Data Box Information

All Result(s) Less than or equal to SRGs

ILBS0307	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	>SL

Result(s) Greater than SRGs

Sample Location ID

ISRA COC

Result and Comparison to SRG

RCRA R.D.s Compared to SL

ILBS0139	Result X SRG
Mercury	0.12 mg/kg 1.3
RCRA R.D.s	>SL

[2] - Represents the number of samples collected from this sample location, in this case 2, within the depth range being assessed, in this case < 2 feet bgs. Only the maximum result is presented for each analyte.

Please Note: The original version of this figure includes colorized features and shading. A black and white copy of the figure should not be used because it may not accurately represent the information presented.

Please Note: Data Boxes for LOX-1B-1 shown in separate figure

Please Note: Data Boxes for LOX-1B-3 shown in separate figure

LXET0108	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	None

LXET0101	Result X SRG
Dioxins	3.98 pg/g 1.3
RCRA R.D.s	None

LXET0110	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	None

LXET0111	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	None

LXET0106	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	None

LXET0109	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	None

LXET0113	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	None

LXET0100	Result X SRG
Dioxins	166 pg/g 55
RCRA R.D.s	None

LXET0112	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	None

LXET0114	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	None

LXBS1194	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	None

LOX-1B-2
ISRA COCs: Cu, Pb, Hg, Dioxins
RCRA R.D.s: TCE

LXET0117	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	None

LXET0115	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	None

LXET0116	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	None

LXET0118	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	None

LXET0105	Result X SRG
Dioxins	9.25 pg/g 3.1
Lead	36.1 mg/kg 1.1
RCRA R.D.s	None

LOX-1B-1
ISRA COCs: Cu, Pb, Dioxins
RCRA R.D.s: TCE

LXET0103	Result X SRG
Dioxins	[2] 13.9 pg/g 4.6
Lead	[2] 130 mg/kg 3.8
RCRA R.D.s	None

LXET0102	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	None

LXET0120	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	None

LXTS01	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	None

LXBS1188	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	None

LXET0123	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	None

LXET0107	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	None

LOX-1B-3
ISRA COCs: Cd, Cu, Pb, Hg, Dioxins
RCRA R.D.s: TCE

LXET0121	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	None

LXET0125	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	None

LXET0122	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	None

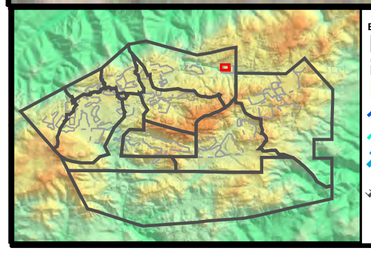
LOX-1B-4
ISRA COCs: Cu
RCRA R.D.s: None

LXET0104	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	None

LXET0124	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	None

LXBS1074	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	None

LXET0119	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	None



Base Map Legend

- Administrative Area Boundary
- RFI Site Boundary
- Report Group Boundary
- Drainage
- Non Jurisdictional Surface Water Pathway
- Surface Water Divide
- Previous Excavation Area

Figure Legend

- ISRA Planned Excavation
- ISRA Actual Excavation
- Additional Excavation Area
- Former Planned ISRA Area Boundary
- Near Surface Well
- Chatsworth Well

ISRA Constituents of Concern
Cadmium, Copper, Lead, Mercury, Dioxin

Soil Remediation Goals (SRGs)
Cadmium: 1 mg/kg
Copper: 29 mg/kg
Lead: 34 mg/kg
Mercury: 0.09 mg/kg
Dioxin: 3.0 pg/g

RCRA R.D.s = RCRA Risk Drivers
SL = Screening Level

Cadmium, Copper, Lead, and/or Mercury Sample Locations

- <= SRG
- > SRG and <= 2x SRG
- >2x SRG and <= 10x SRG
- >10x SRG

Chemical Data Legend

Dioxin Sample Locations

- <= SRG
- > SRG and <= 2x SRG
- > 2x SRG and <= 10x SRG
- > 10x SRG

Sample Not Analyzed for ISRA COCs

- > SL for one or more RCRA R.D.s
- <= SL for all RCRA R.D.s
- Not analyzed for RCRA R.D.s

