PERJURY STATEMENT

Subject:

RINO PACIFIC/OAKLAND TRUCK STOP ACEHS Fuel Leak Case No. RO0000234 1107 5th Street, Oakland, California

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

Mr. Reed Rinehart Rino Pacific, LLC 2401 North State Street Ukiah, California 95482

3 23 2011

Date

RECEIVED

8:59 am, Oct 12, 2011 Alameda County

Alameda County Environmental Health

Advanced GeoEnvironmental, Inc.



10 October 2011 AGE-NC Project No. 03-1101

Mr. Jerry Wickham Alameda County Environmental Health Services 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502-6577

Subject: Remediation Feasibility Study Report RINO PACIFIC/OAKLAND TRUCK STOP ACEHS Fuel Leak Case No. RO0000234 1107 5th Street, Oakland, California

Dear Mr. Wickham:

At the request of Rino Pacific, LLC, *Advanced* GeoEnvironmental, Inc. (AGE) has prepared the enclosed *Remediation Feasability Study Report* for the site located at 1107 5th Street, Oakland, CA. The report evaluates additional remedial alternatives to mitigate the remaining petroleum hydrocarbon impact to soil and ground water at the above-referenced site. Additionally, the report includes a limited pilot test work plan. The enclosed report was prepared as directed by Alameda County Environmental Health Services (ACEHS) letter, dated 26 July 2011.

If you have any questions or require further information, please contact me at (209) 467-1006.

Sincerely,

Advanced GeoEnvironmental, Inc.

Brian W. Millman Senior Project Geologist California Professional Geologist #8574

Remediation Feasibility Study Report RINO PACIFIC/OAKLAND TRUCK STOP (ACHES Fuel Leak Case No. RO0000234) 1107 5th Street, Oakland, California

10 October 2011 AGE-NC Project No. 03-1101

PREPARED FOR:

Mr. Reed Rinehart RINO PACIFIC, LLC

PREPARED BY:



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Remediation Feasibility Study Report RINO PACIFIC/OAKLAND TRUCK STOP (ACEHS Fuel Leak Case No. RO0000234) 1107 5th Street, Oakland, California

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Remediation Feasibility Study Report RINO PACIFIC/OAKLAND TRUCK STOP 1107 5[™] Street, Oakland, California

TABLE OF CONTENTS

SECTION

PAGE

1.0.	INTR	ODUCTION	1
2.0.	SITE	REMEDIAL HISTORY	1
3.0.	ADD 3.1.	TIONAL REMEDIAL ALTERNATIVES	
	0.1.	3.1.1. Hydrogen Peroxide/Modified Fenton's Reagent 3.1.2. RegenOx™	3
	3.2.	ENHANCED AEROBIC BIO-REMEDIATION.	4
	3.3.	3.2.2. Oxygen Release Compound Advanced	5
		3.3.1 Ground Water Extraction3.3.2. Dual Phase Extraction	
4.0.	SELE	ECTION OF REMEDIAL TECHNOLOGY & SCOPE OF WORK	7
	4.1. 4.2.	ISCO PILOT TEST	8
5.0.	FIEL	D PROCEDURES	
	5.1. 5.2.	ISCO SOLUTION PREPARATION AND INJECTION PROCEDURE PROGRESS/CONFIRMATION/COMPLIANCE MONITORING	9
	5.3.	AND SAMPLING	9 10

Remediation Feasibility Study Report RINO PACIFIC/OAKLAND TRUCK STOP 1107 5TH Street, Oakland, California

TABLE OF CONTENTS

FIGURES

Figure 1 - Location Map Figure 2 - Site Plan Figure 3 - Estimated Lateral Extent of Dissolved TPH-g Figure 4 - Estimated Lateral Extent of Dissolved TPH-d Figure 5 - Estimated Lateral Extent of Dissolved MTBE Figure 6 - Adsorbed TPH-g/TPH-d: A-A'

TABLES

- Table 1 Well Construction Details
- Table 2 Ground Water Elevation Data
- Table 3 Analytical Results of Ground Water Samples
- Table 4 Ozone System Operation and Maintenance

APPENDICES

- Appendix A Historical Site Background Information
- Appendix B Regulatory Letter
- Appendix C Monitoring and Sampling Procedures

Remediation Feasibility Study Report RINO PACIFIC/OAKLAND TRUCK STOP 1107 5TH Street, Oakland, California

1.0. INTRODUCTION

At the request of Rino Pacific LLC, *Advanced* GeoEnvironmental, Inc (AGE) has prepared the enclosed *Remediation Feasability Study Report* for the site located at 1107 5th Street, Oakland, CA (site). The report evaluates additional remedial alternatives to mitigate the remaining petroleum hydrocarbon impact to soil and ground water at the above-referenced site. Included in the enclosed report are procedures for the performance of a limited *in-situ* chemical oxidation (ISCO) pilot test. The site and surrounding area are illustrated in Figure 1. On-site structures, soil borings, well locations and other features are illustrated in Figure 2. Well construction details are summarized in Table 1. Ground water elevation and analytical data is provided in Tables 2 and 3. A summary of historical site background information is included in Appendix A. A review of current site conditions was included in the AGE-prepared, *First Semi-Annual Report - 2011 (January to June)*, dated 20 June 2011.

2.0. SITE REMEDIAL HISTORY

On 24 September 2005, *In-situ* ozone sparging was initiated at the site. Currently, two ozone sparging units are installed at the site (East and West). The West Ozone Unit is connected to wells OZ-6R, OZ-7R, OZ-8, OZ-9, OZ-10R, OZ-16R, OZ-17R and OZ-18 through OZ-20. The East Ozone Unit is connected to wells OZ-1 through OZ-5 and OZ-11 through OZ-15. During remedial operations the ozone systems were set to inject ozone for periods of 60 minutes per injection well. After a cycle was completed, both ozone systems were non-operational for a period of one hour. The injection cycles resumed following the one-hour hiatus.

Between September 2005 and 19 January 2011, the East and West Ozone Units operated intermittently, with significant periods of non-operation due to repairs and routine maintenance. Based on hourly readings, the west ozone system operated for a total of 32,091 hours (equivalent to 1,337 days), while the east ozone unit operated a total of 38,192 hours (equivalent to 1,597 days). During operation, injection flow rates were set at or near 20 standard cubic feet hour (scfh; Table 4).

During remedial operations, AGE staff performed weekly and monthly operation and maintenance site visits to inspect, monitor and maintain the interim ozone remediation systems. On 19 January 2011, during a thorough inspection of the systems, faulty solenoid valves were discovered at both units effecting the efficiency, production, and injection of ozone. Both the East and West Units were turned off for repair during the first quarter 2011 and have remained non-operational. Additional background information and a detailed

10 October 2011 AGE-NC Project No. 03-1101 Page 2 of 10

remedial history is included in Appendix A.

Between September 2005 and January 2011 (during remedial operation), cleanup progress at the site has been sporadic. Concentrations of total petroleum hydrocarbons as gasoline (TPH-g) have increased in well MW-5 but decreased in well MW-7. Conversely, total petroleum hydrocarbons as diesel (TPH-d) have decreased in well MW-5 but increased in well MW-7. However, after approximately 32,091 hours (West Ozone Unit) and 38,192 hours (East Ozone Unit) of operation, overall petroleum hydrocarbon concentrations at the site have not decreased to levels near water quality objectives. Concentration trends depicting cleanup progress since initiation of remedial operations were included in the AGE-prepared, *First Semi-Annual Report - 2011 (January to June)*, dated 20 June 2011.

3.0. ADDITIONAL REMEDIAL ALTERNATIVES

Due to the slow cleanup progress with the current remedial technology, the Alameda County Environmental Health Services (ACEHS) has directed by letter dated 26 July 2011, to prepare a feasibility study report to evaluate additional remedial options (Appendix B). The ACEHS letter states, "The ozone units have operated since 2005 and it appears that continued operation of the system is unlikely to achieve significant additional cleanup results". The same conclusion was drawn from the State Water Resources Control Board's 2nd Five Year Review Summary for the site, dated 11 May 2010. In accordance with ACEHS directives, AGE has provided the following evaluation of applicable site remedial options.

3.1. IN-SITU CHEMICAL OXIDATION

Advanced Oxidation Processes (AOP) refers to a set of treatment options used to remediate organic and inorganic wastes from water. AOP are commonly used to remediate gasoline from underground fuel tank leaks and to treat waste water. The most predominant radical found in the reaction is the hydroxyl radical. The hydroxyl ion generally grabs hydrogen atoms from the organic molecules in contaminated waters and causes organic molecules to become unstable and eventually breakdown. The end product of these reactions is generally small amounts of mineral acid from halogens, nitrogen or sulfur present in soil or ground water, bicarbonate, and water.

In general four common AOP's are used in industry to remediate hydrocarbons in soil and ground water: ozone, hydrogen peroxide, Fenton's reagent (generally a mixture of hydrogen peroxide and acid) (brand named RegenOx[™]) and persulfate. For the site, hydrogen peroxide/modified Fenton's reagent and RegenOx[™] have been chosen for

10 October 2011 AGE-NC Project No. 03-1101 Page 3 of 10

evaluation based on the lateral and vertical extent of residual hydrocarbons in soil and ground water and based on sample concentrations reported during historical site investigations. Figures 3 through 5 illustrate in plan view the estimated lateral extent of dissolved TPH-g, TPH-d, and methyl tertiary butyl ether (MTBE) in ground water; Figure 6 illustrates in cross-sectional view the estimated lateral and vertical extent of adsorbed TPH-g and TPH-d in soil.

3.1.1. Hydrogen Peroxide/Modified Fenton's Reagent

Hydrogen peroxide is widely used in the environmental industry to remediate hydrocarbon impact to soil and ground water. Hydrogen peroxide is a compound with an oxygen-oxygen single bond and is the simplest peroxide and oxidizer. Hydrogen peroxide is a clear liquid, which is slightly more viscous than water. Hydrogen peroxide is generally supplied in a semi-diluted form known as 35% industrial grade. At this dilution the hydrogen peroxide is highly reactive when making contact with organics such as gasoline range organics. Hydrogen peroxide is typically applied in a slightly more diluted form and can also be mixed with a simple acid such as muriatic or sulfuric acid to create Fenton's Reagent.

Hydrogen peroxide mixtures are generally applied to the subsurface by either pressure injection, into fixed wells or borings, or by gravity feeding, which is generally conducted in a fixed well application only.

Based on the nature and extent of the petroleum hydrocarbon impact at the site, hydrogen peroxide application appears to be a moderate to favorable remedial alternative for the site. Several wells, previously installed at the site for ozone application, could be immediately used to apply the mixture across the site. Additionally, the site is equipped with several monitoring wells, which could also be used as injection points. Utilizing the site well network would forgo additional well installation costs and provide an adequate network to treat a significant portion of the residual hydrocarbon impact.

3.1.2. RegenOx™

RegenOxTM a patented material distributed by *Regenesis* of San Clemente, California. The media is an advanced chemical oxidation technology that destroys contaminants through powerful, controlled chemical reactions. RegenOxTM uses a solid alkaline oxidant that employs a sodium percarbonate complex with a multi-part catalytic formula to directly oxidize contaminants. The catalytic component generates a range of highly oxidizing free radicals that help rapidly and effectively destroy a wide range of target contaminants including both petroleum hydrocarbons and chlorinated compounds.

10 October 2011 AGE-NC Project No. 03-1101 Page 4 of 10

Based on the site soil and ground water plume conditions, RegenOx[™] is considered to be a low to moderately effective treatment technology for remediation of residual hydrocarbons at the site. Application of RegenOx[™] would likely require a modest amount of new borings for injection points and could require several applications/boring advancement events before achieving site cleanup goals, driving up remedial costs and extending the life of the project.

3.2. ENHANCED AEROBIC BIO-REMEDIATION

Bio-remediation is a term generally used to describe the destruction of contaminants by biological mechanisms. Certain indigenous or exogenous organisms can digest organic substances such as fuels or solvents, resulting in the production harmless bi-products such as carbon dioxide and water. In applicable situations the use of bio-remediation technologies can optimize environmental conditions so that the appropriate organism can flourish and destroy contaminants. For the subject site, AGE has evaluated two applicable bio-remediation technologies, which include air sparging and Oxygen Release Compound Advanced (ORC-advanced (B).

3.2.1. Air Sparging

In-situ air sparging (IAS) utilizes air injection to volatilize dissolved hydrocarbons and strip hydrocarbon vapor into the vadose zone, where it is generally recovered by a dedicated SVE system. Commonly, an extraction well is surrounded by specifically designed air injection (sparging) wells that are screened only within the saturated zone (i.e. below ground water). A low capacity blower (air compressor) connected to the injection wells forces air under pressure into the saturated zone, producing air channels that strip dissolved contaminants from the ground water and rise to the soil-air-water interface. Upon reaching the unsaturated zone, the volatilized hydrocarbons are drawn toward the extraction well by the subsurface air flow induced by the vacuum potential.

Based on site conditions, which include a very limited vadose zone, air sparging is not considered to be a feasible remedial alternative. Air sparging has also been discounted due to the heavy nature of the contaminants of concern and based on site lithologic conditions (i.e. sands overlain by "bay muds" or clay").

10 October 2011 AGE-NC Project No. 03-1101 Page 5 of 10

3.2.2. Oxygen Release Compound Advanced

ORC-advanced ® media is a patented material distributed by *Regenesis* Bioremediation Products of San Clemente, California. ORC-advanced ® media is typically applied using direct-injection techniques. This process requires ORC-advanced ® media to be mixed with water to form an injectable slurry which is then pressure injected (using a pump) into the zone of contamination. Once in the aquifer, tiny ORC-advanced ® media particles can sorb to and/or reside in the soil matrix and produce a controlled release of oxygen for periods of up to 1 year.

Duration (and cost) of enhanced bio-remediation is dependent on the volume of saturated soil and water to be remediated, the number of injection points/wells, the average concentrations of contaminants and nutrients, ground water gradient, and the permeability of soil. Theoretically, the radius of influence of the injection points should increase rapidly at first, then gradually decline as the affected volume increases and the ORC-advanced ® media encounters decreasing hydrocarbon concentrations toward the margins of the hydrocarbon plume. Shorter-chain hydrocarbons are typically consumed first and longer-chain hydrocarbons later.

ORC is considered to be a moderately favorable alternative to ozone sparging. However, ORC does not appear to be the best available technology based on the following:

- Remediation at sites with similar soil compositions and hydrocarbon-impact typically takes between 24 and 48 months.
- Adsorbed and dissolved concentrations at the site would generally require an initial dose of a stronger oxidant to reduce concentrations to levels where ORC can treat the plumes.
- A large number of borings and several treatments would likely need to be performed to achieve cleanup goals.
- Additional monitoring costs would be incurred to track the progress of the injections, driving up the overall cost to complete the project.

3.3. PHYSICAL/MECHANICAL TREATMENT

AGE has evaluated two physical/mechanical treatment alternatives for the site, dual phase extraction and ground water extraction.

10 October 2011 AGE-NC Project No. 03-1101 Page 6 of 10

The presence of dissolved hydrocarbons at the site would require treatment of any recoverable ground water. Two of the most common methods of water treatment are air stripping and carbon adsorption. Air stripping involves removal of volatile organic compounds from ground water by promoting the transfer of contaminants from the dissolved phase to the vapor phase. The process usually works well with volatile organic compounds, but less successfully with longer-chained hydrocarbons. Carbon adsorption utilizes granular activated carbon to simply "filter" organic compounds out of ground water. A third, but less common method of above-ground treatment of water is bioremediation. Contaminated ground water is "treated" by adding hydrocarbon-degrading microbes or by augmenting natural hydrocarbon degradation activities with the introduction of nutrients.

3.3.1 Ground Water Extraction

There are several different methods for treatment of extracted ground water, which are collectively called 'pump and treat'. As the name indicates, all methods involve extraction and transfer of contaminated ground water from the aquifer to an above-ground treatment or disposal/recycling facility. The extraction is performed utilizing an automatic pump system to maintain capture characteristics in the aquifer and to assure that process volume requirements are maintained. After treatment, the water is usually discharged into a sanitary sewer or separate storm sewers.

Ground water extraction does not appear to be the most feasible or cost-effective option of treatment for the site based on the following:

- Based on the estimated lateral limits of the plume, additional dedicated ground water extraction wells would be needed in order to effectively capture the ground water plume.
- Ground water extraction alone does not effectively treat adsorbed hydrocarbons, which are known to be present at the site.
- Ground water extraction would require several years of remedial operation to achieve water quality objectives.

3.3.2. Dual Phase Extraction

Dual phase extraction (DPE) is a technology that simultaneously recovers adsorbed hydrocarbons from the vadose zone and the saturated zone subsurface by lowering the ground water level to expose soil strata to high vacuum extraction.

10 October 2011 AGE-NC Project No. 03-1101 Page 7 of 10

Dual phase extraction is considered to be a moderately favorable option for remediation of the dissolved and adsorbed phase plumes at the site. However, DPE was not chosen as the best available remedial technology based on the following:

- Well installation, infrastructure installation and system purchase would be costly for a remedial operation that would likely be limited based on the nature of the adsorbed portion of the contaminant plumes.
- Several years of costly remedial operation would be required to achieve water quality objectives.
- Treatment cost for extracted vapors, accompanied with additional costs for disposal of extracted ground water could be costly. Further, costs for ground water disposal, following treatment, would increase with the amount of ground water extracted, a variable currently unknown.

4.0. SELECTION OF REMEDIAL TECHNOLOGY & SCOPE OF WORK

Based on the above evaluation of remedial technologies, it is AGE's opinion that the best available technology to remediate residual hydrocarbon impact to soil and ground water at the site is a form of Fenton's Reagent. Prior to design of a full scale remedial action plan, AGE is recommending performance of a limited ISCO pilot test utilizing a solution of 5% hydrogen peroxide and common muriatic acid. Results from the pilot test would be used to evaluate the overall performance of the selected technology and to design a full scale application plan of the proposed media. For the pilot test, AGE proposes to apply a hydrogen peroxide and acidified solution to the historically highest impacted wells MW-7 and MW-8 by either pressure injection or gravity feeding techniques. The following is a breakdown of the scope of work to be performed before and during the pilot test:

- Procurement of the necessary materials to perform the injection, including media;
- Performance of four weekly injection events utilizing wells MW-7 an MW-8 as dedicated injection points;
- Performance of progress monitoring and sampling; and
- Preparation of a report on the results of the ISCO feasibility study.

10 October 2011 AGE-NC Project No. 03-1101 Page 8 of 10

4.1. ISCO PILOT TEST

Upon regulatory approval, AGE will conduct four weekly ISCO applications utilizing wells MW-7 and MW-8 and a 5% solution of hydrogen peroxide (possibly with ferrous sulfate) and an optimum pH (3-5) adjuster, using muriatic or sulfuric acid (1% acid). Baseline/background sampling will be performed using wells MW-7 and MW-8 prior to the first injection application. Progress/confirmation sampling will be performed using wells MW-7 and MW-8 following completion of each injection application. Field parameters and laboratory samples will be collected and analyzed as described below:

Field Parameters:

- Depth to water will be measured in shallow ground water monitoring wells MW-7 and MW-8.
- Prior to each purge volume, temperature, pH, TDS, oxygen reduction potential (ORP), salinity, turbidity, and dissolved oxygen (DO) will be recorded at both monitoring wells.

Laboratory Testing:

- Total petroleum hydrocarbons quantified as gasoline and diesel (TPH-g and TPH-d) by EPA method 8015 modified;
- Benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA method 8260B;
- Volatile organic compounds by EPA method 8260B;
- Inorganic ions bromate, bromide, chloride, nitrate, nitrate as nitrogen, nitrate as NO3⁻, and sulfate by EPA method E300.1;
- Aluminum, antimony, arsenic, barium, beryllium, cadmium, chromium III, calcium, cobalt, copper, iron, lead, magnesium, manganese, mercury, molybdenum, nickel, potassium, selenium, silver, sodium, thallium, acetone, tungsten, vanadium by EPA method 200.7/8; and
- Hexachrome by IC by EPA method E218.6;

4.2. REPORT PREPARATION

Following performance of the final week of injection and receipt of laboratory data, a report will be prepared presenting the findings of the pilot test. The report will include a

10 October 2011 AGE-NC Project No. 03-1101 Page 9 of 10

description and results of the work performed. Conclusions, applicable recommendations and maps will be included in the report. The report will be in a format acceptable to the CVRWQCB, and will be reviewed and signed by a California Professional Geologist.

5.0. FIELD PROCEDURES

All field procedures will be overseen by an AGE representative and under the supervision of a California Professional Geologist. Procedures for the collection of background/baseline sampling, preparation of the injection media, injection of the media, weekly sampling, and equipment decontamination are outlined below.

