

# INFORMATION HANDOUT

## **MATERIALS INFORMATION**

WATER SOURCE

CONTAMINATED SOILS INFORMATION

**ROUTE: 06-Fre-168, PM T30.1/T30.4**

## Lian, Joe@DOT

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**From:** Lisa Koehn <lisak@ci.clovis.ca.us>  
**Sent:** Monday, November 02, 2015 2:18 PM  
**To:** Leyew, Lakachew@DOT  
**Cc:** Lim, Mike K@DOT; Badawia, Sam M@DOT; Lian, Joe@DOT; Richardson, Ronald J@DOT; Martin, David R@DOT  
**Subject:** RE: Water Source for construction for Roundabout in Fresno County in Prather at the Intersection of Auberry and Route 168

You may utilize the Caltrans recycled water connections at Temperance and 168 if it is okay with the Site Supervisor, Ron Richardson. Trucks need to be labeled. Thanks.

Lisa Koehn  
Assistant Public Utilities Director  
155 N. Sunnyside Avenue  
Clovis, CA 93611  
(559) 324-2607  
Fax (559) 324-2862

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**From:** Leyew, Lakachew@DOT [mailto:lakachew.leyew@dot.ca.gov]  
**Sent:** Monday, November 02, 2015 2:02 PM  
**To:** Lisa Koehn  
**Cc:** Lim, Mike K@DOT; Badawia, Sam M@DOT; Lian, Joe@DOT  
**Subject:** FW: Water Source for construction for Roundabout in Fresno County in Prather at the Intersection of Auberry and Route 168

Good Afternoon Lisa!!

My Name is Lakachew Leyew from California Department Transportation in Fresno.

I have a Roundabout project in Fresno County in Prather at the Intersection of Auberry and Route 168. This project will be going to Construction in June 2016.

During the course of 120 days of construction time we will be needing approximately 5.5 acre-foot of water for the project. As part of the project documents we have locate and document a water source and include it in the project package.

Based on my conversation with you this afternoon you indicated that the recycled water will be available for us. I am sending you this email to confirm our discussion.

Thank you and have a Blessed afternoon.

Lakachew Leyew  
California Department of Transportation  
2015 E. Shields Ave  
Fresno, California  
Phone: (559) 230-3139  
Fax: (559) 224-2852

FOR CONTRACT NO.: 06-0L340X

# INFORMATIONAL HANDOUT

CONTAMINATED SOILS INFORMATION

LEAD IN SOIL

Dated January 11, 2015

## Attachments

- (1) MAP OF BORING LOCATIONS
- (2) SUMMARY OF ANALYTICAL RESULTS
- (3) BORE LOGS



State Route 168  
at  
Auberry Road  
Intersection

LEGEND:

B7 ⊗ Approximate Soil Boring Location



0 150  
Scale in Feet

TABLE 2  
SUMMARY OF SOIL AND ASH ANALYTICAL RESULTS - TITLE 22 METALS  
STATE ROUTE 168 AT AUBERRY ROAD INTERSECTION  
PRATHER, FRESNO COUNTY, CALIFORNIA

