ETBE)	10.00	9.125	91	76-124	68-132	
Tert-Amyl-Methyl Ether (TAME)	10.00	8.497	85	80-120	73-127	
1,2-Dibromoethane	10.00	10.08	101	80-120	73-127	
1,2-Dichloroethane	10.00	10.11	101	80-122	73-129	

Total number of LCS compounds: 12
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 15-06-2174 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 8015B (M)	EPA 5030C	902	GC 1	2
EPA 8015B (M)	EPA 3510/SG 0.5	972	GC 45	1
EPA 8260B	EPA 5030C	316	GC/MS L	2

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Glossary of Terms and Qualifiers

Work Order: 15-06-2174 Page 1 of 1

Qualifiers	Definition
AZ	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
B	Analyte was present in the associated method blank.
BA	The MS/MSD RPD was out of control due to suspected matrix interference.
BB	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
DF	Reporting limits elevated due to matrix interferences.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
GE	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
HD	Chromat. profile inconsistent with pattern(s) of ref. fuel stnds.
HO	High concentration matrix spike recovery out of limits
HT	Analytical value calculated using results from associated tests.
HX	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS was in control.
IL	Relative percent difference out of control.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
LD	Analyte presence was not confirmed by second column or GC/MS analysis.
LP	The LCS and/or LCSD recoveries for this analyte were above the upper control limit. The associated sample was non-detected. Therefore, the sample data was reported without further clarification.
LQ	LCS recovery above method control limits.
LR	LCS recovery below method control limits.
ND	Parameter not detected at the indicated reporting limit.
QO	Compound did not meet method-described identification guidelines. Identification was based on additional GC/MS characteristics.
RU	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
SG	A silica gel cleanup procedure was performed.
SN	See applicable analysis comment.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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Eurofins Calscience Inc.
7440 Lincoln Way
Garden Grove, CA 92841
Phone: 714-895-5494
Fax: 714-894-7501

ExxonMobil
15-06-2174

Consultant Name: Cardno ERI | Account #: NA | PO#: Direct Bill Cardno ERI
Consultant Address: 601 N McDowell | Invoice To: Direct Bill Cardno ERI
Consultant City/State/Zip: Petaluma, CA 94954 | Report To: Greg Gurss
ExxonMobil Project Mgr: Jennifer Sedlachek | Project Name: 02 2783 C
Consultant Project Mgr: Greg Gurss | ExxonMobil Site #: 99105 | Major Project (AFE #):
Consultant Telephone Number: (707) 766-2000 | Fax No.: (707) 789-0414 | Site Address: 6301 San Pablo Ave
Sampler Name (Print): Azat R. Magdanov | Site City, State, Zip: Oakland, CA
Sampler Signature: | Oversight Agency: Alameda County Environmental Health Department

Sample ID	Field Point Name	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Methanol	Sodium Bisulfate	HCl	NaOH	H_2SO_4, Plastic	H_2SO_4, Glass	HNO_3	Ice	Other	None	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Air	Other (specify): Distilled Water	Analyze For: TPHd 8015B*		TPHg 8015B	BTEX 8260B	Methanol by 8015	8260 see list		Ethanol	RUSH TAT (Pre-Schedule)	5-day TAT	Standard 10-day TAT	Due Date of Report
MW6	MW6	6-26-15	1045	8VI2A	x					6V					x		2A	x							x		x	x		x					x	
MW7	MW7	6-26-15	0930	8VI2A	x					6V					x		2A	x							x		x	x		x					x	
MW8	MW8	6-26-15	1015	8VI2A	x					6V					x		2A	x							x		x	x		x					x	
QCBB	QCBB	6-26-15	0905	2V						2V					x												H	O	L	D						

Comments/Special Instructions:
Only include requested data in report
OXY's report MTBE, DIPE, TBA, TAME, EDB, ETBE, 1,2 DCA
*Use silica-gel clean-up for TPHd
PLEASE E-MAIL ALL PDF FILES TO norcallabs@eri-us.com
GLOBAL ID # T0600101855

Laboratory Comments:
Temperature Upon Receipt:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
QC Deliverables (please circle one)
Level 2
Level 3
Level 4
Site Specific - if yes, please attach pre-schedule w/ Calscience Project Manager or attach specific instructions

Relinquished by:		Date	Time	Received by:	Date	Time
Azat R. Magdanov		6/26/15	1200	Tom Omalley ECI	6/26/15	1200
Tom Omalley TB	650	6/26/15	1730		6/27/15	1020

Received by (Lab personnel): ECI

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GSO

800-322-5555 www.gso.com

2174

Ship From
CAL SCIENCE- CONCORD
ALAN KEMP
5063 COMMERCIAL CIRCLE
#H
CONCORD, CA 94520

Ship To
CEL
SAMPLE RECEIVING
7440 LINCOLN WAY
GARDEN GROVE, CA 92841

COD: $0.00
Weight: 0 lb(s)
Reference:
THE SOURCE GROUP, CARDNO ERI
Delivery Instructions:

Signature Type: REQUIRED

Tracking #: 528404883

SDS

ORC **A**
GARDEN GROVE

D92845A

39409944

Print Date: 6/26/2015 2:05 PM

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer. Securely attach this label to your package, do not cover the barcode.

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WORK ORDER NUMBER: 15-06- 2174

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: Cardno ERI

DATE: 06 / 27 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.3°C); Temperature (w/o CF): 3.8 °C (w/ CF): 3.5 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: SR

CUSTODY SEAL:

Cooler ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: SR

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1020

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: 8 (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☑ VOAh ☐ VOAna_2 ☐ 100PJ ☐ 100PJna_2 ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☐ 250CGB**s** ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☑ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☐ 1AGB ☐ 1AGBna_2 ☐ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na_2** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1020

Reviewed by: SR

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WORK ORDER NUMBER: 15-06-2169

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Cardno ERI

Client Project Name: ExxonMobil 99105/022783C

Attention: Greg Gurss
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Approved for release on 07/10/2015 by:
Cecile deGuia
Project Manager

ResultLink

Email your PM

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Client Project Name: ExxonMobil 99105/022783C
Work Order Number: 15-06-2169

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Work Order Narrative

Work Order: 15-06-2169 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 06/27/15. They were assigned to Work Order 15-06-2169.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Sample Summary

