

Environmental Consultants
and Contractors

Kenmore Industrial RE

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January 27, 2010
File No. 04209040.00

Ms. Maura O'Brien
Washington State Department of Ecology
3910 160th Avenue Southeast
Bellevue, Washington 98008

Subject: Wet-Season Monitoring 2010, Kenmore Industrial Park

Dear Maura:

This letter report documents wet-season groundwater monitoring data collected at the Kenmore Industrial Park, Ecology site No. 2348.

Groundwater monitoring was conducted on January 19 and 20, 2010. Samples were collected from five monitoring wells: AW-6, AW-9, AW-10R, AW-11 and AW-12. A duplicate sample was collected at well AW-6. The groundwater samples were collected by SCS Engineers and analyzed by OnSite Environmental, Inc., of Redmond, Washington. Field procedures consisted of using low-flow sampling techniques following the guidelines outlined in the *Groundwater Monitoring Work Plan, Kenmore Industrial Park*, July 21, 2009. Field parameters measured at the time of sampling included temperature, pH, conductivity, and dissolved oxygen. Laboratory analyses included semi-volatile organic compounds (SVOCs), dissolved arsenic, dissolved barium, dissolved lead and total petroleum hydrocarbon (TPH) products in the diesel and oil ranges.

The analytical results for this sampling event are presented on Tables 1 through 3. None of the analytical results exceeded the cleanup standards listed in the Cleanup Action Plan. Test results were input to the Ecology Environmental Information Management (EIM) database. Copies of the field sampling data sheets and laboratory reports are attached.



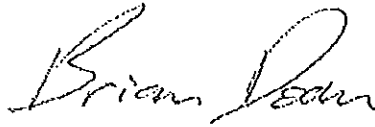
Ms. Maura O'Brien
January 27, 2010
Page 2

If you have any questions regarding the sampling program or test results please do not hesitate to call me at (425) 746-4600.

Sincerely,



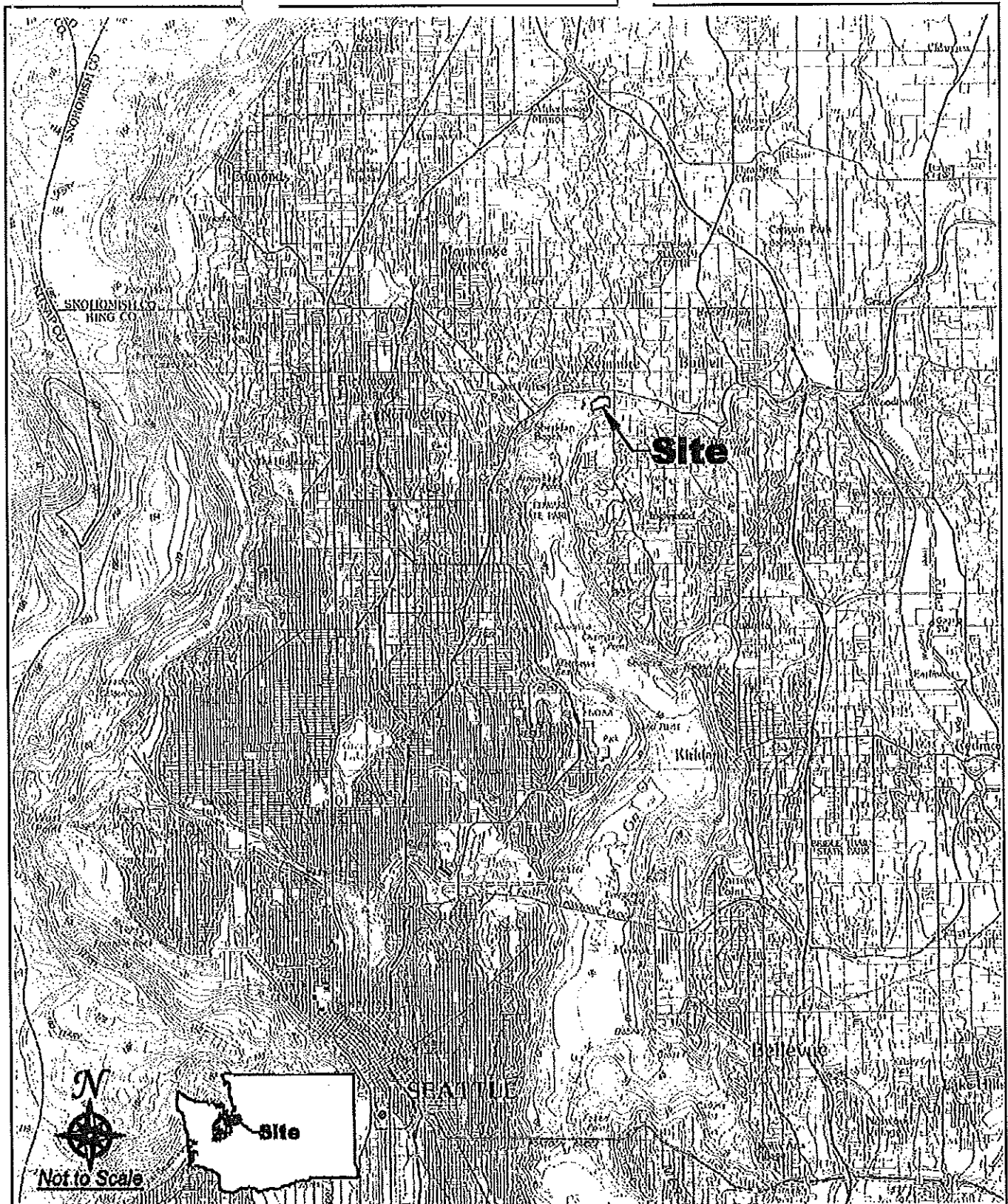
Kevin Lakey, LHG, PE
Project Director
SCS ENGINEERS