5.1. ISCO SOLUTION PREPARATION AND INJECTION PROCEDURE

A 5% solution of hydrogen peroxide will be prepared on-site utilizing a DOT 55-gallon drum and water from an on-site source. The drum will be filled with approximately 35 gallons of clean tap water, which will be metered by a Sensus flow meter. Once the appropriate volume of water has been placed in the drum, approximately 5 gallons of 35% industrial grade hydrogen peroxide will be added to the water to create the 5% mixture of hydrogen peroxide. Additionally, 1 liter of 50 mole hydrochloric (muriatic) acid will be added to the mixture. This mixture will then be gravity fed or pressure injected from the 55-gallon drum into the wells. This procedure will be repeated a total of nine to ten times for both wells MW-7 and MW-8; at the conclusion of full application, a minimum 90 gallons of 35% hydrogen peroxide will have been mixed with 630 gallons of water creating a 5% mixture above ground. Within the aquifer it is suspected an equal volume of water (315 gallons) will be treated. The treatment volume of water combined with the created above ground solution, should form a dilute solution of hydrogen peroxide/muriatic acid.

5.2. PROGRESS/CONFIRMATION/COMPLIANCE MONITORING AND SAMPLING

Performance of progress/confirmation sampling will be completed on a weekly basis for three weeks following completion of the last of four injection events. Progress/confirmation testing will be performed by an OSHA 40-hour certified AGE representative. Monitoring and sampling will be performed in accordance with AGE's standard monitoring and sampling procedures (Appendix C).

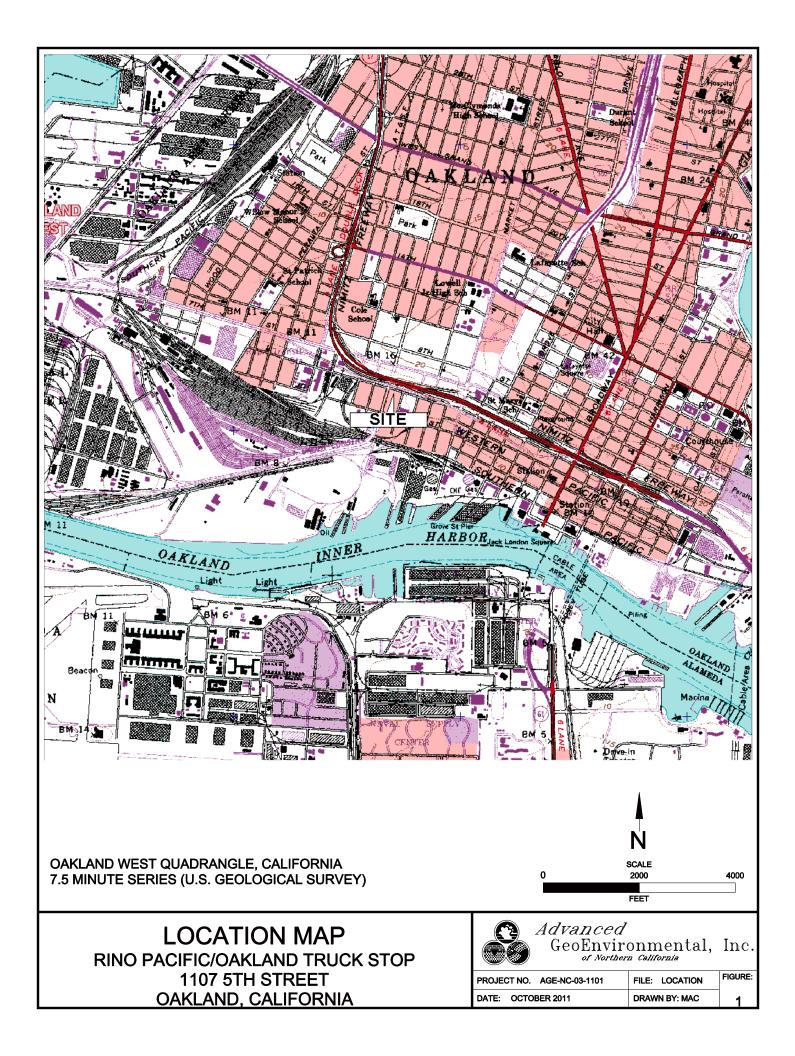
Field parameters and laboratory samples will be collected from wells MW-7 and MW-8 and will be monitored and tested for the constituents and parameters listed in Section 4.1.

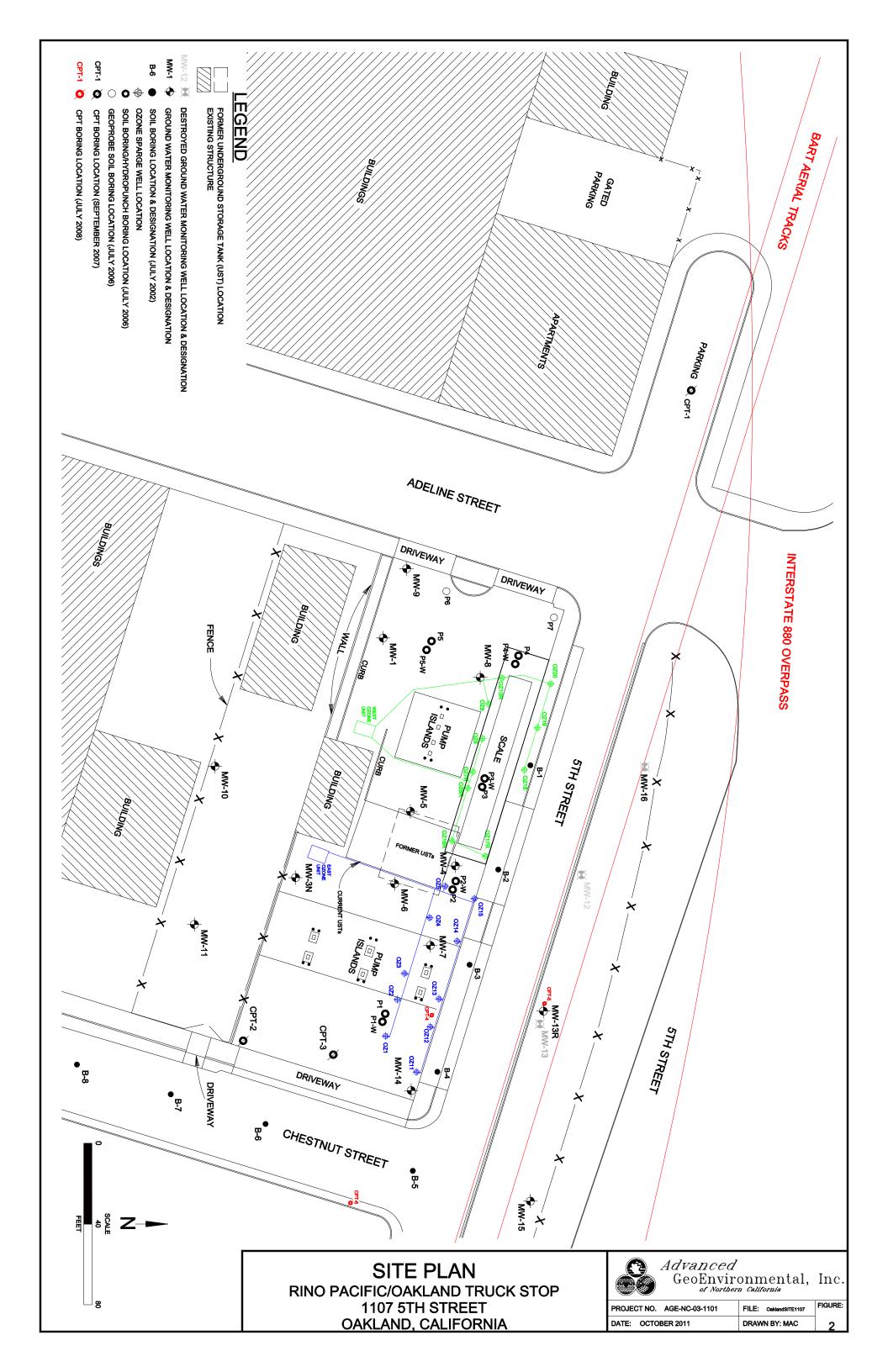
10 October 2011 AGE-NC Project No. 03-1101 Page 10 of 10

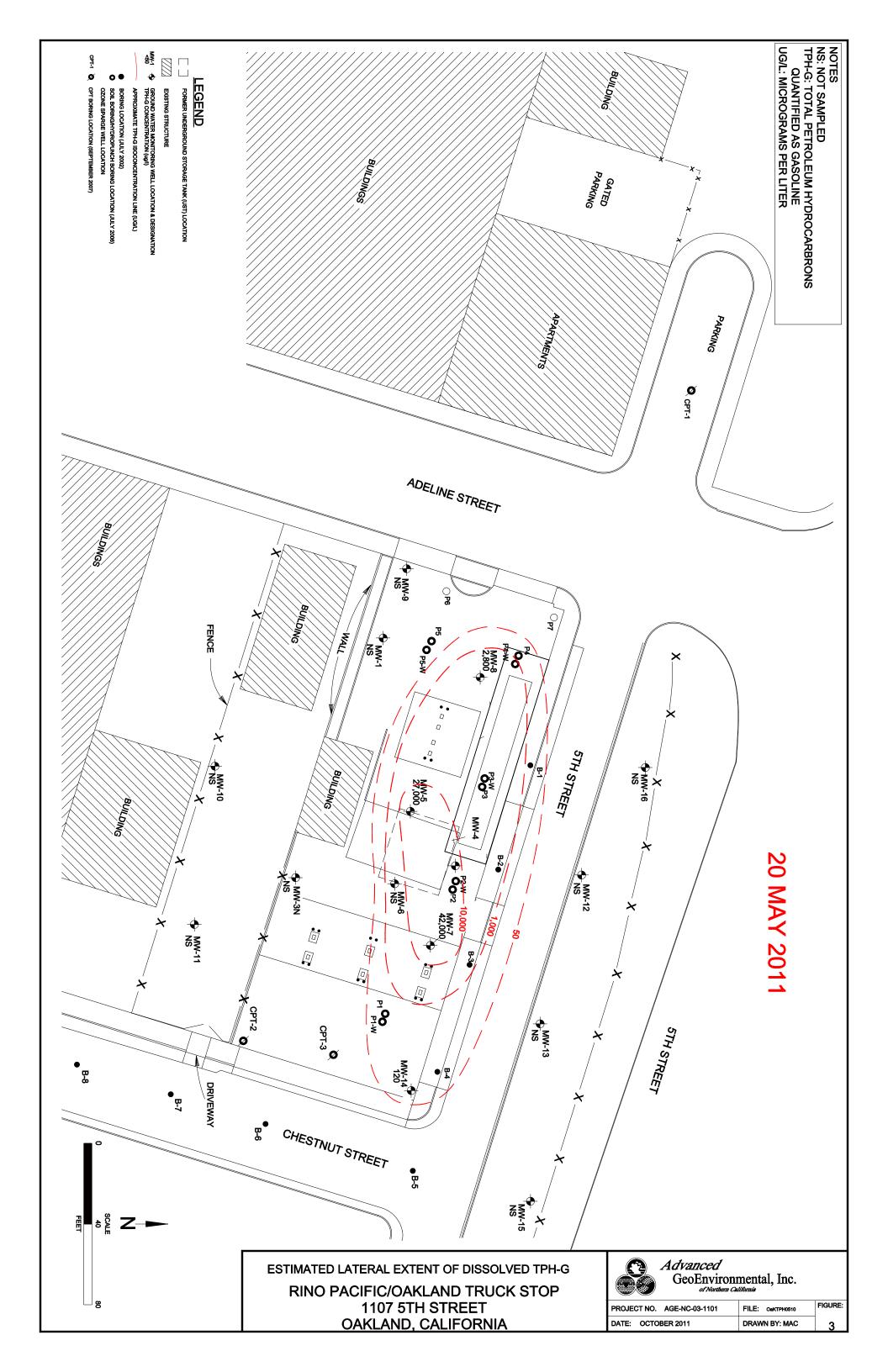
5.3. EQUIPMENT DECONTAMINATION

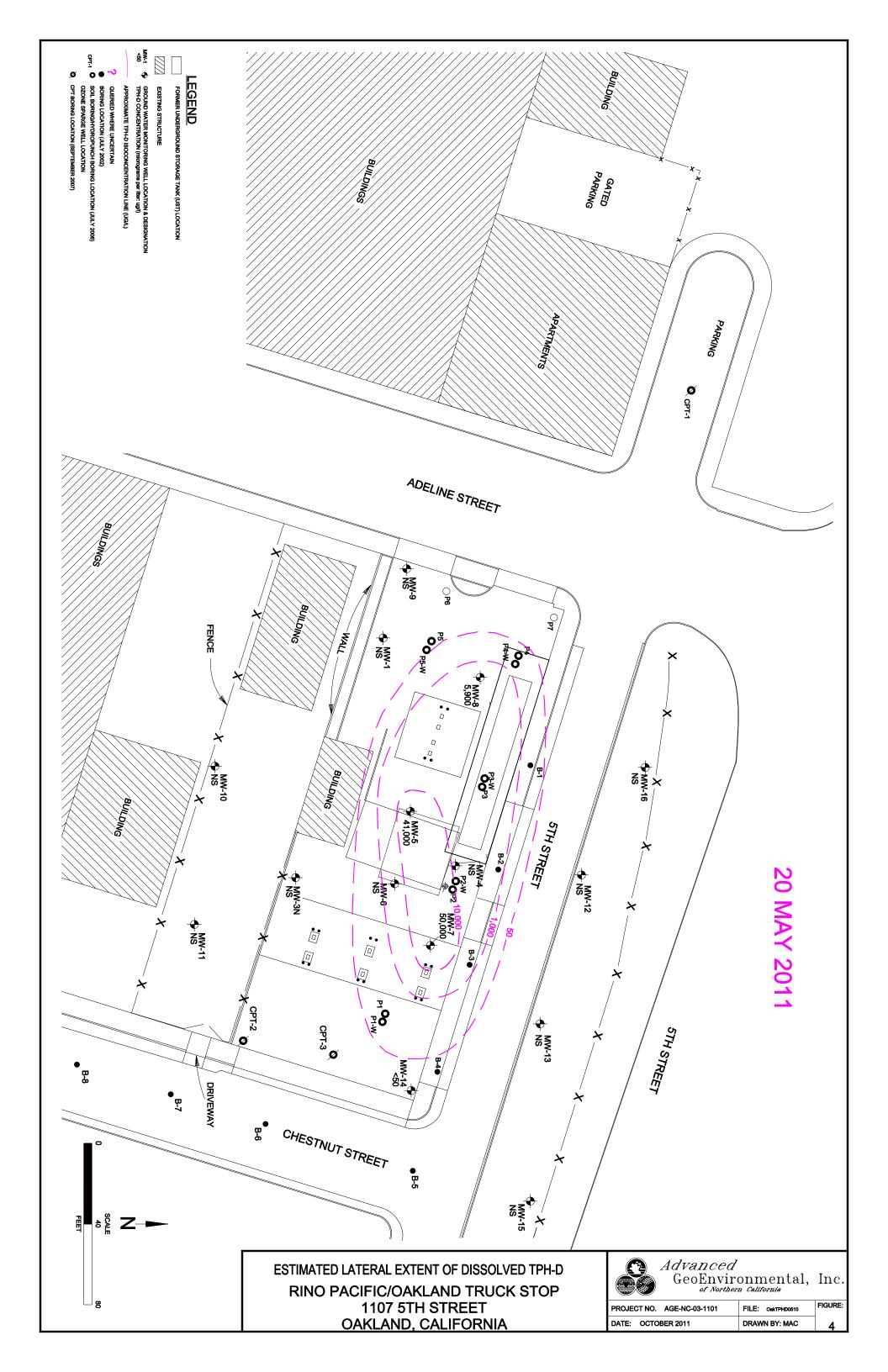
Upon completion of each injection event all equipment will be rinsed and removed of any oxidant or acid material. All rinseate accumulated during the injection activity will be stored on-site in an approved DOT container prior to its removal and disposal.

