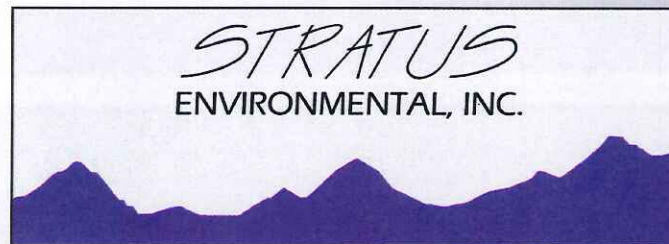


Environmental Project Summary

Former Olympic Station
1436 Grant Avenue, San Lorenzo, CA

Prepared for Meeting at Alameda
County Environmental Health
Department Office

July 7, 2015



Project Overview

- Petroleum hydrocarbon impact was discovered in 1998 at the time of UST and product dispenser removal. New USTs were not installed, and the former Olympic Station building now operates as a smog testing business.
- Limited excavation activities beneath the site's former fuel dispensers (to 3.5' bgs) and waste oil UST (to 12' bgs) were performed in 1998.
- Several phases of subsurface investigation were subsequently completed onsite and offsite in order to assess the extent of impact in the site vicinity. This includes the advancement of approximately 36 soil borings with conversion of 15 of these borings to groundwater monitoring/extraction wells.



Project Overview, con't

- DRO, GRO, BTEX, and MTBE have been detected in soil samples.
- The highest concentrations of petroleum hydrocarbons in soil are typically detected between about 7 and 12 feet bgs.
- The attached figures provided detailed information regarding the distribution of petroleum hydrocarbons in soil across the site and areas where soil concentrations historically exceeded Environmental Screening Levels.
- In a 2012 Corrective Action Plan, Stratus calculated an estimated mass of 955 pounds of GRO in soil beneath the site using the available soil analytical data.



Project Overview, con't

- Between surface grade and approximately 15 to 18 feet bgs, fine grained silt/clay mixtures are predominately noted (except in areas of coarse fill). Below this depth, sandy soils are predominately encountered until approximately 25 feet bgs.
- Groundwater monitoring and sampling at the site has been performed since 1999. Since this time, groundwater levels have fluctuated between approximately 5.5 and 8.5 feet bgs, and thus seasonal groundwater fluctuation is minimal. Groundwater flow is west, southwest, and northwest at a low gradient.
- Three groundwater monitoring wells (MW-4, MW-5A, and MW-6A) are constructed solely within the fine grained soils (10' depth). The other monitoring (and extraction) wells are at least 20' deep and extend into the deeper sandier soils. The 10' depth wells were installed in 2010 (MW-4) or 2014 (MW-5A and MW-6A).



Project Overview, con't

- Groundwater samples at the site are tested for GRO, BTEX, and MTBE.
- In general, fuel contaminant concentrations in the 10' depth wells are higher than levels observed in the other wells with longer well screen intervals.
- The following figures have been prepared that illustrate the generalized extent of GRO, benzene, and MTBE in groundwater during June 2014 (before DPE implementation, discussed later in this report), and during the second quarter 2015 (most recent data). The data is segregated using the 10' depth wells and the deeper 20-26' depth wells.



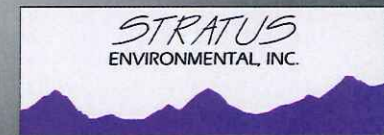
Project Overview, con't

- Based on our understanding of the distribution of petroleum hydrocarbons in groundwater, and information collected during a water supply well survey, water wells to not appear threatened from the site's petroleum hydrocarbon and MTBE impact.

→ exit water

Project Overview, con't

- Soil gas sampling was performed at the site in 2010. Relatively high concentrations of GRO and benzene were detected in these samples. GRO and benzene were reported at maximum concentrations of 52,000,000 $\mu\text{g}/\text{m}^3$ and 160,000 $\mu\text{g}/\text{m}^3$, respectively. ESLs for commercial property are 29,000 $\mu\text{g}/\text{m}^3$ and 280 $\mu\text{g}/\text{m}^3$, respectively. Post dual phase extraction (DPE) soil gas samples have not been collected; current concentrations in soil vapor are likely significantly lower than 2010 levels.



Project Overview, con't

- DPE and ozone injection pilot testing were performed in 2011. DPE was subsequently selected as the remedial alternative for the property.
- DPE was initiated at the property in July 2014 and is ongoing. As of May 2015, an estimated 943 pounds of GRO have been removed from the subsurface in the vapor phase.
- Initially, wells EX-1 through EX-7 were used (in various combinations) for extraction. For approximately 2 months, wells MW-5A and MW-6A have been used for extraction in order to attempt to increase mass extraction rates and improve groundwater quality west of the site.

Data Gaps / Pathway to Closure

- The lateral extent of fuel contaminant impact to groundwater is not fully assessed. Offsite assessment of contaminant impact to the north-northwest of the site is hindered by the presence of a high-traffic roadway that contain multiple underground utility corridors that limit potential drilling.
- Monitoring well installations in the left turn lane of westbound Grant Avenue were aborted due to utility conflicts, and monitoring well locations north of Grant Avenue have been deemed 'too distant' by ACEHD. Monitoring wells west-southwest of MW-5A and MW-6A have been requested by ACEHD.
- Post DPE soil gas sampling needed in the future.

Points of Discussion

- What are the criteria for discontinuing DPE remediation?
- If monitoring wells are required, how many are needed and where should they be located?
- When should the next soil gas samples be collected, and how long after DPE should be allotted for equilibrium conditions to be achieved?
- Are there any other items of concern that would prohibit closure?

OFF-SITE SOIL ANALYTICAL SUMMARY MAP



B-13A		2/10/10			B-13C		2/12/10	
DRO	6.1	1.2	2.8		DRO	8.0		
GRO	<1.0	<1.0	3.3		GRO	15		
B	0.023	0.0060	<0.005		B	<0.005		
MTBE	<0.005	<0.005	<0.005		MTBE	<0.005		

B-11		2/10/10			
DRO	2.1	2.9	<1.0	10'	2.7
GRO	<1.0	<1.0	<1.0	<1.0	<1.0
B	<0.005	<0.005	<0.005	<0.005	<0.005
MTBE	<0.005	<0.005	<0.005	<0.005	<0.005

B-8		2/25/08			
DRO	6.5	11.5'	15'	24.5'	
GRO	4.3	16	1.5	<1.0	
B	0.015	0.72	<0.005	<0.005	
MTBE	<0.005	<0.20	0.027	<0.005	

LEGEND

- MW-1 MONITORING WELL LOCATION
- SV-1 VAPOR EXTRACTION WELL LOCATION
- EX-1 EXTRACTION WELL LOCATION
- ⊕ IW-1 OZONE INJECTION WELL LOCATION
- B-1 SOIL BORING LOCATION
- ▲ D-2D SOIL SAMPLE LOCATION

