

November 17, 2008

McDonough, Holland & Allen PC  
Attention: John Briggs  
555 Capitol Mall, 9<sup>th</sup> Floor  
Sacramento, CA 95814

**FOURTH QUARTER 2008 GROUNDWATER MONITORING  
WABASH NATIONAL TRAILERS PROPERTY  
APN 008-03-013**  
3600 West Capitol Avenue  
West Sacramento, California  
Reference No. 2553-001.03

## **INTRODUCTION**

In accordance with your request, we performed Fourth Quarter 2008 groundwater monitoring at the subject site. Our scope of work included the collection of groundwater samples from the eight monitoring wells on the property for laboratory analysis. This report presents background information regarding the site, a summary of the monitoring activities, the laboratory data, and discussion regarding the results.

A *Vicinity Map* showing the location of the subject property is presented as Plate 1. A drawing showing property boundaries, relevant features, well locations, and groundwater elevations is presented as Plate 2, *Plot Plan*. Site plans showing PCE and TCE analytical data obtained during the Fourth Quarter 2008 monitoring episode are provided as Plates 3 and 4, respectively. Groundwater data are summarized on Tables I and II. The laboratory report and chain-of-custody documentation are appended.

## **SITE DESCRIPTION AND BACKGROUND**

### **Site Location and Description**

The approximate 6.5-acre subject property is situated within a light-industrial area of West Sacramento, Yolo County, California. The site is bordered to the south by West Capitol Avenue and to the northwest by an embankment associated with the nearby Interstate 80 freeway. Light-industrial and commercial properties border the site to the

east and west. The property is occupied and used by Wabash National Trailers for the sales and maintenance of tractor-trailer equipment and accessories. A portion of the property is occupied by a roofing supply business.

The southwesterly portion of the site supports a single-story, office/warehouse building of wood-frame and tilt-up concrete construction with a concrete slab-on-grade floor. The interior of the building includes a southerly office area, a central parts stockroom, and a northerly open warehouse area. The northwesterly corner of the subject building includes a currently unused wash rack area with a floor drain. A second unused wash rack area with a similar drain and a two-chambered sump is situated just outside the northern wall of the building. It is understood that the described wash rack areas were last used for cleaning trailer equipment in the late 1980s.

The areas immediately adjacent to the northerly and easterly sides of the building are asphalt-paved. The northern portion of the subject site is gravel-surfaced. The asphalt and gravel surfaced areas are used for the parking and storage of truck trailers.

### **Historical Site Use**

Our firm prepared a *Phase I Environmental Site Assessment* of the subject property dated May 24, 2004.<sup>1</sup> Our research generally indicates that the subject property historically was part of a larger area of orchard that extended off-site in all directions as early as 1937. In 1948, the central and southerly portions of the subject property were developed by Fruehauf with the existing building and trailer parking areas as a truck trailer sales and service business. The northern portion of the property remained farmed and/or vacant until initiation of its current use as a trailer parking lot sometime in the 1980s.

Wastewater from the two mentioned wash rack systems reportedly discharged to a currently unused on-site septic system located near the northwestern corner of the subject property; the precise location of the septic system is unknown. The abandoned septic system reportedly included a septic tank, a distribution box, and a four-line leach field. The drains at the existing two on-site wash areas reportedly discharged directly to the on-site leach field for approximately 20 years until the property was connected to the City sewer system in the late 1960s.

### **Past Environmental Investigations**

Environmental investigations performed by others at the site in the early 1990s identified soil and groundwater contamination beneath the property. The source of the contamination reportedly was from the on-site septic system. The contaminants detected in soil and groundwater beneath the site included gasoline, diesel, and volatile organic compounds (VOCs). VOCs detected beneath the site have included tetrachloroethene (PCE), trichloroethene (TCE), and dichloroethene (DCE). It is considered likely that the

---

<sup>1</sup> Raney Geotechnical, Inc.; "Phase I Environmental Site Assessment, Wabash National Trailers, APN 008-03-013, 3600 West Capitol Avenue, West Sacramento, California"; May 24, 2004; Reference No. 2553-001.

detected contamination is a result of past discharges of petroleum hydrocarbons and cleaning solvents to the on-site septic system via the wash rack systems. The highest concentrations of petroleum hydrocarbons and VOCs in soils and groundwater have been detected within the far northwesterly portion of the site in the suspected area of the leach field.

Six groundwater monitoring wells (MW-1 through MW-6) were installed at the site in the early 1990s. Our firm directed the installation of four additional groundwater monitoring wells (MW-7, MW-8, MW-9, and MW-10) at the site in December 2006. Groundwater samples were collected from all ten monitoring wells in December 2006 for laboratory analysis; the results were presented in a report dated March 29, 2007.<sup>2</sup> Additionally, groundwater samples were collected from all ten monitoring wells in April 2007 for laboratory analysis; the results were presented in a report dated May 31, 2007.<sup>3</sup> First Quarter 2008 groundwater monitoring results were presented in a report dated March 14, 2008.<sup>4</sup> Second Quarter 2008 groundwater monitoring results were presented in a report dated April 15, 2008.<sup>5</sup> Third Quarter 2008 groundwater monitoring results, and information regarding the abandonment of MW-2, MW-3, and MW-7 and the construction of MW-11 were presented in a report dated September 15, 2008.<sup>6</sup>

## GROUNDWATER SAMPLING

Groundwater monitoring wells (MW-1, MW-4, MW-5, MW-6, MW-8, MW-9, MW-10, and MW-11) on the subject property were sampled on October 22, 2008. Prior to groundwater sampling, at least three well volumes were pumped/purged from each monitoring well. The temperature, pH, and conductivity of the pumped well water were measured during purging of each well; these parameters generally had stabilized prior to groundwater sampling. Immediately following purging and recharge of the groundwater to very near the originally measured levels, groundwater samples were collected from each well using a clean disposable polyethylene bailer. Each groundwater sample was quickly transferred from the bailer via a pre-cleaned disposable bottom drain assembly into appropriate sample containers (VOAs) obtained from the analytical laboratory. The water

---

<sup>2</sup> Raney Geotechnical, Inc.; "Installation of Additional Groundwater Monitoring Wells, Wabash National Trailers Property, APN 008-03-013, 3600 West Capitol Avenue, West Sacramento, California"; March 29, 2007; Reference No. 2553-001.01.

<sup>3</sup> Raney Geotechnical, Inc.; "April 2007 Groundwater Monitoring, Wabash National Trailers Property, APN 008-03-013, 3600 West Capitol Avenue, West Sacramento, California"; May 31, 2007; Reference No. 2553-001.01.

<sup>4</sup> Raney Geotechnical, Inc.; "First Quarter 2008 Groundwater Monitoring, Wabash National Trailers Property, APN 008-03-013, 3600 West Capitol Avenue, West Sacramento, California"; March 14, 2008; Reference No. 2553-001.03.

<sup>5</sup> Raney Geotechnical, Inc.; "Second Quarter 2008 Groundwater Monitoring, Wabash National Trailers Property, APN 008-03-013, 3600 West Capitol Avenue, West Sacramento, California"; April 15, 2008; Reference No. 2553-001.03.

<sup>6</sup> Raney Geotechnical, Inc.; "Third Quarter 2008 Groundwater Monitoring, Wabash National Trailers Property, APN 008-03-013, 3600 West Capitol Avenue, West Sacramento, California"; September 15, 2008; Reference No. 2553-001.03.

samples were labeled, placed on ice, and logged onto a chain-of-custody form prior to transport to the analytical laboratory.