Client:	Cardno ERI	Work Order:	15-06-2169
	601 North McDowell Blvd.	Project Name:	ExxonMobil 99105/022783C
	Petaluma, CA 94954-2312	PO Number:	022783C
		Date/Time Received:	06/27/15 10:20
		Number of Containers:	3
Attn:	Greg Gurss		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
VW2	15-06-2169-1	06/26/15 06:15	1	Air
VW3	15-06-2169-2	06/26/15 06:45	1	Air
VW4	15-06-2169-3	06/26/15 09:00	1	Air

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Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/27/15
Work Order: 15-06-2169
Preparation: N/A
Method: EPA TO-15M
Units: mg/m3

Project: ExxonMobil 99105/022783C

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
VW2	**15-06-2169-1-A**	**06/26/15 06:15**	**Air**	**GC/MS NN**	**N/A**	**06/27/15 19:39**	**150627L03**

Parameter	Result	RL	DF	Qualifiers
Benzene	0.0047	0.0016	1.00	
Toluene	0.026	0.019	1.00	
Ethylbenzene	0.012	0.0022	1.00	
o-Xylene	0.0085	0.0022	1.00	
p/m-Xylene	0.020	0.0087	1.00	
Xylenes (total)	0.029	0.0022	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.0072	1.00	
Tert-Butyl Alcohol (TBA)	ND	0.015	1.00	
Diisopropyl Ether (DIPE)	ND	0.0084	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.0084	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.0084	1.00	
1,1,1-Trichloroethane	ND	0.0027	1.00	
1,1,2,2-Tetrachloroethane	ND	0.0069	1.00	
1,1,2-Trichloroethane	ND	0.0027	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.011	1.00	
1,1-Dichloroethane	ND	0.0020	1.00	
1,1-Dichloroethene	ND	0.0020	1.00	
1,2,4-Trichlorobenzene	ND	0.015	1.00	
1,2,4-Trimethylbenzene	ND	0.0074	1.00	
1,3,5-Trimethylbenzene	ND	0.0025	1.00	
c-1,2-Dichloroethene	ND	0.0020	1.00	
1,2-Dibromoethane	ND	0.0038	1.00	
1,2-Dichlorobenzene	ND	0.0030	1.00	
1,2-Dichloroethane	ND	0.0020	1.00	
1,2-Dichloropropane	ND	0.0023	1.00	
t-1,2-Dichloroethene	ND	0.0020	1.00	
c-1,3-Dichloropropene	ND	0.0023	1.00	
1,3-Dichlorobenzene	ND	0.0030	1.00	
t-1,3-Dichloropropene	ND	0.0045	1.00	
1,4-Dichlorobenzene	ND	0.0030	1.00	
4-Methyl-2-Pentanone	ND	0.0061	1.00	
4-Ethyltoluene	ND	0.0025	1.00	
Acetone	ND	0.12	1.00	
Benzyl Chloride	ND	0.0078	1.00	
Bromoform	ND	0.0052	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Cardno ERI	Date Received:	06/27/15
601 North McDowell Blvd.	Work Order:	15-06-2169
Petaluma, CA 94954-2312	Preparation:	N/A
	Method:	EPA TO-15M
	Units:	mg/m3
Project: ExxonMobil 99105/022783C		Page 2 of 10

Parameter	Result	RL	DF	Qualifiers
Bromomethane	ND	0.0019	1.00	
Carbon Disulfide	ND	0.031	1.00	
Carbon Tetrachloride	ND	0.0031	1.00	
Chlorobenzene	ND	0.0023	1.00	
Dibromochloromethane	ND	0.0043	1.00	
Chloroethane	ND	0.0013	1.00	
Chloroform	ND	0.0024	1.00	
Chloromethane	ND	0.0010	1.00	
Bromodichloromethane	ND	0.0034	1.00	
Dichlorodifluoromethane	ND	0.0025	1.00	
Dichlorotetrafluoroethane	ND	0.014	1.00	
Hexachloro-1,3-Butadiene	ND	0.016	1.00	
2-Butanone	0.0089	0.0044	1.00	
Methylene Chloride	ND	0.017	1.00	
2-Hexanone	ND	0.0061	1.00	
Styrene	ND	0.0064	1.00	
Tetrachloroethene	ND	0.0034	1.00	
Trichloroethene	ND	0.0027	1.00	
Trichlorofluoromethane	ND	0.0056	1.00	
Vinyl Acetate	ND	0.0070	1.00	
Vinyl Chloride	ND	0.0013	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	105	57-129	
1,2-Dichloroethane-d4	120	47-137	
Toluene-d8	104	78-156	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Cardno ERI		Date Received:	06/27/15
601 North McDowell Blvd.		Work Order:	15-06-2169
Petaluma, CA 94954-2312		Preparation:	N/A
		Method:	EPA TO-15M
		Units:	mg/m3
Project: ExxonMobil 99105/022783C			Page 3 of 10

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
VW3	**15-06-2169-2-A**	**06/26/15 06:45**	**Air**	**GC/MS II**	**N/A**	**06/28/15 23:09**	**150628L02**

Parameter	Result	RL	DF	Qualifiers
Benzene	0.0060	0.0032	2.00	
Toluene	ND	0.038	2.00	
Ethylbenzene	0.084	0.0043	2.00	
o-Xylene	0.0097	0.0043	2.00	
p/m-Xylene	0.058	0.017	2.00	
Xylenes (total)	0.068	0.0043	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.014	2.00	
Tert-Butyl Alcohol (TBA)	ND	0.030	2.00	
Diisopropyl Ether (DIPE)	ND	0.017	2.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.017	2.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.017	2.00	
1,1,1-Trichloroethane	ND	0.0055	2.00	
1,1,2,2-Tetrachloroethane	ND	0.014	2.00	
1,1,2-Trichloroethane	ND	0.0055	2.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.023	2.00	
1,1-Dichloroethane	ND	0.0040	2.00	
1,1-Dichloroethene	ND	0.0040	2.00	
1,2,4-Trichlorobenzene	ND	0.030	2.00	
1,2,4-Trimethylbenzene	0.18	0.015	2.00	
1,3,5-Trimethylbenzene	0.076	0.0049	2.00	
c-1,2-Dichloroethene	ND	0.0040	2.00	
1,2-Dibromoethane	ND	0.0077	2.00	
1,2-Dichlorobenzene	ND	0.0060	2.00	
1,2-Dichloroethane	ND	0.0040	2.00	
1,2-Dichloropropane	ND	0.0046	2.00	
t-1,2-Dichloroethene	ND	0.0040	2.00	
c-1,3-Dichloropropene	ND	0.0045	2.00	
1,3-Dichlorobenzene	ND	0.0060	2.00	
t-1,3-Dichloropropene	ND	0.0091	2.00	
1,4-Dichlorobenzene	ND	0.0060	2.00	
4-Methyl-2-Pentanone	ND	0.012	2.00	
4-Ethyltoluene	0.046	0.0049	2.00	
Acetone	ND	0.24	2.00	
Benzyl Chloride	ND	0.016	2.00	
Bromoform	ND	0.010	2.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Cardno ERI	Date Received:	06/27/15
601 North McDowell Blvd.	Work Order:	15-06-2169
Petaluma, CA 94954-2312	Preparation:	N/A
	Method:	EPA TO-15M
	Units:	mg/m3
Project: ExxonMobil 99105/022783C		Page 4 of 10