B-3 2/25/08

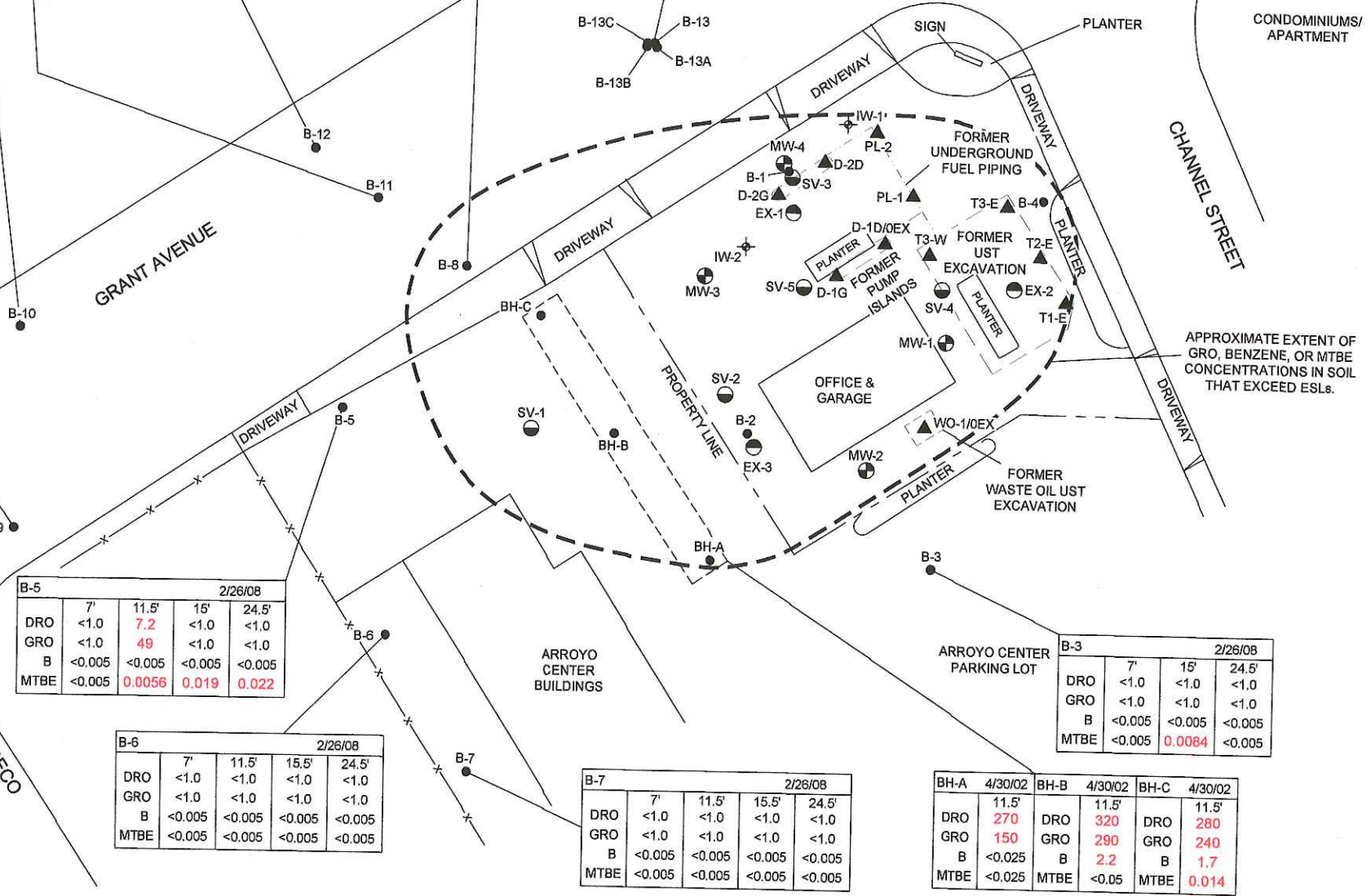
	15'	WELL/BORING ID & DATE
DRO	<1.0	SAMPLING DEPTH IN FEET BGS
GRO	<1.0	DIESEL RANGE HYDROCARBONS IN mg/Kg
B	<0.005	GASOLINE RANGE HYDROCARBONS IN mg/Kg
MTBE	0.0084	BENZENE IN mg/Kg
		METHYL TERTIARY BUTYL ETHER IN mg/Kg

NA = NOT ANALYZED

2/11/10						
3'	5'	9.5'	15'	20'	24.5'	
2.0	1.5	<1.0	<1.0	1.5	<1.0	
<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	

2/11/10						
DRO	1.8	<1.0	<1.0	<1.0	<1.0	<1.0
GRO	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MTBE	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

2/11/10						
3'	5'	10'	15'	20'	24.5'	
1.9	<1.0	<1.0	<1.0	<1.0	<1.0	
<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	



B-5		2/26/08			
DRO	<1.0	7'	11.5'	15'	24.5'
GRO	<1.0	7.2	<1.0	<1.0	<1.0
B	<0.005	<0.005	<0.005	<0.005	<0.005
MTBE	<0.005	0.0056	0.019	0.022	

B-6		2/26/08			
DRO	<1.0	7'	11.5'	15.5'	24.5'
GRO	<1.0	<1.0	<1.0	<1.0	<1.0
B	<0.005	<0.005	<0.005	<0.005	<0.005
MTBE	<0.005	<0.005	<0.005	<0.005	<0.005

B-7		2/26/08			
DRO	<1.0	7'	11.5'	15.5'	24.5'
GRO	<1.0	<1.0	<1.0	<1.0	<1.0
B	<0.005	<0.005	<0.005	<0.005	<0.005
MTBE	<0.005	<0.005	<0.005	<0.005	<0.005

B-3		2/26/08		
DRO	<1.0	7'	15'	24.5'
GRO	<1.0	<1.0	<1.0	<1.0
B	<0.005	<0.005	<0.005	<0.005
MTBE	<0.005	0.0084	<0.005	<0.005

BH-A		BH-B		BH-C	
DRO	270	DRO	320	DRO	280
GRO	150	GRO	290	GRO	240
B	<0.025	B	2.2	B	1.7
MTBE	<0.025	MTBE	<0.05	MTBE	0.014

STRATUS
ENVIRONMENTAL, INC.



FORMER OLYMPIC SERVICE STATION
1436 GRANT AVENUE
SAN LORENZO, CALIFORNIA
OFF-SITE SOIL ANALYTICAL SUMMARY MAP

FIGURE
PROJECT NO.
2115-1436-01

ON-SITE SOIL ANALYTICAL SUMMARY MAP



- LEGEND**
- MW-1 MONITORING WELL LOCATION
 - SV-1 VAPOR EXTRACTION WELL LOCATION
 - EX-1 EXTRACTION WELL LOCATION
 - IW-1 OZONE INJECTION WELL LOCATION
 - B-1 SOIL BORING LOCATION
 - ▲ D-2D SOIL SAMPLE LOCATION
- WELL/BORING ID & DATE**
- | | | | |
|------|-------|--------------------------------------|--|
| DRO | 15' | SAMPLING DEPTH IN FEET BGS | |
| GRO | ND | DIESEL RANGE HYDROCARBONS IN mg/Kg | |
| B | ND | GASOLINE RANGE HYDROCARBONS IN mg/Kg | |
| B | ND | BENZENE IN mg/Kg | |
| MTBE | 0.045 | METHYL TERTIARY BUTYL ETHER IN mg/Kg | |
- NA = NOT ANALYZED

-2					5/20/11			
DRO	6'	11'	16.5'	NA	NA	NA	NA	NA
GRO	140	160	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
B	0.39	0.89	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MTBE	<0.05	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

EX-1					5/19/11			
DRO	6'	11'	16'	21'	NA	NA	NA	NA
GRO	83	110	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
B	0.15	1.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MTBE	0.076	0.21	0.046	<0.005	<0.005	<0.005	<0.005	<0.005

B-1					2/25/08			
DRO	3'	7'	10.5'	19.5'	8.3	1,700	120	120
GRO	<1.0	290	140	85	<1.0	290	140	85
B	<0.005	0.25	0.31	0.42	<0.005	0.25	0.31	0.42
MTBE	<0.005	<0.005	1.0	1.7	<0.005	<0.005	1.0	1.7

MW-4					2/09/10			
DRO	3'	5'	8'	530	1,800	50	50	50
GRO	160	360	270	160	360	270	270	270
B	<0.005	<0.10	<0.05	<0.005	<0.10	<0.05	<0.05	<0.05
MTBE	<0.005	<0.10	0.20	<0.005	<0.10	0.20	<0.05	0.20

D-2D					7/10/98			
DRO	2'	39	NA	NA	39	NA	NA	NA
GRO	NA	NA	NA	NA	NA	NA	NA	NA
B	NA	NA	NA	NA	NA	NA	NA	NA
MTBE	NA	NA	NA	NA	NA	NA	NA	NA

IW-1					5/20/11			
DRO	6'	11'	NA	NA	220	170	170	170
GRO	NA	NA	NA	NA	220	170	170	170
B	<0.005	<0.005	<0.005	<0.005	<0.005	0.17	0.17	0.17
MTBE	0.054	0.070	0.054	0.070	0.054	0.070	0.070	0.070

PL-1					7/10/98			
DRO	1.5'	2.8	5.8	0.062	1.5'	2.8	5.8	0.062
GRO	2.8	5.8	0.062	<0.05	2.8	5.8	0.062	<0.05
B	0.062	<0.05	<0.05	<0.05	0.062	<0.05	<0.05	<0.05
MTBE	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

T3-E					7/10/98			
DRO	7'	11.5'	15'	24.5'	NA	3,800	30	27
GRO	NA	3,800	30	27	NA	3,800	30	27
B	3,800	30	27	27	3,800	30	27	27
MTBE	27	27	27	27	27	27	27	27

B-4					2/25/08			
DRO	7'	11.5'	15'	24.5'	260	12	<1.0	<1.0
GRO	260	12	<1.0	<1.0	260	12	<1.0	<1.0
B	0.016	0.28	<0.005	<0.005	0.016	0.28	<0.005	<0.005
MTBE	0.28	1.8	0.045	<0.005	0.28	1.8	0.045	<0.005

T2-E					7/10/98			
DRO	8'	NA	8.2	0.45	8'	NA	8.2	0.45
GRO	NA	8.2	0.45	<0.01	NA	8.2	0.45	<0.01
B	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MTBE	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45

T3-W					7/10/98			
DRO	10'	NA	170	<0.4	10'	NA	170	<0.4
GRO	NA	170	<0.4	<0.4	NA	170	<0.4	<0.4
B	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
MTBE	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4

T1-E					7/10/98			
DRO	7.5'	NA	180	<0.2	7.5'	NA	180	<0.2
GRO	NA	180	<0.2	<0.2	NA	180	<0.2	<0.2
B	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MTBE	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