## **GROUNDWATER ELEVATIONS/ FLOW DIRECTION**

Prior to the described purging and groundwater sampling, the static water level within each well was measured with a water level meter to the nearest 0.01 foot. Groundwater depths at the wells ranged from 7.85 feet to 9.63 feet (below top of well casing); the corresponding elevations ranged from 1.47 feet to 1.70 feet above mean sea level. Groundwater depth and elevation data are presented on Table I, *Groundwater Elevation Data*; the data also are depicted on the *Plot Plan*, Plate 2. In general, the groundwater elevations at the monitoring wells are lower than had been measured during any past monitoring event, and on the order of one to three feet lower than had been measured at the wells in April 2008. It is noted that, none of the past groundwater elevation data were obtained during the late summer or fall (when groundwater levels are expected to be seasonally lower).

The groundwater elevations measured at the wells during the Fourth Quarter event are mostly within a very narrow range and do not demonstrate a pervasive groundwater flow direction. The data continue to indicate very flat groundwater gradient conditions.

## **LABORATORY TESTING**

The groundwater samples collected from the monitoring wells were submitted to a State-certified analytical laboratory (SunStar Laboratories, Inc) under chain-of-custody. All groundwater samples were analyzed for VOCs, fuel oxygenates, and petroleum hydrocarbons (C6 through C40). The laboratory results are summarized on Table II and the laboratory report and chain-of-custody documentation are appended.

As shown on the laboratory report and Table II, only the groundwater samples from MW4 and MW6 contained any of the tested analytes at concentrations above the laboratory reporting limits; these samples contained 200 and 100 micrograms per liter ( $\mu\text{g/L}$ ) PCE, respectively, and lower concentrations of TCE. None of the groundwater samples contained petroleum hydrocarbons or oxygenates at concentrations above the laboratory reporting limits.

## **DISCUSSION**

The recent groundwater analytical data generally are similar to previous monitoring data from the site. The results generally suggest that the extent of groundwater containing significant concentrations of contaminants is limited to the northerly portion of the property. PCE and TCE data and isoconcentration contours from the Fourth Quarter 2008 sampling event are shown on Plates 3 and 4, respectively. Review of the

groundwater monitoring data obtained to date does not indicate significant off-site migration of VOCs in shallow groundwater; none of the groundwater samples collected from perimeter monitoring wells has contained PCE at concentrations greater than the drinking water standard of 5.0 ug/L. The groundwater elevation data continue demonstrate relatively flat groundwater gradient conditions; the limited extent of contaminant migration likely is related to the apparent lack of a strong groundwater gradient beneath the site.

o0o

Please contact the undersigned if you have any questions or require additional information.

Sincerely,

**RANEY GEOTECHNICAL, INC.**



Jeff Showalter  
Environmental Specialist



Joe Brusca  
Environmental Coordinator  
Certified Engineering Geologist No. 1948

Attachments:           Plate 1, Vicinity Map  
                              Plate 2, Plot Plan  
                              Plate 3, Groundwater PCE Data  
                              Plate 4, Groundwater TCE Data  
                              Table I, Groundwater Elevation Data  
                              Table II, Summary of Groundwater Analytical Data  
                              Appendix - Analytical Laboratory Reports

JS:JB:js

(2) addressee

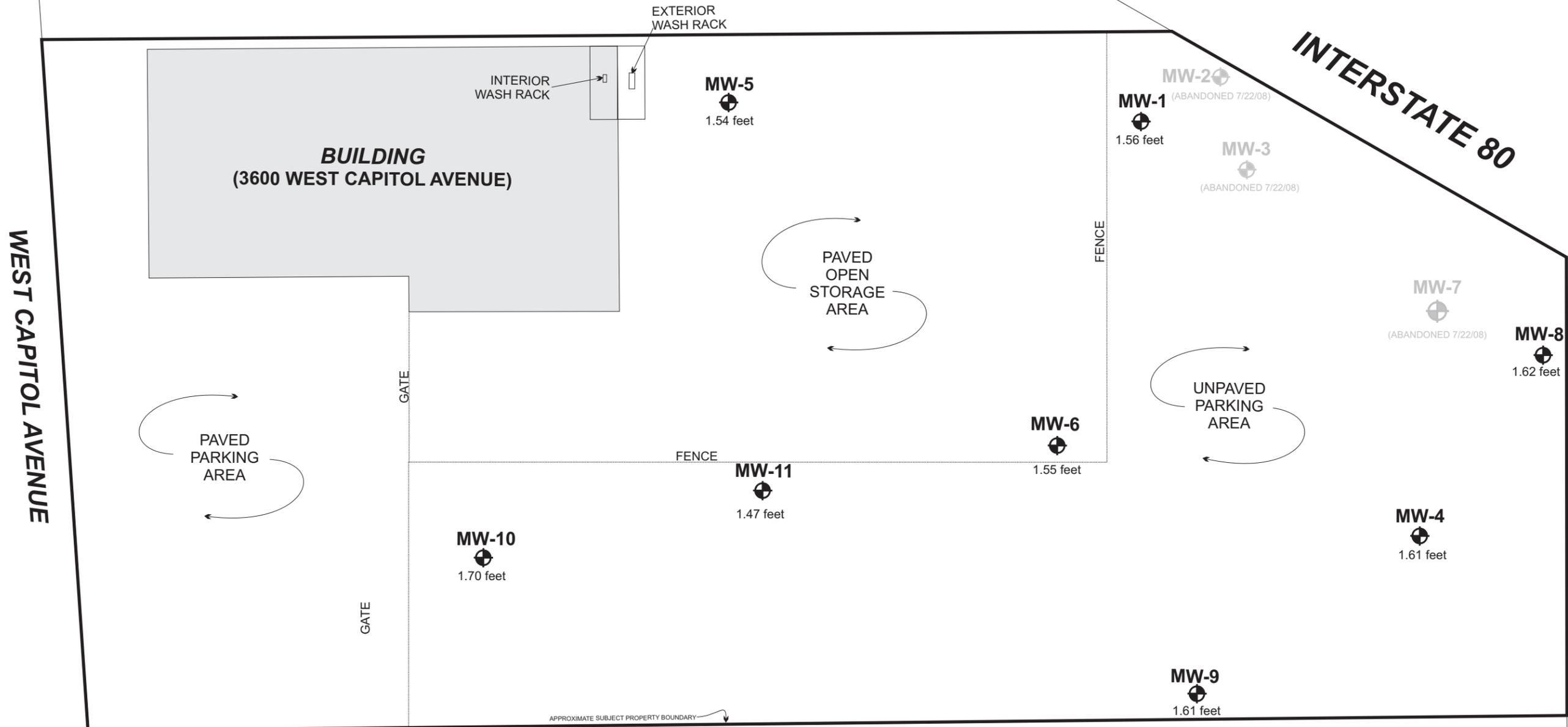
(1) Central Valley Regional Water Quality Control Board; Attn: Kathleen Amaru

(1) Yolo County Environmental Health; Attn: Michael Sears

(1) Sam Jin General Supply Company



DAN DE WALD INC., WESTERN STAR TRAILERS  
(3610 WEST CAPITOL AVENUE)



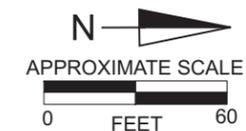
HOLIDAY EQUIPMENT COMPACTION RENTALS  
(3512 WEST CAPITOL AVENUE)

**NOTES:**

1. Prepared from a 2002 aerial photograph, previous reports by others, and our field notes.
2. All feature dimensions and locations are approximate only.