Parameter	Result	RL	DF	Qualifiers
Bromomethane	ND	0.0039	2.00	
Carbon Disulfide	ND	0.062	2.00	
Carbon Tetrachloride	ND	0.0063	2.00	
Chlorobenzene	ND	0.0046	2.00	
Dibromochloromethane	ND	0.0085	2.00	
Chloroethane	ND	0.0026	2.00	
Chloroform	ND	0.0049	2.00	
Chloromethane	ND	0.0021	2.00	
Bromodichloromethane	ND	0.0067	2.00	
Dichlorodifluoromethane	ND	0.0049	2.00	
Dichlorotetrafluoroethane	ND	0.028	2.00	
Hexachloro-1,3-Butadiene	ND	0.032	2.00	
2-Butanone	ND	0.0088	2.00	
Methylene Chloride	ND	0.035	2.00	
2-Hexanone	ND	0.012	2.00	
Styrene	ND	0.013	2.00	
Tetrachloroethene	ND	0.0068	2.00	
Trichloroethene	ND	0.0054	2.00	
Trichlorofluoromethane	ND	0.011	2.00	
Vinyl Acetate	ND	0.014	2.00	
Vinyl Chloride	ND	0.0026	2.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	126	57-129	
1,2-Dichloroethane-d4	108	47-137	
Toluene-d8	60	78-156	AZ

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

eurofins | Calscience

Analytical Report

Cardno ERI		Date Received:	06/27/15
601 North McDowell Blvd.		Work Order:	15-06-2169
Petaluma, CA 94954-2312		Preparation:	N/A
		Method:	EPA TO-15M
		Units:	mg/m3
Project: ExxonMobil 99105/022783C			Page 5 of 10

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
VW4	**15-06-2169-3-A**	**06/26/15 09:00**	**Air**	**GC/MS II**	**N/A**	**06/28/15 23:57**	**150628L02**

Parameter	Result	RL	DF	Qualifiers
Benzene	18	1.6	1000	
Toluene	ND	19	1000	
Ethylbenzene	50	2.2	1000	
o-Xylene	ND	2.2	1000	
p/m-Xylene	21	8.7	1000	
Xylenes (total)	21	2.2	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	7.2	1000	
Tert-Butyl Alcohol (TBA)	ND	15	1000	
Diisopropyl Ether (DIPE)	ND	8.4	1000	
Ethyl-t-Butyl Ether (ETBE)	ND	8.4	1000	
Tert-Amyl-Methyl Ether (TAME)	ND	8.4	1000	
1,1,1-Trichloroethane	ND	2.7	1000	
1,1,2,2-Tetrachloroethane	ND	6.9	1000	
1,1,2-Trichloroethane	ND	2.7	1000	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1000	
1,1-Dichloroethane	ND	2.0	1000	
1,1-Dichloroethene	ND	2.0	1000	
1,2,4-Trichlorobenzene	ND	15	1000	
1,2,4-Trimethylbenzene	30	7.4	1000	
1,3,5-Trimethylbenzene	15	2.5	1000	
c-1,2-Dichloroethene	ND	2.0	1000	
1,2-Dibromoethane	ND	3.8	1000	
1,2-Dichlorobenzene	ND	3.0	1000	
1,2-Dichloroethane	ND	2.0	1000	
1,2-Dichloropropane	ND	2.3	1000	
t-1,2-Dichloroethene	ND	2.0	1000	
c-1,3-Dichloropropene	ND	2.3	1000	
1,3-Dichlorobenzene	ND	3.0	1000	
t-1,3-Dichloropropene	ND	4.5	1000	
1,4-Dichlorobenzene	ND	3.0	1000	
4-Methyl-2-Pentanone	ND	6.1	1000	
4-Ethyltoluene	11	2.5	1000	
Acetone	ND	120	1000	
Benzyl Chloride	ND	7.8	1000	
Bromoform	ND	5.2	1000	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Cardno ERI	Date Received:	06/27/15
601 North McDowell Blvd.	Work Order:	15-06-2169
Petaluma, CA 94954-2312	Preparation:	N/A
	Method:	EPA TO-15M
	Units:	mg/m3
Project: ExxonMobil 99105/022783C		Page 6 of 10

Parameter	Result	RL	DF	Qualifiers
Bromomethane	ND	1.9	1000	
Carbon Disulfide	ND	31	1000	
Carbon Tetrachloride	ND	3.1	1000	
Chlorobenzene	ND	2.3	1000	
Dibromochloromethane	ND	4.3	1000	
Chloroethane	ND	1.3	1000	
Chloroform	ND	2.4	1000	
Chloromethane	ND	1.0	1000	
Bromodichloromethane	ND	3.4	1000	
Dichlorodifluoromethane	ND	2.5	1000	
Dichlorotetrafluoroethane	ND	14	1000	
Hexachloro-1,3-Butadiene	ND	16	1000	
2-Butanone	ND	4.4	1000	
Methylene Chloride	ND	17	1000	
2-Hexanone	ND	6.1	1000	
Styrene	ND	6.4	1000	
Tetrachloroethene	ND	3.4	1000	
Trichloroethene	ND	2.7	1000	
Trichlorofluoromethane	ND	5.6	1000	
Vinyl Acetate	ND	7.0	1000	
Vinyl Chloride	ND	1.3	1000	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	106	57-129	
1,2-Dichloroethane-d4	93	47-137	
Toluene-d8	86	78-156	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Cardno ERI		Date Received:	06/27/15
601 North McDowell Blvd.		Work Order:	15-06-2169
Petaluma, CA 94954-2312		Preparation:	N/A
		Method:	EPA TO-15M
		Units:	mg/m3
Project: ExxonMobil 99105/022783C			Page 7 of 10