Notes:
1. Dioxin represents the sum of 17 dioxin/furan cogener results adjusted for toxicity, normalized to 2,3,7,8-TCDD-TEQ.
2. Cadmium, copper, lead, and mercury SRG is equal to the 2005 background comparison concentration, and SRG for dioxins is approximately 3 times the 2005 background comparison concentration.
3. Screening level for RCRA risk drivers is the lower of the Ecological or Residential Risk-Based Screening Level. All RCRA risk drivers identified on this figure view are evaluated at each sample location shown
4. Aerial imagery was collected June 2, 2010, and represents pre-excavation conditions (Sage, 2010).
5. The actual ISRA excavation boundary was surveyed by Cal Vada on 6/28/2013 and 8/29/2013.

Outfall 009 - ISRA Area LOX-1B-2 Confirmation Sample Results

SANTA SUSANA FIELD LABORATORY

Path: T:\projects\rock3\ISRA\Figures\NASA\LOX-1B-2\LOX-1B-2_Confirm.mxd

Date: 12/26/2013

1 inch = 20 feet

0 20 40 Feet

MWH

Figure E-11.3

TABLE E-11.2
LOX-1B-2 CONFIRMATION SAMPLE RESULTS - PHASE III ISRA IMPLEMENTATION
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

			Group			**Metals**	**Metals**	**Metals**	**Dioxins**
			Preferred Analyte			**Copper**	**Lead**	**Mercury**	**TCDD TEQ**
			Result Value Units			**mg/kg**	**mg/kg**	**mg/kg**	**pg/g**
			Background			**29**	**34**	**0.09**	**0.87**
			ISRA SRG			**29**	**34**	**0.09**	**3**
			CMS			**8.2**	**--**	**0.88**	**--**
			Lowest Characterization RBSL			**1.1**	**0.063**	**0.1**	**4.27**
			RBSL Type			**ECO**	**ECO**	**ECO**	**ECO**
Object Name	**Sample Name**	**Sample Date**	**Sample Depth (feet bgs)**	**Sample Status**	**Floor/Sidewall**	**RESULTS**	**RESULTS**	**RESULTS**	**RESULTS**
LXBS1074	LXBS1074AS001	6/27/2013	0.5-1.0	In Place	Sidewall	--	--	<0.0101 J	--
LXBS1074	LXBS1074S001	8/25/2009	0.0-0.5	In Place	Sidewall	9.87 J	5.96	--	0.048
LXBS1188	LXBS1188S001	4/27/2010	0.0-1.0	In Place	Sidewall	--	--	--	0.393
LXBS1194	LXBS1194S001	4/27/2010	0.0-1.0	In Place	Sidewall	--	--	--	0.451
LXET0100	LXET0100S001	6/27/2013	0.5-1.0	Excavated	Sidewall	28.7 J	21 J	--	166
LXET0101	LXET0101S001	6/27/2013	0.5-1.0	In Place	Sidewall	27.4 J	21.1 J	--	3.98
LXET0102	LXET0102S001	6/27/2013	0.5-1.0	In Place	Sidewall	9.5 J	6.08 J	--	0.01
LXET0103	LXET0103S001	6/27/2013	0.5-1.0	Excavated	Sidewall	26.7 J	130 J	0.0127 J	13.9
LXET0103	LXET0103S001SP	6/27/2013	0.5-1.0	Excavated	Sidewall	24	38 J	0.015	13.73