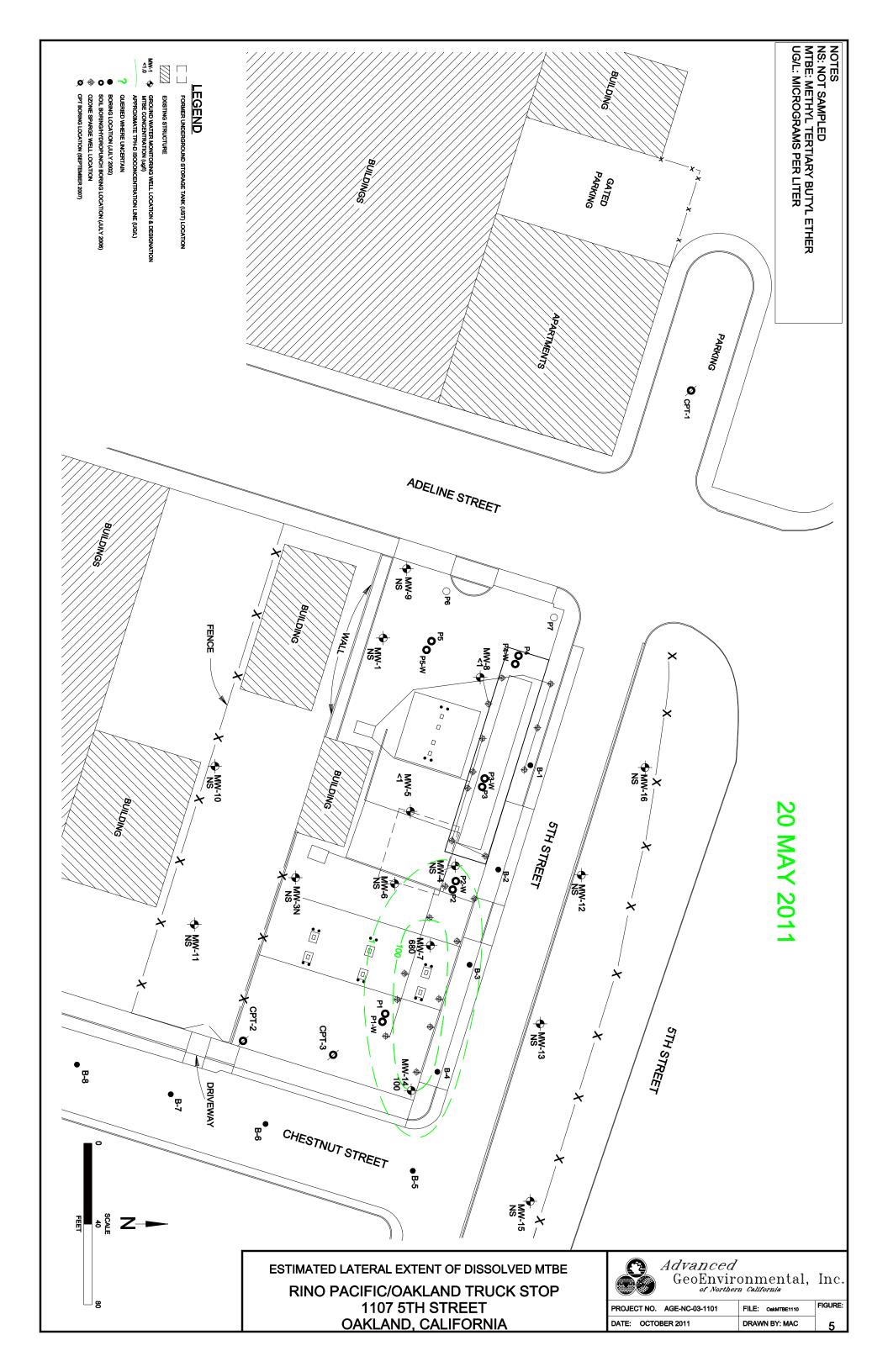
FIGURES











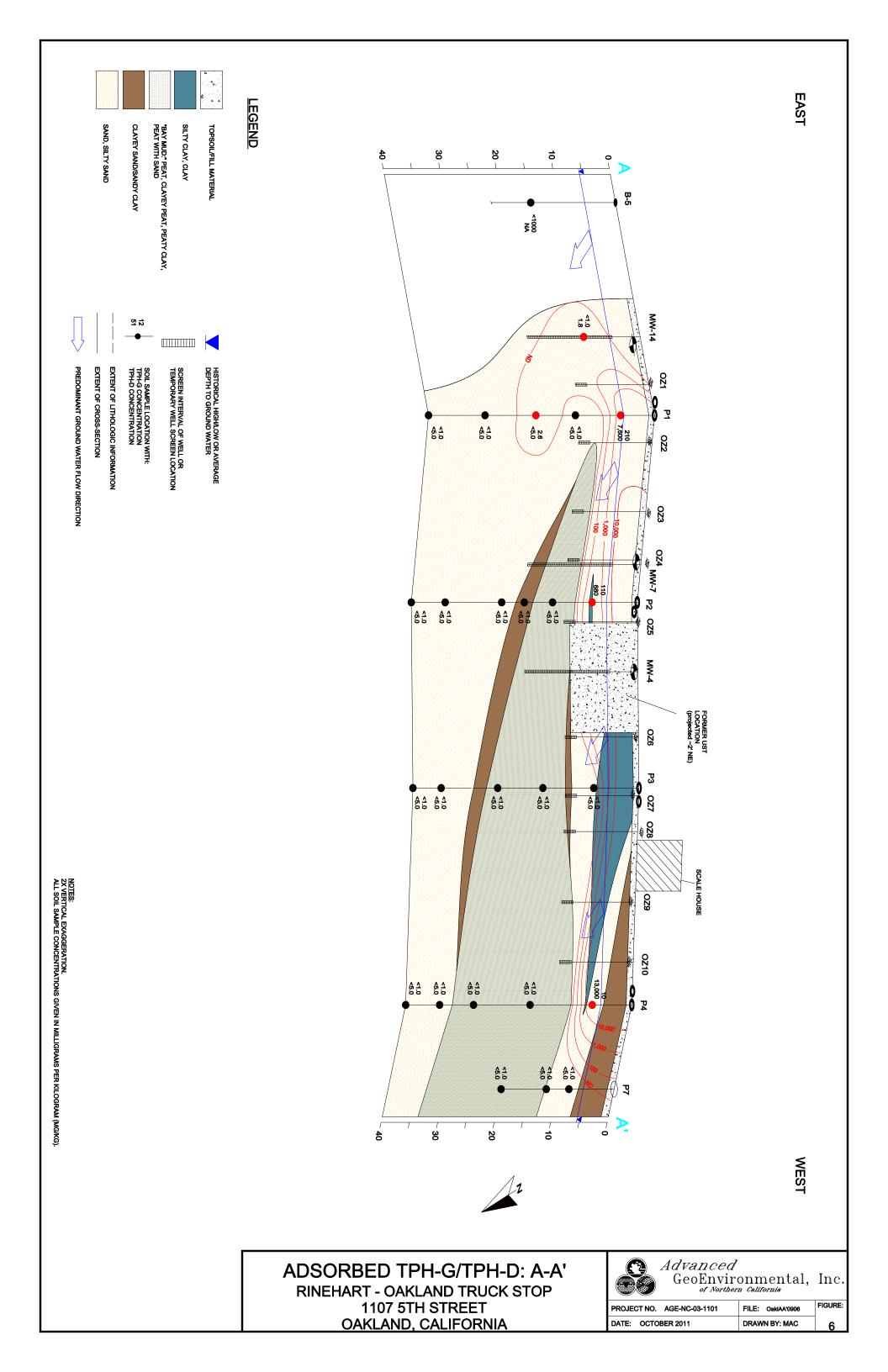


TABLE 1WELL CONSTRUCTION DETAILSRino Pacific/Oakland Truck Stop

1107 5th Street, Oakland, California

Well ID	Installation Date	Borehole Diameter (inch)	Total Depth (feet)	Casing Diameter (inch)	Casing Material	Slot Size (inch)	Filter Pack	Casing Elevation (feet MSL) ¹	Screen Interval (feet bsg)	Filter Pack Interval (feet bsg)	Bentonite Interval (feet bsg)	Grout Interval (feet bsg)
				GROUN	D WATER	MONITORING	G WELLS	S				
MW-1	11-1996	8	-	2	PVC	-	-	10.02	10 to 20	-	-	-
MW-2	11-1996	8	-	2	PVC	-	-	-	12 to 17	-	-	-
MW-3	11-1996	8	-	2	PVC	-	-	-	8 to 13	-	-	-
MW-3N	05-2002	8	15	2	PVC	-	-	11.36	5 to 12	-	-	-
MW-4	08-2000	8	20	2	PVC	-	-	10.16	5 to 20	-	-	-
MW-5	08-2000	8	-	2	PVC	-	-	10.19	5 to 20	-	-	-
MW-6	08-2000	8	20	2	PVC	-	-	10.33	5 to 20	-	-	-
MW-7	08-2000	8	-	2	PVC	-	-	11.41	5 to 20	-	-	-
MW-8	08-2000	8	-	2	PVC	-	-	9.73	5 to 20	-	-	-
MW-9	08-2000	8	-	2	PVC	-	-	9.73	5 to 20	-	-	-
MW-10	05-2002	8	-	2	PVC	-	-	9.42	5 to 12	-	-	-
MW-11	05-2002	8	30	2	PVC	-	-	10.77	5 to 20	-	-	-
MW-12	10-2004	8	20	2	PVC	0.020	#2/12	10.59	5 to 20	4 to 20	1.5 to 4	0.5 to 1.5
MW-13	10-2004	8	20	2	PVC	0.020	#2/12	11.29	5 to 20	4 to 20	1.5 to 4	0.5 to 1.5
MW-14	10-2004	8	20	2	PVC	0.020	#2/12	11.39	5 to 20	4 to 20	1.5 to 4	0.5 to 1.5
MW-15	09-20-2007	8	20.5	2	PVC	0.010	#2/12	11.38	5 to 20	3 to 20.5	2 to 3	0.5 to 2
MW-16	09-20-2007	8	20.5	2	PVC	0.010	#2/12	10.36	5 to 20	3 to 20.5	2 to 3	0.5 to 2

TABLE 1WELL CONSTRUCTION DETAILSRino Pacific/Oakland Truck Stop1107 5th Street, Oakland, California

	REMEDIATION WELLS										
Well ID	Installation Date	Borehole Diameter (inch)	Total Depth	Blank Casing Diameter (inch)	Casing Material	Micro-sparge diameter (inch)	Filter Pack	Sparge Interval	Filter Pack Interval (feet bsg)	Bentonite Interval (feet bsg)	Grout Interval (feet bsg)
OZ-1 thru OZ10	03-2004	8	12.5	1	PVC	2	#2/12	10 to 12	9 to 12.5	-	-
OZ-11 thru OZ20	10-2004	8	15	1	PVC	2	#2/12	11 to 13	9 to 15	7 to 9	1.5 to 7
OZ6R	7/19/2007	8	14	1	PVC	1	#3	11 to 13	9 to 14	6 to 9	1 to 6
OZ7R	7/19/2007	8	14	1	PVC	1	#3	11 to 13	9 to 14	6 to 9	1 to 6
OZ10R	7/19/2007	8	14	1	PVC	1	#3	11 to 13	9 to 14	6 to 9	1 to 6
OZ16R	7/19/2007	8	14	1	PVC	1	#3	11 to 13	9 to 14	6 to 9	1 to 6
OZ17R	7/19/2007	8	14	1	PVC	1	#3	11 to 13	9 to 14	6 to 9	1 to 6
DESTROYED WELLS											
Well ID Date Destroyed											

Notes:

MSL: mean sea level

MW-2

MW-3

OZ-6

OZ-7

OZ-10

OZ-16

OZ-17

-: Indicates data is not known

bsg: below surface grade

MW: monitoring well

OZ: ozone sparge well

Casing elevations re-surveyed 02/02 2007.

12-30-1998

02-15-2002

04-2007

04-2007

04-2007

04-2007

04-2007

MW-4, MW-15 and MW-16 surveyed on 30 November 2007. Performed by Morrow Surveying, Inc. relative to vertical datum NAVD 88 from GPS observations.

Well I.D. (Screen Interval) Casing Elevation	Date	Depth to Ground Water (ft btoc)	Ground Water Elevation (ft MSL)
10.34'	10/21/96	5.08	5.26
	11/04/96	3.02	7.32
	03/04/97	2.28	8.06
	06/12/97	4.80	5.54
	07/14/97	2.66	7.68
	09/09/97	2.45	7.89
	09/19/97	2.60	7.74
	02/13/98	2.76	7.58
	07/07/98	2.15	8.19
	10/01/98	3.63	6.71
	12/30/98	4.40	5.94
	03/21/00	2.62	7.72
	08/30/00	3.21	7.13
	11/06/00	3.10	7.24
	02/22/01	3.50	6.84
	05/07/01	2.94	7.40
	08/22/01	2.94 3.70	7.40 6.64
	11/04/01	3.70 3.89	6.45
MW-1 (10 - 20 ft bsg)	02/15/02	2.95	7.39
	05/20/02	3.39	7.05
	08/01/02	3.51	6.83
	11/11/02	4.00	6.34
	02/12/03	3.40	6.94
	05/12/03	3.65	6.69
	08/12/03	3.04	7.30
	01/09/04	4.64	5.70
	04/14/04	6.45	3.89
	07/21/04	3.55	6.79
	10/20/04	4.00	6.34
	03/19/05	2.54	7.80
	06/25/05	2.76	7.58
	09/17/05	3.88	6.46
	12/26/05	3.83	6.51
	03/26/06	4.09	6.25
	06/03/06	2.91	7.43
	08/30/06	3.62	6.72
	12/04/06	3.98	6.04
10.02'*	02/28/07	2.90	7.12
	05/29/07	3.84	6.18
	08/20/07	4.21	5.81
	10/25/07	3.75	6.27
	01/25/08	3.60	6.42
	04/30/08	3.93	6.09
	07/30/08	4.19	5.83
	10/23/08	4.57	5.45
	03/26/09	3.64	6.38
	06/05/09	3.80	6.22
	09/09/09	noacc	-
	11/12/09	3.63	6.39
	02/18/10	3.20	6.82
	05/17/10	3.28	6.74
	11/23/10	3.11	6.91
	05/20/11	3.47	6.55

Well I.D. (Screen Interval) Casing Elevation	Date	Depth to Ground Water (ft btoc)	Ground Water Elevation (ft MSL)
11.67'	05/20/02	3.91	7.76
	08/01/02	4.22	7.45
	11/11/02	4.42	7.25
	02/12/03	3.71	7.96
	05/12/03	3.49	8.18
	08/12/03	4.18	7.49
	01/09/04	3.78	7.89
	04/14/04	4.01	7.66
	07/21/04	4.90	6.77
	10/20/04	5.28	6.39
	03/19/05	3.10	8.57
MW-3N (5 - 12 ft bsg)	06/25/05	3.10	8.57
	06/25/05	3.83	7.84
	09/17/05	4.94	6.73
	12/26/05	3.64	8.03
	03/23/06	2.86	8.81
	06/03/06	3.45	8.22
	08/30/06	4.78	6.89
	12/04/06	4.90	6.46
	02/28/07	3.36	8.00
	05/29/07	4.55	6.81
	08/20/07	5.40	5.96
11.36*	10/25/07	4.97	6.39
	01/25/08	3.69	7.67
	04/30/08	4.69	6.67
	07/30/08	4.44	6.92
	10/23/08	5.98	5.38
	03/26/09	3.70	7.66
	06/05/09	4.68	6.68
	09/09/09	5.43	5.93
	11/12/09	4.66	6.70
	02/18/10	3.58	7.78
	05/17/10	4.01	7.35
	11/23/10	4.49	6.87
	05/20/11	4.30	7.06

Well I.D. (Screen Interval) Casing Elevation	Date	Depth to Ground Water (ft btoc)	Ground Water Elevation (ft MSL)
10.46'	08/30/00	3.74	6.72
	11/06/00	3.85	6.61
	02/22/01	4.66	5.80
	05/07/01	2.66	7.80
	08/22/01	4.13	6.33
	11/04/01	4.53	5.93
	02/15/02	3.62	6.84
	05/20/02	3.65	6.81
	08/01/02	4.25	6.21
	11/11/02	4.85	5.61
	02/12/03	4.24	6.22
	05/12/03	4.20	6.26
	08/12/03	4.47	5.99
	01/09/04	3.92	6.54
MW-4 (5 - 20 ft bsg)	04/14/04	4.04	6.42
10100-4 (3 - 20 it bsg)	07/21/04	4.55	5.91
	10/20/04	4.89	5.57
	03/19/05	3.51	6.95
	06/25/05	4.58	5.88
	09/17/05	4.54	5.92
	12/26/05	4.66	5.80
	03/23/06	3.80	6.66
	06/03/06	3.84	6.62
	08/30/06	4.75	5.71
	12/04/06	4.91	5.25
	02/28/07	4.18	5.98
	05/29/07	4.28	5.88
	08/20/07	4.82	5.34
	10/25/07	4.36	5.80
10.16*	01/25/08	3.75	6.41
	04/30/08	4.52	5.64
	07/30/08	4.76	5.40
	10/23/08	4.96	5.20
	03/26/09	4.39	5.77
	06/05/09	4.60	5.56
	09/09/09	4.74	5.42
	11/12/09	4.46	5.70
	02/18/10	4.15	6.01
	05/17/10	4.26	5.90
	11/23/10	5.56	4.60
	05/20/11	4.29	5.87

Well I.D. (Screen Interval) Casing Elevation	Date	Depth to Ground Water (ft btoc)	Ground Water Elevation (ft MSL)
10.24'	08/30/00	3.01	7.23
	11/06/00	3.35	6.89
	02/22/01	3.00	7.24
	05/07/01	2.73	7.51
	08/22/01	3.88	6.36
	11/04/01	3.95	6.29
	02/15/02	2.84	7.40
	05/20/02	2.86	7.38
	08/01/02	3.21	7.03
M = (E - 20 ft bac)	11/11/02	4.04	6.20
MW-5 (5 - 20 ft bsg)	02/12/03	3.12	7.12
	05/12/03	3.18	7.06
	08/12/03	3.75	6.49
	01/09/04	3.18	7.06
	04/14/04	3.15	7.09
	07/21/04	4.00	6.24
	10/20/04	4.49	5.75
	03/19/05	2.39	7.85
	06/25/05	2.77	7.47
10.19*	09/17/05	3.91	6.33
	12/26/05	3.46	6.78
	03/23/06	2.44	7.80
	06/03/06	2.55	7.69
	08/30/06	3.85	6.39
	12/04/06	4.37	5.82
	02/28/07	3.31	6.88
	05/29/07	4.45	5.74
	08/20/07	4.75	5.44
	10/25/07	4.21	5.98
	01/25/08	3.75	6.44
	04/30/08	4.33	5.86
	07/30/08	4.75	5.44
	10/23/08	5.01	5.18
	03/26/09	3.96	6.23
	06/05/09	4.34	5.85
	09/09/09	4.71	5.48
	11/12/09	4.35	5.84
	02/18/10	4.06	6.13
	05/17/10	4.08	6.11
	11/23/10	3.91	6.28
	05/20/11	4.13	6.06

Well I.D. (Screen Interval) Casing Elevation	Date	Depth to Ground Water (ft btoc)	Ground Water Elevation (ft MSL)
10.62'	08/30/00	3.40	7.22
	11/06/00	3.72	6.90
	02/22/01	3.34	7.28
	05/07/01	3.08	7.54
	08/22/01	3.77	6.85
	11/04/01	4.33	6.29
	02/15/02	3.22	7.40
	05/20/02	3.24	7.38
	08/01/02	3.60	7.02
	11/11/02	4.41	6.21
	02/12/03	3.52	7.10
	05/12/03	3.34	7.28
	08/12/03	3.91	6.71
	01/09/04	3.35	7.27
MW-6 (5 - 20 ft bsg)	04/14/04	3.40	7.22
	07/21/04	4.21	6.41
	10/20/04	4.63	5.99
	03/19/05	2.54	8.08
	06/25/05	2.92	7.70
	09/17/05	4.06	6.56
	12/26/05	3.63	6.99
	03/23/06	2.60	8.02
	06/03/06	2.71	7.91
	08/30/06	4.02	6.60
	12/04/06	4.54	5.79
	02/28/07	3.49	6.84
	05/29/07	4.60	5.73
	08/20/07	4.90	5.58
10.33'*	10/25/07	4.36	5.97
	01/25/08	3.92	6.41
	04/30/08	4.49	5.84
	07/30/08	4.87	5.46
	10/23/08	5.18	5.15
	03/26/09	4.08	6.25
	06/05/09	4.50	5.83
	09/09/09	4.87	5.46
	11/12/09	4.50	5.83
	02/18/10	3.95	6.38
	05/17/10	4.23	6.10
	05/20/11	4.30	6.03

Well I.D. (Screen Interval) Casing Elevation	Date	Depth to Ground Water (ft btoc)	Ground Water Elevation (ft MSL)
11.69'	08/30/00	6.72	4.97
	11/06/00	6.85	4.84
	02/22/01	6.00	5.69
	05/07/01	6.35	5.34
	08/22/01	6.86	4.84
	11/04/01	6.66	5.03
	02/15/02	6.45	5.24
	05/20/02	6.59	5.10
	08/01/02	6.72	4.97
	11/11/02	6.61	5.08
	02/12/03	5.64	6.05
	05/12/03	5.68	6.01
	08/12/03	6.24	5.45
M = 7 (5)	01/09/04	5.65	6.04
MW-7 (5 - 20 ft bsg)	04/14/04	6.40	5.29
	07/21/04	6.31	5.38
	10/20/04	6.42	5.27
	03/19/05	5.48	6.21
	06/25/05	6.00	5.69
	09/17/05	6.55	5.14
	12/26/05	5.57	6.12
	03/23/06	5.47	6.22
	06/03/06	5.62	6.07
	08/30/06	6.17	5.52
	12/04/06	6.38	5.03
	02/28/07	6.11	5.30
	05/29/07	6.25	5.16
	08/20/07	6.65	4.76
11.41'*	10/25/07	6.55	4.86
	01/25/08	6.30	5.11
	04/30/08	6.54	4.87
	07/30/08	6.50	4.91
	10/23/08	6.67	4.74
	03/26/09	5.91	5.50
	06/05/09	6.35	5.06
	09/09/09	6.73	4.68
	11/12/09	6.47	4.94
	02/18/10	5.97	5.44
	05/17/10	5.74	5.67
	11/23/10	6.05	5.36
	05/20/11	5.65	5.76

Well I.D. (Screen Interval) Casing Elevation	Date	Depth to Ground Water (ft btoc)	Ground Water Elevation (ft MSL)
10.06'	08/30/00	3.06	7.00
	11/06/00	2.98	7.08
	02/22/01	2.46	7.60
	05/07/01	2.76	7.30
	08/22/01	3.56	6.50
	11/04/01	3.76	6.30
	02/15/02	2.72	7.34
9.73'*	05/20/02	2.82	7.24
	08/01/02	3.06	7.00
	11/11/02	3.54	6.52
	02/12/03	3.07	6.99
	05/12/03	2.69	7.37
	08/12/03	3.10	6.96
	01/09/04	2.85	7.21
	04/14/04	3.45	6.61
	07/21/04	4.56	5.50
	10/20/04	4.72	5.34
	03/19/05	3.31	6.75
	06/25/05	3.05	7.01
	09/17/05	4.22	5.84
	12/26/05	3.24	6.82
	03/23/06	2.67	7.39
	06/03/06	2.63	7.43
	08/30/06	3.56	6.50
MW-8 (5 - 20 ft bsg)	12/04/06*	3.81	5.92
	02/28/07	3.06	6.67
	05/29/07	3.77	5.96
	08/20/07	4.21	5.52
	10/25/07	3.96	5.77
	01/25/08	2.97	6.76
	04/30/08	3.85	5.88
	07/30/08	4.16	5.57
	10/23/08	4.48	5.25
	03/26/09	3.25	6.48
	06/05/09	3.70	6.03
	09/09/09	4.10	5.63
	11/12/09	3.79	5.94
	02/18/10	3.19	6.54
	05/17/10	3.30	6.43
	11/23/10	3.21	6.52
	05/20/11	3.45	6.28

Well I.D. (Screen Interval) Casing Elevation	Date	Depth to Ground Water (ft btoc)	Ground Water Elevation (ft MSL)
10.03'	08/30/00	2.81	7.22
	11/06/00	2.68	7.35
	02/22/01	2.20	7.83
	05/07/01	2.75	7.28
	08/22/01	3.80	6.23
	11/04/01	3.61	6.42
	02/15/02	2.92	7.11
	05/20/02	2.38	7.65
MW-9 (5 - 20 ft bsg)	08/01/02	2.72	7.31
	11/11/02	2.87	7.16
	02/12/03	2.43	7.60
	05/12/03	2.41	7.62
	08/12/03	2.61	7.42
	01/09/04	2.87	7.16
	04/14/04	3.65	6.38
	07/21/04	3.70	6.33
9.73'*	10/20/04	4.20	5.83
	03/19/05	3.75	6.28
	06/25/05	3.85	6.18
	09/17/05	3.38	6.65
	12/26/05	2.01	8.02
	03/23/06	2.50	7.53
	06/03/06	2.63	7.40
	08/30/06	3.35	6.68
	12/04/06	3.63	6.10
	02/28/07	2.61	7.12
	05/29/07	3.34	6.39
	08/20/07	3.82	5.91
	10/25/07	3.21	6.52
	01/25/08	2.62	7.11
	04/30/08	3.55	6.18
	07/30/08	4.05	5.68
	10/23/08	3.96	5.77
	03/26/09	3.21	6.52
	06/05/09	3.25	6.48
	09/09/09	noacc	-
	11/12/09	3.19	6.54
	02/18/10	2.82	6.91
	05/17/10	2.79	6.94
	11/23/10	2.81	6.92
	05/20/11	9.24	0.49