EX-2					5/19/11			
DRO	11'	16'	21'	NA	NA	MA	NA	NA
GRO	340	1.6	2.3	<0.005	<0.005	<0.005	<0.005	<0.005
B	0.19	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MTBE	1.7	1.2	0.098	<0.005	<0.005	<0.005	<0.005	<0.005

D-1G					7/10/98			
DRO	1.5'	NA	5,700	<0.25	1.5'	NA	5,700	<0.25
GRO	NA	5,700	<0.25	<5.0	NA	5,700	<0.25	<5.0
B	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
MTBE	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0

D-1D					7/10/98			
DRO	2'	5.7	NA	NA	2'	5.7	NA	NA
GRO	NA	5.7	NA	NA	NA	5.7	NA	NA
B	NA	5.7	NA	NA	NA	5.7	NA	NA
MTBE	NA	5.7	NA	NA	NA	5.7	NA	NA

B-2					2/25/08			
DRO	7'	11.5'	15'	24.5'	14	41	2.2	<1.0
GRO	30	86	4.9	<1.0	30	86	4.9	<1.0
B	0.016	0.12	0.018	<0.005	0.016	0.12	0.018	<0.005
MTBE	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

EX-3					5/19/11			
DRO	6'	11'	16'	NA	NA	NA	NA	NA
GRO	41	340	<1.0	<1.0	41	340	<1.0	<1.0
B	0.023	<0.10	<0.005	<0.005	0.023	<0.10	<0.005	<0.005
MTBE	<0.010	<0.10	<0.005	<0.005	<0.010	<0.10	<0.005	<0.005

MW-2					9/24/99			
DRO	10'	1,000	2.9	<0.005	10'	1,000	2.9	<0.005
GRO	1,000	2.9	<0.005	<0.005	1,000	2.9	<0.005	<0.005
B	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MTBE	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

WO-1					7/10/98			
DRO	7.5'	1,300	200	1.5	7.5'	1,300	200	1.5
GRO	1,300	200	1.5	<0.005	1,300	200	1.5	<0.005
B	1.5	<0.005	<0.005	<0.005	1.5	<0.005	<0.005	<0.005
MTBE	1.4	<0.005	<0.005	<0.005	1.4	<0.005	<0.005	<0.005

MW-1					9/24/99			
DRO	10.5'	250	6.5	0.42	10.5'	250	6.5	0.42
GRO	250	6.5	0.42	0.42	250	6.5	0.42	0.42
B	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42
MTBE	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7

GRANT AVENUE

VIA SECO

ARROYO HIGH SCHOOL

CONDOMINIUMS/APARTMENT

CHANNEL STREET

OFFICE & GARAGE

ARROYO CENTER PARKING LOT

APPROXIMATE EXTENT OF GRO, BENZENE, OR MTBE CONCENTRATIONS IN SOIL THAT EXCEED ESLs.

APPROXIMATE EXTENT OF GRO, BENZENE, OR MTBE CONCENTRATIONS IN SOIL THAT EXCEED ESLs.

STRATUS ENVIRONMENTAL, INC.



FORMER OLYMPIC SERVICE STATION
1436 GRANT AVENUE
SAN LORENZO, CALIFORNIA
ON-SITE SOIL ANALYTICAL SUMMARY MAP

FIGURE
PROJECT NO.
2115-1436-01

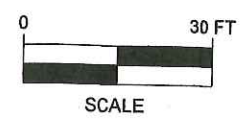
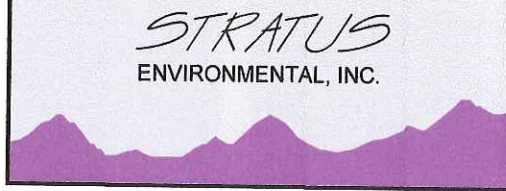
GRO IN GROUNDWATER
10' DEPTH WELLS
JUNE 2014



LEGEND

- MW-1 MONITORING WELL LOCATION
- EX-1 EXTRACTION WELL LOCATION
- IW-1 OZONE INJECTION WELL LOCATION

[6,000] GASOLINE RANGE ORGANICS (GRO) CONCENTRATION IN $\mu\text{g/L}$
WELLS SAMPLED ON 6/19/14
GRO ANALYZED BY EPA METHOD SW8015B/SW8260B



FORMER OLYMPIC SERVICE STATION
1436 GRANT AVENUE
SAN LORENZO, CALIFORNIA
GRO IN GROUNDWATER, 10' DEPTH WELLS
JUNE 2014

FIGURE
1
PROJECT NO.
2115-1436-01

GRO IN GROUNDWATER
10' DEPTH WELLS
APRIL 2015



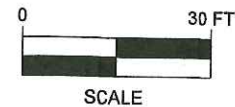
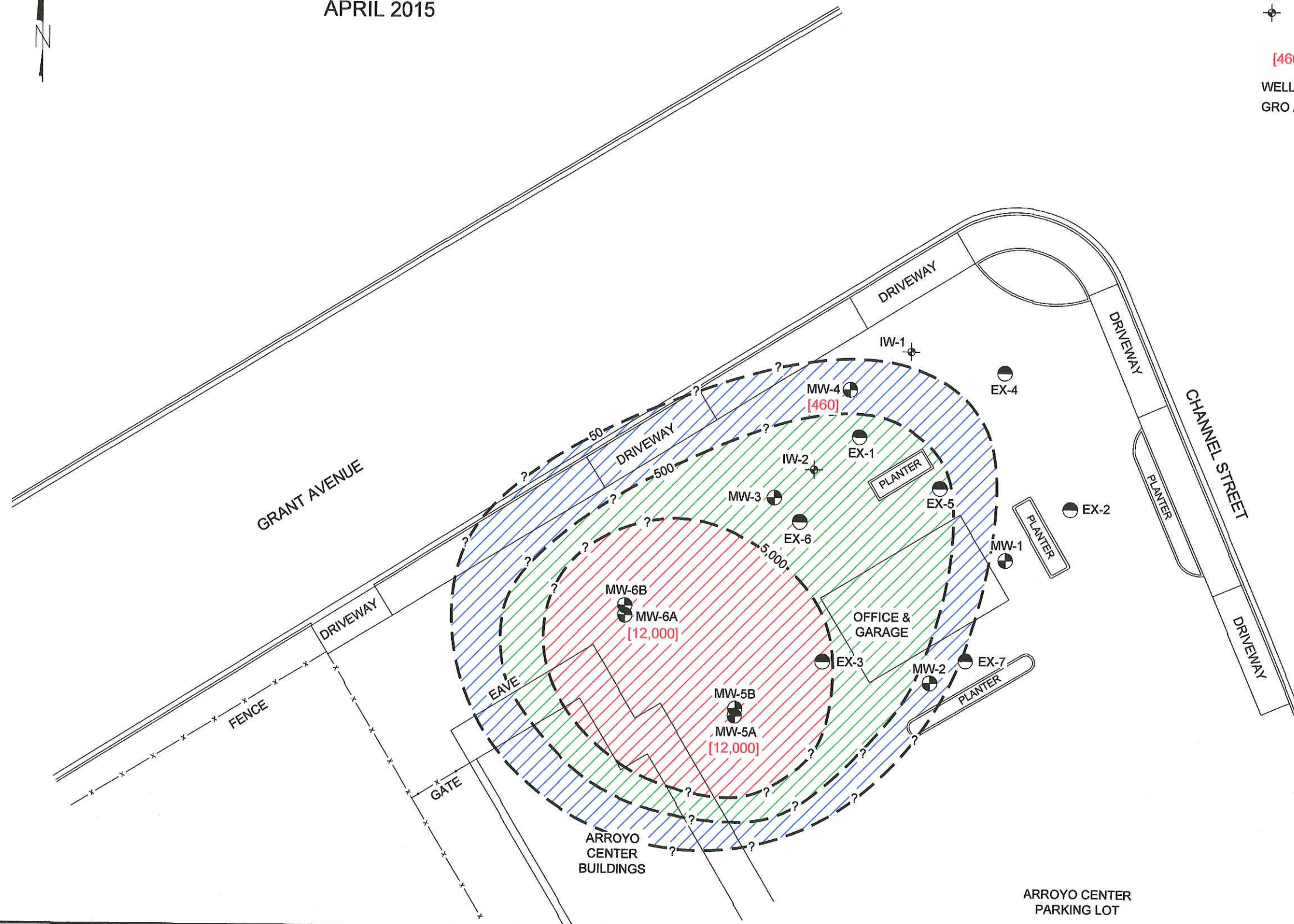
LEGEND

