

10/4/96 Reviewed 4/1/96 QR by Weiss. GW sampled on 1/12/96 flowed South (towards Grand Ave). S2 still has elevated hits: 4100 ppb benzene. Fairly consistent concs. They tried to locate another MW offsite on Grand Ave in January, but could not due to utilities.

11/21/96 Reviewed 6/24/96 QR by Weiss. GW sampled on 4/2/96 flowed South. Concs in S2 have decreased, while the GWE increased; strange (1800 ppb benzene and 17,000 ppb TPHg). For some reason, they didn't report the TPHd in the table.

MUST WRITE RP A LETTER; OVERDUE.

1/21/97 Reviewed 10/15/96 QR by Cambria. GW sampled on 7/30/96 flowed S-SW (towards Grand Ave). GWEs decreased by at least 1 foot. They did not include the TPHd conc for 4/2/96. Max conc this Q was in S2: 13,000 ppb TPHd, 18,000 ppb TPHg, and 3,000 ppb benzene. This is an increase in all 3 constituents since last Q.

Were the Hps ND for MTBE (1993)? RWQCB: define MTBE plume >10,000 ppb. They did 4th Q 96. Semi ann in 97.

7/31/97 Reviewed 2/11/97 "Fourth Q 96" QR by Cambria. GW sampled on 10/2/96 flowed S, towards the lake. DG well S2 had 3700 ppb benzene and 20,000 ppb MTBE. We need to define the MTBE plume around S2. As for their "Discussion" section, my notes do not indicate they could go annual in the 4th Q. Doesnt make sense. It wd be 1st Q if anything.

WROTE LETTER, requesting invest around S2 and semi-ann sampling in 1st and 3rd Qs.

8/6/97 mess fm Paul Waite of Cambria: Alex Perez is new Shell contact. They have questions re sampling and MTBE definition. Shell wants to speak w/County re MTBE. Whos in charge?

Lm for Paul: contact Tom Peacock.

- 2/6/96 phoned Paul Paradiso: I will fax him page 6, and he will fax it back, as well as send copy w/original signature. Lm Jeff Byram at Shell: what is the EPA ID # for Tank Removal?
- 2/7/96 mess fm Byram w/the #.
- 3/28/96 Reviewed 12/8/95 QR by WA. **GW sampled on 10/5/95 flowed S.** GWES decreased, as did the concs. I wonder when they're planning to pull the USTs?
- 3/29/96 Reviewed 3/7/96 Workplan by Weiss. Want to pre-characterize the soil to be excavated around the USTs, so that they can line up a landfill. Due to space constraints at the site. They will go ahead when they get Zone 7 permits. **Looks good.**
- 4/18/96 Brian Oliva informed me that Shell is pulling the USTs on Mon am (4/22).
- phoned Tracy Lum at Paradiso: (614-8390) We talked about possibility of finding contam soil in tank pit. He thinks they will put a 24 or 48 hr TAT on samples. Foreman is Mark Freitas (Paradiso).
- 4/22/96 **SITE VISIT FOR REMOVAL OF FOUR 10,000-GAL USTs.**
- 4/23/96 SITE VISIT FOR OVEREX AND SAMPLE
- 4/24/96 SITE VISIT FOR OFFHAUL OF SOIL
- 5/16/96 mess to and fm Weiss.
- 8/19/96 Received "Tank Removal and Soil Overex Report" by Weiss.
- 8/23/96 Reviewed it. I just realized that they never submitted sample results until now. Why not? I forgot all about this tank removal until I got this report. 1600 tons of contam soil were removed to Forward Landfill between 4/24 and 5/9/96. **There are so many raised DLs for benzene, that it is difficult to ascertain how much benzene was left in place. But I plotted the concs anyway on a separate map, including the "less than xxx raised DLs."** Max concs left in place: benzene: 0.80 ppm in P1, but also note that G6 was <10 ppm (so up to 9.9 ppm could be in that sample). Just focused on the benzene in this cursory review of the report. **They didnt remove all the contam, but remember that 1600 tons of soil was removed, including the contaminated pea gravel in the pit. Too bad they didnt overex the N side of gas pit (G6, G7, G8, and P1).**

*How many yds<sup>3</sup> in 1600 tons?*

12/22/95 Reviewed Dale K's notes. **They want to remove the USTs! Four 10,000-gal USTs!** They submitted a TR plan. Jeff Byram of Shell signed it. 675-6145. Left message for Shell. What's the status? They submitted a check which they should not have. Dale, when did you approve the plan? No date.