Well I.D. (Screen Interval) Casing Elevation	Date	Depth to Ground Water (ft btoc)	Ground Water Elevation (ft MSL)
11.07'	05/20/02	4.54	6.53
	06/18/02	4.25	6.82
	08/01/02	1.80	9.27
	11/11/02	1.50	9.57
	02/12/03	1.07	10.00
	05/12/03	1.01	10.06
	08/12/03	1.44	9.63
	01/09/04	0.90	10.17
	04/14/04	2.05	9.02
	07/21/04	2.78	8.29
	10/20/04	1.05	10.02
MW-10 (5 - 12 ft bsg)	03/19/05	0.75	10.32
	06/25/05	1.91	9.16
	09/17/05	2.90	8.17
	12/26/05	0.32	10.75
	03/23/06	0.76	10.31
	06/03/06	1.65	9.42
	08/30/06	2.70	8.37
	12/04/06	2.41	7.01
	02/28/07	0.30	9.12
	05/29/07	2.17	7.25
	08/20/07	3.04	6.38
9.42'*	10/25/07	2.23	7.19
	01/25/08	0.58	8.84
	04/30/08	2.28	7.14
	07/30/08	3.07	6.35
	10/23/08	3.62	5.80
	03/26/09	1.30	8.12
	06/05/09	2.13	7.29
	09/09/09	2.87	6.55
	11/12/09	1.88	7.54
	02/18/10	1.25	8.17
	05/17/10	1.53	7.89
	11/23/10	noacc	-
	05/20/11	noacc	-

Well I.D. (Screen Interval) Casing Elevation	Date	Depth to Ground Water (ft btoc)	Ground Water Elevation (ft MSL)
9.64'	05/20/02	0.84	8.80
	06/18/02	1.71	7.93
	08/01/02	4.88	4.76
	11/11/02	5.18	4.46
	02/12/03	3.85	5.79
	05/12/03	4.00	5.64
	08/12/03	4.31	5.33
	01/09/04	3.74	5.90
	04/14/04	5.73	3.91
	07/21/04	5.80	3.84
	10/20/04		
MW-11 (5 - 20 ft bsg)	03/19/05	4.81	4.83
	06/25/05	4.56	5.08
	09/17/05	5.30	4.34
	12/26/05	5.11	4.53
	03/23/06	3.35	6.29
	06/03/06	3.65	5.99
	08/30/06	4.94	4.70
	12/04/06	5.43	5.34
	02/28/07	4.20	6.57
	05/29/07	4.75	6.02
	08/20/07	5.53	5.24
10.77'*	10/25/07	5.64	5.06
	01/25/08	4.46	6.31
	04/30/08	4.82	5.95
	07/30/08	5.48	5.29
	10/23/08	6.02	4.75
	03/26/09	3.98	6.79
	06/05/09	4.19	6.58
	09/09/09	5.59	5.18
	11/12/09	5.05	5.72
	02/18/10	4.08	6.69
	05/17/10	3.61	7.16
	11/23/10	noacc	-
	05/20/11	3.89	6.88

GROUND WATER ELEVATION DATA Rino Pacific/Oakland Truck Stop 1107 5th Street, Oakland, California

(feet)

Well I.D. (Screen Interval) Casing Elevation	Date	Depth to Ground Water (ft btoc)	Ground Water Elevation (ft MSL)
10.59'*	10/20/04	5.41	
	03/19/05	5.74	
	06/25/05	5.23	
	09/17/05	5.74	
	12/26/05	4.37	
	03/23/06	4.36	
	06/03/06	5.12	
	08/30/06	5.67	
	12/04/06	5.83	4.76
	02/28/07	4,80	5.79
	05/29/07	5.62	4.97
	08/20/07	5.88	4.71
	10/25/07	5,50	5.09
MW-12 (5 - 20 ft bsg)	01/25/08	4.74	5.85
	04/30/08	5.56	5.03
	07/30/08	5.73	4.86
	10/23/08	6.00	4.59
	03/26/09	4.71	5.88
	06/05/09	5.37	5.22
	09/09/09	5.81	4.78
	11/12/09	5.37	5.22
	02/18/10	4.57	6.02
	05/17/10	4.88	5.71
	11/23/10	noacc	5.71
	05/20/11	noacc	-
11.29'*	10/20/04	5.67	
11.20	03/19/05	4.82	
	06/25/05	5.78	
	09/17/05	6.21	
	12/26/05	4.25	
	03/23/06	4.57	
	06/03/06	5.60	
	08/30/06	6.20	
	12/04/06	6.33	4.96
	02/28/07	4.95	6.34
	05/29/07	4.95 6.02	5.27
	08/20/07	6.42	4.87
	10/25/07	6.21	5.08
MW-13 (5 - 20 ft bsg)	01/25/08	5.23	6.06
	01/25/08 04/30/08	5.23 6.17	5.12
	07/30/08	6.32	5.12 4.97
	10/23/08	6.51	4.97 4.78
	03/26/09	5.42	4.78 5.87
	06/05/09	5.98	5.31
	09/09/09	5.96 6.45	4.84
	11/12/09	6.02	4.84 5.27
	02/18/10	5.07	6.22
	05/17/10	5.48	5.81
	11/23/10	noacc	-
	05/20/11	noacc	-

GROUND WATER ELEVATION DATA Rino Pacific/Oakland Truck Stop 1107 5th Street, Oakland, California (feet)

Well I.D. (Screen Interval) Casing Elevation	Date	Depth to Ground Water (ft btoc)	Ground Water Elevation (ft MSL)
11.39'*	10/20/04	6.36	
	03/19/05	5.20	
	06/25/05	5.56	
	09/17/05	6.09	
	12/26/05	5.50	
	03/23/06	5.06	
	06/03/06	5.39	
	08/30/06	5.92	
	12/04/06	6.15	5.24
	02/28/07	5.84	5.55
	05/29/07	5.97	5.42
	08/20/07	6.43	4.96
	10/25/07	6.37	5.02
MW-14 (5 - 20 ft bsg)	01/25/08	6.13	5.26
	04/30/08	6.42	4.97
	07/30/08	6.35	5.04
	10/23/08	6.56	4.83
	03/26/09	5.80	5.59
	06/05/09	6.25	5.14
	09/09/09	6.63	4.76
	11/12/09	6.31	5.08
	02/18/10	5.75	5.64
	05/17/10	5.65	5.74
	11/23/10	6.00	5.39
	05/20/11	5.60	5.79
11.38*	10/05/07	6.14	5.24
	10/25/07	6.00	5.38
	01/25/08	5.76	5.62
	04/30/08	6.01	5.37
	07/30/08	5.98	5.40
	10/23/08	6.20	5.18
	03/26/09	5.45	5.93
MW-15 (5 - 20 ft bsg)	06/05/09	5.90	5.48
、	09/09/09	6.28	5.10
	11/12/09	5.97	5.41
	02/18/10	5.45	5.93
	05/17/10	noacc	-
	11/23/10	noacc	-
	05/20/11	noacc	-

GROUND WATER ELEVATION DATA Rino Pacific/Oakland Truck Stop 1107 5th Street, Oakland, California

(feet)

Well I.D. (Screen Interval) Casing Elevation	Date	Depth to Ground Water (ft btoc)	Ground Water Elevation (ft MSL)
10.36*	10/05/07	5.85	4.51
	10/25/07	5.51	4.85
	01/25/08	4.71	5.65
	04/30/08	5.70	4.66
	07/30/08	5.64	4.72
	10/23/08	5.90	4.46
	03/26/09	4.80	5.56
MW-16 (5 - 20 ft bsg)	06/05/09	5.42	4.94
	09/09/09	5.70	4.66
	11/12/09	5.34	5.02
	02/18/10	4.72	5.64
	05/17/10	4.97	5.39
	11/23/10	noacc	-
	05/20/11	noacc	-

Notes: bsg:

below surface grade

-: *: information not available

Casing elevations re-surveyed 02/02 2007. MW-4, MW-15 and MW-16 surveyed on 30 November 2007. Performed by Morrow

Surveying, Inc. relative to vertical datum

NAVD 88 from GPS observations.

ANALYTICAL RESULTS OF GROUND WATER SAMPLES Rino Pacific/Oakland Truck Stop 1107 5th Street, Oakland, California (µg/l)

		80)15M					8	3260B						8021
Sample ID	Date	TPH-g	TPH-d	MTBE	Benzene	Toluene	Ethyl- benzene	Total Xylenes	DIPE	ETBE	TAME	TBA	EDB	1,2- DCA	MTBE
	11/04/96	ND	220	-	ND	ND	ND	ND	-	-	-	-	-	-	-
	03/05/97	ND	230	-	ND	ND	ND	ND	-	-	-	-	-	-	-
	06/12/97	ND	290	-	ND	ND	ND	ND	-	-	-	-	-	-	-
	09/09/07	ND	180	-	ND	ND	ND	ND	-	-	-	-	-	-	-
	02/13/98	ND	590	-	ND	ND	ND	ND	-	-	-	-	-	-	-
	07/07/98	ND	1,400	2.7	ND	ND	ND	ND	-	-	-	-	-	-	-
	10/01/98	ND	1,100	1.8	ND	ND	ND	ND	-	-	-	-	-	-	-
	12/30/98	ND	1,700	2.3	ND	ND	ND	ND	-	-	-	-	-	-	-
	03/21/00	220	3,100	4,800	11	ND	ND	ND	-	-	-	-	-	-	-
	08/30/00	140	1,600	-	5.3	<0.5	<0.5	<0.5	-	-	-	-	-	-	2,900
	11/06/00	51	1,500	2,100	1	<0.5	<0.5	<0.5	<50	<50	<50	<250	<50	<50	1,700
	02/22/01 05/07/01	140 <50	3,000	1,100 1,100	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5	<20	<20	<20	<100 <100	<20 <20	<20 <20	100 780
	08/22/01	<50 <110	3,800 1,800	1,100	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<20 <25	<20 <25	<20 <25	<100	<20 <25	<20 <25	1,900
	11/04/01	<50	1,300	1,500	< 0.5	<0.5	< 0.5	<0.5	<50	<50	<50	<130	<50	<50	1,600
MW-1	02/15/02	<50 <50	2,000	770	<0.5	<0.5	<0.5	<0.5	<20	<20	<20	<100	<20	<20	610
	05/20/02	<50 <50	160	730	<0.5	<0.5	<0.5	<0.5	<10	<10	<10	<100	<10	<10	570
	08/01/02	<50	600	610	<0.5	<0.5	<0.5	<0.5	<10	<10	<10	<100	<10	<10	480
	11/11/02	<50	2,200	600	< 0.5	<0.5	<0.5	<0.5	<10	<10	<10	<100	<10	<10	510
	02/12/03	<50	1,200	640	< 0.5	<0.5	<0.5	<0.5	<10	<10	<10	<100	<10	<10	540
	05/12/03	<50	520	580	<0.5	<0.5	<0.5	<0.5	<10	<10	<10	<100	<10	<10	610
	08/11/03	<50	180	660	<0.5	<0.5	<0.5	<0.5	<12	<12	<12	<120	<12	<12	740
	01/09/04	610	<50	590	<0.5	<0.5	<0.5	4.2	<1.0	<1.0	<1.0	<10	<1.0	<1.0	-
	04/14/04	730	<50	730	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<1.0	<1.0	-
	07/21/04	900	<50	620	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<1.0	<1.0	-
	10/20/04	<50	<50	60	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<1.0	<1.0	-
	03/19/05	100	<50	100	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<1.0	<1.0	-
	06/25/05	100	<50	100	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<1.0	<1.0	-
	09/17/05	100	<50	83	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<1.0	<1.0	-
	12/26/05	100	<50	86	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<1.0	<1.0	-
	03/23/06	<50	<50	13	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	06/03/06	<50	<50	16	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	08/30/06	<50	<50	7	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	12/04/06 02/28/07	<50 <50	<50 <50	63 11	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.6 <0.6	<1.0 <1.0	<1.0 <1.0	<1.0	62 <10	<0.5 <0.5	<0.5 <0.5	-
	02/28/07 05/29/07	<50 <50	<50 <50	11 45	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.6 <0.6	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<10 <10	<0.5 <0.5	<0.5 <0.5	-
	05/29/07 08/20/07	<50 <50	<50 <50	45 4.9	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.6 <0.6	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<10 <10	<0.5 <0.5	<0.5 <0.5	
	10/25/07	<50 <50	<50 <50	4.9 31	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.6 <0.6	<1.0	<1.0	<1.0 <1.0	<10 <10	<0.5 <0.5	<0.5 <0.5	
	01/25/08	<50 <50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	< 0.5	
	04/30/08	<50 <50	8,800	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	_
	07/30/08	<50	5,700	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	10/23/08	<50	3,300	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	11/12/09	<50	1,900	<1.0	<0.5	<0.5	<0.5	<0.6	-	-	<1.0	<10	-	-	-
	11/23/10	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-

ANALYTICAL RESULTS OF GROUND WATER SAMPLES Rino Pacific/Oakland Truck Stop 1107 5th Street, Oakland, California (µg/l)

Camala		80	15M					8	3260B						8021
Sample ID	Date	TPH-g	TPH-d	MTBE	Benzene	Toluene	Ethyl- benzene	Total Xylenes	DIPE	ETBE	TAME	ТВА	EDB	1,2- DCA	MTBE
	05/20/02	<50	1,800	1,500	<0.5	<0.5	<0.5	<0.5	<25	<25	<25	<250	<25	<25	1,100
	08/01/02	<50	2,900	540	<0.5	<0.5	<0.5	<0.5	<10	<10	14	<100	<10	<10	350
	11/11/02	<50	1,100	270	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	7.1	<50	<5.0	<5.0	280
	02/12/03	<50	1,300	410	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0	<50	<5.0	<5.0	380
	05/12/03	<50	1,500	360	<0.5	<0.5	<0.5	<0.5	<6.2	<6.2	<6.2	<62	<6.2	<6.2	330
	08/11/03	<50	720	280	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0	<50	<5.0	<5.0	250
	01/09/04	230	<50	230	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	2.5	<10	<0.5	<0.5	-
	04/14/04	230	<50	220	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	07/21/04	400	<50	370	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	4.4	<10	<0.5	<0.5	-
	10/20/04	190	<50	180	3.5	<0.5	<0.5	5.2	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	03/19/05	300	<50	300	2.6	<0.5	<0.5	5.2	<1.0	<1.0	2.4	<10	<0.5	<0.5	-
	06/25/05	1,200	<50	1,100	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	330	<0.5	<0.5	-
	09/17/05	1,900	<50	1,100	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	770	<0.5	<0.5	-
MW-3N	12/26/05	1,500	<50	930	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	520	<0.5	<0.5	-
	03/23/06	550	<50	110	<0.5	3.6	13	37.1	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	06/03/06	200	<50	150	<0.5	2.6	<0.5	<0.5	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	08/30/06	160	<50	130	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	12/04/06	900	<50	790	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	19	880	<0.5	<0.5	-
	02/28/07	<50	<50	97	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	05/29/07	170	<50	160	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	08/20/07	<50	<50	21	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	10/25/07	<50	<50	40	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	01/25/08	<50	<50	18	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	04/30/08	120	<50	110	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	07/30/08	<50	<50	40	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	10/23/08	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	11/12/09	<50	-	<1.0	<0.5	<0.5	<0.5	<0.6	-	-	<1.0	<10	-	-	-
	11/23/10	<50	-	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-

ANALYTICAL RESULTS OF GROUND WATER SAMPLES Rino Pacific/Oakland Truck Stop 1107 5th Street, Oakland, California (µg/l)

8015M 8260B 8021 Sample Date Ethyl-Total 1,2-ID TPH-g TPH-d MTBE Benzene Toluene DIPE ETBE TAME TBA EDB MTBE benzene **Xylenes** DCA 390 9.7 110 210,000 08/30/00 1,300 -64 63 ------11/06/00 <3,300 170 120,000 80 <4.0 <5.0 <3.0 <2,500 <2,500 <2,500 <13,000 <2,500 <2,500 130,000 11/06/00† <3.300 120.000 86 <4.0 <7.0 <6.0 <2,500 <2,500 <2,500 <13,000 <2,500 <2,500 130,000 02/22/01 <3,300 120 150,000 30 <3.0 <3.0 <3.0 <2,500 <2,500 <2,500 <13,000 <2,500 <2,500 120,000 05/07/01 <4,200 240 200.000 <20 <10.0 <5.0 <5.0 <5,000 <5,000 <5,000 <25,000 <5,000 <5,000 150,000 08/22/01 < 5.400 300 190.000 <5.0 <5.0 <5.0 <5.0 < 5.000 < 5.000 < 5.000 <25.000 <5.000 < 5.000 160.000 11/04/01 <5,000 210 170,000 <5.0 <5.0 <5.0 <5.0 <2,500 <2,500 <2,500 <13,000 <2,500 <2,500 130,000 02/15/02 <5,000 340 160,000 <5.0 <5.0 <5.0 <10 <2,500 <2,500 <2,500 <12,500 <2,500 <2,500 160,000 05/20/02 <2,500 200 130,000 <25 <25 <25 <25 <1,700 <1,700 <1,700 <17,000 <1,700 <1,700 98,000 <25 <25 <1,700 <1,700 08/01/02 <2,500 200 100,000 <25 <25 <1,700 <17,000 <1,700 <1,700 89,000 11/11/02 <3,000 200 84,000 <25 <25 <25 <25 <1,700 <1,700 <1,700 <17,000 <1,700 <1,700 99,000 02/12/03 <2.500 88 70.000 <25 <25 <25 <25 <1,700 <1,700 <1,700 <17,000 <1,700 <1,700 78.000 05/12/03 <2,500 88 <25 <25 <25 <25 <1,700 <1,700 <1,700 <17,000 <1,700 <1,700 88,000 86,000 08/11/03 <2,500 66 74,000 <25 <25 <25 <25 <1,700 <1,700 <1,700 <17,000 <1,700 <1,700 77,000 01/09/04 50,000 <50 50.000 120 <0.5 <0.5 <0.6 <1.0 85 <0.5 <1.0 <10 <0.5 -MW-4 04/14/04 27,000 <50 27,000 <0.5 <0.5 <0.5 <0.6 <1.0 <1.0 <1.0 <10 <0.5 <0.5 -07/21/04 27.000 5.300 < 0.5 <0.5 <1.0 3.6 150.000 < 0.5 <0.5 <50 < 0.5 <0.6 <1.0 -10/20/04 22,000 <50 840 <0.5 <0.5 <0.5 <0.6 <1.0 <1.0 <1.0 110,000 <0.5 <0.5 -03/19/05 25 < 0.5 <1.0 <0.5 <0.5 3,500 < 0.05 900 < 0.5 <0.6 <1.0 4.6 2,900 -06/25/05 3,000 < 0.05 620 < 0.5 < 0.5 <0.5 <0.6 <1.0 <1.0 <1.0 54,000 <0.5 <0.5 -<0.5 <0.5 <0.5 09/17/05 3,200 < 0.05 370 <0.5 <0.5 <0.6 <1.0 <1.0 <1.0 180,000 -In-situ Chemical Oxidation (Ozone injection 09/24/05 commences 12/26/05 3.000 <50 730 < 0.5 < 0.5 < 0.5 <0.6 <1.0 <1.0 <1.0 76,000 < 0.5 < 0.5 03/23/06 300 <0.5 <50 21 4.2 < 0.5 2.1 2.5 <1.0 <1.0 <1.0 <10 <0.5 -06/03/06 110 <50 33 3.9 2.2 <0.5 <0.6 <1.0 <1.0 <1.0 <0.5 <0.5 <10 -08/30/06 <50 <50 7.7 <0.5 < 0.5 <0.5 <0.6 <1.0 <1.0 <1.0 <10 <0.5 < 0.5 -12/04/06 <50 68 <0.5 < 0.5 <0.5 18 <1.0 6,300 <0.5 <0.5 1,100 <0.6 <1.0 -02/28/07 320 <50 23 < 0.5 < 0.5 <0.5 <0.6 <1.0 <1.0 <1.0 <10 <0.5 <0.5 -05/29/07 800 <50 330 48 9.4 9.2 15 <1.0 <1.0 18 <10 < 0.5 <0.5 -08/20/07 400 <50 74 <0.5 <0.5 <0.5 2.3 <1.0 <1.0 <1.0 <10 <0.5 <0.5 -10/25/07 340 <50 90 < 0.5 < 0.5 < 0.5 1.6 <1.0 <1.0 <1.0 <10 <0.5 < 0.5 -01/29/08 220 <50 150 10 < 0.5 2.0 <1.0 <1.0 <1.0 <10 <0.5 <0.5 1.6 04/30/08 <50 7,600 <1 <0.5 <0.5 <0.5 <0.6 <1.0 <1.0 <1.0 <10 <0.5 <0.5 -07/30/08 <50 5,500 <1 <0.5 <0.5 <0.5 <0.6 <1.0 <1.0 <1.0 <10 <0.5 <0.5 -10/23/08 120 3,200 110 < 0.5 <0.5 <0.5 <0.6 <1.0 <1.0 <1.0 <10 <0.5 <0.5 -11/12/09 120 -<1.0 < 0.5 < 0.5 < 0.5 <0.6 . -<1.0 <10 ---11/23/10 22.000 86 <0.5 < 0.5 <0.5 <0.6 <1.0 <1.0 <1.0 120.000 <0.5 <0.5

ANALYTICAL RESULTS OF GROUND WATER SAMPLES Rino Pacific/Oakland Truck Stop 1107 5th Street, Oakland, California