- MW-1 MONITORING WELL LOCATION
- EX-1 EXTRACTION WELL LOCATION
- IW-1 OZONE INJECTION WELL LOCATION

[460] GASOLINE RANGE ORGANICS (GRO) CONCENTRATION IN $\mu\text{g/L}$

WELLS SAMPLED ON 4/14/15

GRO ANALYZED BY EPA METHOD SW8015B/SW8260B






FORMER OLYMPIC SERVICE STATION
1436 GRANT AVENUE
SAN LORENZO, CALIFORNIA
GRO IN GROUNDWATER, 10' DEPTH WELLS
APRIL 2015

FIGURE
2
PROJECT NO.
2115-1436-01

BENZENE IN GROUNDWATER
10' DEPTH WELLS
JUNE 2014

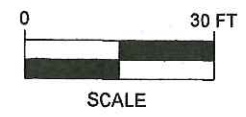
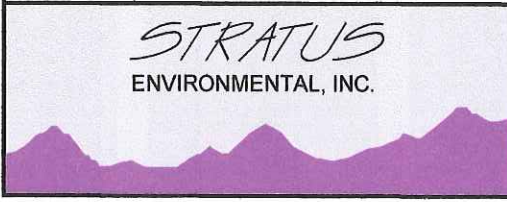
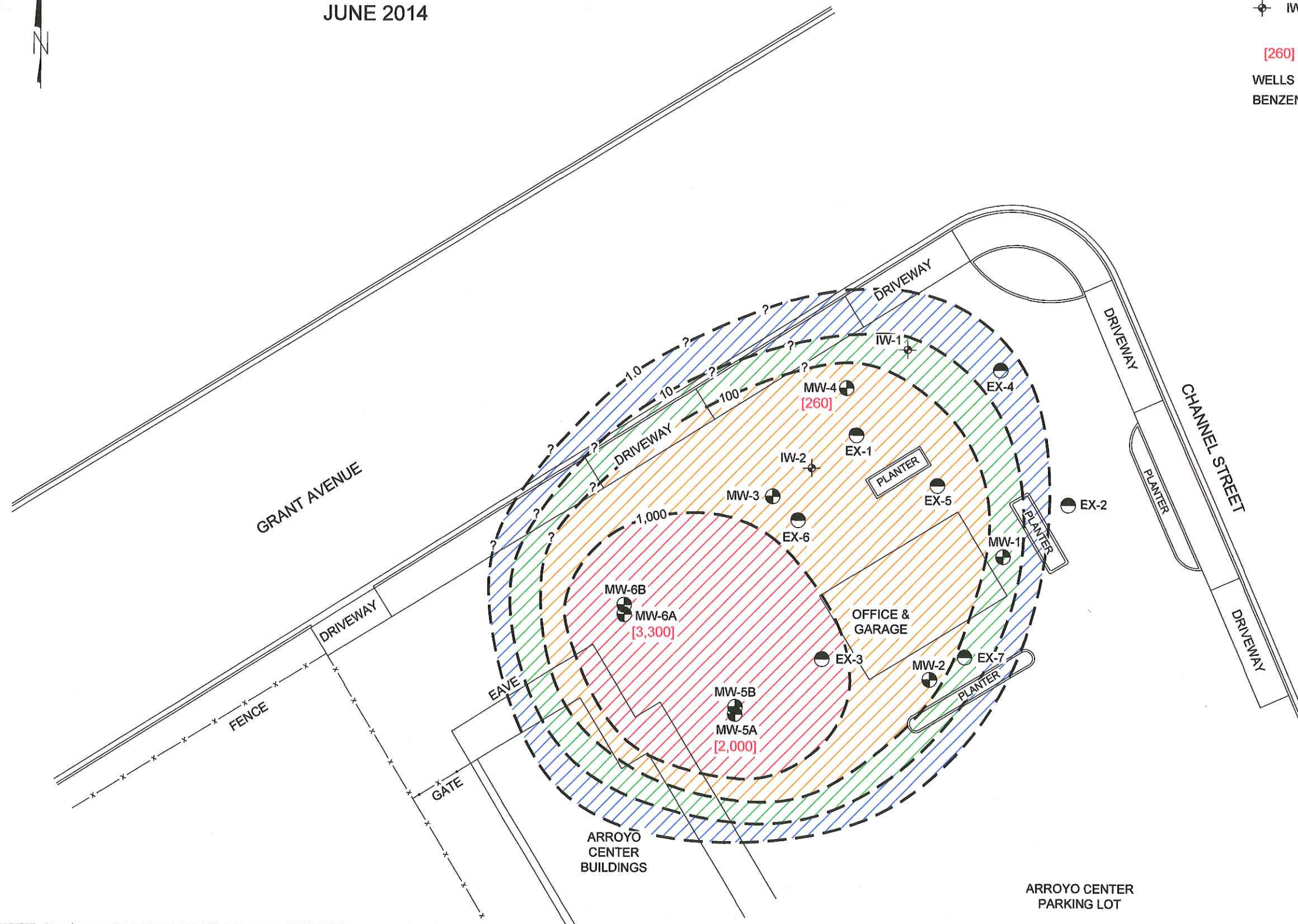
LEGEND

-  MW-1 MONITORING WELL LOCATION
-  EX-1 EXTRACTION WELL LOCATION
-  IW-1 OZONE INJECTION WELL LOCATION

[260] BENZENE CONCENTRATION IN $\mu\text{g/L}$

WELLS SAMPLED ON 6/19/14

BENZENE ANALYZED BY EPA METHOD SW8260B



FORMER OLYMPIC SERVICE STATION
1436 GRANT AVENUE
SAN LORENZO, CALIFORNIA
BENZENE IN GROUNDWATER, 10' DEPTH WELLS
JUNE 2014

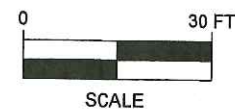
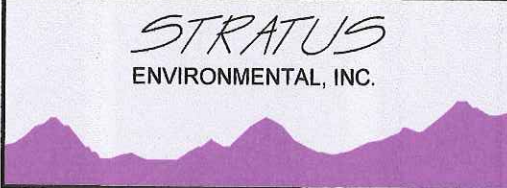
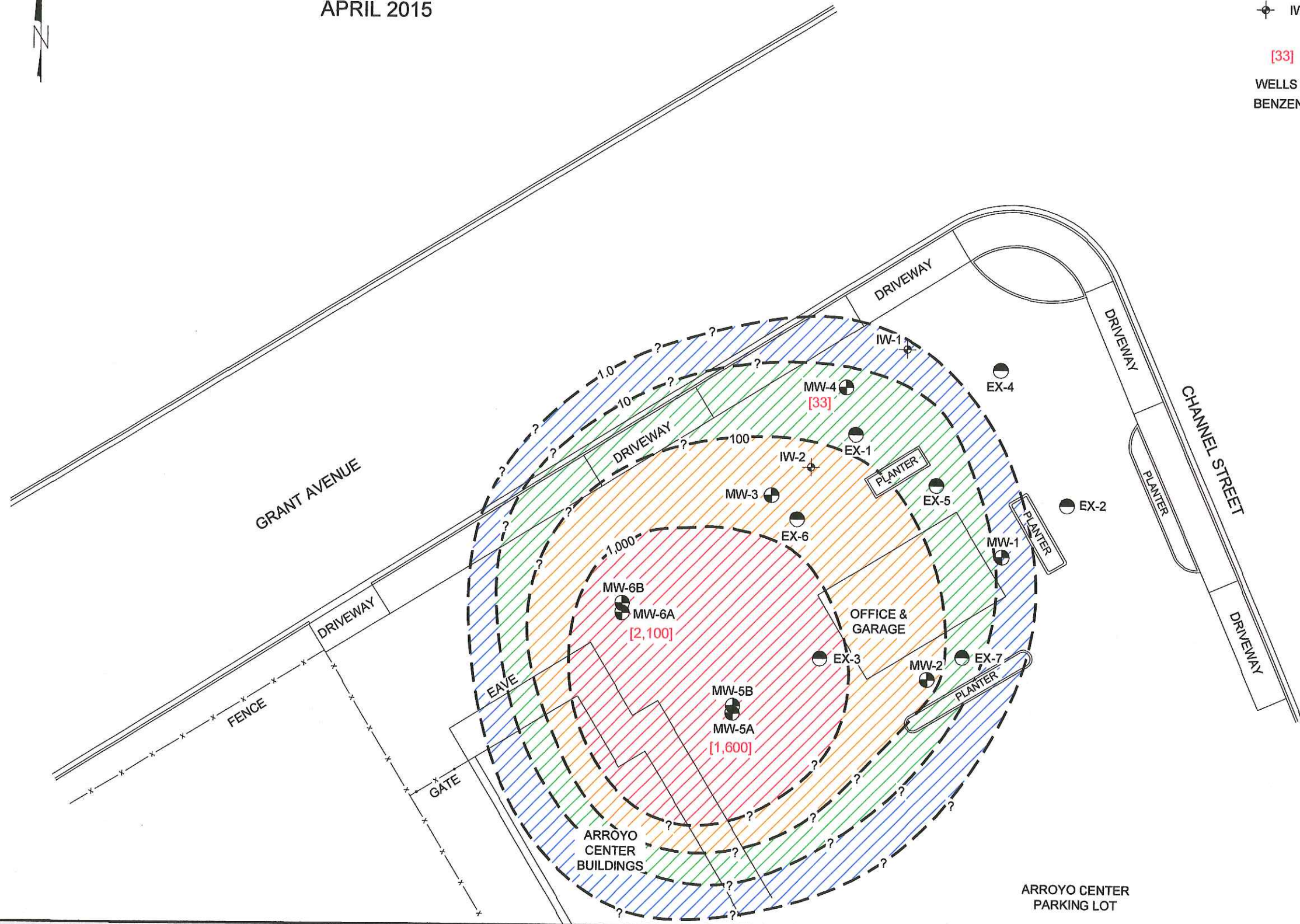
FIGURE
3
PROJECT NO.
2115-1436-01