Reviewed 9/18/95 QR by Weiss. **GW sampled on 7/7/95 flowed South, towards the Bay.** Up to 26,000 ppb Tphg and 4,200 ppb benzene (S2). The GWEs have not changed dramatically this Q.

1/8/96 spoke w/Tom Piskor: he will check status and call back. Waiting for Shell to schedule contractor. I guess they are NOT the contractor.

1/26/96 mess fm Brian Bush of Weiss: 450-6189 They plan to drill the MW and HP on Tues, 1/30. (This was a 2/95 wp, reviewed in 6/95!) It's about time!

Lm for Brian: ok. Also doing TR one of these days.

1/30/96 spoke w/Tom Fojut of Weiss: they cannot drill where the wp says, due to utilities. Wants to move well A further away from site. I told him they applied to remove all 4 USTs last fall. He did not know this. This may change the siting of the well. His new Shell contact is Jeff Granberry; Dan Kirk has changed jobs. OK. He will contact Jeff, and then get back to me before siting the well.

Spoke w/Jeff G: Paradiso is the contractor. Paul Paradiso is his contact: 614-8390. I have to get his signature on TR plans. They have the contract w/Paradiso. They are replacing the USTs, not closing site. Are new USTs going in same pit? Yes. We discussed the need for overex if we get hotspots during the TR. Which will probably be the case, considering the gw contam in that well near the USTs. It would be a great opportunity to do some quick and easy remediation. Probably doing TR in 2-3 months. He wants to wait to remove USTs before they install the well. Sounds ok. Let's get mobile lab, or put samples on 1 day TAT. Try to profile soils asap so we can load them onto trucks for the landfill, if there is not enough room onsite.

Dale's notes

3714 Shell Service Station, 350 Grand Avenue, Oakland, CA 94610

9/28/95 Review UST closure plan. Four 10000-gallon USTs are being closed and approximately 850 linear feet of piping removed. Approximately 1000 yd<sup>3</sup> will be removed during the excavation process. Two 15000-gallon USTs will replace the four 10000-gallon USTs.

Comments: 1) Need to determine contractor. 2) Need copy of H & S Plan. 3) Did not receive Dep/Ref deposit for UST removal.

Talked with Jeff Byram of Shell Oil Company and informed him that a contractor needs to be identified and a H & S Plan submitted before work can commence. Also informed him that we did not receive a Dep/Ref check for \$750.00 to cover oversight costs incurred by the county. He will have a check cut and sent to this office ASAP. Contractor is to be Paradiso Mechanical, phone number (510)614-8390. Contact is either Dave or Paul Paradiso. Talked with Paul Paradiso and he will forward a copy of the Site Health and Safety Plan.

10/11/95 RECEIVED COPY OF H&S PLAN. WAITING FOR DEP/REF CHECK

6/7/95 Reviewed 2/8/95 Workplan by Weiss. They say gw flow direction is variable bec well S3 is screened in more permeable sediments than S1 and S2. Over 4 yrs, gw flow has shifted 180 degrees fm N to S fm one Q to the next. Workplan includes one MW across Grand Ave, and a HP across Perkins St. How about something closer to S2? Ie on same side Grand Ave, and same side Perkins? Since S2 has historically had the biggest hits. Other issues: 1) pg 4 says "possible chem analyses;" do they or dont they plan to analyze soil from both borings?

Reviewed 3/3/95 QR by Weiss. Weiss will install at least one offsite MW. When? GW sampled on 1/4/95 flowed NE. They say this is consistent, but its away from the Lake! Id like them to present a table of historical gw flow directions, in order to clarify this. GW concs are fairly consistent in each well w/historic concs.

Phoned Weiss and spoke w/Jim Carmody: he said the reason the borings are not closer to S2 is because there are too many utilities.