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-981-5544**	**N/A**	**Air**	**GC/MS NN**	**N/A**	**06/27/15 17:04**	**150627L03**

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	0.0016	1.00	
Toluene	ND	0.019	1.00	
Ethylbenzene	ND	0.0022	1.00	
o-Xylene	ND	0.0022	1.00	
p/m-Xylene	ND	0.0087	1.00	
Xylenes (total)	ND	0.0022	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.0072	1.00	
Tert-Butyl Alcohol (TBA)	ND	0.015	1.00	
Diisopropyl Ether (DIPE)	ND	0.0084	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.0084	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.0084	1.00	
1,1,1-Trichloroethane	ND	0.0027	1.00	
1,1,2,2-Tetrachloroethane	ND	0.0069	1.00	
1,1,2-Trichloroethane	ND	0.0027	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.011	1.00	
1,1-Dichloroethane	ND	0.0020	1.00	
1,1-Dichloroethene	ND	0.0020	1.00	
1,2,4-Trichlorobenzene	ND	0.015	1.00	
1,2,4-Trimethylbenzene	ND	0.0074	1.00	
1,3,5-Trimethylbenzene	ND	0.0025	1.00	
c-1,2-Dichloroethene	ND	0.0020	1.00	
1,2-Dibromoethane	ND	0.0038	1.00	
1,2-Dichlorobenzene	ND	0.0030	1.00	
1,2-Dichloroethane	ND	0.0020	1.00	
1,2-Dichloropropane	ND	0.0023	1.00	
t-1,2-Dichloroethene	ND	0.0020	1.00	
c-1,3-Dichloropropene	ND	0.0023	1.00	
1,3-Dichlorobenzene	ND	0.0030	1.00	
t-1,3-Dichloropropene	ND	0.0045	1.00	
1,4-Dichlorobenzene	ND	0.0030	1.00	
4-Methyl-2-Pentanone	ND	0.0061	1.00	
4-Ethyltoluene	ND	0.0025	1.00	
Acetone	ND	0.12	1.00	
Benzyl Chloride	ND	0.0078	1.00	
Bromoform	ND	0.0052	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Cardno ERI	Date Received:	06/27/15
601 North McDowell Blvd.	Work Order:	15-06-2169
Petaluma, CA 94954-2312	Preparation:	N/A
	Method:	EPA TO-15M
	Units:	mg/m3
Project: ExxonMobil 99105/022783C		Page 8 of 10

Parameter	Result	RL	DF	Qualifiers
Bromomethane	ND	0.0019	1.00	
Carbon Disulfide	ND	0.031	1.00	
Carbon Tetrachloride	ND	0.0031	1.00	
Chlorobenzene	ND	0.0023	1.00	
Dibromochloromethane	ND	0.0043	1.00	
Chloroethane	ND	0.0013	1.00	
Chloroform	ND	0.0024	1.00	
Chloromethane	ND	0.0010	1.00	
Bromodichloromethane	ND	0.0034	1.00	
Dichlorodifluoromethane	ND	0.0025	1.00	
Dichlorotetrafluoroethane	ND	0.014	1.00	
Hexachloro-1,3-Butadiene	ND	0.016	1.00	
2-Butanone	ND	0.0044	1.00	
Methylene Chloride	ND	0.017	1.00	
2-Hexanone	ND	0.0061	1.00	
Styrene	ND	0.0064	1.00	
Tetrachloroethene	ND	0.0034	1.00	
Trichloroethene	ND	0.0027	1.00	
Trichlorofluoromethane	ND	0.0056	1.00	
Vinyl Acetate	ND	0.0070	1.00	
Vinyl Chloride	ND	0.0013	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	107	57-129	
1,2-Dichloroethane-d4	118	47-137	
Toluene-d8	103	78-156	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Cardno ERI	Date Received:	06/27/15
601 North McDowell Blvd.	Work Order:	15-06-2169
Petaluma, CA 94954-2312	Preparation:	N/A
	Method:	EPA TO-15M
	Units:	mg/m3
Project: ExxonMobil 99105/022783C		Page 9 of 10

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-981-5546**	**N/A**	**Air**	**GC/MS II**	**N/A**	**06/28/15 16:19**	**150628L02**

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	0.0016	1.00	
Toluene	ND	0.019	1.00	
Ethylbenzene	ND	0.0022	1.00	
o-Xylene	ND	0.0022	1.00	
p/m-Xylene	ND	0.0087	1.00	
Xylenes (total)	ND	0.0022	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.0072	1.00	
Tert-Butyl Alcohol (TBA)	ND	0.015	1.00	
Diisopropyl Ether (DIPE)	ND	0.0084	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.0084	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.0084	1.00	
1,1,1-Trichloroethane	ND	0.0027	1.00	
1,1,2,2-Tetrachloroethane	ND	0.0069	1.00	
1,1,2-Trichloroethane	ND	0.0027	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.011	1.00	
1,1-Dichloroethane	ND	0.0020	1.00	
1,1-Dichloroethene	ND	0.0020	1.00	
1,2,4-Trichlorobenzene	ND	0.015	1.00	
1,2,4-Trimethylbenzene	ND	0.0074	1.00	
1,3,5-Trimethylbenzene	ND	0.0025	1.00	
c-1,2-Dichloroethene	ND	0.0020	1.00	
1,2-Dibromoethane	ND	0.0038	1.00	
1,2-Dichlorobenzene	ND	0.0030	1.00	
1,2-Dichloroethane	ND	0.0020	1.00	
1,2-Dichloropropane	ND	0.0023	1.00	
t-1,2-Dichloroethene	ND	0.0020	1.00	
c-1,3-Dichloropropene	ND	0.0023	1.00	
1,3-Dichlorobenzene	ND	0.0030	1.00	
t-1,3-Dichloropropene	ND	0.0045	1.00	
1,4-Dichlorobenzene	ND	0.0030	1.00	
4-Methyl-2-Pentanone	ND	0.0061	1.00	
4-Ethyltoluene	ND	0.0025	1.00	
Acetone	ND	0.12	1.00	
Benzyl Chloride	ND	0.0078	1.00	
Bromoform	ND	0.0052	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Cardno ERI	Date Received:	06/27/15
601 North McDowell Blvd.	Work Order:	15-06-2169
Petaluma, CA 94954-2312	Preparation:	N/A
	Method:	EPA TO-15M
	Units:	mg/m3
Project: ExxonMobil 99105/022783C		Page 10 of 10