Sample ID	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Mercury
B1-0	<2.0	1.2	140	<1.0	<1.0	1.3	4.7	5.7	4.0	<1.0	2.2	<1.0	<1.0	<1.0	34	41	<0.10
B1-3.5	<2.0	3.4	180	<1.0	<1.0	6.0	9.4	4.5	3.3	<1.0	2.8	<1.0	<1.0	<1.0	50	46	<0.10
B1A-2.3 (ASH)	2.0	240	530	<1.0	23	120	6.2	240	1,700 ( <i>&lt;0.050</i> )	3.2	19	1.6	2.5	<1.0	32	1,500	2.1
B2-0	<2.0	<1.0	190	<1.0	<1.0	4.6	8.2	5.4	5.3	<1.0	2.7	<1.0	<1.0	<1.0	38	47	<0.10
B2-3.5	<2.0	<1.0	200	<1.0	<1.0	3.6	9.2	3.3	1.7	<1.0	1.5	<1.0	<1.0	<1.0	45	42	<0.10
B3-0	<2.0	4.6	120	<1.0	<1.0	3.3	7.1	4.0	3.8	<1.0	1.5	<1.0	<1.0	<1.0	41	36	<0.10
B4-0	<2.0	<1.0	130	<1.0	<1.0	4.4	7.2	4.4	4.1	<1.0	2.2	<1.0	<1.0	<1.0	37	49	<0.10
B4-3.5	<2.0	<1.0	180	<1.0	<1.0	5.2	11	2.6	2.9	<1.0	1.8	<1.0	<1.0	<1.0	68	44	<0.10
B5-0	<2.0	<1.0	130	<1.0	<1.0	4.0	6.5	2.5	5.6	<1.0	1.7	<1.0	<1.0	<1.0	34	39	<0.10
B5-3.5	<2.0	<1.0	140	<1.0	<1.0	4.8	9.4	<2.0	2.0	<1.0	1.9	<1.0	<1.0	<1.0	49	44	<0.10
B6-0	<2.0	<1.0	120	<1.0	<1.0	4.3	5.6	3.8	12	<1.0	2.3	<1.0	<1.0	<1.0	27	50	<0.10
B6-3.5	<2.0	<1.0	140	<1.0	<1.0	7.3	10	3.0	3.8	<1.0	3.3	<1.0	<1.0	<1.0	54	40	<0.10
B7-0	<2.0	<1.0	150	<1.0	<1.0	1.3	5.3	7.7	5.9	<1.0	2.5	1.2	<1.0	<1.0	36	61	<0.10
B7-3.5	<2.0	1.5	150	<1.0	<1.0	2.1	6.2	6.5	2.9	<1.0	3.3	1.4	<1.0	<1.0	42	42	<0.10
TTL	500	500	10,000	75	100	2,500	8,000	2,500	1,000	3,500	2,000	100	500	700	2,400	5,000	20
10 x STLC	150	50	1,000	7.5	10	50	800	250	50	3,500	200	10	50	70	240	2,500	2.0
<u>CHHSLs</u>																	
Industrial	380	0.24	63,000	190	7.5	100,000	3,200	38,000	320	4,800	16,000	4,800	4,800	63	6,700	100,000	180
Residential	30	0.07	5,200	16	1.7	100,000	660	3,000	80	380	1,600	380	380	5.0	530	23,000	18

TABLE 2  
SUMMARY OF SOIL AND ASH ANALYTICAL RESULTS - TITLE 22 METALS  
STATE ROUTE 168 AT AUBERRY ROAD INTERSECTION  
PRATHER, FRESNO COUNTY, CALIFORNIA

Sample ID	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Mercury
Background Concentrations <sup>(1)</sup>																	
Minimum	0.15	0.6	133	0.25	0.05	23	2.7	9.1	12.4	0.1	9.0	0.015	0.10	0.17	39	88	0.10
Maximum	1.95	11	1,400	2.70	1.70	1,579	46.9	96.4	97.1	9.6	509	0.430	8.30	1.10	288	236	0.90
Mean	0.60	3.5	509	1.28	0.36	122	14.9	28.7	23.9	1.3	57	0.058	0.80	0.56	112	149	0.26

Notes:

B1-0

┌── Sample depth in feet below ground surface  
└── Boring Identification

Concentrations are shown in milligrams per kilogram unless otherwise noted

< = Less than laboratory reporting limits

TTLIC = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration

CHHSLs = California Environmental Protection Agency, California Human Health Screening Levels for industrial and residential land use

TTLIC, STLC, and CHHSLs shown for chromium are for chromium III

<sup>(1)</sup> Background Concentrations of Trace and Major Elements in California Soils (Kearney Foundation of Soil Science, Division of Agricultural and Natural Resources, University of California, March

Grey shading = Ash sample

(<0.050) = Result using Toxicity Characteristic Leaching Procedure reported in milligrams per liter

TABLE 3  
SUMMARY OF SOIL AND ASH ANALYTICAL RESULTS - DIOXINS AND pH  
STATE ROUTE 168 AT AUBERRY ROAD INTERSECTION  
PRATHER, FRESNO COUNTY, CALIFORNIA

SAMPLE ID	SAMPLE DATE	DIOXINS (µg/kg)	pH
B1-3.5	09/16/13	ND	---
B1-7.5	09/16/13	ND	---
B1A-2.3 (ASH)	10/22/13	ND	8.1
B2-3.5	09/16/13	ND	---
B3-1.5	09/16/13	ND	---
B4-3.5	09/16/13	ND	---
B5-3.5	09/16/13	ND	---
B5-7.5	09/16/13	ND	---
B6-3.5	09/16/13	ND	---
B6-7.5	09/16/13	ND	---
B7-3.5	09/16/13	ND	---

Notes:

µg/kg = Micrograms per kilogram

ND = Not detected above the laboratory reporting limits

--- = Not analyzed

Grey shading = Ash sample

PROJECT NO.