Site visit--site plan in wp is correct

6/8/95 lm Jim Carmody

6/15/95 wrote ltr

6/20/95 spoke w/Tom Fojut and revised ltr. Told him DTW at Quik Stop during drilling ws 33' and 26'bgs just this past month.

8/3/95 Reviewed 5/18/95 Qr by Weiss. GW sampled on 4/12/95 flowed S-SE. GWEs increased since 1/95, but concs decreased in S1, and concs increased in S2 and S3. GWE increased in S3 by approx 8ft!!!

Site Summary STID 3714  
Shell/Devi Oil  
350 Grand Ave.  
Oakland 94610

continued fm handwritten notes:

8/26/94 Reviewed 6/16/94 QR by Weiss. GWES increased from .33 to 1.5' since last Q. **GW flows NE (consistent w/last Q) (but away from Lake at a 45 degree angle!).** GW sampled on 4/11/94 had up to 17,000 ppb TPHd, 34,000 ppb TPHg, 4,800 ppb benzene (same problem well S-2). This is a decrease, even tho the GWE increased. Could be a sign of biodegradation. S-2 is UG MW this Quarter.

GW flowed NE on 1/7/94, S (towards the Lake) on 10/18/93, S on 7/20/93, S on 4/26/93

12/23/94 Reviewed 9/28/94 QR by Weiss. **GW monitored both 7/14 and 7/19/94 flowed S (I say SE),** which is consistent. **Generally towards the Lake.** S-2 has the major hits: 29,000 ppb TPHg and 4,700 ppb benzene; **TPH-d was not analyzed--WHY?** Phoned Weiss--Jim Carmody: no answer

12/29/94 Sp w/J. Carmody: they stopped doing TPH-d bec. the lab reported it as lighter compounds, probably weathered gasoline. OK: next QS is Jan 95; they sampled in Oct 94 last.

1/20/95 Mike Cook phoned fm Weiss: he's finalizing wp for further invest. They want to put in another MW on other side Grand Ave. Wants to see Quik Stop file. Told him Quik Stop has 2 MWs on that side of Grand IN Grand. Wants to see their gw mon records (GWEs and chem concs), and well logs. We could analyze MBTE in S2 to see if it's fresh gasoline.

1/25/95 met w/Tim Utterbach of Weiss. He reviewed file for Quik Stop at 363 Grand (STID 3798). 2:05 to 3:25

2/14/95 Reviewed 11/17/94 QR by WEiss. GW sampled 10/6/94 flowed SW, so S-2 was directly DG. Up to 61,000 ppb TPHg and 5,200 ppb benzene in S-2. These are increases; but GWE decreased.

3/7/95 file search by Ron Scheele of A-G (works for Quik Stop)

11-23-93 sp w/ Dan Kirk. Changed RPs...  
 Since their office pays the oversight charges,  
 we should delete Major Brand Gas Inc,  
 [who's probably a prop. owner. they're not paying.  
 → Scott S. says we must leave on p.g.'s, even if they're not paying.  
 sp w/ Chris Christiansen w/ Shell Real Estate  
 2099 (675-6121). Shell pays prop. taxes,  
 77252 even tho the bills are sent to

Major Brand Gas. } MBG's  
 2252 Morello Av. } her accountant's office  
 Pleasant Hill CA 94523 } ←

also: 2238 Morello Av. ← Shell's rent <sup>check</sup> goes here

The TX address is Shell's address.  
 It should say MBG c/o Shell.

3-16-94

KT issued 5-yr permit for 4 USTs  
 on 1-21-94.

forms A+B signed 12-13-93 by Kristan Goyal say  
 4 USTs are sgl wall steel w/no overspill or corrosion  
 protection... unk yr installed... inventory reconciling  
 Roel has 94610 ... last test May 93 only for  
lines + leak detector...

3714

3-17-94 sp w/Roel... asked for recent <sup>tank</sup> info...  
he'll ✓

Phoned Dan Kirk...  
sure they have tank level monitors in USTs.  
~~Was~~ OFD is holding up SVE project.  
Will ✓ tank test + SVE status.

Wants to use existing of MWS for SVE test.  
David Elias <sup>of Weiss</sup> phoned. Been thinking of different  
type treatmt - maybe biosparging (add  $O_2$  to gw).  
He'll write a letter. S-2 was screened  
below gwe for much of the year. That wd  
make sense why ~~to~~ the cones. ~~are~~ ↑ in S-2  
now. OFD doesn't want their propane  
AST close to the corner.