Parameter	Result	RL	DF	Qualifiers
Bromomethane	ND	0.0019	1.00	
Carbon Disulfide	ND	0.031	1.00	
Carbon Tetrachloride	ND	0.0031	1.00	
Chlorobenzene	ND	0.0023	1.00	
Dibromochloromethane	ND	0.0043	1.00	
Chloroethane	ND	0.0013	1.00	
Chloroform	ND	0.0024	1.00	
Chloromethane	ND	0.0010	1.00	
Bromodichloromethane	ND	0.0034	1.00	
Dichlorodifluoromethane	ND	0.0025	1.00	
Dichlorotetrafluoroethane	ND	0.014	1.00	
Hexachloro-1,3-Butadiene	ND	0.016	1.00	
2-Butanone	ND	0.0044	1.00	
Methylene Chloride	ND	0.017	1.00	
2-Hexanone	ND	0.0061	1.00	
Styrene	ND	0.0064	1.00	
Tetrachloroethene	ND	0.0034	1.00	
Trichloroethene	ND	0.0027	1.00	
Trichlorofluoromethane	ND	0.0056	1.00	
Vinyl Acetate	ND	0.0070	1.00	
Vinyl Chloride	ND	0.0013	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	100	57-129	
1,2-Dichloroethane-d4	108	47-137	
Toluene-d8	99	78-156	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/27/15
Work Order: 15-06-2169
Preparation: N/A
Method: EPA TO-3M
Units: mg/m3

Project: ExxonMobil 99105/022783C

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
VW2	15-06-2169-1-A	06/26/15 06:15	Air	GC 13	N/A	06/27/15 11:58	150627L01

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	7.0	1.00	

VW3	15-06-2169-2-A	06/26/15 06:45	Air	GC 13	N/A	06/27/15 12:13	150627L01

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	260	7.0	1.00	

VW4	15-06-2169-3-A	06/26/15 09:00	Air	GC 13	N/A	06/27/15 12:46	150627L01

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	140000	700	100	

Method Blank	098-01-005-6481	N/A	Air	GC 13	N/A	06/27/15 09:02	150627L01

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	7.0	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Sample Duplicate

Cardno ERI		Date Received:	06/27/15
601 North McDowell Blvd.		Work Order:	15-06-2169
Petaluma, CA 94954-2312		Preparation:	N/A
		Method:	EPA TO-3M
Project: ExxonMobil 99105/022783C			Page 1 of 1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
VW3	Sample	Air	GC 13	N/A	06/27/15 12:13	150627D01
VW3	Sample Duplicate	Air	GC 13	N/A	06/27/15 12:25	150627D01

Parameter	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
TPH as Gasoline	261.2	268.6	3	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Cardno ERI		Date Received:	06/27/15
601 North McDowell Blvd.		Work Order:	15-06-2169
Petaluma, CA 94954-2312		Preparation:	N/A
		Method:	EPA TO-15M
Project: ExxonMobil 99105/022783C			Page 1 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-981-5546	**LCS**	**Air**	**GC/MS II**	**N/A**	**06/28/15 12:18**	**150628L02**
099-12-981-5546	**LCSD**	**Air**	**GC/MS II**	**N/A**	**06/28/15 13:10**	**150628L02**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	0.07987	0.06812	85	0.06947	87	60-156	44-172	2	0-40	
Toluene	0.09421	0.08238	87	0.08337	88	56-146	41-161	1	0-43	
Ethylbenzene	0.1086	0.09563	88	0.09601	88	52-154	35-171	0	0-38	
o-Xylene	0.1086	0.09576	88	0.09583	88	52-148	36-164	0	0-38	
p/m-Xylene	0.2171	0.1940	89	0.1928	89	42-156	23-175	1	0-41	
Methyl-t-Butyl Ether (MTBE)	0.09013	0.07812	87	0.07933	88	50-150	33-167	2	0-35	
Tert-Butyl Alcohol (TBA)	0.1516	0.09912	65	0.1224	81	60-140	47-153	21	0-30	
Diisopropyl Ether (DIPE)	0.1045	0.07875	75	0.08034	77	60-140	47-153	2	0-30	
Ethyl-t-Butyl Ether (ETBE)	0.1045	0.08420	81	0.08581	82	60-140	47-153	2	0-30	
Tert-Amyl-Methyl Ether (TAME)	0.1045	0.08476	81	0.08697	83	60-140	47-153	3	0-30	
1,1,1-Trichloroethane	0.1364	0.1219	89	0.1213	89	50-150	33-167	0	0-35	
1,1,2,2-Tetrachloroethane	0.1716	0.1444	84	0.1443	84	50-150	33-167	0	0-35	
1,1,2-Trichloroethane	0.1364	0.1226	90	0.1244	91	65-149	51-163	2	0-37	
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.1916	0.1781	93	0.1780	93	50-150	33-167	0	0-35	
1,1-Dichloroethane	0.1012	0.08331	82	0.08470	84	50-150	33-167	2	0-35	
1,1-Dichloroethene	0.09912	0.08764	88	0.09109	92	50-150	33-167	4	0-35	
1,2,4-Trichlorobenzene	0.1855	0.2018	109	0.1900	102	50-150	33-167	6	0-35	
1,2,4-Trimethylbenzene	0.1229	0.1170	95	0.1158	94	50-150	33-167	1	0-35	
1,3,5-Trimethylbenzene	0.1229	0.1103	90	0.1102	90	50-150	33-167	0	0-35	
c-1,2-Dichloroethene	0.09912	0.08170	82	0.08297	84	50-150	33-167	2	0-35	
1,2-Dibromoethane	0.1921	0.1772	92	0.1767	92	54-144	39-159	0	0-36	
1,2-Dichlorobenzene	0.1503	0.1424	95	0.1423	95	34-160	13-181	0	0-47	
1,2-Dichloroethane	0.1012	0.09554	94	0.09608	95	69-153	55-167	1	0-35	
1,2-Dichloropropane	0.1155	0.09816	85	0.1006	87	67-157	52-172	2	0-35	
t-1,2-Dichloroethene	0.09912	0.08299	84	0.08406	85	50-150	33-167	1	0-35	
c-1,3-Dichloropropene	0.1135	0.1097	97	0.1105	97	61-157	45-173	1	0-35	
1,3-Dichlorobenzene	0.1503	0.1438	96	0.1426	95	50-150	33-167	1	0-35	
t-1,3-Dichloropropene	0.1135	0.1251	110	0.1255	111	50-150	33-167	0	0-35	
1,4-Dichlorobenzene	0.1503	0.1441	96	0.1435	95	36-156	16-176	0	0-47	
4-Methyl-2-Pentanone	0.1024	0.09271	91	0.09410	92	50-150	33-167	1	0-35	
4-Ethyltoluene	0.1229	0.1136	92	0.1128	92	50-150	33-167	1	0-35	
Acetone	0.05939	0.05464	92	0.05681	96	50-150	33-167	4	0-35	
Benzyl Chloride	0.1294	0.1346	104	0.1346	104	50-150	33-167	0	0-35	
Bromoform	0.2584	0.2532	98	0.2494	97	50-150	33-167	1	0-38	
Bromomethane	0.09708	0.09521	98	0.09890	102	50-150	33-167	4	0-35	
Carbon Disulfide	0.07785	0.06805	87	0.06867	88	50-150	33-167	1	0-35	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Cardno ERI	Date Received:	06/27/15
601 North McDowell Blvd.	Work Order:	15-06-2169
Petaluma, CA 94954-2312	Preparation:	N/A
	Method:	EPA TO-15M
Project: ExxonMobil 99105/022783C		Page 2 of 5