LXET0104	LXET0104S001	6/27/2013	0.5-1.0	In Place	Sidewall	--	--	<0.01 J	0.32
LXET0105	LXET0105S001	7/18/2013	0.5-1.0	Excavated	Sidewall	25.4 J	36.1	0.0166 J	9.25
LXET0106	LXET0106S001	7/18/2013	0.5-1.0	In Place	Sidewall	11.2 J	10.2	--	1.56
LXET0106	LXET0106S001-RWQCB	7/18/2013	0.5-1.0	In Place	Sidewall	10.6	11.5	--	4.08
LXET0107	LXET0107S001	8/8/2013	0.0-0.5	In Place	Sidewall	--	--	--	1.25
LXET0108	LXET0108S001	8/26/2013	2.0-2.5	In Place	Floor	9.19	6.27	--	0.267
LXET0109	LXET0109S001	8/26/2013	2.0-2.5	In Place	Floor	10.2	5.83	--	0.606
LXET0110	LXET0110S001	8/26/2013	2.0-2.5	In Place	Floor	13.6	8.91	--	1.41
LXET0111	LXET0111S001	8/26/2013	2.0-2.5	In Place	Floor	9.45	7.44	--	1.24
LXET0112	LXET0112S001	8/26/2013	2.0-2.5	In Place	Floor	7.59	4.84	--	0.0119
LXET0113	LXET0113S001	8/26/2013	2.0-2.5	In Place	Floor	8.97	6	--	0.028
LXET0113	LXET0113S001-RWQCB	8/26/2013	2.0-2.5	In Place	Floor	10.4	6.38	--	0.11
LXET0114	LXET0114S001	8/26/2013	2.0-2.5	In Place	Floor	9.4	5.88	--	0.079
LXET0115	LXET0115S001	8/26/2013	2.0-2.5	In Place	Floor	7.53	4.59	--	0.821
LXET0116	LXET0116S001	8/26/2013	2.0-2.5	In Place	Floor	8.78	5.14	--	0.499
LXET0117	LXET0117S001	8/26/2013	2.0-2.5	In Place	Floor	10.8	7.25	--	0.015
LXET0118	LXET0118S001	8/26/2013	2.0-2.5	In Place	Floor	9.02	5.3	--	0.0038
LXET0119	LXET0119S001	8/26/2013	2.0-2.5	In Place	Floor	10.3	6.95	--	0.528
LXET0119	LXET0119S001SP	8/26/2013	2.0-2.5	In Place	Floor	11	7	--	0.21
LXET0120	LXET0120S001	8/26/2013	2.0-2.5	In Place	Floor	11.2	7.65	--	0.008
LXET0121	LXET0121D001	8/26/2013	2.0-2.5	In Place	Floor	--	--	0.015 J	0.016
LXET0121	LXET0121S001	8/26/2013	2.0-2.5	In Place	Floor	--	--	0.0129 J	0.74
LXET0122	LXET0122S001	8/26/2013	2.0-2.5	In Place	Floor	--	--	0.0123 J	0.02
LXET0122	LXET0122S001-RWQCB	8/26/2013	2.0-2.5	In Place	Floor	--	--	<0.01	0.247
LXET0123	LXET0123S001	8/28/2013	2.0-2.5	In Place	Floor	--	--	0.0122 J	0
LXET0124	LXET0124S001	8/28/2013	2.0-2.5	In Place	Floor	--	--	0.0158 J	0.066
LXET0125	LXET0125S001	8/28/2013	2.0-2.5	In Place	Floor	--	--	0.0134 J	0.109
LXTS01	LXTS01S01	5/14/2001	1.0-1.5	In Place	Sidewall	4.7	7.5	<0.01 J	--

Please Note: The original version of this figure includes colorized features and shading. A black and white copy of the figure should not be used because it may not accurately represent the information presented.