**LEGEND:**

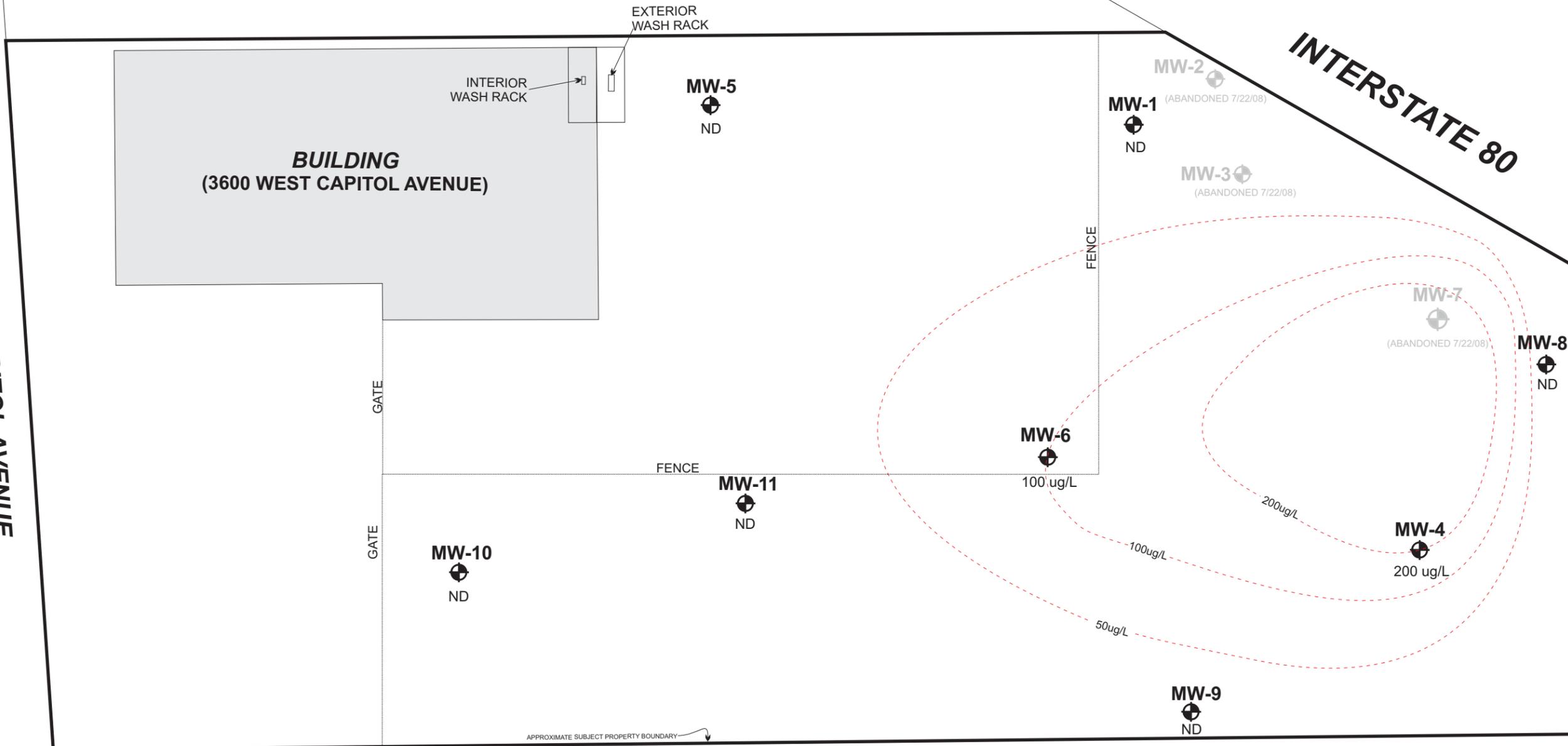
- ⊕ Groundwater monitoring well, with groundwater elevation measured on October 22, 2008



**PLOT PLAN**  
PLATE 2

DAN DE WALD INC., WESTERN STAR TRAILERS  
(3610 WEST CAPITOL AVENUE)

WEST CAPITOL AVENUE



HOLIDAY EQUIPMENT COMPACTION RENTALS  
(3512 WEST CAPITOL AVENUE)

**NOTES:**

1. Prepared from a 2002 aerial photograph, previous reports by others, and our field notes.
2. All feature dimensions and locations are approximate only.

**LEGEND:**

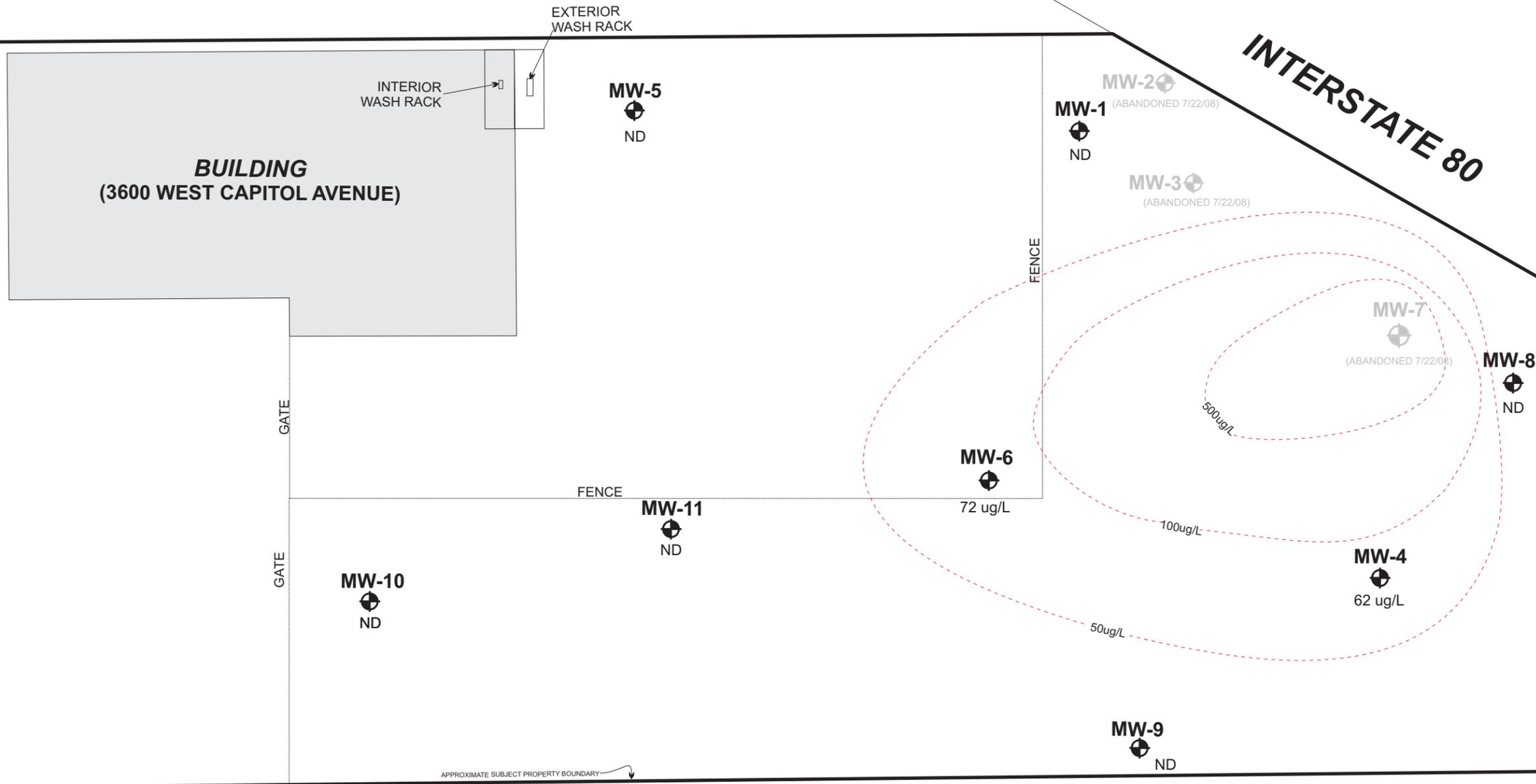
- ⊕ Groundwater monitoring well with recent PCE data (October 22, 2008)
- - - Contour of PCE concentration