BENZENE IN GROUNDWATER
10' DEPTH WELLS
APRIL 2015

- LEGEND
- MW-1 MONITORING WELL LOCATION
 - EX-1 EXTRACTION WELL LOCATION
 - ⊕ IW-1 OZONE INJECTION WELL LOCATION

[33] BENZENE CONCENTRATION IN $\mu\text{g/L}$

WELLS SAMPLED ON 4/14/15
BENZENE ANALYZED BY EPA METHOD SW8260B



FORMER OLYMPIC SERVICE STATION
1436 GRANT AVENUE
SAN LORENZO, CALIFORNIA




BENZENE IN GROUNDWATER, 10' DEPTH WELLS
APRIL 2015

FIGURE
4

PROJECT NO.
2115-1436-01

MTBE IN GROUNDWATER
10' DEPTH WELLS
JUNE 2014

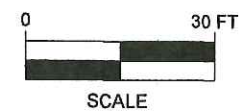
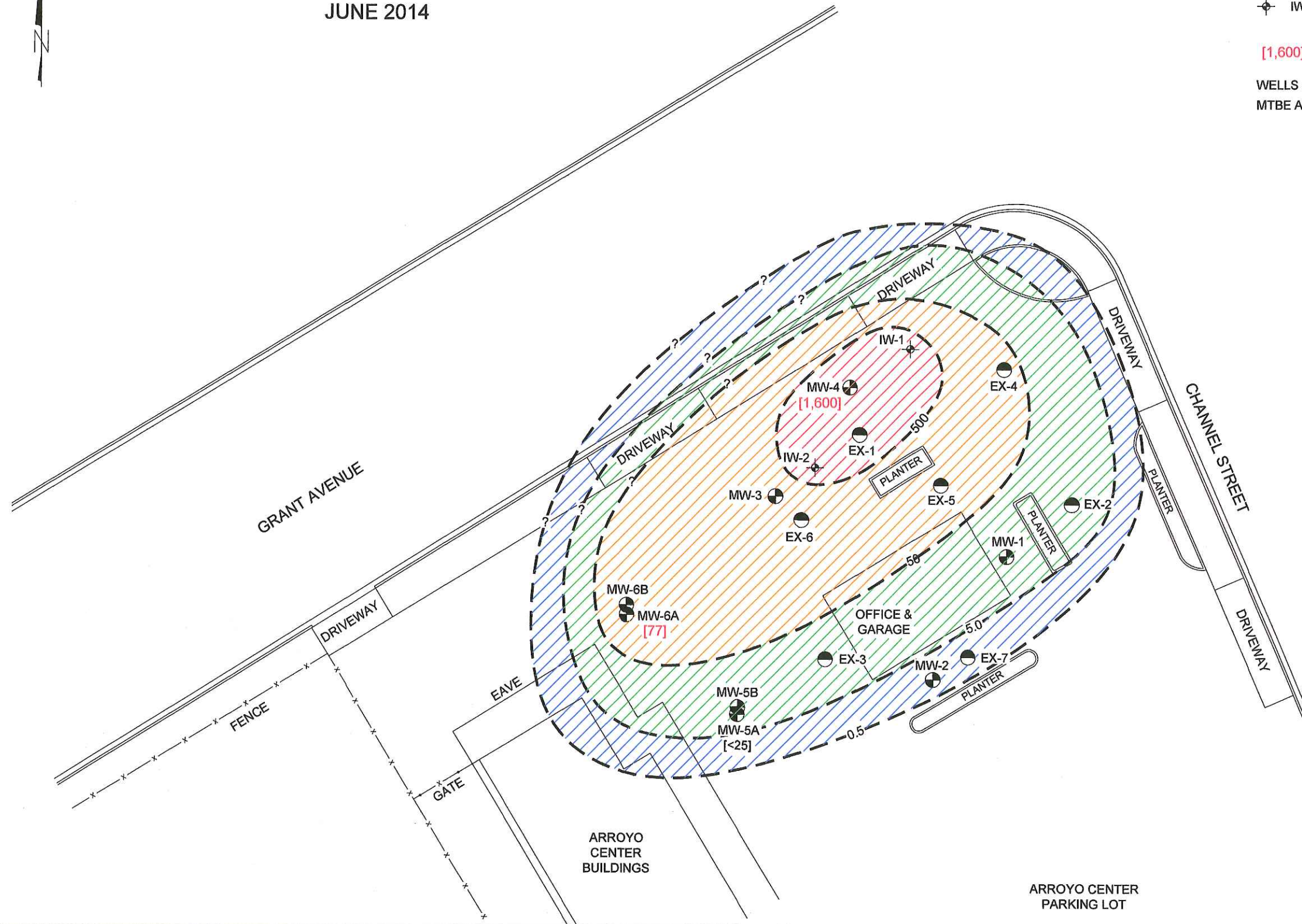
LEGEND

-  MW-1 MONITORING WELL LOCATION
-  EX-1 EXTRACTION WELL LOCATION
-  IW-1 OZONE INJECTION WELL LOCATION

[1,600] METHYL TERTIARY BUTYL ETHER (MTBE) IN $\mu\text{g/L}$

WELLS SAMPLED ON 6/19/14

MTBE ANALYZED BY EPA METHOD SW8260B






FORMER OLYMPIC SERVICE STATION
1436 GRANT AVENUE
SAN LORENZO, CALIFORNIA
MTBE IN GROUNDWATER, 10' DEPTH WELLS
JUNE 2014

FIGURE
5
PROJECT NO.
2115-1436-01

MTBE IN GROUNDWATER
10' DEPTH WELLS
APRIL 2015



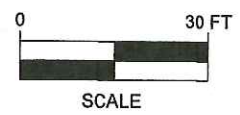
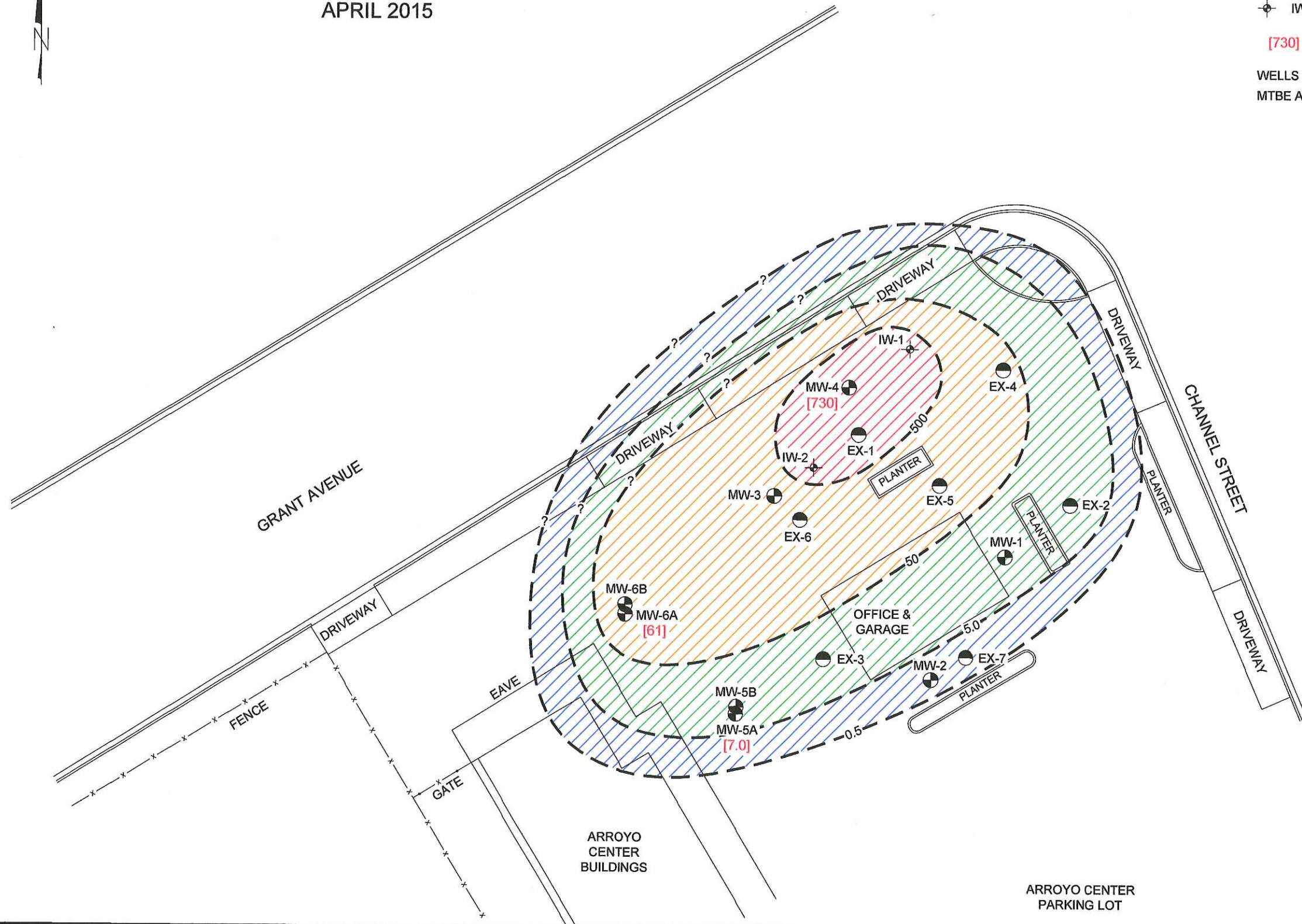
LEGEND