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Carbon Tetrachloride	0.1573	0.1567	100	0.1548	98	64-154	49-169	1	0-32	
Chlorobenzene	0.1151	0.1029	89	0.1038	90	50-150	33-167	1	0-35	
Dibromochloromethane	0.2130	0.1962	92	0.1958	92	50-150	33-167	0	0-35	
Chloroethane	0.06596	0.06025	91	0.06287	95	50-150	33-167	4	0-35	
Chloroform	0.1221	0.1079	88	0.1077	88	50-150	33-167	0	0-35	
Chloromethane	0.05163	0.04828	94	0.04856	94	50-150	33-167	1	0-35	
Bromodichloromethane	0.1675	0.1592	95	0.1590	95	50-150	33-167	0	0-35	
Dichlorodifluoromethane	0.1236	0.1176	95	0.1157	94	50-150	33-167	2	0-35	
Dichlorotetrafluoroethane	0.1748	0.1354	78	0.1377	79	50-150	33-167	2	0-35	
Hexachloro-1,3-Butadiene	0.2666	0.2647	99	0.2421	91	50-150	33-167	9	0-35	
2-Butanone	0.07373	0.06734	91	0.06782	92	50-150	33-167	1	0-35	
Methylene Chloride	0.08684	0.05769	66	0.06818	79	50-150	33-167	17	0-35	
2-Hexanone	0.1024	0.09024	88	0.09081	89	50-150	33-167	1	0-35	
Styrene	0.1065	0.09812	92	0.09848	92	50-150	33-167	0	0-35	
Tetrachloroethene	0.1696	0.1572	93	0.1561	92	56-152	40-168	1	0-40	
Trichloroethene	0.1343	0.1219	91	0.1236	92	63-159	47-175	1	0-34	
Trichlorofluoromethane	0.1405	0.1249	89	0.1386	99	50-150	33-167	10	0-35	
Vinyl Acetate	0.08803	0.06846	78	0.06922	79	50-150	33-167	1	0-35	
Vinyl Chloride	0.06391	0.05785	91	0.05835	91	45-177	23-199	1	0-36	