3-21 Dan Kirk phoned. KToR RW were sent  
info on last tank test.  
Tank level monitors test the integrity of tanks.  
This is a new system.

5-5 D. Elias phoned. Thinking of doing  
biosparging (↑  $O_2$  conc. in gw).  
Main problem is lack of room in the  
corner. Or do  $O_2$ -releasing compounds,  
using a cylindrical brick. Next QM will  
have HP data... shows plume hasn't  
migrated.



3714

4-27

★ Dan'll send the 7-6-90 GSI report "SB Report"

5-4-93 Reviewed " of 7-6-90 by GSI.

Hits in 2 SBs on west side of USTs, both at ~9' bgs (gas, die + benz).

This is ~~what~~ why they installed mws.

what now?

did they do 93 tank tightness test? Dan will send it.  
it's not downstairs in file

sp w/Dan Kirk. The gw elev. has risen. he was thinking of using mws for VR. But there's only 6" of available screen (non-saturated zone).

6-7-93

6-22 Rcv'd fax from Weiss. They're ✓g into other SVE options. Rcv'd tank test (from 5-26-93); it passed in all 4 USTs. Sp w/D. Elias. They may install another mw or vapor pts. Last sample spz to be April 93; he'll ✓ on report status + get back to me.

3714

9-4 Im Dan Kirk. Need [sched. f  
implementj of work plan]

9-10 Im D. Kirk what I want

4-11-1990 - ltr fm BC to her.

9 11-20-92 Im Dan Kirk  
re status of encroachment permits

11-23-92 11-1 to 12-31

will call 1<sup>st</sup> wk of Jan.

Bob Lawritzen 352-4800 X282 of GSI

4-27-93 Ap w/D. Kirk - con't  
He's ~~thinking~~ <sup>VR</sup> of doing ~~VR~~ treatmt on S-2

GSI is no longer consultant

Weiss is new consultant as of 4-1-93.

They may resurvey mws. to dbl ✓ gradient.

VR = vapor recovery system

But he's worried about the "nosy neighbor"  
bec. it's noisy.

The source: previous tank operator - he thinks - did it.

In an absence of data, we have to ~~do more~~.  
generate data. ie Sbs around USTs.

LOP 3714X

FILE OR ENVELOPE No. of

PER NO.

OWNER **Shell/Devi Oil**  
 Address **350 Grand Av.**  
**Oak 610** Phone

Contractor **David Elias**  
 Address **450-6108 (Weiss)**  
 or **450-6000** \* main # Phone

OTHER (Specify) **Den Kirk 675-**  
 Address **6168**  
 Phone

CONTACT FOR INVESTIGATION

PLAN REVIEW

By Date

\$ Rec'd.

No. Plans Rec'd.

Plans Approved

Layout Made

Rejected

Applicant Notified

Plans Returned

Permit Issued

CONSTRUCTION PROGRESS ACCEPTANCE

FOOD

Pre-Plaster/drywall

Pre-Final

Final

POOL

Pre-Concrete/Gunite

Pre-Plaster

Final

EXCAVATION

Septic Tank

Absorption Field

Absorption Bed

House Sewer

FINAL

Septic Tank

Absorption Field

Absorption Bed

OTHER

U.G. TANKS

Final

XR 450-6000 Weiss - Jim Carmody

Date	By	REMARKS
7-26-93	JZ	Reviewed 7-15-93 QR by Weiss. GW flowed S on 4-26-93. S-2 had 32,000 ppb TPHg (↓) + 10,000 ppb (↑) benzene. This is the well nearest the USTs. GW rose ~2' in S2. They'll monitor DTW to assess whether SVE will be possible later this summer.

Date	By	REMARKS
8-26		Site search (Brian)
12-16	JZ	Reviewed 10-4 QR by Weiss. GW flowed S on 7-20, towards Lake M. S-2 had 25,000 ppb TPHg (↓), 5,900 ppb benz (↓), + 8,900 ppb TPHd (↓). Still working on SVE permitting.
3-16-94		Reviewed 1-10 QR by Weiss. GW flowed S-SE on 10-18-93, towards Lake M. Up to 18,000 ppb TPH-d (big ↑), 28,000 ppb TPH-g (↑), + 3,200 ppb benz (↓) in S-2.