-  MW-1 MONITORING WELL LOCATION
-  EX-1 EXTRACTION WELL LOCATION
-  IW-1 OZONE INJECTION WELL LOCATION

[730] METHYL TERTIARY BUTYL ETHER (MTBE) IN $\mu\text{g/L}$

WELLS SAMPLED ON 4/14/15

MTBE ANALYZED BY EPA METHOD SW8260B



FORMER OLYMPIC SERVICE STATION
1436 GRANT AVENUE
SAN LORENZO, CALIFORNIA
MTBE IN GROUNDWATER, 10' DEPTH WELLS
APRIL 2015

FIGURE
6
PROJECT NO.
2115-1436-01

GRO IN GROUNDWATER
20-26' DEPTH WELLS
JUNE 2014



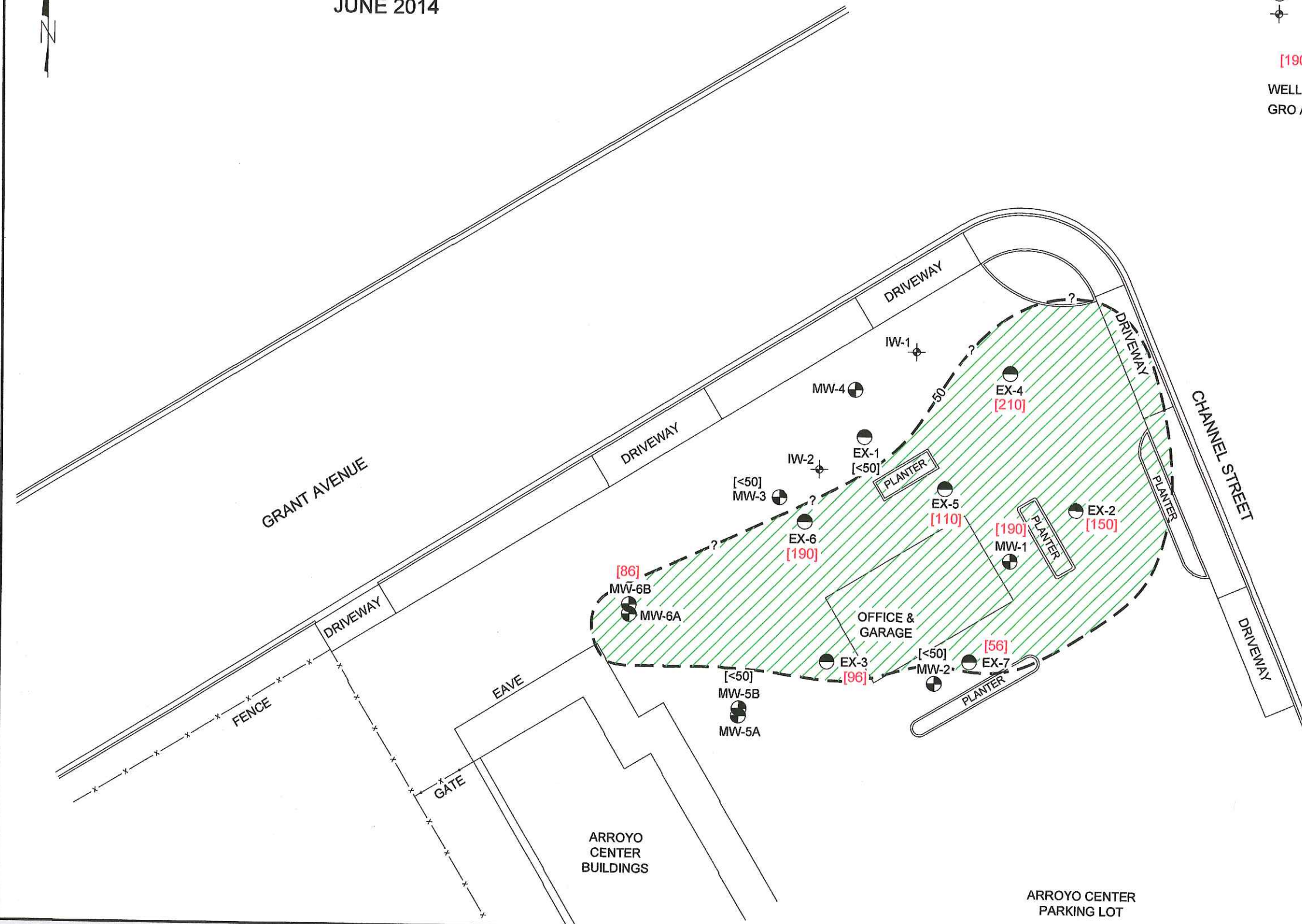
LEGEND

- MW-1 MONITORING WELL LOCATION
- EX-1 EXTRACTION WELL LOCATION
- IW-1 OZONE INJECTION WELL LOCATION

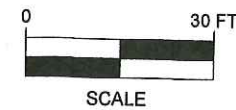
[190] GASOLINE RANGE ORGANICS (GRO) CONCENTRATION IN $\mu\text{g/L}$

WELLS SAMPLED ON 6/19/14

GRO ANALYZED BY EPA METHOD SW8015B/SW8260B



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FORMER OLYMPIC SERVICE STATION
1436 GRANT AVENUE
SAN LORENZO, CALIFORNIA
GRO IN GROUNDWATER, 20-26' DEPTH WELLS
JUNE 2014

FIGURE
7

PROJECT NO.
2115-1436-01

GRO IN GROUNDWATER
20-26' DEPTH WELLS
APRIL 2015



LEGEND

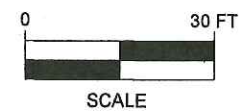
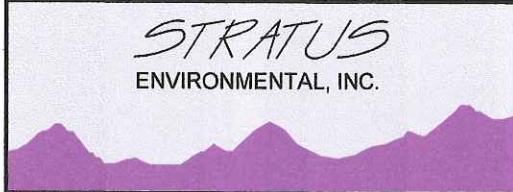
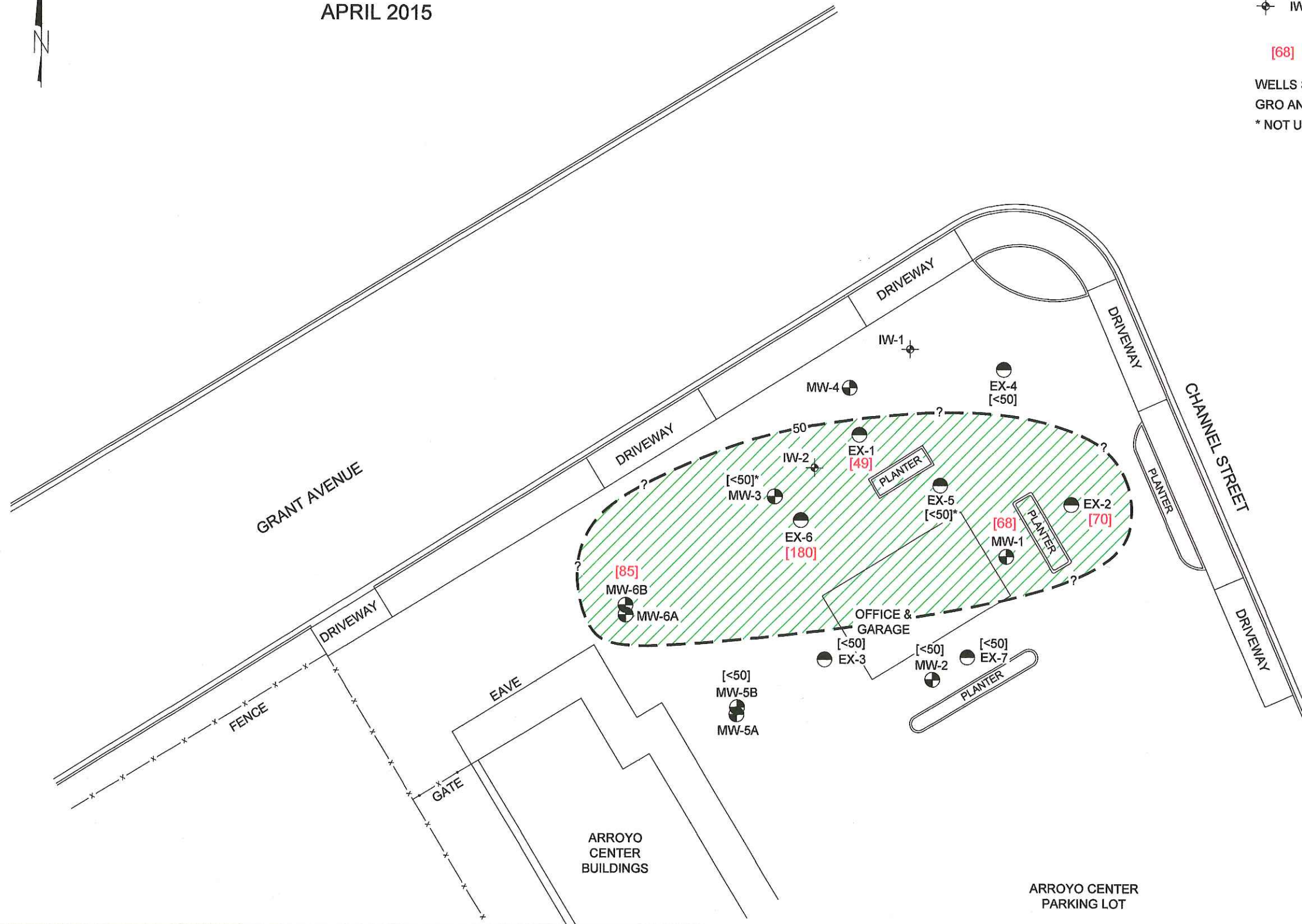
- MW-1 MONITORING WELL LOCATION
- EX-1 EXTRACTION WELL LOCATION
- IW-1 OZONE INJECTION WELL LOCATION