**Auberry Roundabout**

DEPTH IN FEET	PERCENT RECOVERY %	SAMPLE NO.	LITHOLOGY	<b>BORING NO. B1A</b>		SOIL (USCS)	HEADSPACE (PPM)	
				DATE DRILLED <u>10/22/2013</u>	WATER LEVEL (ATD) _____			
				EQUIPMENT <u>Geoprobe 5410 Direct-push</u> DRILLER _____				
SOIL DESCRIPTION								
1		B1A-2.3 1237	- - - - - - - - - -	<b>FILL</b> Loose, dry, moderate yellowish brown, Silty fine to coarse SAND, abundant large mica  - black ash layer at 2.3 feet, approximately 2 inches thick  - dusky yellowish brown at 3.5 feet with some hard black fine ash, 1 foot thick		SM		
2								
3								
4								
5				+ + + + + + + + + + + + + + + +	<b>MESOZOIC GRANITIC ROCKS</b> Completely weathered, medium dense, moist, dusky yellowish brown, weak granitic rock, excavates to: silty medium sand  - white from 6.6 to 7 feet			
6								
7								
8								
BORING TERMINATED AT 8 FEET GROUNDWATER NOT ENCOUNTERED								

BORING ELEVATION:

ENGINEER/GEOLOGIST:

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO.

**Auberry Roundabout**

DEPTH IN FEET	PERCENT RECOVERY %	SAMPLE NO.	LITHOLOGY	<b>BORING NO. B2</b>		SOIL (USCS)	HEADSPACE (PPM)
				DATE DRILLED <u>9/15/2013</u>	WATER LEVEL (ATD) _____		
				EQUIPMENT <u>Geoprobe 5410 direct-push</u> DRILLER _____			
SOIL DESCRIPTION							
1		B2-0 1007	+	Loose, dry moderate yellowish brown, coarse to fine Sandy SILT, with roots		ML	
2			+	<b>MESOZOIC GRANITIC ROCKS</b>			
3			+	Moderately weathered, weak granitic rock, Excavates to: Silty coarse sand-sized angular fragments, abundant mica, slight discoloration to 3 feet			
4		B2-3.5 1008	+	- grayish orange at 3 feet			
REFUSAL - BORING TERMINATED AT 4 FEET NO GROUNDWATER ENCOUNTERED							

Boring B2, page 1 of 1

ENV\_NO\_WELL\_AUBERRY ROUNDABOUT BORINGS.GPJ 11/19/13

BORING ELEVATION:

ENGINEER/GEOLOGIST:

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PROJECT NO.

**Auberry Roundabout**

DEPTH IN FEET	PERCENT RECOVERY %	SAMPLE NO.	LITHOLOGY	<b>BORING NO. B3</b>		SOIL (USCS)	HEADSPACE (PPM)
				DATE DRILLED <u>9/15/2013</u>	WATER LEVEL (ATD) _____		
				EQUIPMENT <u>Geoprobe 5410 direct-push</u>		DRILLER _____	
SOIL DESCRIPTION							
1		B3-0 1023	+++	Loose, dry, moderate yellowish brown, coarse to fine Sandy SILT		ML	
2		B3-1.5 1024	+++	<b>MESOZOIC GRANITIC ROCKS</b> Completely weathered, dark yellowish brown, weak granitic rock, Excavates to: GRAVEL to coarse sand-sized angular fragments up to 1-inch long, with roots and abundant mica REFUSAL - BORING TERMINATED AT 2 FEET GROUNDWATER NOT ENCOUNTERED			

Boring B3, page 1 of 1

ENV\_NO\_WELL AUBERRY ROUNDABOUT BORINGS.GPJ 11/19/13

BORING ELEVATION:

ENGINEER/GEOLOGIST:

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PROJECT NO.