3-16 Reviewed 1-15 QR by Weiss (rev'd here on 3-11-94)

LOCATION GW flowed NE on 1-7-94 (strange), while gwe's ↓ from 0.3 to 2.1 feet. Concs. in S-2 ↑d even more... this is alarming, esp. bec. gwe's dropped. What is going on? A gasoline leak? Note: S2 is now UG (or was).

gwy  
direction  
changed  
this Q

FILE

ENVELOPE No. of

PLAN REVIEW

Date

By Date

By Date

OWNER Shell/Devi Oil  
Address 350 Grand Av.  
Oak 94610 Phone

Contractor  
Address  
Phone John Vargas

OTHER (Specify) Bob Lauritzen  
Address 651-352-4800 x 282  
Weiss - Scott Phone 675-6168

CONTACT FOR INVESTIGATION Dan Kirk

\$  
No. Plans Rec'd.  
Plans Approved  
Layout Made  
Rejected  
Applicant Notified  
Plans Returned  
Permit Issued

CONSTRUCTION PROGRESS ACCEPTANCE  
Pre-Plaster/drywall  
Pre-Final  
Final

POOL  
Pre-Plaster/Concrete  
Pre-Plaster  
Final  
Septic Tank  
Absorption Field  
Absorption Bed  
House Sewer  
FINAL  
Septic Tank  
Absorption Field  
Absorption Bed  
OTHER

Pre-Covering  
Final  
U.C.  
3714 B →  
00000428

XR Macleod 450-6135 Weiss-David Elias 450-6108

Date	By	REMARKS
9-11-92	JE	Rev'd Quarterly Report dated 9-9-92. EIS in S-2 increased to 3,000 ppb TPH-g, 3,700 ppb + 7,500 ppb benz. S-1 + S-3 also have increased levels.
9-16-92	JE	Mtg w/D. Kirk. They're getting encroachment permits from the City, + should have them by Nov. Then can start drilling. Will send a written sched. for implementation.

Date	By	REMARKS
9-17	JE	Rev'd tank test results for 1990-1992. Reviewed them; phoned Shell for missing documents.
9-30	JE	Citizen complaint - Miss Davis, 451-1183, 434 Perkins St. Oak 94610 wd like to be notified. She's UG of gas station. Wants to be informed of HP results.
10-1	JE	Miss Davis phoned again. Barney had written her letter 4-11-90 saying tanks were tight.

LOCATION  
~~1996~~  
Vicinity Map

REMARKS		REMARKS		REMARKS	
Date	By	Date	By	Date	By
10-6	JE				
Tel con w/D. Kirk. Still working on encroachment permit.		12-9	QR	GW flow varies at this site. <sup>is</sup> Strange.	
11-23	JE	12-24	JE		
Spoke w/bob Lauritzen of GSI. City won't allow any pt. construction bet 11-1 + 12-31, so he plans to drill in early Jan. 93. He'll submit H+S Plan also.		Rec'd response re potentiometric contouring, by GSI, dated 12-16. No pot. map bec "gw level in S-3 is anomalous"			
12-3	JE	1-27-93			
Rec'd Site Safety Plan by GSI.		Supposed to be doing HPs			
12-11	JE	3-22	JE		
Rec'd "QR" by GSI dated 12-9-92. Well S-1 had a sheen. Up to 58,000 ppb TPH-g + 4,500 ppb TPH-d + 9,300 ppb benzene in S-2 (on 10-6-92). Water-level map not included. left mess. for D. Kirk, req'g the map.		Spoke w/D. Kirk. Did HP recently; should get report "soon." Most HPs were clean. Wants to do VES from 1 onsite mw near Grand. Will submit wp. Spoke w/ John Vargas. Report should be here next wk.			
12-15	JE	4-22	JE	4-27	JE
Spoke w/T. Walker of GSI. He'll fax map w/potentiometric lines for		Rev'd 4-9-93 "QR/HP Study" by GSI. Gw sampled on 1-6-93 had 55,000 ppb TPH-g, 5600 ppb benzene + 5600 ppb TPH-d (S-2). 3 HPs during onsite		Spoke w/Dan Kirk. Shell did an extensive spill containment program ~4 yrs. ago. Shell started operating site in 1976. Shell rents prop. bldgs + tanks. Shell put in electronic sensors (TLMs) tank level monitors	