Please Note: Data Boxes for LOX-1B-3 West and LOX-1B-4 shown in separate figure

Please Note: Data Boxes for LOX-1B-2 shown in separate figure

LOX-1B-2
ISRA COCs: Cu, Pb, Hg, Dioxins
RCRA R.D.s: TCE

LOX-1B-4
ISRA COCs: Cu
RCRA R.D.s: None

LOX-1B-3
ISRA COCs: Cd, Cu, Pb, Hg, Dioxins
RCRA R.D.s: TCE

LOX-1D
ISRA COCs: Cd, Cu
RCRA R.D.s: None

Please Note: Data Boxes for LOX-1D shown in separate figure

Data Box Information

All Result(s) Less than or equal to SRGs

ILB50307	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	>SL

Result(s) Greater than SRGs

ILB50139	Result X SRG
Mercury	0.12 mg/kg 1.3
RCRA R.D.s	>SL

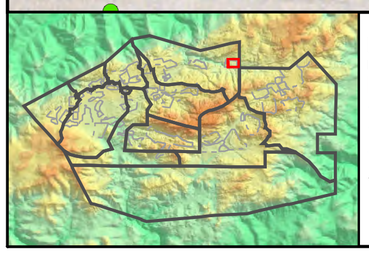
Sample Location ID

ISRA COC

Result and Comparison to SRG

RCRA R.D.s Compared to SL

[2] - Represents the number of samples collected from this sample location, in this case 2, within the depth range being assessed, in this case < 2 feet bgs. Only the maximum result is presented for each analyte.



Base Map Legend
- Administrative Area Boundary
- RFI Site Boundary
- Report Group Boundary
- Drainage
- Non Jurisdictional Surface Water Pathway
- Surface Water Divide
- Previous Excavation Area
- Elevation Contour

Figure Legend
- ISRA Planned Excavation
- Former Planned ISRA Area Boundary
- Near Surface Well
- Chatsworth Well

ISRA Constituents of Concern
Cadmium, Copper, Lead, Mercury, Dioxin

Soil Remediation Goals (SRGs)
Cadmium: 1 mg/kg
Copper: 29 mg/kg
Lead: 34 mg/kg
Mercury: 0.09 mg/kg
Dioxin: 3.0 pg/g

RCRA R.D.s = RCRA Risk Drivers
SL = Screening Level

Chemical Data Legend

Cadmium, Copper, Lead, and/or Mercury Sample Locations
- <= SRG
- > SRG and <= 2x SRG
- >2x SRG and <= 10x SRG
- >10x SRG

Dioxin Sample Locations
- <= SRG
- > SRG and <= 2x SRG
- > 2x SRG and <= 10x SRG
- > 10x SRG

Sample Not Analyzed for ISRA COCs
- > SL for one or more RCRA R.D.s
- <= SL for all RCRA R.D.s
- Not analyzed for RCRA R.D.s

Notes:
1. Dioxin represents the sum of 17 dioxin/furan cogener results adjusted for toxicity, normalized to 2,3,7,8-TCDD-TEQ.
2. Cadmium, copper, lead, and mercury SRG is equal to the 2005 background comparison concentration, and SRG for dioxins is approximately 3 times the 2005 background comparison concentration.
3. Screening level for RCRA risk drivers is the lower of the Ecological or Residential Risk-Based Screening Level. All RCRA risk drivers identified on this figure view are evaluated at each sample location shown
4. Aerial imagery and topographic contours from Sage, 2010. Aerial imagery was collected June 2, 2010, and represents pre-excavation conditions. Topographic contours represent pre-excavation conditions.

Outfall 009 - ISRA Area LOX-1B-3 East Pre-Excavation Sample Results Surface Soils (0 - 2 feet bgs)

SANTA SUSANA FIELD LABORATORY

Path: T:\projects\rock3\ISRA\Figures\NASA\LOX-1B-3\LOX-1B-3_PreExcav_Shallow_E.mxd

Date: 12/20/2013

1 inch = 30 feet

0 30 60 Feet

MWH

Figure E-12.1

Please Note: Data Boxes for LOX-1B-2 shown in separate figure

Please Note: Data Boxes for LOX-1B-3 East shown in separate figure

Please Note: The original version of this figure includes colorized features and shading. A black and white copy of the figure should not be used because it may not accurately represent the information presented.