Brian Doan
Project Scientist
SCS ENGINEERS

Attachments: Table 1: Field Parameters
Table 2: Groundwater Monitoring Results
Table 3: Groundwater Monitoring Results
Laboratory Report
Field Sampling Data Sheets
Site Vicinity Figure
Site Plan

cc: Gary Sergeant, Pioneer Towing
Paul Beveridge, Beveridge Law



SOURCE: USGS

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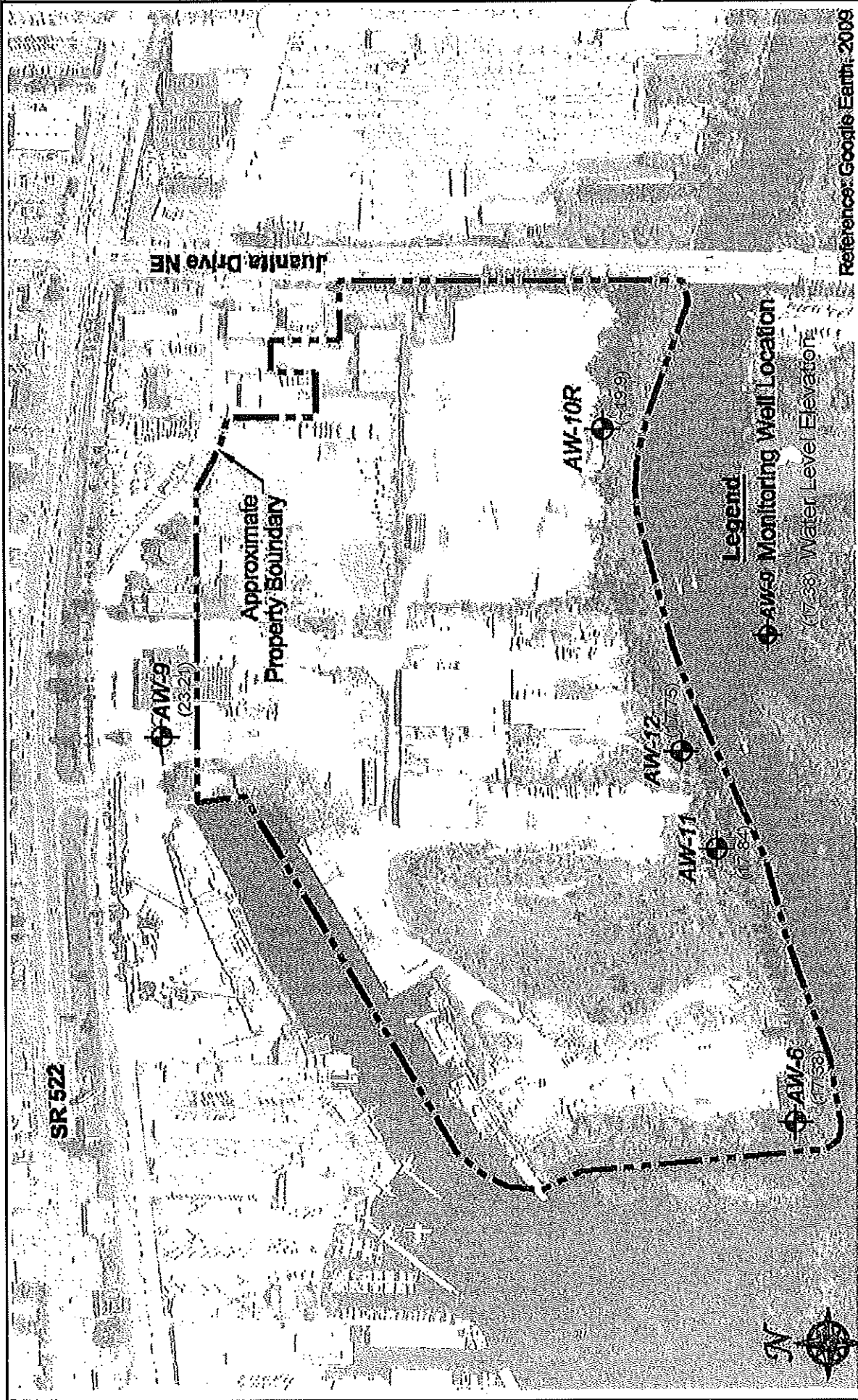
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PROJECT NO. 04208040.00	DES BY K.L.
SCALE AS SHOWN	CHK BY K.L.
CAD FILE FIGURE 1	APP BY K.L.