Total number of LCS compounds: 55
Total number of ME compounds: 0
Total number of ME compounds allowed: 3
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Cardno ERI		Date Received:	06/27/15
601 North McDowell Blvd.		Work Order:	15-06-2169
Petaluma, CA 94954-2312		Preparation:	N/A
		Method:	EPA TO-15M
Project: ExxonMobil 99105/022783C			Page 3 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-981-5544	**LCS**	**Air**	**GC/MS NN**	**N/A**	**06/27/15 12:46**	**150627L03**
099-12-981-5544	**LCSD**	**Air**	**GC/MS NN**	**N/A**	**06/27/15 13:39**	**150627L03**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	0.07987	0.08089	101	0.08467	106	60-156	44-172	5	0-40	
Toluene	0.09421	0.1048	111	0.1117	119	56-146	41-161	6	0-43	
Ethylbenzene	0.1086	0.1221	112	0.1295	119	52-154	35-171	6	0-38	
o-Xylene	0.1086	0.1204	111	0.1273	117	52-148	36-164	6	0-38	
p/m-Xylene	0.2171	0.2503	115	0.2662	123	42-156	23-175	6	0-41	
Methyl-t-Butyl Ether (MTBE)	0.09013	0.1024	114	0.1068	119	50-150	33-167	4	0-35	
Tert-Butyl Alcohol (TBA)	0.1516	0.1508	100	0.1396	92	60-140	47-153	8	0-30	
Diisopropyl Ether (DIPE)	0.1045	0.1009	97	0.1063	102	60-140	47-153	5	0-30	
Ethyl-t-Butyl Ether (ETBE)	0.1045	0.1157	111	0.1219	117	60-140	47-153	5	0-30	
Tert-Amyl-Methyl Ether (TAME)	0.1045	0.1143	109	0.1192	114	60-140	47-153	4	0-30	
1,1,1-Trichloroethane	0.1364	0.1540	113	0.1597	117	50-150	33-167	4	0-35	
1,1,2,2-Tetrachloroethane	0.1716	0.1670	97	0.1761	103	50-150	33-167	5	0-35	
1,1,2-Trichloroethane	0.1364	0.1394	102	0.1435	105	65-149	51-163	3	0-37	
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.1916	0.1886	98	0.1972	103	50-150	33-167	4	0-35	
1,1-Dichloroethane	0.1012	0.1039	103	0.1087	107	50-150	33-167	4	0-35	
1,1-Dichloroethene	0.09912	0.1000	101	0.1049	106	50-150	33-167	5	0-35	
1,2,4-Trichlorobenzene	0.1855	0.1906	103	0.1927	104	50-150	33-167	1	0-35	
1,2,4-Trimethylbenzene	0.1229	0.1364	111	0.1425	116	50-150	33-167	4	0-35	
1,3,5-Trimethylbenzene	0.1229	0.1360	111	0.1428	116	50-150	33-167	5	0-35	
c-1,2-Dichloroethene	0.09912	0.09290	94	0.09702	98	50-150	33-167	4	0-35	
1,2-Dibromoethane	0.1921	0.2073	108	0.2190	114	54-144	39-159	5	0-36	
1,2-Dichlorobenzene	0.1503	0.1453	97	0.1493	99	34-160	13-181	3	0-47	
1,2-Dichloroethane	0.1012	0.1152	114	0.1196	118	69-153	55-167	4	0-35	
1,2-Dichloropropane	0.1155	0.1187	103	0.1239	107	67-157	52-172	4	0-35	
t-1,2-Dichloroethene	0.09912	0.09483	96	0.09959	100	50-150	33-167	5	0-35	
c-1,3-Dichloropropene	0.1135	0.1261	111	0.1323	117	61-157	45-173	5	0-35	
1,3-Dichlorobenzene	0.1503	0.1495	99	0.1550	103	50-150	33-167	4	0-35	
t-1,3-Dichloropropene	0.1135	0.1451	128	0.1508	133	50-150	33-167	4	0-35	
1,4-Dichlorobenzene	0.1503	0.1486	99	0.1539	102	36-156	16-176	3	0-47	
4-Methyl-2-Pentanone	0.1024	0.1072	105	0.1124	110	50-150	33-167	5	0-35	
4-Ethyltoluene	0.1229	0.1339	109	0.1398	114	50-150	33-167	4	0-35	
Acetone	0.05939	0.06348	107	0.06558	110	50-150	33-167	3	0-35	
Benzyl Chloride	0.1294	0.1548	120	0.1591	123	50-150	33-167	3	0-35	
Bromoform	0.2584	0.2801	108	0.2939	114	50-150	33-167	5	0-38	
Bromomethane	0.09708	0.1032	106	0.1085	112	50-150	33-167	5	0-35	
Carbon Disulfide	0.07785	0.07693	99	0.08058	104	50-150	33-167	5	0-35	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Cardno ERI	Date Received:	06/27/15
601 North McDowell Blvd.	Work Order:	15-06-2169
Petaluma, CA 94954-2312	Preparation:	N/A
	Method:	EPA TO-15M
Project: ExxonMobil 99105/022783C		Page 4 of 5

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Carbon Tetrachloride	0.1573	0.1905	121	0.1968	125	64-154	49-169	3	0-32	
Chlorobenzene	0.1151	0.1234	107	0.1298	113	50-150	33-167	5	0-35	
Dibromochloromethane	0.2130	0.2454	115	0.2594	122	50-150	33-167	6	0-35	
Chloroethane	0.06596	0.06498	99	0.06818	103	50-150	33-167	5	0-35	
Chloroform	0.1221	0.1266	104	0.1324	108	50-150	33-167	5	0-35	
Chloromethane	0.05163	0.05099	99	0.05443	105	50-150	33-167	7	0-35	
Bromodichloromethane	0.1675	0.1952	117	0.2004	120	50-150	33-167	3	0-35	
Dichlorodifluoromethane	0.1236	0.1072	87	0.1114	90	50-150	33-167	4	0-35	
Dichlorotetrafluoroethane	0.1748	0.1516	87	0.1575	90	50-150	33-167	4	0-35	
Hexachloro-1,3-Butadiene	0.2666	0.2657	100	0.2821	106	50-150	33-167	6	0-35	
2-Butanone	0.07373	0.07622	103	0.07964	108	50-150	33-167	4	0-35	
Methylene Chloride	0.08684	0.07679	88	0.08077	93	50-150	33-167	5	0-35	
2-Hexanone	0.1024	0.1086	106	0.1163	114	50-150	33-167	7	0-35	
Styrene	0.1065	0.1119	105	0.1189	112	50-150	33-167	6	0-35	
Tetrachloroethene	0.1696	0.1818	107	0.1925	114	56-152	40-168	6	0-40	
Trichloroethene	0.1343	0.1428	106	0.1492	111	63-159	47-175	4	0-34	
Trichlorofluoromethane	0.1405	0.1557	111	0.1610	115	50-150	33-167	3	0-35	
Vinyl Acetate	0.08803	0.08454	96	0.08856	101	50-150	33-167	5	0-35	
Vinyl Chloride	0.06391	0.06648	104	0.06980	109	45-177	23-199	5	0-36	

Total number of LCS compounds: 55
Total number of ME compounds: 0
Total number of ME compounds allowed: 3
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Cardno ERI		Date Received:	06/27/15
601 North McDowell Blvd.		Work Order:	15-06-2169
Petaluma, CA 94954-2312		Preparation:	N/A
		Method:	EPA TO-3M
Project: ExxonMobil 99105/022783C			Page 5 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
098-01-005-6481	LCS	Air	GC 13	N/A	06/27/15 08:48	150627L01

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
TPH as Gasoline	932.5	924.5	99	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 15-06-2169 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA TO-15M	N/A	866	GC/MS II	2
EPA TO-15M	N/A	866	GC/MS NN	2
EPA TO-3M	N/A	929	GC 13	2

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Glossary of Terms and Qualifiers