**Auberry Roundabout**

DEPTH IN FEET	PERCENT RECOVERY %	SAMPLE NO.	LITHOLOGY	<b>BORING NO. B4</b>		SOIL (USCS)	HEADSPACE (PPM)
				DATE DRILLED <u>9/15/2013</u>	WATER LEVEL (ATD) _____		
				EQUIPMENT <u>Geoprobe 5410 direct-push</u> DRILLER _____			
SOIL DESCRIPTION							
1		B4-0 1106		Loose, dry, moderate yellowish brown, coarse to fine Sandy SILT, with roots		ML	
2				<b>MESOZOIC GRANITIC ROCKS</b> Completely weathered, dark yellowish brown, weak, granitic rock, Excavates to: medium to coarse sand-sized fragments with abundant mica			
3							
4		B4-3.5 1107					
5							
6		B4-6 1108					
				REFUSAL - BORING TERMINATED AT 6.5 FEET GROUNDWATER NOT ENCOUNTERED			

Boring B4, page 1 of 1

ENV\_NO\_WELL AUBERRY ROUNDABOUT BORINGS.GPJ 11/19/13

BORING ELEVATION:

ENGINEER/GEOLOGIST:

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PROJECT NO.

**Auberry Roundabout**

DEPTH IN FEET	PERCENT RECOVERY %	SAMPLE NO.	LITHOLOGY	<b>BORING NO. B5</b>		SOIL (USCS)	HEADSPACE (PPM)
				DATE DRILLED <u>9/15/2013</u>	WATER LEVEL (ATD) _____		
				EQUIPMENT <u>Geoprobe 5410 direct-push</u>		DRILLER _____	
SOIL DESCRIPTION							
1		B5-0 1114	+	+	Loose, dry, moderate yellowish brown, coarse to fine Sandy SILT	ML	
2			+	+	<b>MESOZOIC GRANITIC ROCKS</b> Completely weathered, grayish orange, weak, granitic rock, Excavates to: coarse sand-sized fragments, with abundant mica		
3			+	+			
4		B5-3.5 1115	+	+			
5			+	+			
6			+	+			
7			+	+			
8		B5-7.5 1116	+	+	- grades to: moderately weathered at 7 feet		
BORING TERMINATED AT 8 FEET GROUNDWATER NOT ENCOUNTERED							

Boring B5, page 1 of 1

ENV\_NO\_WELL AUBERRY ROUNDABOUT BORINGS.GPJ 11/19/13

BORING ELEVATION:

ENGINEER/GEOLOGIST:

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PROJECT NO.

**Auberry Roundabout**

DEPTH IN FEET	PERCENT RECOVERY %	SAMPLE NO.	LITHOLOGY	<b>BORING NO. B5</b>		SOIL (USCS)	HEADSPACE (PPM)
				DATE DRILLED <u>9/15/2013</u>	WATER LEVEL (ATD) _____		
				EQUIPMENT <u>Geoprobe 5410 direct-push</u> DRILLER _____			
SOIL DESCRIPTION							
1		B5-0 1114	+	+	Loose, dry, moderate yellowish brown, coarse to fine Sandy SILT	ML	
2			+	+	<b>MESOZOIC GRANITIC ROCKS</b> Completely weathered, grayish orange, weak, granitic rock, Excavates to: coarse sand-sized fragments, with abundant mica		
3			+	+			
4		B5-3.5 1115	+	+			
5			+	+			
6			+	+			
7			+	+			
8		B5-7.5 1116	+	+	- grades to: moderately weathered at 7 feet		
BORING TERMINATED AT 8 FEET GROUNDWATER NOT ENCOUNTERED							

Boring B5, page 1 of 1

ENV\_NO\_WELL AUBERRY ROUNDABOUT BORINGS.GPJ 11/19/13

BORING ELEVATION:

ENGINEER/GEOLOGIST:

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PROJECT NO.

**Auberry Roundabout**

DEPTH IN FEET	PERCENT RECOVERY %	SAMPLE NO.	LITHOLOGY	<b>BORING NO. B6</b>		SOIL (USCS)	HEADSPACE (PPM)
				DATE DRILLED <u>9/15/2013</u>	WATER LEVEL (ATD) _____		
				EQUIPMENT <u>Geoprobe 5410 direct-push</u>		DRILLER _____	
SOIL DESCRIPTION							
1		B6-0 1125		Loose, dry, moderate yellowish brown, fine Sandy SILT, with some roots		ML	
2							
3							
4		B6-3.5 1126	+	<b>MESOZOIC GRANITIC ROCKS</b> Completely weathered, dark yellowish brown, weak, granitic rock, Excavates to: medium to coarse sand and gravel-sized fragments to 0.5-inch in diameter, with abundant mica			
5			+				
6			+				
7			+				
8		B6-7.5 1127	+	- moderately indurated at 7 feet			
BORING TERMINATED AT 8 FEET GROUNDWATER NOT ENCOUNTERED							

Boring B6, page 1 of 1

ENV\_NO\_WELL AUBERRY ROUNDABOUT BORINGS.GPJ 11/19/13

BORING ELEVATION:

ENGINEER/GEOLOGIST:

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PROJECT NO.