Carrala		80	15M					8	3260B						8021
Sample ID	Date	TPH-g	TPH-d	MTBE	Benzene	Toluene	Ethyl- benzene	Total Xylenes	DIPE	ETBE	TAME	TBA	EDB	1,2- DCA	MTBE
	08/30/00	1,000	450	-	<5.0	<5.0	<5.0	<5.0	-	-	-	-	-	-	52,000
	11/06/00	<1,000	520	42,000	<1.0	<1.0	<1.0	<1.0	<1,000	<1,000	<1,000	<5,000	<1,000	<1,000	44,000
	02/22/01	<1,000	270	39,000	<1.0	<1.0	<1.0	<1.0	<500	<500	<500	<2,500	<500	<500	30,000
	05/07/01	<1,800	470	59,000	<5.0	<2.0	<2.0	<2.0	<1,000	<1,000	<1,000	<5,000	<1,000	<1,000	48,000
	08/22/01	<2,200	780	70,000	<3.0	<3.0	<3.0	<3.0	<1,000	<1,000	<1,000	<5,000	<1,000	<1,000	63,000
	11/04/01	<1,700	670	37,000	<2.0	<2.0	<2.0	<2.0	<1,000	<1,000	<1,000	<5,000	<1,000	<1,000	44,000
	02/15/02	<1,100	480	33,000	<1.0	<1.0	<1.0	<1.0	<1,250	<1,250	<1,250	<6,250	<1,250	<1,250	33,000
	05/20/02	<500	1,600	28,000	<5.0	<5.0	<5.0	<5.0	<500	<500	<500	<5,000	<500	<500	21,000
	08/01/02	<500	810	24,000	<5.0	<5.0	<5.0	<5.0	<500	<500	<500	<5,000	<500	<500	10,000
	11/11/02	<500	2,100	8,800	<5.0	<5.0	<5.0	<5.0	<200	<200	<200	10,000	<200	<200	3,700
	02/12/03	<170	2,900	3,200	30	<1.7	<1.7	<1.7	<100	<100	<100	4,100	<100	<100	19,000
	05/12/03	<500	1,500	21,000	13	<5.0	<5.0	<5.0	<500	<500	<500	5,200	<500	<500	1,500
	08/11/03	71	2,200	1,700	9.5	<0.5	<0.5	<0.5	<50	<50	<50	14,000	<50	<50	1,700
	01/09/04	1,500	<50	1,500	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
MW-5	04/14/04	500	<50	430	20	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
10100-5	07/21/04	2,000	<50	320	2.2	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	15,000	<0.5	<0.5	-
	10/20/04	1,900	<50	23	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	11,000	<0.5	<0.5	-
	03/19/05	1,000	860	71	2.3	<0.5	5	40	<1.0	<1.0	<1.0	500	<0.5	<0.5	-
	06/25/05	1,500	1,200	54	11	<0.5	3.6	37	<1.0	<1.0	<1.0	2,700	<0.5	<0.5	-
	09/17/05	2,500	1,600	16	42	<0.5	<0.5	10	<1.0	<1.0	<1.0	12,000	<0.5	<0.5	-
	09/24/05				In	-situ Chen	nical Oxida	tion (Ozon	e injectior	n) comme	nces				
	12/26/05	1,500	1,200	44	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	2,700	<0.5	<0.5	-
	03/23/06	<50	850	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	06/03/06	400	900	280	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	08/30/06	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	12/04/06	1,200	<50	22	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	2,200	<0.5	<0.5	-
	02/28/07	<50	<50	11	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	05/29/07	9,000	240,000	26	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	17	<10	<0.5	<0.5	-
	08/20/07	11,000	280,000	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	10/25/07	14,000	300,000	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	01/25/08	11,000	260,000	<1.0	<0.5	<0.5	1.4	4.4	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	04/30/08	14,000	73,000	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	07/30/08	11,000	68,000	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	10/23/08	7,600	63,000	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	03/26/09	9,400	75,000	<1.0	<0.5	<0.5	<0.5	<0.6	-	-	<1.0	5,000	-	-	-
	06/05/09	22,000	95,000	54	<0.5	<0.5	<0.5	<0.6	-	-	<1.0	<10	-	-	-
	09/09/09	20,000	91,000	<1.0	<0.5	<0.5	<0.5	<0.6	-	-	<1.0	5,900	-	-	-
	11/12/09	6,900	20,000	<1.0	<0.5	<0.5	<0.5	<0.6	-	-	<1.0	<10	-	-	-
	02/18/10	11,000	24,000	<1.0	<0.5	<0.5	<0.5	<0.6	-	-	<1.0	<10	-	-	-
	05/17/10	8,200	19,000	<1.0	<0.5	<0.5	<0.5	<0.6	-	-	<1.0	<10	-	-	-
	11/23/10	20,000	36,000	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	4,100	<0.5	<0.5	-
	05/20/11	27,000	41,000	<1.0	<0.5	<0.5	<0.5	<0.5	-	-	<1.0	7,700	-	-	-

ANALYTICAL RESULTS OF GROUND WATER SAMPLES Rino Pacific/Oakland Truck Stop 1107 5th Street, Oakland, California

Sample		80)15M					8	3260B						8021
ID	Date	TPH-g	TPH-d	MTBE	Benzene	Toluene	Ethyl- benzene	Total Xylenes	DIPE	ETBE	TAME	TBA	EDB	1,2- DCA	MTBE
	08/30/00	1,300	1,300	-	55	<0.5	16	27	-	-	-	-	-	-	23,000
	11/06/00	<630	1,100	27,000	7	8.1	<3.0	5.2	<630	<630	<630	<3,200	<630	<630	26,000
	02/22/01	<200	420	8,000	<5.0	<5.0	<5.0	<5.0	<100	<100	<100	<500	<100	<100	6,500
	05/07/01	<1,000	900	40,000	<2.0	<2.0	<1.0	<1.0	<500	<500	<500	<2,500	<500	<500	37,000
	08/22/01	<350	520	8,800	<2.0	<1.0	<0.5	<0.5	<200	<200	<200	<1,000	<200	<200	8,600
	11/04/01	<500	420	17,000	<2.0	<2.0	<0.5	<0.5	<250	<250	<250	<1,300	<250	<250	12,000
	02/15/02	<960	910	26,000	2.6	4.5	<1.0	4.2	<1,000	<1,000	<1,000	<5,000	<1,000	<1,000	23,000
	05/20/02	<620	690	37,000	<6.2	<6.2	<6.2	<6.2	<500	<500	<500	<5,000	<500	<500	25,000
	08/01/02	<250	1,100	9,100	8	<2.5	<2.5	<2.5	<170	<170	<170	3,800	<170	<170	8,100
	11/11/02	<500	970	11,000	<5.0	<5.0	<5.0	<5.0	<250	<250	<250	8,600	<250	<250	11,000
	02/12/03	<250	2,100	8,300	<2.5	<2.5	<2.5	<2.5	<120	<120	<120	4,600	<120	<120	7,400
	05/12/03	<1,000	630	29,000	<10	<10	<10	<10	<500	<500	<500	8,700	<500	<500	32,000
	08/11/03	110	<50	2,300	6.8	<1.0	<1.0	<1.0	<100	<100	<100	27,000	<100	<100	2,800
	01/09/04	700	<50	690	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
MW-6	04/14/04	200	<50	190	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
10100-0	07/21/04	200	4.5	140	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	15,000	<0.5	<0.5	-
	10/20/04	7,700	1,300	3,400	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	77,000	<0.5	<0.5	-
	03/19/05	1,600	630	57	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	1,300	<0.5	<0.5	-
	06/25/05	400	630	58	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	3,600	<0.5	<0.5	-
	09/17/05	590	<50	28	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	5,300	<0.5	<0.5	-
	12/26/05	400	<50	92	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	4,500	<0.5	<0.5	-
	03/23/06	<50	<50	16	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	06/03/06	<50	<50	13	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	08/30/06	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	12/04/06	4,300	<50	84	<0.5	<0.5	<0.5	<0.6	19	<1.0	<1.0	30,000	<0.5	<0.5	-
	02/28/07	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	05/29/07	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	08/20/07	4,900	<50	120	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	10/25/07	5,000	4,200	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	01/25/08	<50	<50	5.8	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	04/30/08	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	07/30/08	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	10/23/08	540	<50	130	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-

ANALYTICAL RESULTS OF GROUND WATER SAMPLES Rino Pacific/Oakland Truck Stop 1107 5th Street, Oakland, California

		80	15M					8	3260B						8021
Sample ID	Date	TPH-g	TPH-d	MTBE	Benzene	Toluene	Ethyl- benzene	Total Xylenes	DIPE	ETBE	TAME	TBA	EDB	1,2- DCA	MTBE
	08/30/00	160,000	2,600	-	28,000	15,000	1,200	5,900	-	-	-	-	-	-	800,000
	11/06/00	80,000	1,700	920,000	23,000	12,000	1,200	5,000	<13,000	<13,000	<13,000	<63,000	<13,000	<13,000	540,000
	02/22/01	80,000	2,000	460,000	19,000	12,000	1,100	3,200	<5,000	<5,000	<5,000	<2,500	<5,000	<5,000	440,000
	02/22/01†	84,000	2,400	500,000	20,000	13,000	1,200	3,400	<5,000	<5,000	<5,000	<25,000	<5,000	<5,000	400,000
	05/07/01	100,000	7,600	520,000	25,000	16,000	1,700	6,600	<5,000	<5,000	<5,000	<2,500	<5,000	<5,000	460,000
	05/07/01†	100,000	8,200	500,000	25,000	17,000	1,700	6,700	<5,000	<5,000	<5,000	<25,000	<5,000	<5,000	530,000
	08/22/01	110,000	22,000	250,000	18,000	12,000	2,000	9,400	<5,000	<5,000	<5,000	<25,000	<5,000	<5,000	240,000
	11/04/01	85,000	6,500	180,000	17,000	2,700	2,100	9,700	<5,000	<5,000	<5,000	<13,000	<5,000	<5,000	150,000
	02/15/02	96,000	21,000	200,000	21,000	7,300	2,600	13,000	<5,000	<5,000	<5,000	<25,000	<5,000	<5,000	180,000
	02/15/02†	160,000	29,000	200,000	30,000	27,000	3,700	19,000	<5,000	<5,000	<5,000	<25,000	<5,000	<5,000	170,000
	05/20/02	140,000	310,000	220,000	24,000	21,000	3,800	20,000	<5,000	<5,000	<5,000	<50,000	<5,000	<5,000	180,000
	08/01/02	110,000	160,000	150,000	15,000	16,000	4,000	21,000	<2,500	<2,500	<2,500	<25,000	<2,500	<2,500	120,000
	11/11/02	110,000	240,000	77,000	14,000	11,000	4,100	19,000	<1,200	<1,200	<1,200	<12,000	<1,200	<1,200	74,000
	02/12/03	130,000	75,000	110,000	25,000	8,900	3,400	17,000	<1,700	<1,700	<1,700	<17,000	<1,700	<1,700	87,000
MW-7	05/12/03 08/11/03	98,000 90,000	7,100 12,000	220,000 140,000	25,000 15,000	520	2,600 2,600	12,000 12,000	<5,000 <5,000	<5,000 <5,000	<5,000 <5,000	<5,000 <5,000	<5,000 <5,000	<5,000 <5,000	140,000 140,000
	08/11/03	90,000 130,000	12,000	140,000	9,500	1,100 340	2,600	3,700	<5,000	<5,000	<5,000 900	<5,000 <10	<0.5	<5,000 420	140,000
	01/09/04	330,000	22	220,000	9,500 23,000	340 300	1,900	5,600	<1.0 <1.0	<1.0 <1.0	900 660	<10 <10	<0.5 <0.5	420	-
	07/21/04	120,000	14	71,000	23,000	730	1,900	1,250	<1.0	<1.0	370	<10 <10	<0.5	300	-
	10/20/04	130,000	8.4	39,000	14,000	420	600	380	<1.0	<1.0	290	<10	<0.5	180	-
	03/19/05	130,000	22,000	40,000	23,000	1.400	2,200	6.800	<1.0	<1.0	17	290	<0.5	29	-
	06/25/05	1,100,000	45,000	49,000	23,000 31,000	31,000	7,500	32,000	<1.0	<1.0	93	400	<0.5	75	-
	09/17/05	100,000	38,000	28,000	31,000	16,000	8,500	31,000	<1.0	<1.0	<1.0	7,400	<0.5	< 0.5	-
	09/24/05	100,000	00,000	20,000	,	,	nical Oxida	,			-	1,400	10.0	40.0	
	12/26/05	99,000	33,000	14,000	20,000	6,000	1,700	11,900	<1.0	<1.0	<1.0	83,000	<0.5	<0.5	-
	03/23/06	160,000	48,000	2,400	23,000	22,000	13,000	43,000	<1.0	<1.0	44	14,000	<0.5	330	-
	06/03/06	170,000	44,000	9,000	48,000	5,200	5,600	23,200	<1.0	<1.0	55	4,800	< 0.5	190	-
	08/30/06	240,000	62,000	3,600	77,000	12,000	30,000	63,000	<1.0	<1.0	77	300	<0.5	21	-
	12/04/06	110,000	44,000	3,300	7,200	490	950	2,800	20	<1.0	58	28,000	<0.5	86	-
	02/28/07	32,000	16,000	1,600	1,800	65	610	1,249	<1.0	<1.0	12	<10	<0.5	16	-
	05/29/07	29,000	64,000	1,700	920	18	180	272	<1.0	<1.0	15	<10	<0.5	28	-
	08/20/07	33,000	70,000	760	2,000	22	86	120	<1.0	<1.0	13	<10	<0.5	45	-
	10/25/07	41,000	83,000	1,300	3,800	53	380	1,521	<1.0	<1.0	18	<10	<0.5	65	-
	01/25/08	32,000	48,000	4,500	3,000	55	170	853	12	<1.0	56	<10	<0.5	96	-
	04/30/08	34,000	44,000	4,500	1,900	12	90	192.1	15	<1.0	61	<10	<0.5	61	-
	07/30/08	56,000	54,000	5,100	3,300	25	38	270	15	<1.0	67	<10	<0.5	84	-
	10/23/08	25,000	47,000	1,800	800	12	19	135	<1.0	<1.0	23	<10	<0.5	25	-
	03/26/09	64,000	62,000	5,000	4,300	48	21	266	-	-	58	65,000	-	-	-
	06/05/09	74,000	75,000	8,000	4,800	2.7	18	38	-	-	82	<10	-	-	-
	09/09/09	83,000	94,000	3,600	2,800	41	29	211	-	-	290	310,000	-	-	-
	11/12/09	25,000	32,000	1,500	2,000	16	24	141	-	-	11	<10	-	-	-
	02/18/10	39,000	38,000	2,200	2,800	24	47	101.5	-	-	49	36,000	-	-	-
	05/17/10	36,000	40,000	5,800	3,800	110	88	218	-	-	50	24,000	-	-	-
	11/23/10	48,000	51,000	4,200	1,600	77	34	371	<1.0	<1.0	13	78,000	<0.5	27	-
	05/20/11	42,000	50,000	680	280	12	2.2	36	-	-	5.0	12,000	-	-	-

ANALYTICAL RESULTS OF GROUND WATER SAMPLES Rino Pacific/Oakland Truck Stop 1107 5th Street, Oakland, California

		80)15M					8	3260B						8021
Sample ID	Date	TPH-g	TPH-d	MTBE	Benzene	Toluene	Ethyl- benzene	Total Xylenes	DIPE	ETBE	TAME	TBA	EDB	1,2- DCA	MTBE
	08/30/00	<1,000	690	-	18	<2.0	<1.0	<1.0	-	-	-	-	-	-	28,000
	11/06/00	<3,300	810	76,000	<8.0	<5.0	<3.0	<7.0	DIPE ETBE TAME <2,500 <2,500 <2,500 <2,000 <2,000 <2,000 <2,500 <2,500 <2,500 <2,500 <2,500 <2,500 <2,500 <2,500 <2,500 <2,500 <2,500 <2,500 <2,500 <2,500 <2,500 <2,500 <2,500 <2,500 <2,500 <2,500 <2,500 <2,500 <2,500 <2,500 <1,000 <1,000 <1,000 <1,000 <1,000 <1,000 <1,000 <1,000 <1,000 <1,000 <1,000 <1,000 <1,00 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<13,000	<2,500	<2,500	120,000		
	02/22/01	<2,500	1,100	130,000	53	<3.0	<3.0	<3.0	<2,000	<2,000	<2,000	<10,000	<2,000	<2,000	99,000
	05/07/01	<5,000	1,300	120,000	32	<10	<5.0	<5.0	<2,500	<2,500	<2,500	<13,000	<2,500	<2,500	110,000
	08/22/01	<4,000	1,200	86,000	<5.0	<5.0	<5.0	16	<1,700	<1,700	<1,700	<8,500	<1,700	<1,700	76,000
	11/04/01	590	1,100	49,000	6.9	<0.5	<0.5	<0.5	<2,500	<2,500	<2,500	<13,000	<2,500	<2,500	60,000
	02/15/02	<3,400	1,500	91,000	<5.0	<5.0	<5.0	<5.0	<2,500	<2,500	<2,500	<12,500	<2,500	<2,500	110,000
	05/20/02	<1,700	2,200	86,000	<17	<17	<17	<17	<1,000	<1,000	<1,000	<10,000	<1,000	<1,000	66,000
	08/01/02	<1,200	2,800	67,000	<12	<12	<12	<12	<1,000	<1,000	<1,000	<10,000	<1,000	<1,000	53,000
	11/11/02	<2,000	11,000	51,000	<10	18	<10	<10	<1,000	<1,000	<1,000	<10,000	<1,000	<1,000	48,000
	02/12/03	<1,700	5,800	51,000	<17	<17	<17	<17	<1,000	<1,000	<1,000	<10,000	<1,000	<1,000	49,000
	05/12/03	<2,500	4,500	60,000	94	<25	<25	<25	<1,000	<1,000	<1,000	<10,000	<1,000	<1,000	52,000
	08/11/03	<2,500	23,000	42,000	92	<25	<25	<25	<1,000	<1,000	<1,000	<10,000	<1,000	<1,000	42,000
	01/09/04	51,000	12,000	50,000	2.4	<0.5	<0.5	2.1	<1.0	<1.0	160	<10	<1.0	<1.0	-
	03/19/05	80,000	100,000	13,000	45	38	77	530	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	06/25/05	60,000	82,000	1,600	18	5.9	3	54	<1.0	<1.0	12	3,700	<0.5	<0.5	-
	09/17/05	80,000	89,000	1,400	23	2.7	<0.5	25	<1.0	<1.0	17	88,000	<0.5	<0.5	-
	09/24/05				In	-situ Chen	nical Oxida	tion (Ozon	e injectior	ı) commei	nces				
	12/26/05	24,000	37,000	180	270	65	14	127	<1.0	<1.0	<1.0	11,000	<0.5	<0.5	-
MW-8	03/23/06	1,200	4,000	310	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	880	<0.5	<0.5	-
	06/03/06	1,800	4,800	390	60	9.9	7.3	11.6	<1.0	<1.0	3	2,100	<0.5	<0.5	-
	08/30/06	6,000	6,200	<1.0	36	6.1	12	29.5	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	12/04/06	400	2,800	31	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	2,400	<0.5	<0.5	-
	02/28/07	3,100	5,200	83	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	05/29/07	6,000	39,000	54	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	08/20/07	11,000	50,000	11	<0.5	<0.5	<0.5	3	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	10/25/07	8,200	44,000	7.2	<0.5	<0.5	<0.5	3.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	01/25/08	7,400	41,000	<1.0	<0.5	<0.5	<0.5	3.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	04/30/08	8,000	2,900	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	07/30/08	14,000	4,000	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	10/23/08	20,000	8,500	88	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	03/26/09	11,000	5,900	36	<0.5	<0.5	<0.5	<0.6	-	-	11	14,000	-	-	-
	06/05/09	20,000	18,000	65	<0.5	<0.5	<0.5	<0.6	-	-	<1.0	<10	-	-	-
	09/09/09	14,000	17,000	29	<0.5	<0.5	<0.5	<0.6	-	-	<1.0	9,200	-	-	-
	11/12/09	5,400	6,800	<1.0	<0.5	<0.5	<0.5	<0.6	-	-	<1.0	<10	-	-	-
	02/18/10	4,400	6,000	<1.0	<0.5	<0.5	<0.5	<0.6	-	-	<1.0	15,000	-	-	-
	05/17/10	4,400	6,800	22	5.3	<0.5	<0.5	<0.6	-	-	<1.0	11,000	-	-	-
	11/23/10	16,000	22,000	<1.0	<0.5	<0.5	<0.5	<0.6	-	-	<1.0	3,800	-	-	-
	05/20/11	2,800	5,900	<1.0	<0.5	<0.5	<0.5	<0.5	-	-	<1.0	<10	-	-	i - I

ANALYTICAL RESULTS OF GROUND WATER SAMPLES Rino Pacific/Oakland Truck Stop 1107 5th Street, Oakland, California (µg/l)