Work Order: 15-06-2169 Page 1 of 1

Qualifiers	Definition
AZ	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
B	Analyte was present in the associated method blank.
BA	The MS/MSD RPD was out of control due to suspected matrix interference.
BB	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
DF	Reporting limits elevated due to matrix interferences.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
GE	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
HD	Chromat. profile inconsistent with pattern(s) of ref. fuel stnds.
HO	High concentration matrix spike recovery out of limits
HT	Analytical value calculated using results from associated tests.
HX	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS was in control.
IL	Relative percent difference out of control.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
LD	Analyte presence was not confirmed by second column or GC/MS analysis.
LP	The LCS and/or LCSD recoveries for this analyte were above the upper control limit. The associated sample was non-detected. Therefore, the sample data was reported without further clarification.
LQ	LCS recovery above method control limits.
LR	LCS recovery below method control limits.
ND	Parameter not detected at the indicated reporting limit.
QO	Compound did not meet method-described identification guidelines. Identification was based on additional GC/MS characteristics.
RU	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
SG	A silica gel cleanup procedure was performed.
SN	See applicable analysis comment.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841
Phone: 714-895-5494
Fax: 714-894-7501

ExxonMobil
15-06-2169

Consultant Name: Cardno ERI
Consultant Address: 601 North McDowell Blvd
Consultant City/State/Zip: Petaluma, California 94954
ExxonMobil Project Mgr: Jennifer C. Sedlachek
Consultant Project Mgr: Greg Gurss
Consultant Telephone Number: (707) 766-2000 Fax No.: (707) 789-0414
Sampler Name (Print): Peter R Magdanov
Sampler Signature:

Account #: NA PO#: Direct Bill Cardno ERI
Invoice To: Jennifer C. Sedlachek
Report To: Greg Gurss
Project Name: 02 2783 C
ExxonMobil Site #: 99105 Major Project (AFE #):
Site Address: 6301 San Pablo Ave
Site City, State, Zip: Oakland, CA
Oversight Agency: Alameda County Environmental Health Department

	Sample ID	Field Point Name	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Methanol	Sodium Bisulfate	HCl (Blue Label)	NaOH (Orange Label)	H_2SO_4 Plastic (Yellow Label)	H_2SO_4 Glass (Yellow Label)	HNO_3 (Red Label)	Ice	Other	None (Black Label)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Air (SV)	Other (specify):	Analyze For: TPHg EPA TO-3/15	Full Scan VOC TO-15M	RUSH TAT (Pre-Schedule)	5-day TAT	Standard 10-day TAT	Due Date of Report
~~VW1~~	~~VW1~~				~~1L Tedlar~~	~~X~~												~~X~~						~~X~~		~~X~~	~~X~~			~~X~~	
1	VW2	VW2	6-26-15	0645	1L Tedlar	X												X						X		X	X			X	
2	VW3	VW3	6-26-15	0845	1L Tedlar	X												X						X		X	X			X	
3	VW4	VW4	6-26-15	0900	1L Tedlar	X												X						X		X	X			X	
~~VW5~~	~~VW5~~				~~1L Tedlar~~	~~X~~												~~X~~						~~X~~		~~X~~	~~X~~			~~X~~	

Comments/Special Instructions: Vapor samples: Report in mg/m3 unit for pdf and edd

PLEASE E-MAIL ALL PDF FILES TO (NORCALLABS@ERI-US.COM)

GLOBAL ID # (T0609700161)

Laboratory Comments:
Temperature Upon Receipt:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
QC Deliverables (please circle one)
Level 2
Level 3
Level 4
Site Specific - If yes, please attach pre-schedule w/ TestAmerica Project Manager or attach specific instructions

Relinquished by:		Date	Time	Received by:	Date	Time
Peter R. Magdanov		6/26/15	1200	Tom O'Malley ECI	6/26/15	1200
Tom O'Malley ECI	650	6/26/15	1730	Fed Ex	6/27/15	1020

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GSO

800-322-5555 www.gso.com

Ship From
CAL SCIENCE- CONCORD
ALAN KEMP
5063 COMMERCIAL CIRCLE
#H
CONCORD, CA 94520

Ship To
CEL
SAMPLE RECEIVING
7440 LINCOLN WAY
GARDEN GROVE, CA 92841

COD: $0.00
Weight: 0 lb(s)
Reference:
CARDNO ERI, TRC
Delivery Instructions:

Signature Type: REQUIRED

Tracking #: 528404903

SDS

ORC
GARDEN GROVE

A

D92845A

39409980

Print Date: 6/26/2015 2:06 PM

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer. Securely attach this label to your package, do not cover the barcode.

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WORK ORDER NUMBER: 15-06- 2169

SAMPLE RECEIPT CHECKLIST

BOX 1 OF 1

CLIENT: Cardno ERI

DATE: 06 / 27 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.3°C); Temperature (w/o CF): _____°C (w/ CF): _____°C; ☐ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☑ Air ☐ Filter Checked by: SR

CUSTODY SEAL:

Box ☑ Present and Intact ☐ Present but Not Intact ☐ Not Present ☐ N/A Checked by: SR

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1013

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☑
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☑	☐	☐

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOAh ☐ VOAna_2 ☐ 100PJ ☐ 100PJna_2 ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☐ 250CGB**s** ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☐ 1AGB ☐ 1AGBna_2 ☐ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☑ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na_2** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1013

Reviewed by: SR

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APPENDIX D

WASTE DISPOSAL DOCUMENTATION

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. 27432015 0626

2. Page 1 of 1

3. Generator's Name and Mailing address
ExxonMobil Environmental Services/Manpower Contractor
3700 W. 190th St. NTO #1106, Torrance, CA 90504
4. Generator's Phone : (310) 212 2938

1301 S. Pollard. Oakland, CA (EM 99105)

5. Transporter 1 Company Name: CARDNO

6. US EPA ID Number

A. State Transporter's ID 707-752-2000

B. Transporter 1 Phone

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
INSTRAT INC.
1105 C. AIRPORT ROAD
RIO VISTA, CA 94571

10. US EPA ID Number

E. State Facility's ID

F. Facility's Phone 530-753-1826

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON-HAZARDOUS PURGE WATER	1	Trailer	21	
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

GENERATOR

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: On behalf of ExxonMobil Azat R. Magdanov

Signature

Date: Month 06 Day 26 Year 15

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Sean R. Schiza

Signature

Date: Month 7 Day 2 Year 15

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name: MICHAEL WHITEHEAD

Signature

Date: Month 7 Day 2 Year 15

NON-HAZARDOUS WASTE