See inside notes

FILE OR ENVELOPE  
 PER NO. Removal No. (SHELL STN) of

OWNER DEVI OIL CO.  
 Address 350 Grand Ave  
Oakland 94612 Phone

Contractor Robert H. Lee  
 Address 900 Lakeside Landing  
Lakeside Phone

OTHER (Specify) Gettler Ryan  
 Address  
 Phone 675-6668

CONTACT FOR INVESTIGATION Dan Kirk  
of Shell

PLAN REVIEW	By	Date
\$ <u>932</u> Rec'd.		
No. Plans Rec'd.		
Plans Approved		
Layout Made		
Rejected		
Applicant Notified		
Plans Returned		
Permit Issued		
CONSTRUCTION PROGRESS ACCEPTANCE		
Pre-Plaster/drywall		
Pre-Final		
Final		

	By	Date
POOL		
EXCAVATION		
FINAL		
OTHER		

**LOP**  
**3714A**  
**RO00000428**

XR QR ✓ of Shell

REMARKS		Date	By
		<u>3/16/91</u>	<u>PS</u>
<u>3/16/91</u>	<u>BC</u>		
	Plan review - called Roy Miller & told him he needs to ① identify contractor ② describe existing proceedings ③ submit a site ④ signature of contractor. Required items 6, 8, 15, 19 + p5 addressed on closure/modification plans. Spoke w/ John Gregorin 3/27/91		
<u>6/28/90</u>	<u>Pre</u>		
	Phone conversations w/ J. Gregorin & plan review 1.0 hr		
<u>3/20/91</u>	<u>PS</u>		
	Spoke w/ John Gregorin re: closure request - he informed me that Gettler Ryan is the contractor		

REMARKS

LOCATION  
Dan Kirk - Shell Co. 675-7334  
1990-1992  
 Vicinity Map

Project # U525682  
 Fee Paid \$ 932  
 Date 2/2/90

scheduled to remove the UST's. I informed him that since Barney C. had previously approved closure I would wait for a Gettler Ryan rep. to contact me re: scheduling the removal. It is noted that Geo Strategies did some prelim borings I tried to contact them re: scheduling the removal. I decided to have unauthorised release form filled out - water data? Called three parties re: UST removal options. review of the well 5-22 has 21 ppm TPH, 2 ppm + 1 ppm TPH, 1 ppm TPH.

REMARKS			REMARKS			REMARKS		
Date	By		Date	By		Date	By	
6-25-92	JE	JE wrote letter to RP requesting workplan for soil + gw contam.			Since we don't have it, he'll send a copy of the MW install. report (~1990)	9-10	JE	up to dispensers. left mess. D Kirk, reg'l sched. for implementation of workplan.
8-10	JE	Received work plan (4 Hydroponches)	8-20	JE	Rec'd MW Inst. Report from GeoStrategies Inc. dated 3-18-91			
8-12	JE	Spoke w/Mike Carey of GeoStrategies re workplan. Why is S-3 "anomalous" in past 4 Q-ly reports? Gw flow seems to be SSW in 6 92 Q-ly, but WNW in 3 prior Q-ly's. He said the HPs were placed downhill of the site. He said that S-3 "was anomalous" bec. topography didn't fit gw flow direction.	9-4-92	JE	Tel con w/Dan Kirk. The proposal for HPs was written w/the understanding that the HPs <del>are</del> will be used to determine locations of MWs later. He'll send tank test results (w/data) for 90 + 91, + the completed version for 92. He explained the UST system (for all Shell sites) as a "balanced system," where vapor is recovered (NOT a press. system). A pump rests on top of the UST, attached to metal shaft + an impeller on bottom of UST. <del>is in</del> <del>cur's project</del>			
8-11	JE	Spoke w/Mike Lorenson of GS. He said S-3 is in different saturated zone than other 2 mws.						