**GROUNDWATER PCE DATA**  
**FOURTH QUARTER 2008**  
PLATE 3

DAN DE WALD INC., WESTERN STAR TRAILERS  
(3610 WEST CAPITOL AVENUE)

WEST CAPITOL AVENUE

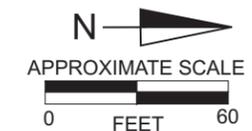


**NOTES:**

1. Prepared from a 2002 aerial photograph, previous reports by others, and our field notes.
2. All feature dimensions and locations are approximate only.

**LEGEND:**

- Groundwater monitoring well with recent TCE data (October 22, 2008)
- Contour of TCE concentration



**GROUNDWATER TCE DATA**  
**FOURTH QUARTER 2008**  
PLATE 4

**TABLE I**  
**SUMMARY OF GROUNDWATER ELEVATION DATA**  
**WABASH NATIONAL TRAILERS, WEST SACRAMENTO**  
Raney Reference No. 2553-001.03

MONITORING WELL	TOP OF WELL CASING ELEVATION	DATE MEASURED	GROUNDWATER DEPTH	GROUNDWATER ELEVATION
MW-1	9.41 feet	12/13/2006	6.80 feet	2.61 feet
		4/25/2007	5.72 feet	3.69 feet
		1/17/2008	5.35 feet	4.06 feet
		3/31/2008	5.60 feet	3.81 feet
		7/25/2008	7.71 feet	1.70 feet
		10/22/2008	7.85 feet	1.56 feet
MW-2	8.97 feet	12/13/2006	5.23 feet	3.74 feet
		4/25/2007	5.31 feet	3.66 feet
		1/17/2008	4.98 feet	3.99 feet
		4/1/2008	5.15 feet	3.82 feet
		7/22/2008	Abandoned	
		10/22/2008	Abandoned	
MW-3	9.14 feet	12/13/2006	5.55 feet	3.59 feet
		4/25/2007	5.37 feet	3.77 feet
		1/17/2008	5.11 feet	4.03 feet
		3/31/2008	5.32 feet	3.82 feet
		7/22/2008	Abandoned	
		10/22/2008	Abandoned	
MW-4	10.05 feet	12/13/2006	6.80 feet	3.25 feet
		4/25/2007	6.63 feet	3.42 feet
		1/17/2008	5.99 feet	4.06 feet
		3/31/2008	6.20 feet	3.85 feet
		7/25/2008	7.95 feet	2.10 feet
		10/22/2008	8.44 feet	1.61 feet
MW-5	11.00 feet	12/12/2006	7.40 feet	3.60 feet
		4/25/2007	7.37 feet	3.63 feet
		1/17/2008	6.93 feet	4.07 feet
		3/31/2008	7.21 feet	3.79 feet
		7/25/2008	9.26 feet	1.74 feet
		10/22/2008	9.46 feet	1.54 feet
MW-6	10.14 feet	12/12/2006	6.80 feet	3.34 feet
		4/25/2007	6.44 feet	3.70 feet
		1/17/2008	6.09 feet	4.05 feet
		3/31/2008	6.29 feet	3.85 feet
		7/25/2008	8.35 feet	1.79 feet
		10/22/2008	8.59 feet	1.55 feet
MW-7	9.45 feet	12/12/2006	5.60 feet	3.85 feet
		4/25/2007	5.75 feet	3.70 feet
		1/17/2008	5.42 feet	4.03 feet
		3/31/2008	5.64 feet	3.81 feet
		7/22/2008	Abandoned	
		10/22/2008	Abandoned	
MW-8	9.72 feet	12/13/2006	6.45 feet	3.27 feet
		4/25/2007	6.01 feet	3.71 feet
		1/17/2008	5.71 feet	4.01 feet
		4/1/2008	5.89 feet	3.83 feet
		7/25/2008	8.25 feet	1.47 feet
		10/22/2008	8.10 feet	1.62 feet
MW-9	10.67 feet	12/12/2006	7.10 feet	3.57 feet
		4/25/2007	6.96 feet	3.71 feet
		1/17/2008	6.60 feet	4.07 feet
		3/31/2008	6.83 feet	3.84 feet
		7/25/2008	8.95 feet	1.72 feet
		10/22/2008	9.06 feet	1.61 feet
MW-10	11.33 feet	12/12/2006	7.75 feet	3.78 feet
		4/25/2007	7.45 feet	3.88 feet
		1/17/2008	6.98 feet	4.35 feet
		3/31/2008	7.29 feet	4.04 feet
		7/25/2008	9.34 feet	1.99 feet
		10/22/2008	9.63 feet	1.70 feet
MW-11	10.58 feet	7/25/2008	8.93 feet	1.65 feet
		10/22/2008	9.11 feet	1.47 feet

**TABLE II**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA**

**WABASH NATIONAL TRAILERS, WEST SACRAMENTO**

Raney Reference No. 2553-001.03

MONITORING WELL	SAMPLED BY	DATE SAMPLED	PETROLEUM HYDROCARBONS			VOLATILE ORGANIC COMPOUNDS								
			TPH-g	TPH-d	TPH-mo	PCE	TCE	cis-1,2, DCE	trans-1,2, DCE	BENZENE	TOLUENE	ETHYL BENZENE	XYLENES	
MW-1	Others	9/19/1993	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
		4/15/2005	NT	NT	NT	ND	ND	ND	ND	ND	ND	29	ND	ND
	Raney Geotechnical	12/19/2006	ND	ND	ND	1.8	ND	ND	ND	ND	ND	ND	ND	ND
		4/25/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		1/9/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		3/31/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		7/25/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
10/22/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
MW-2	Others	9/19/1993	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
		4/15/2005	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Raney Geotechnical	12/13/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		4/25/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		1/17/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		4/1/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		7/22/2008	Abandoned											
10/22/2008	Abandoned													
MW-3	Others	9/19/1993	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
		4/14/2005	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Raney Geotechnical	12/13/2006	ND	ND	ND	31	1.1	ND	ND	ND	ND	ND	ND	ND
		4/25/2007	ND	580	940	ND	ND	ND	ND	ND	ND	ND	ND	ND
		1/17/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		3/31/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		7/22/2008	Abandoned											
10/22/2008	Abandoned													
MW-4	Others	4/14/2005	NT	NT	NT	340	89	3.4	ND	ND	1.7	ND	ND	
	Raney Geotechnical	12/19/2006	ND	ND	ND	180	54	ND	ND	ND	ND	ND	ND	
		4/25/2007	ND	ND	ND	170	46	2	ND	ND	ND	ND	ND	
		1/9/2008	670	ND	ND	220	65	2.2	ND	ND	ND	ND	ND	
		3/31/2008	ND	ND	ND	220	58	2.4	ND	ND	ND	ND	ND	
		7/25/2008	ND	ND	ND	300	96	3.4	ND	ND	ND	ND	ND	
		10/22/2008	ND	ND	ND	200	62	ND	ND	ND	ND	ND	ND	

- Notes: 1. All groundwater concentrations expressed as micrograms per liter (ug/L).  
2. ND = Not detected at a concentration above the laboratory reporting limit.  
3. NT = Not tested.  
4. No other VOCs were detected at concentrations above the laboratory reporting limits.