[68] GASOLINE RANGE ORGANICS (GRO) CONCENTRATION IN $\mu\text{g/L}$

WELLS SAMPLED ON 4/14/15

GRO ANALYZED BY EPA METHOD SW8015B/SW8260B

* NOT USED FOR CONTOURING



FORMER OLYMPIC SERVICE STATION
1436 GRANT AVENUE
SAN LORENZO, CALIFORNIA
GRO IN GROUNDWATER, 20-26' DEPTH WELLS
APRIL 2015

FIGURE
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PROJECT NO.
2115-1436-01

BENZENE IN GROUNDWATER
20-26' DEPTH WELLS
JUNE 2014

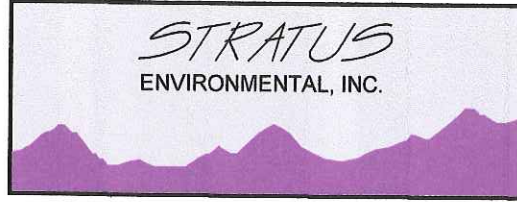
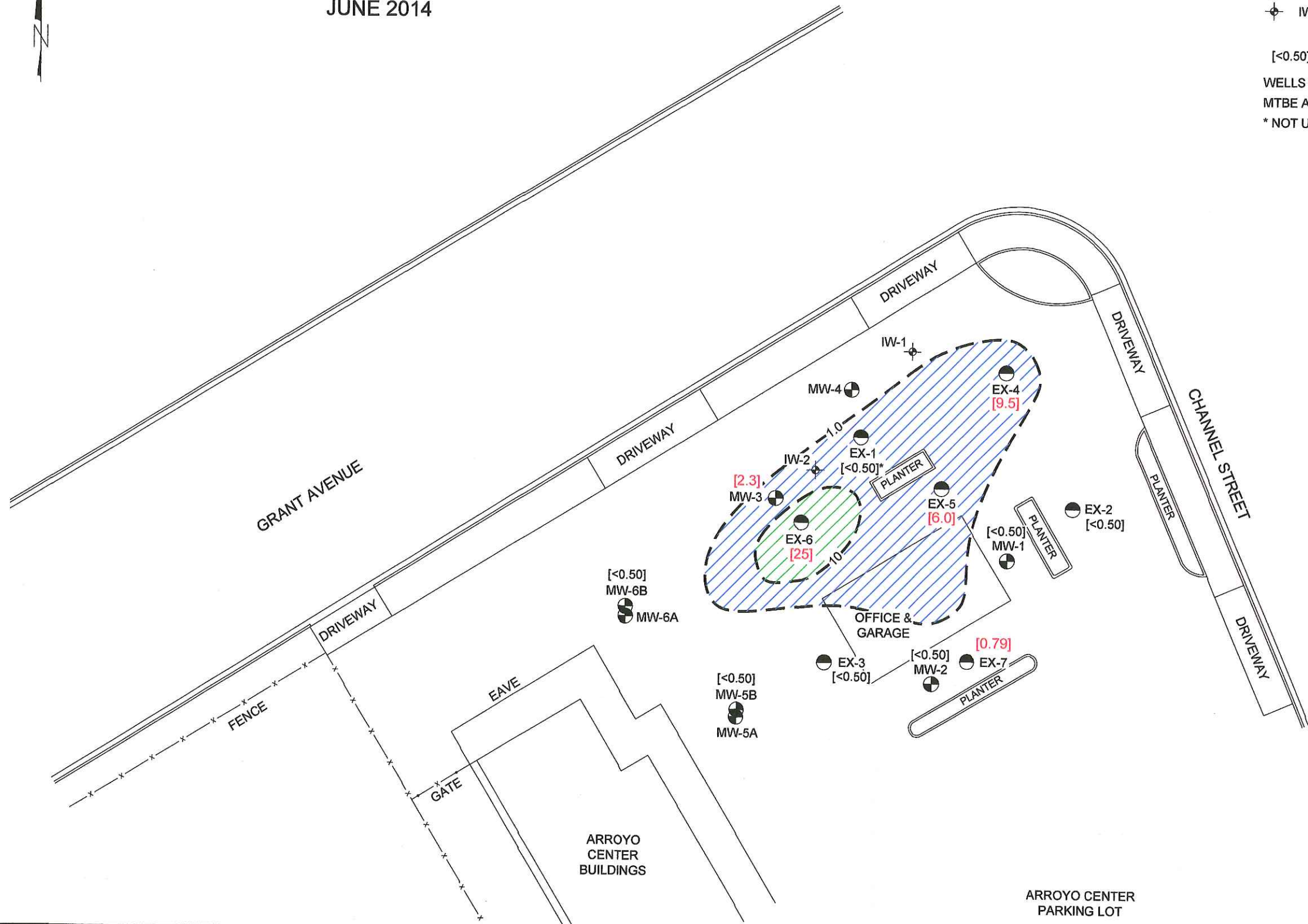