		80)15M					8	3260B						8021
Sample ID	Date	TPH-g	TPH-d	MTBE	Benzene	Toluene	Ethyl- benzene	Total Xylenes	DIPE	ETBE	TAME	TBA	EDB	1,2- DCA	MTBE
	08/30/00	<50	770	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	97
	11/06/00	<50	390	220	<0.5	<0.5	<0.5	<0.5	<25	<25	<25	<125	<5.0	<5.0	190
	02/22/01	<50	240	160	<0.5	<0.5	<0.5	<0.5	<2.0	<2.0	<2.0	<1.0	<2.0	<2.0	120
	05/07/01	<50	190	150	<0.5	<0.5	<0.5	<0.5	<2.5	<2.5	<2.5	<13	<2.5	<2.5	120
	08/22/01	<50	120	120	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0	<25	<5.0	<5.0	120
	11/04/01	<50	160	120	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	<5.0	<25	<5.0	<5.0	130
	02/15/02	<50	150	98	<0.5	<0.5	<0.5	<0.5	<2.5	<2.5	<2.5	<12.5	<2.5	<2.5	92
	05/20/02	<50	380	85	<0.5	<0.5	<0.5	<0.5	<2.5	<2.5	<2.5	<25	<2.5	<2.5	79
	08/01/02	<50	320	84	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	<10	<1.0	<1.0	74
	11/11/02	<50	150	61	<0.5	<0.5	<0.5	<0.5	<2.5	<2.5	<2.5	<25	<2.5	<2.5	76
	02/12/03	<50	350	50	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	<10	<1.0	<1.0	55
	05/12/03	<50	380	45	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	<10	<1.0	<1.0	45
	08/11/03	<50	88	42	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<1.0	<10	<1.0	<1.0	36
	01/09/04	200	<50	140	<0.5	<0.5	<0.5	4.7	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
MW-9	04/14/04	180	<50	180	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
10100-9	07/21/04	<50	<50	24	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	10/20/04	80	<50	78	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	03/19/05	100	<50	87	10	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	06/25/05	100	<50	92	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	09/17/05	100	<50	85	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	12/26/05	<50	<50	19	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	03/23/06	<50	<50	19	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	06/03/06	<50	<50	<1.0	7.7	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	08/30/06	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	12/04/06	<50	<50	34	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	02/28/07	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	05/29/07	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	08/20/07	<50	<50	3.8	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	10/25/07	<50	<50	8.9	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	01/25/08	<50	<50	3.5	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	04/30/08	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	07/30/08	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	10/23/08	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	11/12/09	<50	-	<1.0	<0.5	<0.5	<0.5	<0.6	-	-	<1.0	<10	-	-	-
	11/23/10	<50	-	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-

ANALYTICAL RESULTS OF GROUND WATER SAMPLES Rino Pacific/Oakland Truck Stop 1107 5th Street, Oakland, California (µg/l)

		80)15M					8	3260B						8021
Sample ID	Date	TPH-g	TPH-d	MTBE	Benzene	Toluene	Ethyl- benzene	Total Xylenes	DIPE	ETBE	TAME	ТВА	EDB	1,2- DCA	MTBE
	08/01/02	<50	720	1.1	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<5.0
	11/11/02	<50	100	0.7	0.72	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<5.0
	02/12/03	<50	71	<0.5	0.63	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<5.0
	05/12/03	<50	96	0.59	0.56	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<5.0
	08/11/03	<50	110	0.73	0.93	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<5.0
	01/09/04	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	04/14/04	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	07/21/04	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	10/20/04	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	03/19/05	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	06/25/05	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	09/17/05	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
MW-10	12/26/05	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	03/23/06	<50	<50	<1.0	8.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	06/03/06	<50	<50	<1.0	3.9	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	08/30/06	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	12/04/06	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	02/28/07	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	05/29/07	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	08/20/07	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	10/25/07	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	01/25/08	<50	<50	<1.0	3.2	<0.5	1.2	1.3	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	04/30/08	600	<50	<1.0	<0.5	2.4	<0.5	40	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	07/30/08	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	10/23/08	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-

ANALYTICAL RESULTS OF GROUND WATER SAMPLES Rino Pacific/Oakland Truck Stop 1107 5th Street, Oakland, California (µg/l)

8015M 8260B 8021 Sample Date Ethyl-Total 1,2-ID TPH-g TPH-d MTBE Benzene Toluene DIPE ETBE TAME TBA EDB MTBE benzene **Xylenes** DCA 310 <0.5 <5.0 05/20/02 <50 95 1.5 3 1.4 <5.0 <5.0 <5.0 <50 <5.0 260 08/01/02 <50 190 65 <0.5 1.9 0.6 <0.5 <1.0 <1.0 <1.0 <10 <1.0 <1.0 52 11/11/02 <50 140 15 <0.5 2.1 <0.5 <0.5 <0.5 <0.5 <5.0 <0.5 <0.5 23 1.1 02/12/03 <50 86 2.6 <0.5 1.7 <0.5 <0.5 <0.5 <0.5 <0.5 <5.0 <0.5 <0.5 <5.0 05/12/03 <50 62 2.3 < 0.5 1.1 <0.5 <0.5 <0.5 <0.5 <0.5 <5.0 <0.5 < 0.5 <5.0 08/11/03 <50 72 2.3 <0.5 0.66 <0.5 <0.5 <1.0 <1.0 <1.0 <5.0 < 0.5 <0.5 <5.0 01/09/04 <50 <50 <1.0 <0.5 <0.5 <0.5 <0.5 <1.0 <1.0 <1.0 <10 <0.5 <0.5 -04/14/04 <50 <50 <1.0 <0.5 < 0.5 <0.5 <0.5 <1.0 <1.0 <1.0 <0.5 <0.5 <10 -<1.0 07/21/04 <50 <50 <1.0 <0.5 < 0.5 <0.5 <0.6 <1.0 <1.0 <10 <0.5 <0.5 -10/20/04 NS . -03/19/05 <50 <50 <1.0 <0.5 <0.5 <0.5 <0.6 <1.0 <1.0 <0.5 <0.5 <1.0 <10 -06/25/05 <50 <50 <1.0 < 0.5 <0.5 <0.5 <0.6 <1.0 <1.0 <1.0 <10 < 0.5 <0.5 -09/17/05 <50 <50 <1.0 < 0.5 < 0.5 <0.5 <0.6 <1.0 <1.0 <1.0 <0.5 <0.5 <10 -MW-11 12/26/05 <50 <50 <1.0 < 0.5 < 0.5 <0.5 <0.6 <1.0 <1.0 <1.0 <10 <0.5 <0.5 -03/23/06 <50 <50 <1.0 <0.5 <0.5 <0.6 <1.0 <1.0 <1.0 <10 <0.5 <0.5 <0.5 -06/03/06 <50 <50 <1.0 <0.5 <0.5 <0.5 <0.6 <1.0 <1.0 <1.0 <10 <0.5 <0.5 -08/30/06 < 0.5 < 0.5 <1.0 < 0.5 <50 <50 <1.0 < 0.5 <0.6 <1.0 <1.0 <10 < 0.5 -12/04/06 <50 <50 <0.5 <0.5 <0.6 <1.0 <1.0 <1.0 <0.5 <0.5 <1.0 <0.5 <10 -<50 02/28/07 <50 <1.0 <0.5 <0.5 < 0.5 <0.6 <1.0 <1.0 <1.0 <10 <0.5 <0.5 -05/29/07 <50 <50 <1.0 <0.5 < 0.5 <0.5 <0.6 <1.0 <1.0 <1.0 <10 <0.5 < 0.5 -08/20/07 <50 <50 <1.0 <0.5 <0.5 <0.5 <0.6 <1.0 <1.0 <1.0 <10 <0.5 <0.5 -10/25/07 110 <50 <1.0 < 0.5 < 0.5 < 0.5 <0.6 <1.0 <1.0 <1.0 <10 < 0.5 < 0.5 -01/25/08 <50 <50 <1.0 < 0.5 < 0.5 < 0.5 <0.6 <1.0 <1.0 <1.0 <10 < 0.5 < 0.5 -04/30/08 <50 <0.5 <50 <1.0 < 0.5 <0.5 <0.5 <0.6 <1.0 <1.0 <1.0 <10 <0.5 -07/30/08 <50 <50 < 0.5 < 0.5 <0.6 <1.0 <1.0 < 0.5 <0.5 <1.0 < 0.5 <1.0 <10 -10/23/08 <50 <50 <1.0 < 0.5 <0.5 < 0.5 <0.6 <1.0 <1.0 <1.0 <10 < 0.5 < 0.5 -10/20/04 <50 <50 <1.0 <0.5 < 0.5 <0.5 <0.6 <1.0 <1.0 <1.0 <10 <0.5 <0.5 -03/19/05 <50 <50 <1.0 <0.5 < 0.5 <0.5 <0.6 <1.0 <1.0 <1.0 <10 <0.5 <0.5 -06/25/05 <50 <50 <1.0 <0.5 < 0.5 <0.5 <0.6 <1.0 <1.0 <1.0 <10 <0.5 <0.5 -09/17/05 <50 <50 <0.5 <0.5 <1.0 <1.0 <1.0 <0.5 <0.5 <1.0 <0.5 <0.6 <10 -12/26/05 <50 <50 <1.0 < 0.5 < 0.5 < 0.5 <0.6 <1.0 <1.0 <1.0 <10 < 0.5 < 0.5 -03/23/06 <50 <50 <1.0 <0.5 < 0.5 <0.5 <0.6 <1.0 <1.0 <1.0 <10 <0.5 <0.5 -<0.5 06/03/06 <50 <50 <1.0 <0.5 <0.5 <0.6 <1.0 <1.0 <1.0 <10 <0.5 <0.5 -08/30/06 <50 <50 <1.0 <0.5 < 0.5 <0.5 <0.6 <1.0 <1.0 <1.0 <10 <0.5 <0.5 -12/04/06 <50 <50 <0.5 <0.5 <1.0 < 0.5 <0.5 <0.6 <1.0 <1.0 <1.0 <10 < 0.5 -MW-12 02/28/07 <50 <50 <1.0 < 0.5 < 0.5 < 0.5 <0.6 <1.0 <1.0 <1.0 <10 < 0.5 < 0.5 -05/29/07 <50 <50 <1.0 < 0.5 < 0.5 <0.5 <0.6 <1.0 <1.0 <1.0 <10 < 0.5 <0.5 -08/20/07 <50 <50 <0.5 <1.0 <1.0 <0.5 <1.0 <0.5 <0.5 <0.6 <1.0 <10 <0.5 -10/25/07 <50 <50 <1.0 <0.5 < 0.5 <0.5 <0.6 <1.0 <1.0 <1.0 <10 <0.5 <0.5 -01/25/08 <50 <50 <1.0 <0.5 < 0.5 <0.5 <0.6 <1.0 <1.0 <1.0 <10 <0.5 <0.5 -04/30/08 <50 <50 <0.5 <0.5 <0.5 <1.0 <0.5 <0.6 <1.0 <1.0 <1.0 <10 < 0.5 -07/30/08 <50 <50 <1.0 < 0.5 <0.5 < 0.5 <0.6 <1.0 <1.0 <1.0 <10 <0.5 < 0.5 -10/23/08 <50 <0.5 <50 <1.0 < 0.5 < 0.5 <0.6 <1.0 <1.0 <1.0 <10 < 0.5 <0.5 -11/12/09 <50 <1.0 <0.5 <0.5 <0.5 <0.6 <1.0 <10 11/23/10 NOACC NOACC

ANALYTICAL RESULTS OF GROUND WATER SAMPLES Rino Pacific/Oakland Truck Stop 1107 5th Street, Oakland, California (µg/l)

8015M 8260B 8021 Sample Date Ethyl-Total 1,2-ID TPH-g TPH-d MTBE Benzene Toluene DIPE ETBE TAME TBA EDB MTBE benzene **Xylenes** DCA <0.5 <0.5 10/20/04 100 <50 99 <0.5 <0.5 <0.6 <1.0 <1.0 <1.0 <10 <0.5 -03/19/05 <50 <50 <1.0 <0.5 < 0.5 <0.5 <0.6 <1.0 <1.0 <1.0 <10 <0.5 <0.5 -06/25/05 <50 <50 31 <0.5 < 0.5 <0.5 <0.6 <1.0 <1.0 <1.0 <10 <0.5 < 0.5 -09/17/05 <50 <50 40 <0.5 <0.5 <0.5 <0.6 <1.0 <1.0 <1.0 <10 <0.5 <0.5 -12/26/05 <50 <50 17 < 0.5 <0.5 <0.5 <0.6 <1.0 <1.0 <1.0 <10 <0.5 < 0.5 -03/23/06 <50 <50 <1.0 <0.5 < 0.5 <0.5 <0.6 <1.0 <1.0 <1.0 <10 < 0.5 <0.5 -06/03/06 <50 <50 <1.0 <0.5 <0.5 <0.5 <0.6 <1.0 <1.0 <1.0 <10 <0.5 <0.5 -08/30/06 <50 <50 <1.0 <0.5 < 0.5 <0.5 <0.6 <1.0 <1.0 <1.0 <10 <0.5 <0.5 -12/04/06 <50 <50 63 <0.5 < 0.5 <0.5 <0.6 <1.0 <1.0 <1.0 <10 <0.5 <0.5 -MW-13 02/28/07 <50 <50 6.5 <0.5 <0.5 <0.5 <0.6 <1.0 <1.0 <1.0 <0.5 <0.5 <10 -05/29/07 <50 <50 41 <0.5 <0.5 <0.5 <0.6 <1.0 <1.0 <1.0 <0.5 <0.5 <10 -08/20/07 <50 <50 6.7 < 0.5 <0.5 <0.5 <0.6 <1.0 <1.0 <1.0 <10 < 0.5 <0.5 -10/25/07 <50 <50 15 < 0.5 < 0.5 <0.5 <0.6 <1.0 <1.0 <1.0 <0.5 <0.5 <10 -01/25/08 <50 <50 <1.0 < 0.5 < 0.5 <0.5 <0.6 <1.0 <1.0 <1.0 <10 <0.5 < 0.5 -04/30/08 <50 <50 <1.0 <0.5 <0.5 <0.6 <1.0 <1.0 <1.0 <0.5 <0.5 <0.5 <10 -07/30/08 <50 <50 <1.0 <0.5 <0.5 <0.5 <0.6 <1.0 <1.0 <1.0 <10 <0.5 <0.5 -10/23/08 < 0.5 <0.5 <50 <50 64 < 0.5 <0.6 <1.0 <1.0 <1.0 <10 ---11/12/09 <50 <50 25 <0.5 <0.5 <1.0 . <0.5 <0.6 <10 ---NOACC NOACC NOACC NOACC NOACC NOACC NOACC 11/23/10 NOACC NOACC NOACC NOACC NOACC NOACC NOACC 10/20/04 490 <50 90 <0.5 < 0.5 <0.5 <0.6 <1.0 <1.0 <1.0 <10 <0.5 <0.5 03/19/05 <50 <50 <1.0 <0.5 <0.5 <0.5 <0.6 <1.0 <1.0 <1.0 <0.5 <0.5 <10 06/25/05 <50 <50 <1.0 < 0.5 < 0.5 < 0.5 <0.6 <1.0 <1.0 <1.0 <10 < 0.5 < 0.5 -09/17/05 <50 <50 12 < 0.5 < 0.5 < 0.5 <0.6 <1.0 <1.0 <1.0 <10 <0.5 <0.5 -In-situ Chemical Oxidation (Ozone injection) commences 09/24/05 12/26/05 <50 <50 6.1 < 0.5 <1.0 <1.0 <10 <0.5 <0.5 < 0.5 < 0.5 <0.6 <1.0 -03/23/06 <50 <50 <1.0 <0.5 < 0.5 <0.6 <1.0 <1.0 <1.0 <10 <0.5 <0.5 <0.5 -06/03/06 <50 <50 <0.5 <0.5 <0.5 <0.6 <1.0 <1.0 <1.0 <10 <0.5 <0.5 <1.0 -08/30/06 <50 <50 <1.0 <0.5 < 0.5 <0.5 <0.6 <1.0 <1.0 <1.0 <10 <0.5 <0.5 -12/04/06 <50 <50 36 <0.5 < 0.5 <0.5 <0.6 <1.0 <1.0 <1.0 <10 < 0.5 <0.5 -02/28/07 <50 <50 8.7 <0.5 <0.5 <1.0 <1.0 <1.0 <0.5 <0.5 <0.5 <0.6 <10 -05/29/07 <50 <50 59 < 0.5 < 0.5 < 0.5 <0.6 <1.0 <1.0 <1.0 <10 < 0.5 < 0.5 -08/20/07 <50 <50 10 <0.5 < 0.5 <0.5 <0.6 <1.0 <1.0 <1.0 <10 <0.5 <0.5 -MW-14 150 <0.5 10/25/07 <50 140 <0.5 <0.5 <0.6 <1.0 <1.0 <1.0 <10 <0.5 <0.5 -01/25/08 <50 <50 120 <0.5 < 0.5 <0.5 <0.6 <1.0 <1.0 <1.0 <10 <0.5 <0.5 -04/30/08 220 <50 210 <0.5 <0.5 < 0.5 <0.5 <0.6 <1.0 <1.0 <1.0 <10 < 0.5 -07/30/08 <50 <50 41 < 0.5 < 0.5 < 0.5 <0.6 <1.0 <1.0 <1.0 <10 < 0.5 < 0.5 -10/23/08 <50 <50 36 < 0.5 < 0.5 <0.5 <0.6 <1.0 <1.0 <1.0 <10 <0.5 <0.5 -03/26/09 <50 <50 26 <0.5 <1.0 <0.5 <0.5 <0.6 <10 ----06/05/09 500 1,200 40 < 0.5 < 0.5 < 0.5 <0.6 --<1.0 <10 ---09/09/09 390 1,800 160 <0.5 < 0.5 <0.5 <0.6 -<1.0 <10 ----

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11/12/09

02/18/10

05/17/10

11/23/10

05/20/11

<50

<50

<50

140

120

<50

<50

<50

<50

<50

<1.0

<1.0

<1.0

49

100

ANALYTICAL RESULTS OF GROUND WATER SAMPLES Rino Pacific/Oakland Truck Stop 1107 5th Street, Oakland, California

(µg/l)

Sampla		80	15M					8	3260B						8021
Sample ID	Date	TPH-g	TPH-d	MTBE	Benzene	Toluene	Ethyl- benzene	Total Xylenes	DIPE	ETBE	TAME	ТВА	EDB	1,2- DCA	MTBE
	10/25/07	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	01/25/08	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	04/30/08	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
MW-15	07/30/08	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	10/23/08	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
1	11/12/09	<50	-	<1.0	<0.5	<0.5	<0.5	<0.6	-	-	<1.0	<10	-	-	-
	11/23/10	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC
	01/25/08	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	04/30/08	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
MW-16	07/30/08	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
10100-10	10/23/08	<50	<50	<1.0	<0.5	<0.5	<0.5	<0.6	<1.0	<1.0	<1.0	<10	<0.5	<0.5	-
	11/12/09	<50	-	<1.0	<0.5	<0.5	<0.5	<0.6	-	-	<1.0	<10	-	-	-
	11/23/10	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC	NOACC

Notes:

µg/I: micrograms per liter

duplicate sample **†**:

not analyzed - :

TPH-d total petroleum hydrocarbons quantified as diesel

TPH-g: total petroleum hydrocarbons quantified as gasoline

EDB: 1,2-dibromoethane 1,2-DCA: 1,2-dichloroethane MTBE: methyl tertiary-butyl ether

DIPE: di-isopropyl ether

ethyl tertiary-butyl ether ETBE:

- TAME: tertiary-amyl methyl ether
- tertiary-butyl alcohol TBA:

ND: Non-detect above minimum laboratory detection

levels

NOACC No Access

Data		West	Ozone System Unit	East Ozone System Unit			
Date	Cumulative Hours	Flow (cfh)	Maintenance Notes	Cumulative Hours	Flow (cfh)	Maintenance Notes	
01/05/06	640	17	Installed hose clamps on all flow lines to prevent leaks. All wells set to 1-hr cycles and 2- hr off time.	596	20	Installed hose clamps on all flow lines to prevent leaks. All wells set to run for 1-hr cycles and 1-hr off time.	
01/16/08	NM	16	All wells set to run for 1-hr cycles, 2 to 3 times daily.	NM	17	System re-started. All wells set to run for 1-hr cycles, 2 to 3 times daily.	
02/15/06	1,511	15	Operational - no maintenance required.	1,469	18	Operational - no maintenance required.	
03/23/06	2,272	12	Operational - no maintenance required.	2,162	NM	System down - power is on-line, but there is no flow.	
04/27/06	2,950	NM	Turned down unit - ozone generator line clogged.	2,393	NM	System down - power is on-line, but there is no flow.	
05/22/06	3,083	12	Operational - no maintenance required.	2,793	15	Repaired broken injection line.	
06/01/06	3,301	12	Operational - no maintenance required.	3,009	15	Repaired broken injection line.	
07/05/06	4,117	NM	System shut down. Repairs needed.	NM	NM	Operational - no maintenance required.	
08/11/06	NM	NM	System off-line for repairs.	NM	NM	Operational - no maintenance required.	
08/30/06	NM	NM	System off-line for repairs.	NM	NM	Operational - no maintenance required.	
12/04/06	NM	NM	System off-line for repairs.	6,565	16	Repaired broken injection line.	