**TABLE II (continued)**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA**  
**WABASH NATIONAL TRAILERS, WEST SACRAMENTO**

Raney Reference No. 2553-001.03

MONITORING WELL	SAMPLED BY	DATE SAMPLED	PETROLEUM HYDROCARBONS			VOLATILE ORGANIC COMPOUNDS							
			TPH-g	TPH-d	TPH-mo	PCE	TCE	cis-1,2, DCE	trans-1,2, DCE	BENZENE	TOLUENE	ETHYL BENZENE	XYLENES
MW-5	Others	4/14/2005	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND
	Raney Geotechnical	12/12/2006	ND	ND	ND	1.4	ND	ND	ND	ND	ND	ND	ND
		4/25/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		1/9/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		3/31/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		7/25/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		10/22/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-6	Others	4/14/2005	NT	NT	NT	120	46	2.3	1.7	ND	ND	ND	ND
	Raney Geotechnical	12/12/2006	ND	ND	ND	150	58	5.3	5.7	ND	ND	ND	ND
		4/25/2007	ND	ND	ND	140	60	5.1	6.3	ND	ND	ND	ND
		1/9/2008	ND	ND	ND	160	67	6.3	8.8	ND	ND	ND	ND
		3/31/2008	ND	ND	ND	120	63	6.7	8.6	ND	ND	ND	ND
		7/25/2008	ND	ND	ND	160	100	12	20	ND	ND	ND	ND
		10/22/2008	ND	ND	ND	100	72	ND	ND	ND	ND	ND	ND
MW-7	Raney Geotechnical	12/13/2006	370	ND	ND	1,300	350	45	72	ND	ND	ND	ND
		4/25/2007	1,000	ND	ND	2,800	400	38	88	ND	ND	ND	ND
		1/9/2008	ND	ND	ND	740	670	71	190	ND	ND	ND	ND
		3/31/2008	ND	ND	ND	1,300	630	65	140	ND	ND	ND	ND
		7/22/2008	Abandoned										
		10/22/2008	Abandoned										
MW-8	Raney Geotechnical	12/13/2006	ND	ND	ND	3.7	ND	ND	ND	ND	ND	ND	ND
		4/25/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		1/9/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		4/1/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		7/25/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		10/22/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

- Notes: 1. All groundwater concentrations expressed as micrograms per liter (ug/L).  
2. ND = Not detected at a concentration above the laboratory reporting limit.  
3. NT = Not tested.  
4. No other VOCs were detected at concentrations above the laboratory reporting limits.

**TABLE II (continued)**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA**  
**WABASH NATIONAL TRAILERS, WEST SACRAMENTO**

Raney Reference No. 2553-001.03

MONITORING WELL	SAMPLED BY	DATE SAMPLED	PETROLEUM HYDROCARBONS			VOLATILE ORGANIC COMPOUNDS							
			TPH-g	TPH-d	TPH-mo	PCE	TCE	cis-1,2, DCE	trans-1,2, DCE	BENZENE	TOLUENE	ETHYL BENZENE	XYLENES
MW-9	Raney Geotechnical	12/12/2006	ND	ND	ND	3.5	ND	ND	ND	ND	ND	ND	ND
		4/25/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		1/9/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		3/31/2008	ND	ND	ND	1.5	ND	ND	ND	ND	ND	ND	ND
		7/25/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		10/22/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-10	Raney Geotechnical	12/12/2006	ND	ND	ND	1.3	ND	ND	ND	ND	ND	ND	ND
		4/25/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		1/9/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		3/31/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		7/25/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		10/22/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-11	Raney Geotechnical	7/25/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		10/22/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

- Notes: 1. All groundwater concentrations expressed as micrograms per liter (ug/L).  
2. ND = Not detected at a concentration above the laboratory reporting limit.  
3. NT = Not tested.  
4. No other VOCs were detected at concentrations above the laboratory reporting limits.



3002 Dow Ave. , Suite 212  
Tustin, CA 92780  
714.505.4010 Phone  
714.505.4010 Fax

10 November 2008

Joe Brusca  
Raney Geotechnical, Inc.  
3140 Beacon Blvd  
West Sacramento, CA 95691  
RE: Wabash 4th Quarter 2008

Enclosed are the results of analyses for samples received by the laboratory on 10/23/08 09:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Albert Vargas  
Senior Project Coordinator



3002 Dow Ave. , Suite 212  
 Tustin, CA 92780  
 714.505.4010 Phone  
 714.505.4010 Fax

Raney Geotechnical, Inc. 3140 Beacon Blvd West Sacramento CA, 95691	Project: Wabash 4th Quarter 2008 Project Number: 2553-001-03 Project Manager: Joe Brusca	<b>Reported:</b> 11/10/08 16:52
---	--	------------------------------------

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	T801333-01	Water	10/22/08 00:00	10/23/08 09:40
MW-4	T801333-02	Water	10/22/08 00:00	10/23/08 09:40
MW-5	T801333-03	Water	10/22/08 00:00	10/23/08 09:40
MW-6	T801333-04	Water	10/22/08 00:00	10/23/08 09:40
MW-8	T801333-05	Water	10/22/08 00:00	10/23/08 09:40
MW-9	T801333-06	Water	10/22/08 00:00	10/23/08 09:40
MW-10	T801333-07	Water	10/22/08 00:00	10/23/08 09:40
MW-11	T801333-08	Water	10/22/08 00:00	10/23/08 09:40

SunStar Laboratories, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Raney Geotechnical, Inc.  
3140 Beacon Blvd  
West Sacramento CA, 95691

Project: Wabash 4th Quarter 2008  
Project Number: 2553-001-03  
Project Manager: Joe Brusca

**Reported:**  
11/10/08 16:52

**MW-1  
T801333-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

**SunStar Laboratories, Inc.**

**Extractable Petroleum Hydrocarbons by 8015C**

C6-C12 (GRO)	ND	0.50	mg/l	1	8102309	10/23/08	10/23/08	EPA 8015C	
C13-C28 (DRO)	ND	0.50	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.50	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		98.2 %	65-135		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	8102308	10/23/08	10/29/08	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Albert Vargas, Senior Project Coordinator

Raney Geotechnical, Inc.  
3140 Beacon Blvd  
West Sacramento CA, 95691

Project: Wabash 4th Quarter 2008  
Project Number: 2553-001-03  
Project Manager: Joe Brusca

**Reported:**  
11/10/08 16:52

**MW-1  
T801333-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
cis-1,2-Dichloroethene	ND	1.0	ug/l	1	8102308	10/23/08	10/29/08	EPA 8260B	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Raney Geotechnical, Inc.  
3140 Beacon Blvd  
West Sacramento CA, 95691

Project: Wabash 4th Quarter 2008  
Project Number: 2553-001-03  
Project Manager: Joe Brusca

**Reported:**  
11/10/08 16:52

**MW-1**  
**T801333-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

o-Xylene	ND	0.50	ug/l	1	8102308	10/23/08	10/29/08	EPA 8260B	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		100 %	77.1-110		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		100 %	66.3-111		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98.6 %	84.7-109		"	"	"	"	

SunStar Laboratories, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Raney Geotechnical, Inc.  
3140 Beacon Blvd  
West Sacramento CA, 95691

Project: Wabash 4th Quarter 2008  
Project Number: 2553-001-03  
Project Manager: Joe Brusca