LOX-1B-2
ISRA COCs: Cu, Pb, Hg, Dioxins
RCRA R.D.s: TCE

LOX-1B-3
ISRA COCs: Cd, Cu, Pb, Hg, Dioxins
RCRA R.D.s: TCE

LOX-1B-4
ISRA COCs: Cu
RCRA R.D.s: None

LOX-1D
ISRA COCs: Cd, Cu
RCRA R.D.s: None

Data Box Information

All Result(s) Less than or equal to SRGs

ILB50307	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	>SL

Result(s) Greater than SRGs

Sample Location ID — Result and Comparison to SRG

ISRA COC — RCRA R.D.s Compared to SL

ILB50139	Result X SRG
Mercury	0.12 mg/kg 1.3
RCRA R.D.s	>SL

[2] - Represents the number of samples collected from this sample location, in this case 2, within the depth range being assessed, in this case < 2 feet bgs. Only the maximum result is presented for each analyte.

Base Map Legend
- Administrative Area Boundary
- RFI Site Boundary
- Report Group Boundary
- Drainage
- Non Jurisdictional Surface Water Pathway
- Surface Water Divide
- Previous Excavation Area
- Elevation Contour

Figure Legend
- Planned Excavation Area
- Former Planned ISRA Area Boundary
- Near Surface Well
- Chatsworth Well

ISRA Constituents of Concern
Cadmium, Copper, Lead, Mercury, Dioxin

Soil Remediation Goals (SRGs)
Cadmium: 1 mg/kg
Copper: 29 mg/kg
Lead: 34 mg/kg
Mercury: 0.09 mg/kg
Dioxin: 3.0 pg/g

RCRA R.D.s = RCRA Risk Drivers
SL = Screening Level

Chemical Data Legend

Cadmium, Copper, Lead and/or Mercury Sample Locations
- <= SRG
- > SRG and <= 2x SRG
- >2x SRG and <= 10x SRG
- >10x SRG

Dioxin Sample Locations
- <= SRG
- > SRG and <= 2x SRG
- > 2x SRG and <= 10x SRG
- > 10x SRG

Sample Not Analyzed for ISRA COCs
- > SL for one or more RCRA R.D.s
- <= SL for all RCRA R.D.s
- Not analyzed for RCRA R.D.s

Notes:
1. Dioxin represents the sum of 17 dioxin/furan cogener results adjusted for toxicity, normalized to 2,3,7,8-TCDD-TEQ.
2. Cadmium, copper, lead, and mercury SRG is equal to the 2005 background comparison concentration, and SRG for dioxins is approximately 3 times the 2005 background comparison concentration.
3. Screening level for RCRA risk drivers is the lower of the Ecological or Residential Risk-Based Screening Level. All RCRA risk drivers identified on this figure view are evaluated at each sample location shown
4. Aerial imagery and topographic contours from Sage, 2010. Aerial imagery was collected June 2, 2010, and represents pre-excavation conditions. Topographic contours represent pre-excavation conditions.

Outfall 009 - ISRA Area LOX-1B-3 West
Pre-Excavation Sample Results
Surface Soils (0 - 2 feet bgs)

SANTA SUSANA FIELD LABORATORY

Path: T:\projects\rock3\ISRA\Figures\NASA\LOX-1B-3\LOX-1B-3_PreExcav_Shallow_W.mxd

Date: 12/20/2013

1 inch = 30 feet

0 30 60 Feet

MWH

Figure E-12.2

Please Note: The original version of this figure includes colorized features and shading. A black and white copy of the figure should not be used because it may not accurately represent the information presented.