LEGEND

- MW-1 MONITORING WELL LOCATION
- EX-1 EXTRACTION WELL LOCATION
- ⊕ IW-1 OZONE INJECTION WELL LOCATION

[<0.50] BENZENE CONCENTRATION IN µg/L

WELLS SAMPLED ON 6/19/14
MTBE ANALYZED BY EPA METHOD SW8260B
* NOT USED FOR CONTOURING



FORMER OLYMPIC SERVICE STATION
1436 GRANT AVENUE
SAN LORENZO, CALIFORNIA

BENZENE IN GROUNDWATER, 20-26' DEPTH WELLS
JUNE 2014

FIGURE
9
PROJECT NO.
2115-1436-01

BENZENE IN GROUNDWATER
20-26' DEPTH WELLS
APRIL 2015



LEGEND

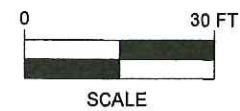
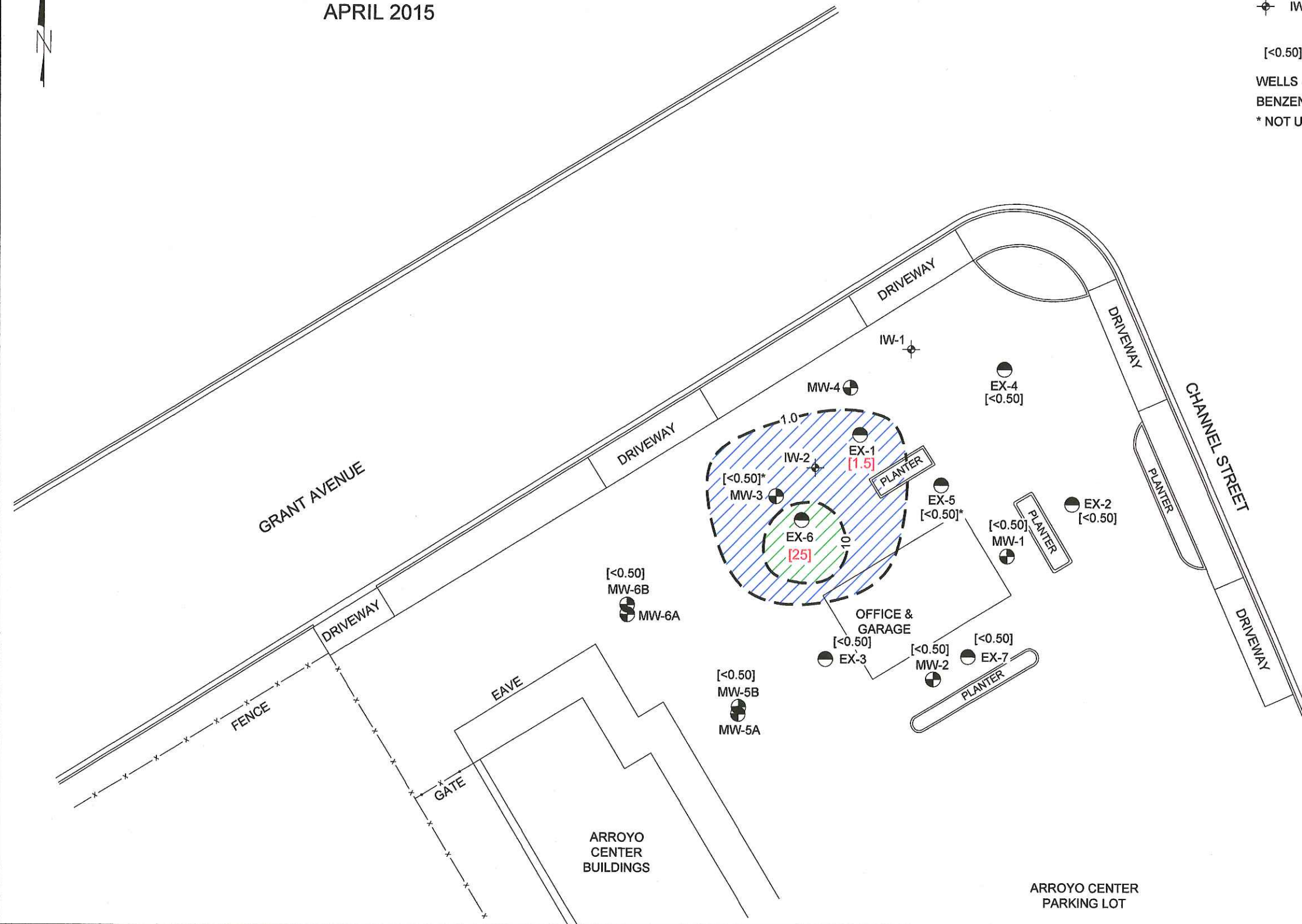
- MW-1 MONITORING WELL LOCATION
- EX-1 EXTRACTION WELL LOCATION
- IW-1 OZONE INJECTION WELL LOCATION

[<0.50] BENZENE CONCENTRATION IN $\mu\text{g/L}$

WELLS SAMPLED ON 4/14/15

BENZENE ANALYZED BY EPA METHOD SW8260B

* NOT USED FOR CONTOURING



FORMER OLYMPIC SERVICE STATION
1436 GRANT AVENUE
SAN LORENZO, CALIFORNIA
BENZENE IN GROUNDWATER, 20-26' DEPTH WELLS
APRIL 2015

FIGURE
10
PROJECT NO.
2115-1436-01

MTBE IN GROUNDWATER
20-26' DEPTH WELLS
JUNE 2014

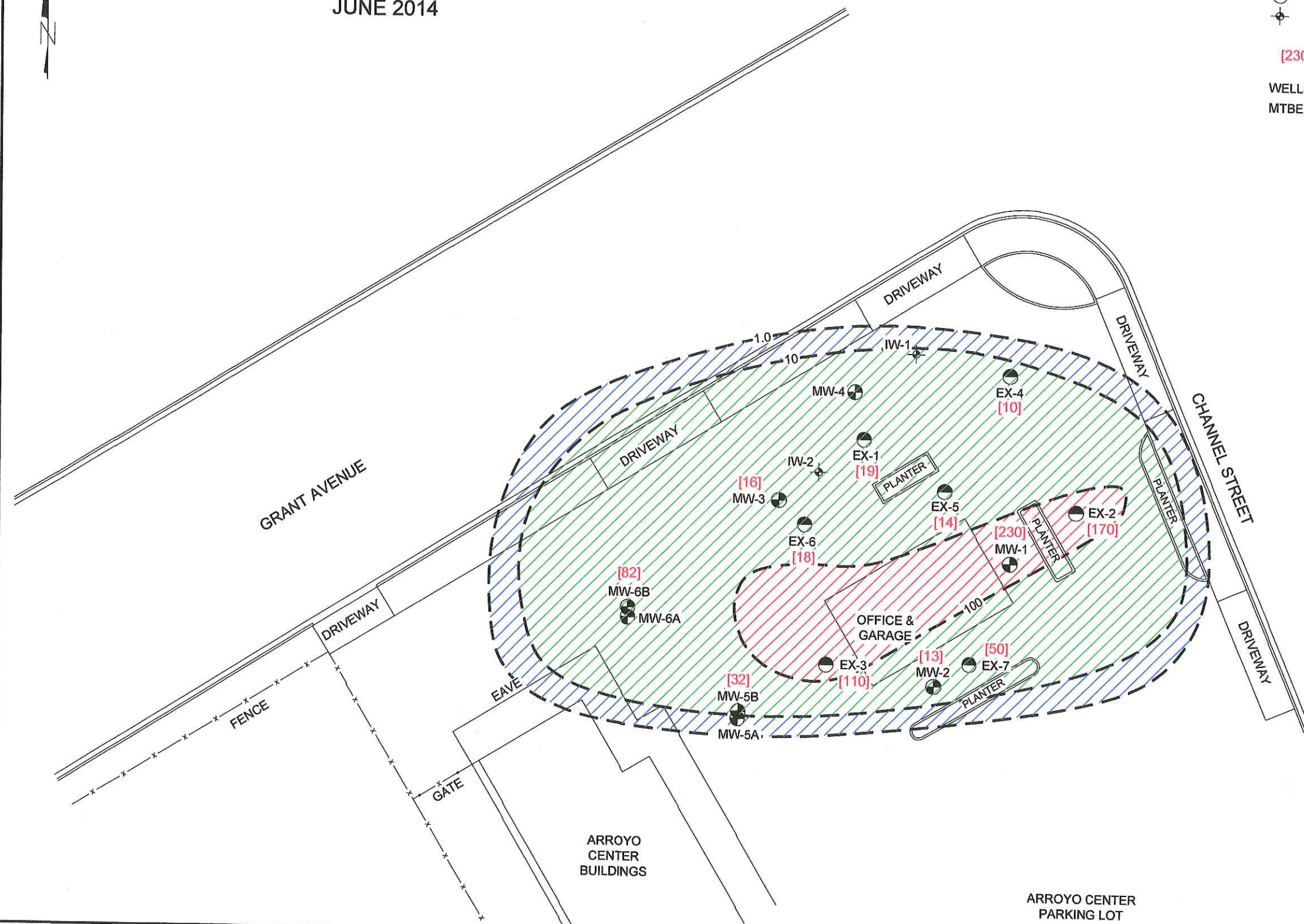


LEGEND

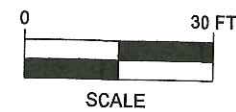
- MW-1 MONITORING WELL LOCATION
- EX-1 EXTRACTION WELL LOCATION
- IW-1 OZONE INJECTION WELL LOCATION

[230] METHYL TERTIARY BUTYL ETHER (MTBE) IN $\mu\text{g/L}$

WELLS SAMPLED ON 6/19/14
MTBE ANALYZED BY EPA METHOD SW8260B



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FORMER OLYMPIC SERVICE STATION
1436 GRANT AVENUE
SAN LORENZO, CALIFORNIA
MTBE IN GROUNDWATER, 20-26' DEPTH WELLS
JUNE 2014

FIGURE
11
PROJECT NO.
2115-1436-01

MTBE IN GROUNDWATER
20-26' DEPTH WELLS
APRIL 2015



LEGEND

- MW-1 MONITORING WELL LOCATION
- EX-1 EXTRACTION WELL LOCATION
- IW-1 OZONE INJECTION WELL LOCATION

[120] METHYL TERTIARY BUTYL ETHER (MTBE) IN $\mu\text{g/L}$

WELLS SAMPLED ON 4/14/15

MTBE ANALYZED BY EPA METHOD SW8260B



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FORMER OLYMPIC SERVICE STATION
1436 GRANT AVENUE
SAN LORENZO, CALIFORNIA
MTBE IN GROUNDWATER, 20-26' DEPTH WELLS
APRIL 2015

FIGURE
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PROJECT NO.
2115-1436-01