**Reported:**  
11/10/08 16:52

**MW-4  
T801333-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

**SunStar Laboratories, Inc.**

**Extractable Petroleum Hydrocarbons by 8015C**

C6-C12 (GRO)	ND	0.50	mg/l	1	8102309	10/23/08	10/23/08	EPA 8015C	
C13-C28 (DRO)	ND	0.50	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.50	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		81.6 %	65-135		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	8102308	10/23/08	10/29/08	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Raney Geotechnical, Inc.  
3140 Beacon Blvd  
West Sacramento CA, 95691

Project: Wabash 4th Quarter 2008  
Project Number: 2553-001-03  
Project Manager: Joe Brusca

**Reported:**  
11/10/08 16:52

**MW-4  
T801333-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

cis-1,2-Dichloroethene	ND	1.0	ug/l	1	8102308	10/23/08	10/29/08	EPA 8260B	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
<b>Tetrachloroethene</b>	<b>200</b>	25	"	25	"	"	10/30/08	"	
1,2,3-Trichlorobenzene	ND	1.0	"	1	"	"	10/29/08	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
<b>Trichloroethene</b>	<b>62</b>	25	"	25	"	"	10/30/08	"	
Trichlorofluoromethane	ND	1.0	"	1	"	"	10/29/08	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



3002 Dow Ave. , Suite 212  
 Tustin, CA 92780  
 714.505.4010 Phone  
 714.505.4010 Fax

Raney Geotechnical, Inc. 3140 Beacon Blvd West Sacramento CA, 95691	Project: Wabash 4th Quarter 2008 Project Number: 2553-001-03 Project Manager: Joe Brusca	<b>Reported:</b> 11/10/08 16:52
---	--	------------------------------------

**MW-4**  
**T801333-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

o-Xylene	ND	0.50	ug/l	1	8102308	10/23/08	10/29/08	EPA 8260B	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98.8 %	77.1-110		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		98.8 %	66.3-111		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		100 %	84.7-109		"	"	"	"	

SunStar Laboratories, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Raney Geotechnical, Inc.  
3140 Beacon Blvd  
West Sacramento CA, 95691

Project: Wabash 4th Quarter 2008  
Project Number: 2553-001-03  
Project Manager: Joe Brusca

**Reported:**  
11/10/08 16:52

**MW-5  
T801333-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

**SunStar Laboratories, Inc.**

**Extractable Petroleum Hydrocarbons by 8015C**

C6-C12 (GRO)	ND	0.50	mg/l	1	8102309	10/23/08	10/23/08	EPA 8015C	
C13-C28 (DRO)	ND	0.50	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.50	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		99.4 %	65-135		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	8102308	10/23/08	10/29/08	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Albert Vargas, Senior Project Coordinator

Raney Geotechnical, Inc.  
3140 Beacon Blvd  
West Sacramento CA, 95691

Project: Wabash 4th Quarter 2008  
Project Number: 2553-001-03  
Project Manager: Joe Brusca

**Reported:**  
11/10/08 16:52

**MW-5  
T801333-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
cis-1,2-Dichloroethene	ND	1.0	ug/l	1	8102308	10/23/08	10/29/08	EPA 8260B	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Raney Geotechnical, Inc.  
3140 Beacon Blvd  
West Sacramento CA, 95691

Project: Wabash 4th Quarter 2008  
Project Number: 2553-001-03  
Project Manager: Joe Brusca

**Reported:**  
11/10/08 16:52

**MW-5  
T801333-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

o-Xylene	ND	0.50	ug/l	1	8102308	10/23/08	10/29/08	EPA 8260B	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		101 %	77.1-110		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		104 %	66.3-111		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98.6 %	84.7-109		"	"	"	"	

SunStar Laboratories, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Raney Geotechnical, Inc.  
3140 Beacon Blvd  
West Sacramento CA, 95691

Project: Wabash 4th Quarter 2008  
Project Number: 2553-001-03  
Project Manager: Joe Brusca

**Reported:**  
11/10/08 16:52

**MW-6**  
**T801333-04 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

**SunStar Laboratories, Inc.**

**Extractable Petroleum Hydrocarbons by 8015C**

C6-C12 (GRO)	ND	0.50	mg/l	1	8102309	10/23/08	10/23/08	EPA 8015C	
C13-C28 (DRO)	ND	0.50	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.50	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		101 %	65-135		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	8102308	10/23/08	10/29/08	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



3002 Dow Ave. , Suite 212  
Tustin, CA 92780  
714.505.4010 Phone  
714.505.4010 Fax

Raney Geotechnical, Inc.  
3140 Beacon Blvd  
West Sacramento CA, 95691

Project: Wabash 4th Quarter 2008  
Project Number: 2553-001-03  
Project Manager: Joe Brusca

**Reported:**  
11/10/08 16:52

**MW-6**  
**T801333-04 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

cis-1,2-Dichloroethene	ND	1.0	ug/l	1	8102308	10/23/08	10/29/08	EPA 8260B	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
<b>Tetrachloroethene</b>	<b>100</b>	25	"	25	"	"	10/30/08	"	
1,2,3-Trichlorobenzene	ND	1.0	"	1	"	"	10/29/08	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
<b>Trichloroethene</b>	<b>72</b>	25	"	25	"	"	10/30/08	"	
Trichlorofluoromethane	ND	1.0	"	1	"	"	10/29/08	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Albert Vargas, Senior Project Coordinator

Raney Geotechnical, Inc.  
3140 Beacon Blvd  
West Sacramento CA, 95691

Project: Wabash 4th Quarter 2008  
Project Number: 2553-001-03  
Project Manager: Joe Brusca

**Reported:**  
11/10/08 16:52

**MW-6**  
**T801333-04 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

o-Xylene	ND	0.50	ug/l	1	8102308	10/23/08	10/29/08	EPA 8260B	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		94.6 %	77.1-110		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		104 %	66.3-111		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		101 %	84.7-109		"	"	"	"	

SunStar Laboratories, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Raney Geotechnical, Inc.  
3140 Beacon Blvd  
West Sacramento CA, 95691

Project: Wabash 4th Quarter 2008  
Project Number: 2553-001-03  
Project Manager: Joe Brusca

**Reported:**  
11/10/08 16:52

**MW-8  
T801333-05 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

**SunStar Laboratories, Inc.**

**Extractable Petroleum Hydrocarbons by 8015C**

C6-C12 (GRO)	ND	0.50	mg/l	1	8102309	10/23/08	10/23/08	EPA 8015C	
C13-C28 (DRO)	ND	0.50	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.50	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		98.5 %	65-135		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	8102308	10/23/08	10/29/08	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Raney Geotechnical, Inc.  
3140 Beacon Blvd  
West Sacramento CA, 95691

Project: Wabash 4th Quarter 2008  
Project Number: 2553-001-03  
Project Manager: Joe Brusca

**Reported:**  
11/10/08 16:52

**MW-8  
T801333-05 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
cis-1,2-Dichloroethene	ND	1.0	ug/l	1	8102308	10/23/08	10/29/08	EPA 8260B	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



3002 Dow Ave. , Suite 212  
 Tustin, CA 92780  
 714.505.4010 Phone  
 714.505.4010 Fax

Raney Geotechnical, Inc. 3140 Beacon Blvd West Sacramento CA, 95691	Project: Wabash 4th Quarter 2008 Project Number: 2553-001-03 Project Manager: Joe Brusca	<b>Reported:</b> 11/10/08 16:52
---	--	------------------------------------