LXBS1007	Result X SRG
RCRA R.D.s	>SL

LXBS1038	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	None

LXBS17	Result X SRG
RCRA R.D.s	>SL

LXBS20	Result X SRG
RCRA R.D.s	<SL

LXBS1008	Result X SRG
RCRA R.D.s	<SL

LXBS1005	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	>SL

LXBS1006	Result X SRG
RCRA R.D.s	<SL

LXBS26	Result X SRG
RCRA R.D.s	<SL

LXBS0058	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	>SL

LXBS16	Result X SRG
RCRA R.D.s	>SL

LXBS14	Result X SRG
RCRA R.D.s	>SL

LXTSTP04	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	>SL

LXBS0060	Result X SRG
RCRA R.D.s	<SL

LXBS27	Result X SRG
RCRA R.D.s	>SL

LXBS25	Result X SRG
RCRA R.D.s	>SL

LXBS0039	Result X SRG
ISRA COCs	**<= SRG**
RCRA R.D.s	**None**

LXBS19	Result X SRG
RCRA R.D.s	>SL

LXBS13	Result X SRG
RCRA R.D.s	>SL

LXBS24	Result X SRG
RCRA R.D.s	>SL

LXBS1009	Result X SRG
RCRA R.D.s	<SL

LXBSCB02	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	<SL

LOX-1B-2
ISRA COCs: Cu, Pb, Hg, Dioxins
RCRA R.D.s: TCE

LXBS0038	Result X SRG
ISRA COCs	**<= SRG**
RCRA R.D.s	**None**

LXBS18	Result X SRG
RCRA R.D.s	>SL

LOX-1B-4
ISRA COCs: Cu
RCRA R.D.s: None

LOX-1B-3
ISRA COCs: Cd, Cu, Pb, Hg, Dioxins
RCRA R.D.s: TCE

Please Note: Data Boxes for LOX-1B-2 shown in separate figure

LXBS23	Result X SRG
RCRA R.D.s	<SL

LXBSCB05	Result X SRG
Copper	33.7 mg/kg 1.2
RCRA R.D.s	>SL

ENBS0027	Result X SRG
ISRA COCs	**<= SRG**
RCRA R.D.s	**None**

LOX-1D
ISRA COCs: Cd, Cu
RCRA R.D.s: None

Data Box Information

All Result(s) Less than or equal to SRGs

ILBS0307	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	>SL

Result(s) Greater than SRGs

Sample Location ID

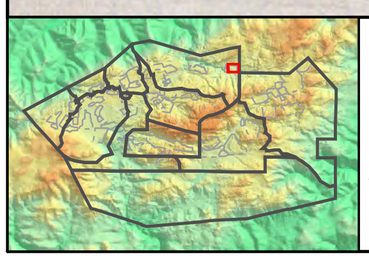
ISRA COC

ILBS0138	Result X SRG
Mercury	0.12 mg/kg 1.3
RCRA R.D.s	>SL

Result and Comparison to SRG

RCRA R.D.s Compared to SL

[2] - Represents the number of samples collected from this sample location, in this case 2, within the depth range being assessed, in this case < 2 feet bgs. Only the maximum result is presented for each analyte.



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Dioxin: 3.0 pg/g

RCRA R.D.s = RCRA Risk Drivers
SL = Screening Level

Chemical Data Legend

Cadmium, Copper, Lead, and/or Mercury Sample Locations
- <= SRG
- > SRG and <= 2x SRG
- >2x SRG and <= 10x SRG
- >10x SRG

Dioxin Sample Locations
- <= SRG
- > SRG and <= 2x SRG
- > 2x SRG and <= 10x SRG
- > 10x SRG

Sample Not Analyzed for ISRA COCs
- > SL for one or more RCRA R.D.s
- <= SL for all RCRA R.D.s
- Not analyzed for RCRA R.D.s

Notes:
1. Dioxin represents the sum of 17 dioxin/furan cogener results adjusted for toxicity, normalized to 2,3,7,8-TCDD-TEQ.
2. Cadmium, copper, lead, and mercury SRG is equal to the 2005 background comparison concentration, and SRG for dioxins is approximately 3 times the 2005 background comparison concentration.
3. Screening level for RCRA risk drivers is the lower of the Ecological or Residential Risk-Based Screening Level. All RCRA risk drivers identified on this figure view are evaluated at each sample location shown
4. Aerial imagery and topographic contours from Sage, 2010. Aerial imagery was collected June 2, 2010, and represents pre-excavation conditions. Topographic contours represent pre-excavation conditions.