Data		West	Ozone System Unit	East Ozone System Unit			
Date	Cumulative Hours	Flow (cfh)	Maintenance Notes	Cumulative Hours	Flow (cfh)	Maintenance Notes	
12/16/08	NM	NM	System repaired and on-line.	NM	NM	Operational - no maintenance required.	
12/19/06	NM	NM	Operational - no maintenance required.	NM	NM	Repaired cracks in ozone lines. Adjusted sparge cycles from 1-hr cycles to 1/2-hr cycles.	
01/19/07	5,073	12	Operational - no maintenance required.	7,535	12	Operational - no maintenance required.	
03/13/07	NM	NM	System shut for ozone well destructions.	NM	NM	Operational - no maintenance required.	
05/29/07	NM	NM	System shut down for ozone well destructions.	NM	NM	Operational - no maintenance required.	
07/19/07	NM	NM	Ozone sparge points reinstalled.	11,472	12	Repaired broken injection line.	
07/27/07	6,173	12	System reactivated, fully operational. Adjusted sparge cycles from 1/2 hour cycles to 1- hr cycles. Cleared and replaced lines.	11,646	10	Operational - Adjusted sparge cycles from 1/2-hr cycles to 1-hr cycles. Cleared and replaced lines.	
08/09/07	6,477	12	Operational - no maintenance required.	11,949	10	Operational - no maintenance required.	
09/10/07	NM	NM	Operational - no maintenance required.	NM	NM	Operational - no maintenance required.	
12/21/07	9,514	NM	Operational - no maintenance required.	15,058	NM	Operational - no maintenance required.	
01/29/08	NM	NM	Operational - no maintenance required.	NM	NM	Operational - no maintenance required.	

Data		West	Ozone System Unit	East Ozone System Unit			
Date	Cumulative Hours	Flow (cfh)	Maintenance Notes	Cumulative Hours	Flow (cfh)	Maintenance Notes	
03/18/08	11,691	11	Operational - no maintenance required.	17,163	10	Operational - no maintenance required.	
4/28-29- 30/2008	12,682	10	Operational - no maintenance required.	18,154	10	Not producing Ozone. Manufacturer contacted.	
06/14/08	NM	NM	Not producing Ozone. Manufacturer contacted.	NM	NM	System re-start, lines blown- out/cleared, fittings replaced: still not producing Ozone.	
06/17/08	NM	NM	Manufacturer on-site. Troubleshooting. Sytem not producing Ozone.	NM	NM	Manufacturer on-site. Troubleshooting. Sytem not producing Ozone.	
06/21/08	NM	NM	Lines blown-out/cleared, fittings replaced: still not producing Ozone. Manufacturer states new Oxygen compressor required.	NM	NM	System not producing Ozone. Manufacturer state new Ozone generator required.	
09/02/08	13,837	19	Operational - no maintenance required.	18,224	20	Recconect well tubes and set timers.	
09/11/08	14,050	20	Operational - no maintenance required.	18,437	20	Operational - no maintenance required.	
09/16/08	14,167	20	Operational - no maintenance required.	18,554	20	Operational - no maintenance required.	
09/25/08	14,380	20	Operational - no maintenance required.	18,767	20	Operational - no maintenance required.	
10/01/08	14,520	20	Operational - no maintenance required.	18,907	20	Operational - no maintenance required.	
10/09/08	14,711	20	Operational - no maintenance required.	19,098	20	Operational - no maintenance required.	

Data		West	Ozone System Unit	East Ozone System Unit			
Date	Cumulative Hours	Flow (cfh)	Maintenance Notes	Cumulative Hours	Flow (cfh)	Maintenance Notes	
10/15/08	14,853	20	Operational - no maintenance required.	19,240	20	Operational - no maintenance required.	
10/23/08	15,044	20	Operational - no maintenance required.	19,797	20	Operational - no maintenance required.	
10/29/08	15,186	13	Operational - no maintenance required.	19,572	17	Operational - no maintenance required.	
11/03/08	15,302	20	Operational - no maintenance required.	19,688	20	Operational - no maintenance required.	
11/11/08	15,490	20	Operational - no maintenance required.	19,877	20	Operational - no maintenance required.	
11/17/08	15,628	20	Operational - no maintenance required.	20,014	20	Operational - no maintenance required.	
11/24/08	15,794	20	Operational - no maintenance required.	20,180	20	Operational - no maintenance required.	
12/01/08	15,958	20	Operational - no maintenance required.	20,344	20	Operational - no maintenance required.	
12/11/08	16,195	20	Operational - no maintenance required.	20,580	20	Operational - no maintenance required.	
12/15/08	16,289	20	Operational - no maintenance required.	20,674	20	Operational - no maintenance required.	
12/23/08	16,480	20	Operational - no maintenance required.	20,866	20	Operational - no maintenance required.	

Data		West	Ozone System Unit	East Ozone System Unit			
Date	Cumulative Hours	Flow (cfh)	Maintenance Notes	Cumulative Hours	Flow (cfh)	Maintenance Notes	
12/31/08	16,665	20	Line to manifold found damaged. Line replaced and system restarted.	21,050	20	Operational - no maintenance required.	
01/07/09	16,831	20	Operational - no maintenance required.	21,216	20	Line to manifold found damaged. Line replacaced and system restored.	
01/13/09	16,973	20	Operational - no maintenance required.	21,358	20	Operational - no maintenance required.	
01/28/09	17,327	20	Operational - no maintenance required.	21,712	20	Operational - no maintenance required.	
02/02/09	17,446	20	Operational - no maintenance required.	21,831	20	Operational - no maintenance required.	
02/11/09	17,651	20	Operational - no maintenance required.	22,035	20	Operational - no maintenance required.	
02/17/09	17,794	20	Operational - no maintenance required.	22,178	20	Operational - no maintenance required.	
02/23/09	17,934	20	Operational - no maintenance required.	22,318	20	Operational - no maintenance required.	
03/06/09	18,195	20	Operational - no maintenance required.	22,579	20	Operational - no maintenance required.	
03/09/09	18,263	20	Line to manifold damaged. Line replaced and system restarted	22,647	20	Operational - no maintenance required.	
03/18/09	18,479	20	Operational - no maintenance required.	22,862	20	Operational - no maintenance required.	

Data		West	Ozone System Unit	East Ozone System Unit			
Date	Cumulative Hours	Flow (cfh)	Maintenance Notes	Cumulative Hours	Flow (cfh)	Maintenance Notes	
04/10/09	19,019	20	Operational - Lines pressure tested/blown out. Manifold tubing inspected and repaired as needed.	23,401	20	Operational - Lines pressure tested/blown out. Manifold tubing inspected and repaired as needed.	
04/20/09	19,255	20	Operational - no maintenance required.	23,677	20	Operational - no maintenance required.	
05/05/09	19,611	20	Operational - no maintenance required.	23,993	20	Operational - no maintenance required.	
05/20/09	19,962	20	Operational - no maintenance required.	24,344	20	Operational - no maintenance required.	
06/05/09	20,342	-	Non-Operational - Ozone generator not turning on and white powder from oxygen cylinder on generator noted.	24,723	20	Operational - no maintenance required.	
06/17/09	20,479	-	Non-Operational - Oxygen cylinder on generator malfunction and awaiting repair.	25,006	20	Operational - no maintenance required.	
06/18/09		-	Oxygen and ozone generator replaced, ozone comporessor valve plate replaced.				
07/02/09	20,671	20	Operational	25,358	20	Operational	
07/29/09	21,284	20	Operational	25,970	20	Operational, but ozone appears to be leaking.	
08/07/09	21,522	20	Operational	26,207	20	Operational. Sealed conduits at pipe joints between wellheads and manifold. No ozone leaking.	
08/28/09	22,001	20	Operational	26,684	20	Operational - no maintenance required.	

Data		Ozone System Unit	East Ozone System Unit			
Date	Cumulative Hours	Flow (cfh)	Maintenance Notes	Cumulative Hours	Flow (cfh)	Maintenance Notes
09/09/09	22,275	20	Operational	26,957	20	Operational
10/01/09	22,772	20	Operational	27,454	20	Operational
10/15/09	23,022	20	Operational	27,705	20	Operational
10/22/09	23,362	20	Operational	28,045	20	Operational
10/24/09	23,362	20	Operational	28,045	20	Operational
11/12/09	23,727	20	Operational	28,407	20	Operational
11/27/09	24,067	20	Operational	28,749	20	Operational
12/11/09	24,386	20	Operational	29,069	20	Operational
12/24/09	24,681	20	Operational	29,364	20	Operational
01/08/10	25,024	20	Operational	29,706	20	Operational
01/21/10	25,320	20	Operational	30,002	20	Operational
02/02/10	25,592	20	Operational	30,275	20	Operational

		West	Ozone System Unit	East Ozone System Unit			
Date	Cumulative Hours	Flow (cfh)	Maintenance Notes	Cumulative Hours	Flow (cfh)	Maintenance Notes	
02/11/10	25,798	-	Non-Operational - Ozone generator not turning on and white powder noted.	30,491	20	Operational	
02/18/10	25,798	-	Non-Operational - Ozone generator not turning on, waiting for repairs.	30,643	18	Operational	
03/03/10	25,798	-	Non-Operational - Ozone generator not turning on, waiting for repairs.	30,938	20	Operational	
03/18/10	25,798	20	Non-Operational - Ozone generator not turning on, waiting for repairs.	31,282	20	Operational	
04/01/10	25,798	20	Non-Operational - Ozone generator not turning on, waiting for repairs.	31,600	20	Operational	
04/15/10	25,819	20	Operational	31,920	20	Operational	
04/29/10	26,138	20	Operational	32,239	20	Operational	
05/13/10	26,459	20	Operational	32,559	20	Operational	
05/26/10	26,756	20	Operational	32,857	20	Operational	
06/04/10	26,960	20	Operational	33,061	20	Operational	
06/16/10	27,235	20	Operational	33,336	20	Operational	
07/01/10	27,578	20	Operational	33,679	20	Operational	
07/12/10	27,830	20	Operational	33,931	20	Operational	

Data		West	Ozone System Unit	East Ozone System Unit			
Date	Cumulative Hours	Flow (cfh)	Maintenance Notes	Cumulative Hours	Flow (cfh)	Maintenance Notes	
08/02/10	28,310	24	Operational	34,411	20	Operational	
08/18/10	28,675	20	Operational	34,775	20	Operational	
09/03/10	29,041	20	Operational-OW-8, 18, 19, 20 turned off	35,141	20	Operational-OW-1, 2, 11, 12 turned off	
09/13/10	29,262	20	Operational-OW-8, 18, 19, 20 turned off	35,362	20	Operational-OW-1, 2, 11, 12 turned off	
09/21/10	29,440	20	Operational-OW-8, 18, 19, 20 turned off	35,541	20	Operational-OW-1, 2, 11, 12 turned off	
09/28/10	29,596	20	Operational-OW-8, 18, 19, 20 turned off	35,696	20	Operational-OW-1, 2, 11, 12 turned off	
10/05/10	29,750	20	Operational-OW-8, 18, 19, 20 turned off	35,850	20	Operational-OW-1, 2, 11, 12 turned off	
10/12/10	29,903	20	Operational-OW-8, 18, 19, 20 turned off	36,004	20	Operational-OW-1, 2, 11, 12 turned off	
10/19/10	30,059	20	Operational-OW-8, 18, 19, 20 turned off	36,160	20	Operational-OW-1, 2, 11, 12 turned off	
10/26/10	30,208	20	Operational-OW-8, 18, 19, 20 turned off	36,309	20	Operational-OW-1, 2, 11, 12 turned off	
11/02/10	30,362	20	Operational-OW-8, 18, 19, 20 turned off	36,463	20	Operational-OW-1, 2, 11, 12 turned off	
11/09/10	30,519	20	Operational-OW-8, 18, 19, 20 turned off	36,620	20	Operational-OW-1, 2, 11, 12 turned off	
11/15/10	30,651	20	Operational-OW-8, 18, 19, 20 turned off	36,752	20	Operational-OW-1, 2, 11, 12 turned off	
11/30/10	30,985	20	Operational-OW-8, 18, 19, 20 turned off	37,086	20	Operational-OW-1, 2, 11, 12 turned off	
12/15/10	31,317	20	Operational-OW-8, 18, 19, 20 turned off	37,418	20	Operational-OW-1, 2, 11, 12 turned off	

Date		West	Ozone System Unit	East Ozone System Unit			
Dale	Cumulative Flow Hours (cfh)		Maintenance Notes	Cumulative Flow Hours (cfh) Maintenance Notes		Maintenance Notes	
01/19/11	32,091	20	Turned off ozone unit for repairs	38,192	20	Turned off ozone unit for repairs	

Notes:

cfh: cubic feet per hour

NM: not measured

West Ozone Unit consists of ozone injection wells OZ-6 through OZ-10 and OZ16 through OZ-20 East Ozone Unit consists of ozone injection wells OZ-1 through OZ-5 and OZ-11 through OZ-15

APPENDIX A

APPENDIX A

HISTORICAL BACKGROUND Rino Pacific - Oakland Truck Stop 1107 5th Street, Oakland, California

A.1. BACKGROUND

The site is located at 1107 5th Street in a commercial and industrial area of west Oakland, California (Figure 1). The property contains a service station building, four fuel dispenser islands, a truck scale, scale house, and two underground storage tanks (USTs). The site has been operating as a truck stop for the past 40 years.

A.2. REGIONAL GEOLOGIC/HYDROGEOLOGIC SETTING

The site is situated within the Coast Range Geomorphic Province of California. This geopmorphic province contains coastal foothills and mountains and extends from the Tehachapi Mountains in the south to the Klamath Mountains in the north. The western and eastern boundaries of this province are comprised of the Pacific Ocean and the Great Valley Geomorphic Province, respectively.

The site is located in the Franciscan Complex, which is subdivided into four major divisions identified as the Northern Coast Range, the Franciscan Block, the Diablo Range, and the Nacimiento Block. The site is situated within the Franciscan Block, an assemblage of variably deformed and metamorphosed rock units. The surface is composed of Quaternary alluvium; at depth, the site is underlain by rocks of the Franciscan Complex, which are composed predominately of detrital sedimentary rocks with volcanic tuffs and deep ocean marine sediments. The Franciscan lithologies typically have low porosity and permeability.

Based upon the General Soil Map from the *Soil Survey of Alameda County, Western Part*, issued by the United States Department of Agriculture Soil Conservation Service in 1981, the site area is situated within the Urban Land-Danville complex. This complex is located on low terraces and alluvial fans at an elevation of about 20 feet to 300 feet above mean sea level (MSL), and consists of approximately 60% Urban Land, 30% Danville soil, and 10% other soils. Danville soil is a silty clay loam that formed in alluvium originating primarily from sedimentary rock; Urban land consists of areas covered by roads, parking lots, and buildings. The nearest surface water feature in the vicinity of the property is the Oakland Estuary, approximately 2,400 feet to the south of the property.

Beginning in October 1996, ground water monitoring has been conducted at the site to assess the seasonal variation of elevation, gradient, and flow direction, and to define the impact of petroleum hydrocarbon compounds and fuel oxygenating compounds in shallow ground water beneath the site. Based on data from previous monitoring events, ground water at the property varies seasonally between approximately 10 inches to 6 feet below surface grade (bsg). The ground water flow has varied from southwest to north. This may be affected by changing recharge and discharge patterns, as well as leaking pipes.

Site Background Information: Rino Pacific - Oakland Truck Stop Page 2 of 7

A.2. UNDERGROUND STORAGE TANK REMOVAL

In March 1999, two 10,000-gallon diesel USTs, one 10,000-gallon gasoline UST, and one 8,000-gallon gasoline UST were removed from the site. The approximate location of the former USTs is shown on Figure 2.

Interim remedial action was performed during the UST removal to address contaminated soil and ground water. Approximately 2,100 tons of contaminated soil were removed from the excavation. Soil samples were collected from the excavation and stockpiles as directed by the Fire Inspector. Contaminated ground water was removed from the excavation pit; approximately 33,000 gallons of water were pumped into temporary storage tanks, which were then transported and disposed off-site. Approximately 1,700 tons of backfill was placed in the excavation. Results of the soil samples taken during the excavation are not available.

A.3. SITE ASSESSMENT ACTIVITIES

In November 1996, ground water monitoring wells MW-1 through MW-3 were installed to a depth of 20 feet bsg to assess contamination from an unauthorized release of fuel, which was repaired as soon as it was discovered. Product recovery sumps equipped with skimmers were installed in the wells and approximately 6 gallons of gasoline were recovered.

Monitoring well MW-2 was destroyed in January 1999. Additional monitoring wells MW-4 through MW-9 were installed to a total depth of 20 feet bsg in August 2000. Contamination was detected in each of the wells, and free product was occasionally evident in well MW-7.

Monitoring wells MW-10 and MW-11 were installed in May 2002 to a total depth of 12 feet bsg. At this time, well MW-3 was abandoned and well MW-3N was installed to a depth of 12 feet bsg.

In July 2002, eight soil borings were advanced on 5th Street and Chestnut Street to total depths between 5 feet and 8 feet bsg to determine if contamination was migrating off-site along preferential pathways (i.e. utility trenches). Sample results indicated high methyl tertiary-butyl ether (MTBE) concentrations that ranged from 170,000 micrograms per liter (μ g/l) to 460,000 μ g/l in grab ground water samples from borings drilled directly north of the site, along the 5th Street sewer line. Borings east of the site had little to no contamination.

In January 2003, a passive skimmer was placed inside monitoring well MW-7 to remove free product. During monitoring activities in April 2004, free-product was noted in MW-8. The passive skimmer in MW-7 was moved to MW-8 to remove the free product.

Site Background Information: Rino Pacific - Oakland Truck Stop Page 3 of 7

In October 2004, three pilot borings were advanced at the site to install three ground water monitoring wells MW-12 through MW-14. Wells MW-12 and MW-13 were installed in the 5th Street right of way to the north of the property to a vertical depth of 20 feet bsg and completed as ground water monitoring wells using 2-inch diameter polyvinylchloride (PVC) casing with a 0.020-inch slotted screen installed from 5 feet to 20 feet bsg. Well MW-14 was installed in the northeast corner of the site with the same construction as wells MW-12 and MW-13. A total of three soil samples, taken from the monitoring well pilot borings, were analyzed for petroleum hydrocarbon constituents. In sample MW14-10, 1.8 milligrams per kilogram (mg/kg) TPH-d and 2.0 mg/kg MTBE were detected.

On 05 through 07 and 18 July 2006, seven soil borings (P1 through P7) were advanced on-site to depths of 20 feet bsg with direct-push technology (P6 and P7) and 40 feet bsg (P1 through P5) with a hollow-stem auger drill rig. All borings were continuously cored from surface grade to total depth. Soil and grab ground water samples were collected at selected intervals based on lithology encountered during drilling; grab ground water samples were collected from borings advanced immediately adjacent to P1 through P5, and at total depth in borings P6 and P7. Soil samples were collected between depths of 6 feet and 40 feet bsg from borings P1 through P7 and analyzed for petroleum hydrocarbon constituents. TPH-g was detected in soil samples P1-6, P1-21, P2-8, and P4-7 at concentrations of 210 mg/kg, 2.6 mg/kg, 110 mg/kg, and 10 mg/kg, respectively. TPH-d was detected in samples P1-6, P2-8, and P4-7 at concentrations of 7,600 mg/kg, 680 mg/kg, and 13,000 mg/kg, respectively.

Grab ground water samples were collected from soil borings advanced immediately adjacent to P1 through P5 at selected sandy zones between 10 feet and 35 feet bsg, and from borings P6 and P7 at a depth of 20 feet bsg. TPH-g was detected in boring P1 at 20 feet and 35 feet bsg, in boring P4 at 10 feet bsg, in boring P5 at 10 feet and 35 feet bsg, and in borings P6 and P7 at 20 feet bsg at concentrations ranging from 130 µg/l (P6-20-W) to 38,000 µg/l (P4-W-10). TPH-d was detected in boring P1 at 20 feet and 35 feet bsg, in boring P4 at 10 feet bsg, and in boring P7 at 20 feet bsg at concentrations ranging from 4,500 µg/l (P1-W-35) to 350,000 µg/l (P4-W-10). BTEX constituents were detected in boring P1 at 20 feet and 35 feet bsg, P5 at 10 feet and 35 feet bsg, and P6 at 20 feet bsg at maximum concentrations of 110 µg/l benzene (P1-W-20), 36 µg/l toluene (P5-W-10), 13 µg/l ethylbenzene (P1-W-35), and 17.3 µg/l total xylenes (P1-W-20). MTBE was detected in samples collected from boring P1 at 20 feet and 35 feet bsg, in boring P4 at 10 feet bsg, in boring P5 at 10 feet and 35 feet bsg, and in borings P6 and P7 at 20 feet bsg at concentrations ranging from 4.1 µg/l (P6-20-W) to 11,000 µg/l (P1-W-20). TAME was detected in boring P1 at 20 feet and 35 feet bsg, in boring P4 at 10 feet bsg, and in boring P5 at 10 feet bsg at concentrations ranging from 3.4 µg/l (P5-W-10) to 17 µg/l (P1-W-20). The lead scavenger 1,2-DCA was detected in boring P1 at 20 feet and 35 feet bsg at concentrations of 4.7 µg/l and 3.4 µg/l, respectively. Benzene was detected in sample P1-21 at a concentration of 0.014 mg/kg. Toluene, ethylbenzene, and xylenes were detected in sample P2-8 at concentrations of 0.22 mg/kg, 0.62 mg/kg, and 4.2 mg/kg,

Site Background Information: Rino Pacific - Oakland Truck Stop Page 4 of 7

respectively.