**MW-8**  
**T801333-05 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

o-Xylene	ND	0.50	ug/l	1	8102308	10/23/08	10/29/08	EPA 8260B	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98.6 %	77.1-110		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		107 %	66.3-111		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		100 %	84.7-109		"	"	"	"	

SunStar Laboratories, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Raney Geotechnical, Inc.  
3140 Beacon Blvd  
West Sacramento CA, 95691

Project: Wabash 4th Quarter 2008  
Project Number: 2553-001-03  
Project Manager: Joe Brusca

**Reported:**  
11/10/08 16:52

**MW-9**  
**T801333-06 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

**SunStar Laboratories, Inc.**

**Extractable Petroleum Hydrocarbons by 8015C**

C6-C12 (GRO)	ND	0.50	mg/l	1	8102309	10/23/08	10/23/08	EPA 8015C	
C13-C28 (DRO)	ND	0.50	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.50	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		93.4 %	65-135		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	8102308	10/23/08	10/29/08	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Albert Vargas, Senior Project Coordinator

Raney Geotechnical, Inc.  
3140 Beacon Blvd  
West Sacramento CA, 95691

Project: Wabash 4th Quarter 2008  
Project Number: 2553-001-03  
Project Manager: Joe Brusca

**Reported:**  
11/10/08 16:52

**MW-9  
T801333-06 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
cis-1,2-Dichloroethene	ND	1.0	ug/l	1	8102308	10/23/08	10/29/08	EPA 8260B	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Raney Geotechnical, Inc.  
3140 Beacon Blvd  
West Sacramento CA, 95691

Project: Wabash 4th Quarter 2008  
Project Number: 2553-001-03  
Project Manager: Joe Brusca

**Reported:**  
11/10/08 16:52

**MW-9**  
**T801333-06 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

o-Xylene	ND	0.50	ug/l	1	8102308	10/23/08	10/29/08	EPA 8260B	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		102 %	77.1-110		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		107 %	66.3-111		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		100 %	84.7-109		"	"	"	"	

SunStar Laboratories, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Raney Geotechnical, Inc.  
3140 Beacon Blvd  
West Sacramento CA, 95691

Project: Wabash 4th Quarter 2008  
Project Number: 2553-001-03  
Project Manager: Joe Brusca

**Reported:**  
11/10/08 16:52

**MW-10**  
**T801333-07 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

**SunStar Laboratories, Inc.**

**Extractable Petroleum Hydrocarbons by 8015C**

C6-C12 (GRO)	ND	0.50	mg/l	1	8102309	10/23/08	10/23/08	EPA 8015C	
C13-C28 (DRO)	ND	0.50	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.50	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		97.3 %	65-135		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	8102308	10/23/08	10/29/08	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Raney Geotechnical, Inc.  
3140 Beacon Blvd  
West Sacramento CA, 95691

Project: Wabash 4th Quarter 2008  
Project Number: 2553-001-03  
Project Manager: Joe Brusca

**Reported:**  
11/10/08 16:52

**MW-10**  
**T801333-07 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
cis-1,2-Dichloroethene	ND	1.0	ug/l	1	8102308	10/23/08	10/29/08	EPA 8260B	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



3002 Dow Ave. , Suite 212  
 Tustin, CA 92780  
 714.505.4010 Phone  
 714.505.4010 Fax

Raney Geotechnical, Inc. 3140 Beacon Blvd West Sacramento CA, 95691	Project: Wabash 4th Quarter 2008 Project Number: 2553-001-03 Project Manager: Joe Brusca	<b>Reported:</b> 11/10/08 16:52
---	--	------------------------------------

**MW-10**  
**T801333-07 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

o-Xylene	ND	0.50	ug/l	1	8102308	10/23/08	10/29/08	EPA 8260B	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		106 %	77.1-110		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		111 %	66.3-111		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		101 %	84.7-109		"	"	"	"	

SunStar Laboratories, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Albert Vargas, Senior Project Coordinator



3002 Dow Ave. , Suite 212  
 Tustin, CA 92780  
 714.505.4010 Phone  
 714.505.4010 Fax

Raney Geotechnical, Inc.  
 3140 Beacon Blvd  
 West Sacramento CA, 95691

Project: Wabash 4th Quarter 2008  
 Project Number: 2553-001-03  
 Project Manager: Joe Brusca

**Reported:**  
 11/10/08 16:52

**MW-11**  
**T801333-08 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

**SunStar Laboratories, Inc.**

**Extractable Petroleum Hydrocarbons by 8015C**

C6-C12 (GRO)	ND	0.50	mg/l	1	8102309	10/23/08	10/23/08	EPA 8015C	
C13-C28 (DRO)	ND	0.50	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.50	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		94.9 %	65-135		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	8102308	10/23/08	10/29/08	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Albert Vargas, Senior Project Coordinator



3002 Dow Ave. , Suite 212  
Tustin, CA 92780  
714.505.4010 Phone  
714.505.4010 Fax

Raney Geotechnical, Inc.  
3140 Beacon Blvd  
West Sacramento CA, 95691

Project: Wabash 4th Quarter 2008  
Project Number: 2553-001-03  
Project Manager: Joe Brusca

**Reported:**  
11/10/08 16:52

**MW-11**  
**T801333-08 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
cis-1,2-Dichloroethene	ND	1.0	ug/l	1	8102308	10/23/08	10/29/08	EPA 8260B	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Albert Vargas, Senior Project Coordinator

Raney Geotechnical, Inc.  
3140 Beacon Blvd  
West Sacramento CA, 95691

Project: Wabash 4th Quarter 2008  
Project Number: 2553-001-03  
Project Manager: Joe Brusca

**Reported:**  
11/10/08 16:52

**MW-11**  
**T801333-08 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

o-Xylene	ND	0.50	ug/l	1	8102308	10/23/08	10/29/08	EPA 8260B	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		99.2 %	77.1-110		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		106 %	66.3-111		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		99.4 %	84.7-109		"	"	"	"	

SunStar Laboratories, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



3002 Dow Ave. , Suite 212  
Tustin, CA 92780  
714.505.4010 Phone  
714.505.4010 Fax

Raney Geotechnical, Inc.  
3140 Beacon Blvd  
West Sacramento CA, 95691

Project: Wabash 4th Quarter 2008  
Project Number: 2553-001-03  
Project Manager: Joe Brusca

Reported:  
11/10/08 16:52

**Extractable Petroleum Hydrocarbons by 8015C - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 8102309 - EPA 3510C GC**

**Blank (8102309-BLK1)**

Prepared & Analyzed: 10/23/08

C6-C12 (GRO)	ND	0.50	mg/l							
C13-C28 (DRO)	ND	0.50	"							
C29-C40 (MORO)	ND	0.50	"							
Surrogate: <i>p</i> -Terphenyl	3.71		"	4.00		92.8	65-135			

**LCS (8102309-BS1)**

Prepared & Analyzed: 10/23/08

C13-C28 (DRO)	19.1	0.50	mg/l	20.0		95.6	75-125			
Surrogate: <i>p</i> -Terphenyl	3.62		"	4.00		90.5	65-135			

**Matrix Spike (8102309-MS1)**

Source: T801332-02

Prepared & Analyzed: 10/23/08

C13-C28 (DRO)	18.3	0.50	mg/l	20.0	0.301	90.1	75-125			
Surrogate: <i>p</i> -Terphenyl	3.67		"	4.00		91.9	65-135			

**Matrix Spike Dup (8102309-MSD1)**

Source: T801332-02

Prepared & Analyzed: 10/23/08

C13-C28 (DRO)	20.2	0.50	mg/l	20.0	0.301	99.7	75-125	9.99	20	
Surrogate: <i>p</i> -Terphenyl	3.90		"	4.00		97.6	65-135			