SITE VICINITY MAP
 KENMORE INDUSTRIAL PARK
 KENMORE, WASHINGTON

DATE
FEBRUARY 2010

FIGURE
1



Reference: Google Earth: 2009

DATE: FEBRUARY 2010
FIGURE
2

SITE PLAN

KENMORE INDUSTRIAL PARK
KENMORE, WASHINGTON

PROJECT NO. 04209040.00	DWG BY K.L.
SCALE AS SHOWN	CHK BY K.L.
DWG FILE FIGURE 2	APP BY K.L.

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**Table 1
Kenmore Industrial Park, Groundwater Monitoring Results
Field Parameters**

Well	Sample No.	Sample Date	Water Level Elevation	Purged Volume (gal.)	pH	Conductivity (µS)	Dissolved Oxygen (mg/L)	Temperature (°C)
AW-9								
Background	KIP-0909-01	9/9/2009	21.66	1.1	5.99	165	1.31	19.6
AW-9								
Background	KIP-0110-01	1/18/2010	23.21	2.4	5.26	224	0.26	13.1
AW-6	KIP-0909-05R	9/9/2009	17.50	1.0	6.53	1252	1.52	15.6
AW-6	KIP-0110-05	1/19/2010	17.38	4.1	6.29	1429	0.25	11.9
AW-10R	KIP-0909-02	9/9/2009	19.3	0.9	6.73	1059	1.05	12.6
AW-10R	KIP-0110-02	1/18/2010	19.9	4.8	6.17	525	0.20	9.6
AW-11	KIP-0909-04	9/9/2009	17.83	0.7	6.54	1314	1.17	14.8
AW-11	KIP-0110-04	1/18/2010	17.84	1.4	6.39	908	0.14	9.5
AW-12	KIP-0909-03	9/9/2009	17.71	2.5	6.51	1042	0.51	14.0
AW-12	KIP-0110-03	1/18/2010	17.75	1.6	6.38	1081	0.19	12.6

Note: Water level elevations for AW-10R are approximate, based on an assumed elevation from abandoned well AW-10.

Table 2
Kenmore Industrial Park, Groundwater Monitoring Results
Dissolved Metals and Total petroleum Products (TPH)
All concentrations are presented in milligrams per liter (mg/l)