Outfall 009 - ISRA Area LOX-1B-3
Pre-Excavation Sample Results
Subsurface Soils (2 - 10 feet bgs)

SANTA SUSANA FIELD LABORATORY

Path: T:\projects\rock3\ISRA\Figures\NASA\LOX-1B-3\LOX-1B-3_PreExcav_Deep.mxd

Date: 12/20/2013

1 inch = 30 feet

0 30 60 Feet

MWH

Figure E-12.3

TABLE E-12.1
LOX-1B-3 (East) PRE-EXCAVATION SAMPLE RESULTS - PHASE III ISRA IMPLEMENTATION
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

		Group			Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Dioxins
		Preferred			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	TCDD TEQ
		Result Value Units			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	pg/g
		Background			8.7	15	140	1.1	1	36.8	21	29	34	0.09	5.3	29	0.655	0.79	0.46	62	110	0.87
		ISRA SRG			--	--	--	--	1	--	--	29	34	0.09	--	--	--	--	--	--	--	3
		CMS			0.77	--	--	--	--	--	--	8.2	--	0.88	--	15	--	96	--	--	26	--
		Lowest Characterization RBSL			0.095	0.095	15	5.1	0.021	930	8.9	1.1	0.063	0.1	0.11	0.1	0.17	0.54	2.9	1.5	21	4.27
		RBSL Type			ECO	RES	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO
Object Name	Sample Name	Collection Date	Sample Depth (feet bgs)	ISRA Area	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS
ENBS0008	ENBS0008S001	4/27/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	--	47	--	--	--	--	--	--	--	--	13
ENBS0008	ENBS0008S01	4/22/2008	0.5-1.0	LOX-1B-3	0.42 J	3	120	0.77	0.39	22	5.5	17	20	0.015 J	0.46	14	0.37 J	0.11 J	0.17 J	34	100	--
ENBS0009	ENBS0009S01	4/22/2008	0.5-1.0	LOX-1B-3	<0.39	1.8	160	0.94	0.3	14	6.8	19	19	0.012 J	0.46	12	0.21 J	0.091 J	0.23	38	72	--
ENBS0009	ENBS0009S01SP	4/22/2008	0.5-1.0	LOX-1B-3	3.4 J	3.5	134	0.68	0.38	22.5	6.4	22	39.8	0.021	0.53	14.6	<0.52	0.11 J	0.17 J	31.8	198	--
ENBS0013	ENBS0013S01	4/23/2008	0.5-1.0	LOX-1B-3	<0.4	4.5	66	0.9	0.095 J	16	4.6	6	4.7	<0.0058	0.39	9.4	1.1	0.025 J	0.19 J	32	45	0.0272
ENBS0028	ENBS0028S001	9/12/2008	0.3-0.5	LOX-1B-3	1.4	2.6 J	69.2	0.43	0.87	46.2	4.9 J	34 J	35	0.0085 J	0.88 J	8.3 J	<0.49	1.7	0.22	27.3	85.9	--
LXBS1032	LXBS1032S001	4/1/2009	0.0-0.5	LOX-1B-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.34
LXBS1041	LXBS1041S001	4/2/2009	0.0-0.3	LOX-1B-3	--	--	--	--	--	--	--	15.6	42.7	--	--	--	--	--	--	--	--	0.471
LXBS1042	LXBS1042S001	4/2/2009	0.0-0.3	LOX-1B-3	--	--	--	--	--	--	--	18.4	--	--	--	--	--	--	--	--	--	1.51
LXBS1042	LXBS1042BS001	7/8/2013	0.5-1.0	LOX-1B-3	--	--	--	--	--	--	--	--	21.1	--	--	--	--	--	--	--	--	--
LXBS1045	LXBS1045S001	4/1/2009	0.0-0.1	LOX-1B-3	--	--	--	--	--	--	--	--	30	--	--	--	--	--	--	--	--	--
LXBS1046	LXBS1046S001	4/1/2009	0.0-0.1	LOX-1B-3	--	--	--	--	--	--	--	12.8	23.9	--	--	--	--	--	--	--	--	332
LXBS1047	LXBS1047S001	4/1/2009	0.0-0.1	LOX-1B-3	--	--	--	--	--	--	--	12.2	24.7	--	--	--	--	--	--	--	--	2.38
LXBS1047	LXBS1047AS001	6/27/2013	0.5-0.8	LOX-1B-3	--	--	--	--	7.32	--	--	--	--	0.0758 J	--	--	--	--	--	--	--	--
LXBS1048	LXBS1048S001	4/1/2009	0.0-0.1	LOX-1B-3	--	--	--	--	--	--	--	26.4	33.6	--	--	--	--	--	--	--	--	96.7
LXBS1063	LXBS1063S001	6/16/2009	0.0-0.0	LOX-1B-3	--	--	--	--	--	--	--	--	29.3 J	--	--	--	--	--	--	--	--	0.682
LXBS1064	LXBS1064S001	6/16/2009	0.0-0.0	LOX-1B-3	--	--	--	--	--	--	--	--	50.9	--	--	--	--	--	--	--	--	0.946