In September 2007, AGE installed ground water monitoring wells MW-15 and MW-16 and conducted ground water assessment at the site utilizing CPT. The wells were installed off-site in the City of Oakland right-of-way approximately 160 feet northeast and 100 feet northwest (down-gradient) of the former UST area, respectively, to total depths of approximately 20.5 feet bsg and completed with 15 feet of well screen section extending from approximately 5 to 20 feet bsg.

A total of three borings (CPT-1 through CPT-3) were advanced to collect subsurface lithologic data and to collect discrete ground water samples. Two CPT borings were advanced on the eastern portion of the site to assess the vertical extent of petroleum hydrocarbon-impacts to ground water. One CPT boring was advanced off-site, in the northwest parking area of 5th Street, to assess the lateral and vertical extent of petroleum hydrocarbon impacts to ground water. Soil boring CPT-1 was advanced approximately 110 feet northwest of the northwest corner of the site. Soil borings CPT-2 and CPT-3 were advanced approximately 100 feet southeast and east of the former USTs located on the central portion of the site, respectively. Due to refusal the total depths of the lithologic soundings in borings CPT-1, CPT-2, and CPT-3 were 52 feet bsg, 52 feet bsg, and 54 feet bsg, respectively.

There were no reported detections of BTEX compounds in any if the soil samples collected for laboratory analysis. TPH-d was detected in two of the six soil samples collected at a reported concentration of 1.4 milligrams per kilograms (mg/kg; MW-15-6.5 feet) and 3.3 mg/kg (MW-16-6.5 feet). However, the laboratory report indicates that the results in sample MW-15-6.5 feet do not resemble a fuel pattern, and that the TPH-d results in sample MW-16-6.5 feet are primarily due to overlap from a heavy oil range product. TPH-g was detected in soil sample MW-15-6.5 feet at a reported concentration of 1.4 mg/kg.

Benzene was detected at concentrations of 2.0 micrograms per liter (μ g/l), 8.0 μ g/l, 10 μ g/l, and 13 μ g/l for samples CPT-2C, CPT-2B, CPT-3C, and CPT-3B, respectively. Toluene was detected at concentrations of 0.67 μ g/l, 1.1 μ g/l, 3.4 μ g/l, and 13 μ g/l for samples CPT-3C, CPT-3B, CPT-2C, and CPT-2B, respectively. Ethylbenzene was detected at a concentration of 0.57 μ g/l, 1.3 μ g/l,1.9 μ g/l, and 10 μ g/l for samples CPT-2C, CPT-2B, CPT-3C, and CPT-3B, respectively. Total xylenes were detected at concentrations of 2.1 μ g/l, 2.7 μ g/l, 5.5 μ g/l, and 1.3 μ g/l for samples CPT-3C, CPT-2B, and CPT-3B, respectively. There were no reported detections of BTEX compounds in ground water samples collected from boring CPT-1.

TPH-d was detected in three of the seven ground water samples collected; at concentrations of 54 μ g/l, 190 μ g/l, and 240 μ g/l in samples CPT-2C, CPT-3B, and CPT-3C, respectively. There were no reported detections of TPH-d in A-zone ground water samples CPT-2B, CPT-1A, CPT-1B or CPT-1C. TPH-g was detected in three of the seven

Site Background Information: Rino Pacific - Oakland Truck Stop Page 5 of 7

ground water samples collected; at concentrations of 69 μ g/l, 270 μ g/l, and 410 μ g/l in samples CPT-2B, CPT-3C, and CPT-3B, respectively. There were no reported detections of TPH-g in ground water samples CPT-2C, CPT-1A, CPT-1B or CPT-1C. MTBE was detected in three the seven ground water samples collected for analysis. MTBE was detected at concentration of 0.61 μ g/l, 0.93 μ g/l, and 16 μ g/l in ground water samples CPT-2C, CPT-3B, and CPT-3C. There were no reported detections of MTBE in ground water samples CPT-2C, CPT-3B, and CPT-3C. There were no reported detections of MTBE in ground water samples CPT-2B, CPT-1A, CPT-1B or CPT-1C.

In July 2008, AGE conducted the additional subsurface investigation at the site utilizing 25-ton truck mounted CPT drill rig. A total of three borings (CPT-4 through CPT-6) were advanced to collect subsurface lithologic data and to collect discrete ground water samples. CPT boring (CPT-4) was advanced on-site, approximately 40 feet northeast of the former UST area. CPT boring CPT-5 was advanced off-site, in the dirt area on the north side of 5th Street. CPT boring CPT-6 was advanced east of the site, on the eastern edge of Chestnut Street. Due to refusal, the total depths of the lithologic soundings in borings CPT-4, CPT-5, and CPT-6 were 49 feet bsg, 47 feet bsg and 45 feet bsg respectively. A total of seven ground water samples were collected from borings CPT-4 through CPT-5 and submitted for laboratory analysis. No contaminants of concern were detected in any of the samples analyzed.

A.4. SITE REMEDIATION ACTIVITIES

In March 2004, a total of ten pilot borings were advanced to 12.5 feet bsg at the site to install ten ozone sparge wells (OZ-1 through OZ-10). The microporous sparge interval was set at 10 to 12 feet bsg.

In October 2004, ten pilot borings were advanced to install ten ozone sparge wells OZ-11 through OZ-20. The sparge wells were completed with a manufacturer-assembled, 1-inch by 24-inch microporous sparge interval from 11 to 13 feet bsg and blank 1-inch casing extended to the surface. The filter pack was installed from 9 feet to 15 feet bsg.

During the first quarter 2005, AGE completed the installation of the interim remediation system subsurface piping network. All tubing was encased in Schedule 80 polyvinylchloride (PVC) piping.

On 24 September 2005, two ozone sparge systems were installed on-site and started; initiation of the ozone sparge system was delayed upon the client's request, as demolition activities were being conducted on-site.

On 13 March 2007, AGE personnel directed the destruction of five ozone injection wells (OZ6, OZ7, OZ10, OZ16 and OZ17) in preparation for truck scale upgrade activities to be performed by the property's lessee and CAT Scale. In preparation for destruction of ozone

Site Background Information: Rino Pacific - Oakland Truck Stop Page 6 of 7

injection wells OZ6, OZ7, OZ10, OZ16 and OZ17 all material within the original boreholes, including the well casings, filter pack, annular seal, and well cover boxes were over-drilled utilizing a CME-HT drill rig equipt with 10-inch, hollow stem augers. Following over-drilling activities, each borehole was backfilled with a cement grout mixture to surface grade.

Hydrocarbon-impacted soil surrounding the existing truck scale was excavated as part of truck scale removal and upgrade activities. Soil was removed to a depth of approximately six feet bsg using an excavator. Soil surrounding the existing truck scale was excavated by representatives of CAT Scale. The excavation provided the removal of a significant amount of petroleum hydrocarbon-impacted soil within the present vadose and smear zones. The soil was removed using an excavator to a total depth of approximately 6 feet bsg. While soil was excavated, trucks were immediately loaded for transportation to Keller Canyon Landfill in Pittsburg, California. The impacted soil was transported by Intrinsic Transportation, Inc, of Santa Rosa, California and JT & T Enterprises of Cotati, California under non-hazardous waste manifest. According to total sum of truck weight tickets 543.76 tons or approximately 367 cubic yards of soil were disposed. The excavation was backfilled with clean fill sand and pea gravel mixtures. The fill material placed in the excavation and was compacted by representatives of CAT Scale. In addition, the installation of the scale was conducted by representatives of CAT Scale.

TPH-d-range petroleum hydrocarbons were detected at concentrations ranging from 95 mg/kg to 9,800 mg/kg. TPH-g-range petroleum hydrocarbons were detected at concentrations ranging from 1.0 mg/kg to 50 mg/kg. Benzene concentrations ranged from 0.020 mg/kg to 0.20 mg/kg. Toluene concentrations ranged from 0.018 mg/kg to 0.020 mg/kg. Ethylbenzene concentrations ranged from 0.014 mg/kg to 0.028 mg/kg. Total xylene concentrations ranged from 0.020 mg/kg to 0.020 mg/kg to 0.020 mg/kg. Total soil samples at concentrations ranging from 0.030 mg/kg to 2.6 mg/kg. The reported concentrations of TAME ranged from 0.011 mg/kg to 0.90 mg/kg.

Based on the analytical results gathered from the floor and the sidewalls of the excavation, it appears that moderate to elevated levels of petroleum hydrocarbon-impacts to soil remain at depths of approximately six feet bsg on the northwest portion of the site.

After completion of the truck scale upgrade by CAT Scale, AGE personnel directed the advancement of five pilot soil borings at the site for the re-installation of ozone injection wells OZ6R, OZ7R, OZ10R, OZ16R and OZ17R.

The ozone well pilot soil borings were completed as single-level ozone injection wells with manufacturer-assembled, 2-inch by 24-inch microporous sparge points set from approximately 11 feet to 13 feet bsg.

From September 2005 to July 2007 the systems injected ozone for a ½-hour duration into two ozone injection points at a time. A total of ten ozone injection wells, in conjunction with

Site Background Information: Rino Pacific - Oakland Truck Stop Page 7 of 7

the south unit, have been on-line throughout the majority of the Second Quarter 2007. The north unit has been shut down since 13 Mach 2007 due to the destruction of ozone wells OZ6, OZ7, OZ10, OZ16, and OZ17; however, the north unit was brought back on-line 27 July 2007 subsequent to re-plumbing the recently installed ozone injection points. Both the north and south unit systems currently inject ozone for a 1-hour duration into one ozone injection points at a time.

APPENDIX B

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY

ALEX BRISCOE, Director



ENVIRONMENTAL HEALTH SERVICES ENVIRONMENTAL PROTECTION 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 FAX (510) 337-9335

July 26, 2011

Mr. Reed Rinehart Rinehart Oil, Inc. 2401 North State Street Ukiah, CA 95482

Subject: Work Plan Approval and Case File Review for Fuel Leak Case No. RO0000234 and GeoTracker Global ID T0600102136, Rino Pacific/Oakland Truck Stop, 1107 5th Street, Oakland, CA 94607

Dear Mr. Rinehart:

Alameda County Environmental Health (ACEH) staff has reviewed the case file for the abovereferenced site including the most recent documents entitled, "*Monitoring Well Destruction/Re-Installation Work Plan*," dated July 15, 2011 (Work Plan) and "*First Semi-Annual Report – 2011*," dated June 20, 2011 (Monitoring Report). The Work Plan proposes destruction of two monitoring wells and re-installation of one monitoring well (MW-13R). The Monitoring Report presents results from groundwater sampling performed in May 2011 and includes recommendations for future actions.

The proposed scope of work in the "*Monitoring Well Destruction/Re-Installation Work Plan*," dated July 15, 2011 is acceptable and may be implemented as proposed. We request that you perform the proposed work and present the results in the Well Installation Report requested below.

The Monitoring Report recommends continuing groundwater monitoring on a semi-annual schedule. We concur with continuation of semi-annual groundwater monitoring. The Monitoring Report also recommends repairing and optimizing the East and West Ozone units. The ozone units have operated since 2005 and it appears that continued operation of the system is unlikely to achieve significant additional cleanup results. Therefore, we do not concur with the recommendation to repair and continue operation of the ozone system. We request that you prepare a Feasibility Study that reviews site conditions and cleanup progress to date and evaluates additional remedial options.

TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Jerry Wickham), according to the following schedule:

- October 10, 2011 Feasibility Study Report
- January 6, 2012 Well Installation and Semi-annual Groundwater Monitoring Report
- July 10, 2012 Semi-Annual Groundwater Monitoring Report

Reed Rinehart RO0000234 July 26, 2011 Page 2

If you have any questions, please call me at 510-567-6791 or send me an electronic mail message at jerry.wickham@acgov.org.

Sincerely,

Jerry Wickham, California PG 3766, CEG 1177, and CHG 297 Senior Hazardous Materials Specialist

Attachment: Responsible Party(ies) Legal Requirements/Obligations

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Leroy Griffin, Oakland Fire Department, 250 Frank H. Ogawa Plaza, Ste. 3341, Oakland, CA 94612-2032 2032 (Sent via E-mail to: <u>Igriffin@oaklandnet.com</u>)

Brian Millman, GeoEnvironmental, Inc., 837 Shaw Road, Stockton, CA 95215 (*Sent via E-mail to: bmillman@advgeoenv.com*)

Donna Drogos, ACEH (Sent via E-mail to: <u>donna.drogos@acgov.org</u>) Jerry Wickham, ACEH (Sent via E-mail to: <u>jerry.wickham@acgov.org</u>)

GeoTracker, e-File

Responsible Party(ies) Legal Requirements / Obligations

REPORT REQUESTS

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form. The electronic copy replaces paper copies and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) GeoTracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and other data to the GeoTracker database over the Internet. Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is required in GeoTracker (in PDF format). Please visit SWRCB website information on these requirements the for more (http://www.waterboards.ca.gov/water_issues/programs/ust/electronic_submittal/).

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "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." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to \$10,000 per day for each day of violation.

Alameda County Environmental Cleanup Oversight Programs	REVISION DATE: July 20, 2010				
	ISSUE DATE: July 5, 2005				
(LOP and SLIC)	PREVIOUS REVISIONS: October 31, 2005; December 16, 2005; March 27, 2009; July 8, 2010				
SECTION: Miscellaneous Administrative Topics & Procedures	SUBJECT: Electronic Report Upload (ftp) Instructions				

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities.

REQUIREMENTS

- Please <u>do not</u> submit reports as attachments to electronic mail.
- Entire report including cover letter must be submitted to the ftp site as a single portable document format (PDF) with no password protection.
- It is preferable that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- Signature pages and perjury statements must be included and have either original or electronic signature.
- <u>Do not</u> password protect the document. Once indexed and inserted into the correct electronic case file, the document will be secured in compliance with the County's current security standards and a password. Documents with password protection <u>will not</u> be accepted.
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention:

RO#_Report Name_Year-Month-Date (e.g., RO#5555_WorkPlan_2005-06-14)

Submission Instructions

- 1) Obtain User Name and Password
 - a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
 - i) Send an e-mail to <u>deh.loptoxic@acgov.org</u>
 - b) In the subject line of your request, be sure to include "ftp PASSWORD REQUEST" and in the body of your request, include the Contact Information, Site Addresses, and the Case Numbers (RO# available in Geotracker) you will be posting for.
- 2) Upload Files to the ftp Site
 - a) Using Internet Explorer (IE4+), go to <u>ftp://alcoftp1.acgov.org</u>
 - (i) Note: Netscape, Safari, and Firefox browsers will not open the FTP site as they are NOT being supported at this time.
 - b) Click on Page located on the Command bar on upper right side of window, and then scroll down to Open FTP Site in Windows Explorer.
 - c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
 - d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
 - e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.
- 3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
 - a) Send email to <u>deh.loptoxic@acgov.org</u> notify us that you have placed a report on our ftp site.
 - b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name @acgov.org. (e.g., firstname.lastname@acgov.org)
 - c) The subject line of the e-mail must start with the RO# followed by **Report Upload**. (e.g., Subject: RO1234 Report Upload) If site is a new case without an RO#, use the street address instead.
 - d) If your document meets the above requirements and you follow the submission instructions, you will receive a notification by email indicating that your document was successfully uploaded to the ftp site.

APPENDIX C

APPENDIX C

MONITORING AND SAMPLING PROCEDURES Rino Pacific - Oakland Truck Stop 1107 5th Street, Oakland, California

GROUND WATER MONITORING AND SAMPLING SCHEDULE

Previously, the monitoring schedule was performed in accordance with a ground water monitoring program approved by ACWD in an email dated 20 March 2009. The following is a summary of the previous monitoring and reporting program:

- Quarterly monitoring (measuring depth to water) of site ground water monitoring wells.
- Quarterly sampling of four ground water monitoring wells (MW-5, MW-7, MW-8 and MW-14).
- Annual monitoring and sampling of eight ground water monitoring wells (MW-1, MW-3N, MW-4, MW-9, MW-12, MW-13, MW-15 and MW-16).
- Temporary suspension of sampling requirements of three ground water monitoring wells (MW-6, MW-10 and MW-11).
- Semi-annual reporting of data collected for two quarters, with reports to include updates of interim remedial activity at the site.

On 19 May 2009, the State Water Resources Control Board passed resolution number 2009-0040 requiring semi-annual monitoring and reporting for all sites unless site-specific issues dictate greater frequency of monitoring.

In a letter dated 23 July 2009, the ACWD directed semi-annual ground water monitoring and sampling at the site. The sampling schedule will be implemented beginning with the fourth quarter 2010 as follows:

- First quarter no monitoring, sampling or reporting;
- Second quarter semi-annual monitoring, sampling and reporting;
- Third quarter no monitoring, sampling or reporting; and
- Fourth quarter annual monitoring, sampling and reporting.

For semi-annual monitoring and sampling events, only wells MW-5, MW-7, MW-8, and MW-14 will be sampled. All wells will be monitored for depth to water and assessed for well integrity. For annual monitoring and sampling events, eight additional ground water monitoring wells (MW-1, MW-3N, MW-4, MW-9, MW-12, MW-13, MW-15 and MW-16) will

Rino Pacific - Oakland Truck Stop AGE-NC Project No. 03-1101 Page 2 of 3

be monitored and sampled.

Semi-annual monitoring reporting periods are recommended as follows:

First semi-annual reporting period will be January to June, while the second semiannual reporting period will be July to December of each year.

Interim In-situ Ozone Injection Remedial System

• Twice monthly maintenance checks and recording of system operational parameters.

GROUND WATER SAMPLING PROCEDURES

Prior to purging and sampling the ground water monitoring wells, static water level was measured using an electric water level indicator. Water level data was recorded to the nearest 0.01 foot from a reference point marked on the top of the PVC well casing. Before and after each use, the measuring device was rinsed with water.

WELL PURGING

Subsequent to measurement of depth to water and prior to sampling, the well was purged to ensure the sample is representative of ground water in the formation, rather than of water standing in the well casing. Monitoring wells were purged by using a disposable polyethylene bailers. The disposable polyethylene bailers is disposed of after one use and required no decontaminating, minimizing cross contamination due to sampling devices. The wells were purged until: 1) a minimum of three casing volumes was removed from each well; and 2) field-measured ground water parameters including temperature, electrical conductivity, and pH had stabilized. Purge water generated during sampling activities was contained on-site in an appropriately labeled 55-gallon drum.

SAMPLE WITHDRAWAL

Following 80 percent recovery of ground water within the well after purging, ground water samples were collected from the monitoring wells using disposable polyethylene bailers. These bailers are disposed of after one use and required no decontaminating, minimizing cross contamination due to sampling devices. The samples were drawn and collected in such a manner that agitation and exposure of the ground water to the atmosphere was

Rino Pacific - Oakland Truck Stop AGE-NC Project No. 03-1101 Page 3 of 3

minimal. Sample containers were filled using the appropriate disposable sampling attachment which allows controlled flow out of the bottom of the bailer.

SAMPLE HANDLING

Ground water samples are collected into laboratory-supplied 40-ml volatile organic analysis (VOA) vials without preservative; samples are collected with no visible air bubbles present in the vials after filling and capping; while selected well samples were collected in 1-liter amber bottles without preservative. Following collection, samples are appropriately labeled, placed on ice, and kept in a cooler until delivered to Cal Tech Environmental Laboratories (CTEL), a State of California Department of Public Health-certified analytical laboratory, for analysis. Samples are analyzed for:

- Total petroleum hydrocarbons quantified as gasoline (TPH-g) in accordance with EPA Method 8015 Modified;
- Selected wells for Total petroleum hydrocarbons quantified as diesel (TPH-d) in accordance with EPA Method 8015 Modified; and
- Benzene, toluene, ethyl-benzene, and total xylenes (BTEX), and fuel additives methyl tertiary-butyl ether (MTBE), di-isopropyl ether (DIPE), ethyl tertiary-butyl ether (ETBE), tertiary-amyl methyl ether (TAME), tertiary butanol (TBA), ethylene dibromide (EDB), and 1,2-dichloroethane (1,2-DCA) in accordance with EPA Method 8260B.

EQUIPMENT DECONTAMINATION

Prior to sample collection, all sampling tools used for sample collection were thoroughly washed with a solution of Alconox and rinsed with clean water.