Well	Sample No.	Sample Date	TPH		Dissolved Metals		
			Diesel Range	Oil Range	As	Ba	Pb
AW-9 Background	KIP-0909-01	9/9/2009	<0.25	<0.40	<0.003	<0.025	<0.001
AW-9 Background	KIP-0110-01	1/18/2010	<0.27	<0.43	<0.003	<0.025	<0.001
AW-6	KIP-0909-5R	9/10/2009	<0.27	<0.43	<0.003	0.86	<0.001
AW-6 DUPL	KIP-0909-06	9/10/2009	<0.25	<0.40	<0.003	0.89	<0.001
AW-6	KIP-0110-05	1/19/2010	<0.26	<0.41	<0.003	0.54	<0.001
AW-6 DUPL	KIP-0110-06	1/19/2010	<0.26	<0.42	<0.003	0.55	<0.001
AW-10R	KIP-0909-02	9/9/2009	<0.25	<0.40	<0.003	0.25	<0.001
AW-10R	KIP-0110-02	1/18/2010	<0.26	<0.41	<0.003	0.12	0.003
AW-11	KIP-0909-04	9/9/2009	<0.25	<0.40	<0.003	0.87	<0.001
AW-11	KIP-0110-04	1/18/2010	<0.28	<0.45	<0.003	0.49	<0.001
AW-12	KIP-0909-03	9/9/2009	<0.25	<0.40	<0.003	0.24	<0.001
AW-12	KIP-0110-03	1/18/2010	<0.27	<0.43	<0.003	0.12	<0.001
Site Cleanup Levels			0.5	0.5	0.005	1.0	0.014

Notes:

DUPL = duplicate sample

Table 3
 Kenmore Industrial Park, Groundwater Monitoring Results
 Polynuclear Aromatic Hydrocarbons
 All concentrations are presented in micrograms per liter (µg/l)

Well	Sample No.	Sample Date	Polynuclear Aromatic Hydrocarbons													Total PAH	Total cPAH	TEF-Corrected Total cPAH					
			NAPH	2-MIN	1-MIN	ACEN	ACE	FLUOR	PHEN	ANTH	FLUORA	PYR	B(a)A	CHRY	B(b)F				B(k)F	B(a)P	1(2,3- e)P	DB(a,h)A	B(ghi)P
AW-5	KIP-0809-5R	9/10/2009	0.20	0.10	0.19	<0.098	2.10	0.73	<0.098	<0.098	0.13	0.13	0.053	0.054	0.050	0.019	0.028	0.018	<0.0098	0.020	3.35	0.262	0.064
AW-6 DUPL	KIP-0809-6	9/10/2009	0.19	0.11	0.20	<0.098	2.20	1.00	<0.098	<0.098	<0.098	<0.098	0.023	0.019	0.025	<0.0098	0.021	0.013	<0.0098	0.015	3.32	0.116	0.027
AW-6	KIP-0110-05	1/19/2010	<0.098	<0.098	<0.098	<0.098	1.20	0.59	<0.098	<0.098	<0.098	<0.098	0.011	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	1.80	0.011	0.001
AW-6 DUPL	KIP-0110-06	1/19/2010	<0.098	<0.098	<0.098	<0.098	1.30	0.68	<0.10	<0.10	<0.10	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	1.99	0.000	0.000
AW-11	KIP-0809-4	9/9/2009	<0.098	<0.098	<0.098	<0.098	1.30	0.64	<0.098	0.097	0.15	0.11	0.033	0.031	0.036	0.012	0.028	0.016	<0.0098	0.018	2.47	0.174	0.038
AW-11	KIP-0110-04	1/19/2010	<0.098	<0.098	<0.098	<0.098	0.99	0.78	<0.098	0.10	0.20	0.15	0.040	0.039	0.044	0.030	0.044	0.026	<0.0098	0.032	2.48	0.255	0.058
MTCX Method A Unrestricted Use Groundwater Cleanup Levels			160															0.1					

Notes:
 DUPL = duplicate sample
 PAH = polynuclear aromatic hydrocarbons
 PAHs analyzed by EPA Method 8270
 ACE = acenaphthene
 ACEN = acenaphthylene
 ANTH = Anthracene
 B(a)A = Benz(a)Anthracene
 B(a)P = Benz(a)Pyrene
 B(b)F = Benz(b)Fluoranthene
 TEF = toxicity equivalency factor for Benz(a)Pyrene

B(ghi)P = Benz(ghi)Perylene
 S(1)P = S(1)Indeno(1,2,3-cd)pyrene
 CHRY = Chrysene
 DB(a,h)A = Dibenzo(a,h)Anthracene
 FLUOR = Fluorene
 FLUORA = Fluoranthene

1(2,3-e)P = Indeno(1,2,3-cd)pyrene
 NAPH = Naphthalene
 2-MIN = 2-Methylindole
 PHEN = Phenanthrene
 PYR = Pyrene