**Auberry Roundabout**

DEPTH IN FEET	PERCENT RECOVERY %	SAMPLE NO.	LITHOLOGY	<b>BORING NO. B7</b>		SOIL (USCS)	HEADSPACE (PPM)
				DATE DRILLED <u>9/15/2013</u>	WATER LEVEL (ATD) _____		
				EQUIPMENT <u>Geoprobe 5410 direct-push</u> DRILLER _____			
SOIL DESCRIPTION							
1		B7-0 1151	+	+	Loose, dry, moderate yellowish brown, coarse to medium Sandy <b>SILT</b>	ML	
2			+	+	<b>MESOZOIC GRANITIC ROCKS</b>		
3			+	+	Completely weathered, dark yellowish brown, weak, granitic rock, Excavates to: medium to coarse sand-sized fragments with abundant mica		
4		B7-3.5 1152	+	+			
REFUSAL - BORING TERMINATED AT 4 FEET GROUNDWATER NOT ENCOUNTERED							

Boring B7, page 1 of 1

ENV\_NO\_WELL AUBERRY ROUNDABOUT BORINGS.GPJ 11/19/13

BORING ELEVATION:

ENGINEER/GEOLOGIST:

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PROJECT NO.

**Auberry Roundabout**

DEPTH IN FEET	PERCENT RECOVERY %	SAMPLE NO.	LITHOLOGY	<b>BORING NO. B8</b>		SOIL (USCS)	HEADSPACE (PPM)
				DATE DRILLED <u>10/22/2013</u>	WATER LEVEL (ATD) _____		
				EQUIPMENT <u>Geoprobe 5410 Direct-push</u> DRILLER _____			
SOIL DESCRIPTION							
1					Loose, dry, moderate yellowish brown, coarse to fine Sandy SILT	ML	
2			+	+	<b>MESOZOIC GRANITIC ROCKS</b> Completely weathered, medium dense, moist, dusky yellowish brown, weak granitic rock, excavates to: silty medium sand		
3			+	+			
4			+	+			
5			+	+			
6			+	+			
					- white at 5.5 feet		
REFUSAL - BORING TERMINATED AT 6 FEET GROUNDWATER NOT ENCOUNTERED							

Boring B8, page 1 of 1

ENV\_NO\_WELL AUBERRY ROUNDABOUT BORINGS.GPJ 11/19/13

BORING ELEVATION:

ENGINEER/GEOLOGIST:

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PROJECT NO.

**Auberry Roundabout**

DEPTH IN FEET	PERCENT RECOVERY %	SAMPLE NO.	LITHOLOGY	<b>BORING NO. B9</b>		SOIL (USCS)	HEADSPACE (PPM)
				DATE DRILLED <u>10/22/2013</u>	WATER LEVEL (ATD) _____		
				EQUIPMENT <u>Geoprobe 5410 Direct-push</u>			
				DRILLER _____			
SOIL DESCRIPTION							
1					Loose, dry, moderate yellowish brown, Silty fine to coarse SAND - grades to dark yellowish brown at 0.5 foot	ML	
2					- silts increase at 2 feet		
3							
4							
5				+	<b>MESOZOIC GRANITIC ROCKS</b> Completely weathered, medium dense, moist, dusky yellowish brown, weak granitic rock, excavates to: silty medium sand		
6				+			
7				+			
8				+	- white at 6.8 feet		
				+	- weathering lessens at 7.5 feet		
BORING TERMINATED AT 8 FEET GROUNDWATER NOT ENCOUNTERED							

Boring B9, page 1 of 1

ENV\_NO\_WELL AUBERRY ROUNDABOUT BORINGS.GPJ 11/19/13

BORING ELEVATION:

ENGINEER/GEOLOGIST:

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