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Albert Vargas, Senior Project Coordinator

Raney Geotechnical, Inc.  
3140 Beacon Blvd  
West Sacramento CA, 95691

Project: Wabash 4th Quarter 2008  
Project Number: 2553-001-03  
Project Manager: Joe Brusca

**Reported:**  
11/10/08 16:52

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 8102308 - EPA 5030 GCMS**

**Blank (8102308-BLK1)**

Prepared & Analyzed: 10/23/08

Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
Bromoform	ND	1.0	"							
Bromomethane	ND	1.0	"							
n-Butylbenzene	ND	1.0	"							
sec-Butylbenzene	ND	1.0	"							
tert-Butylbenzene	ND	1.0	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	1.0	"							
Chloroethane	ND	1.0	"							
Chloroform	ND	1.0	"							
Chloromethane	ND	1.0	"							
2-Chlorotoluene	ND	1.0	"							
4-Chlorotoluene	ND	1.0	"							
Dibromochloromethane	ND	1.0	"							
1,2-Dibromo-3-chloropropane	ND	1.0	"							
1,2-Dibromoethane (EDB)	ND	1.0	"							
Dibromomethane	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,3-Dichlorobenzene	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	1.0	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	1.0	"							
cis-1,2-Dichloroethene	ND	1.0	"							
trans-1,2-Dichloroethene	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
1,3-Dichloropropane	ND	1.0	"							
2,2-Dichloropropane	ND	1.0	"							
1,1-Dichloropropene	ND	1.0	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Hexachlorobutadiene	ND	1.0	"							
Isopropylbenzene	ND	1.0	"							

SunStar Laboratories, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Albert Vargas, Senior Project Coordinator



3002 Dow Ave. , Suite 212  
Tustin, CA 92780  
714.505.4010 Phone  
714.505.4010 Fax

Raney Geotechnical, Inc.  
3140 Beacon Blvd  
West Sacramento CA, 95691

Project: Wabash 4th Quarter 2008  
Project Number: 2553-001-03  
Project Manager: Joe Brusca

Reported:  
11/10/08 16:52

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 8102308 - EPA 5030 GCMS**

**Blank (8102308-BLK1)**

Prepared & Analyzed: 10/23/08

p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
Surrogate: 4-Bromofluorobenzene	16.7		"	16.0		104	77.1-110			
Surrogate: Dibromofluoromethane	16.2		"	16.0		101	66.3-111			
Surrogate: Toluene-d8	15.9		"	16.0		99.5	84.7-109			

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Albert Vargas, Senior Project Coordinator

Raney Geotechnical, Inc.  
3140 Beacon Blvd  
West Sacramento CA, 95691

Project: Wabash 4th Quarter 2008  
Project Number: 2553-001-03  
Project Manager: Joe Brusca

**Reported:**  
11/10/08 16:52

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 8102308 - EPA 5030 GCMS**

**LCS (8102308-BS1)**

Prepared: 10/23/08 Analyzed: 10/29/08

Chlorobenzene	19.7	1.0	ug/l	20.0		98.4	75-125			
1,1-Dichloroethene	24.8	1.0	"	20.0		124	75-125			
Trichloroethene	24.8	1.0	"	20.0		124	75-125			
Benzene	21.3	0.50	"	20.0		107	75-125			
Toluene	20.1	0.50	"	20.0		101	75-125			
Surrogate: 4-Bromofluorobenzene	17.8		"	16.0		112	77.1-110			S-GC
Surrogate: Dibromofluoromethane	16.6		"	16.0		104	66.3-111			
Surrogate: Toluene-d8	16.2		"	16.0		101	84.7-109			

**Matrix Spike (8102308-MS1)**

Source: T801332-03

Prepared: 10/23/08 Analyzed: 10/29/08

Chlorobenzene	18.1	1.0	ug/l	20.0	ND	90.4	75-125			
1,1-Dichloroethene	19.0	1.0	"	20.0	ND	95.2	75-125			
Trichloroethene	16.7	1.0	"	20.0	ND	83.4	75-125			
Benzene	18.8	0.50	"	20.0	ND	94.0	75-125			
Toluene	17.6	0.50	"	20.0	ND	88.2	75-125			
Surrogate: 4-Bromofluorobenzene	18.6		"	16.0		116	77.1-110			S-GC
Surrogate: Dibromofluoromethane	16.2		"	16.0		101	66.3-111			
Surrogate: Toluene-d8	16.1		"	16.0		101	84.7-109			

**Matrix Spike Dup (8102308-MSD1)**

Source: T801332-03

Prepared: 10/23/08 Analyzed: 10/29/08

Chlorobenzene	20.6	1.0	ug/l	20.0	ND	103	75-125	13.2	20	
1,1-Dichloroethene	26.6	1.0	"	20.0	ND	133	75-125	33.0	20	QM-07
Trichloroethene	20.8	1.0	"	20.0	ND	104	75-125	21.8	20	QM-07
Benzene	23.4	0.50	"	20.0	ND	117	75-125	21.7	20	QM-07
Toluene	21.3	0.50	"	20.0	ND	107	75-125	18.8	20	
Surrogate: 4-Bromofluorobenzene	18.1		"	16.0		113	77.1-110			S-GC
Surrogate: Dibromofluoromethane	16.1		"	16.0		101	66.3-111			
Surrogate: Toluene-d8	16.1		"	16.0		101	84.7-109			

SunStar Laboratories, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Raney Geotechnical, Inc.  
3140 Beacon Blvd  
West Sacramento CA, 95691

Project: Wabash 4th Quarter 2008  
Project Number: 2553-001-03  
Project Manager: Joe Brusca

**Reported:**  
11/10/08 16:52

### Notes and Definitions

- S-GC Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).
- QM-07 The spike recovery and or RPD was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

---

SunStar Laboratories, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

---

Albert Vargas, Senior Project Coordinator

# Chain of Custody Record

SunStar Laboratories, Inc.  
 3002 Dow Ave, Suite 212  
 Tustin, CA 92780  
 714-505-4010

Client: Raney Geotechnical, Inc Date: 10/22/08 Page: 1 of 1  
 Address: 3140 Beacon Boulevard Project Name: Waterbury 4th Quarter 2008  
 Phone: 916-371-0434 Collector: Ring/PB Client Project #: 2553-001-03  
 Project Manager: Joe Brusca Batch #: T801333 COC 83275

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	Laboratory ID #	Comments/Preservative	Total # of containers
Mwt-1	10/22/08	Am	H <sub>2</sub> O	VOA								X		01	HCL	4
MW-4					X	X	X					X		02		4
MW-5					X	X	X					X		03		4
MW-6					X	X	X					X		04		4
MW-8					X	X	X					X		05		4
MW-9					X	X	X					X		06		4
MW-10														07		4
MW-11														08		4
Relinquished by: (signature) <u>Bill Jam</u> Date / Time <u>10-22-08 1:04</u> Relinquished by: (signature) <u>WJ</u> Date / Time <u>10/23/08 9:40</u> Relinquished by: (signature) <u>ASO 10/23/08</u> Date / Time <u>9:40</u>																
Total # of containers: <u>3</u> Chain of Custody seals Y/N/NA: <u>3</u> Seals intact? Y/N/NA: <u>3</u> Received good condition/cold: <u>3</u> Notes: <b>STD. TAT</b> <u>10/23/08 9:40</u> Turn around time: <u>Standard</u>																

Sample disposal Instructions: Disposal @ \$2.00 each \_\_\_\_\_ Return to client \_\_\_\_\_ Pickup \_\_\_\_\_