LXBS1065	LXBS1065S001	6/16/2009	0.0-0.0	LOX-1B-3	--	--	--	--	--	--	--	--	48.2	--	--	--	--	--	--	--	--	8.83
LXBS1067	LXBS1067S001	6/16/2009	0.0-0.0	LOX-1B-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8.91
LXBS1068	LXBS1068S001	6/16/2009	0.0-0.0	LOX-1B-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.82
LXBS1070	LXBS1070S001	8/25/2009	0.0-0.3	LOX-1B-3	--	--	--	--	--	--	--	--	71.6	--	--	--	--	--	--	--	--	30.2
LXBS1078	LXBS1078S001	2/8/2010	0.0-0.5	LOX-1B-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.113
LXBS1086	LXBS1086S001	4/21/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	653
LXBS1087	LXBS1087S001	4/27/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	269 J	457 J	--	--	--	--	--	--	--	--	89
LXBS1088	LXBS1088S001	4/21/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8.22
LXBS1089	LXBS1089S001	4/21/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	43.1
LXBS1090	LXBS1090S001	4/21/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	14.8
LXBS1091	LXBS1091S001	4/21/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	19.9
LXBS1092	LXBS1092S001	4/21/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11.2
LXBS1093	LXBS1093S001	4/21/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	16
LXBS1094	LXBS1094S001	4/21/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.02
LXBS1095	LXBS1095S001	4/21/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	19.9
LXBS1096	LXBS1096S001	4/21/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	40.6
LXBS1141	LXBS1141S001	4/27/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	--	22.4 J	--	--	--	--	--	--	--	--	--
LXBS1141	LXBS1141AS001	6/27/2013	0.5-0.8	LOX-1B-3	--	--	--	--	--	--	--	25.6 J	--	--	--	--	--	--	--	--	--	2.38
LXBS1143	LXBS1143S001	4/28/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	--	34.5	--	--	--	--	--	--	--	--	--
LXBS1144	LXBS1144S001	4/28/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	--	15.4	--	--	--	--	--	--	--	--	--
LXBS1145	LXBS1145S001	4/28/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	--	50.1 J	--	--	--	--	--	--	--	--	--
LXBS1146	LXBS1146S001	4/28/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	--	160	--	--	--	--	--	--	--	--	--
LXBS1147	LXBS1147S001	4/28/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	--	105	--	--	--	--	--	--	--	--	--
LXBS1148	LXBS1148S001	4/28/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	--	18.6	--	--	--	--	--	--	--	--	21.6
LXBS1149	LXBS1149S001	4/28/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	--	29.6	--	--	--	--	--	--	--	--	7.24
LXBS1150	LXBS1150S001	4/27/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	--	23.2 J	--	--	--	--	--	--	--	--	40
LXBS1151	LXBS1151S001	4/27/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	--	179 J	--	--	--	--	--	--	--	--	31.7
LXBS1152	LXBS1152S001	4/28/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	--	20.3	--	--	--	--	--	--	--	--	--
LXBS1153	LXBS1153S001	4/28/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	--	41.4	--	--	--	--	--	--	--	--	--
LXBS1154	LXBS1154S001	4/28/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	--	23	--	--	--	--	--	--	--	--	--
LXBS1155	LXBS1155S001	4/28/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	--	35.5	--	--	--	--	--	--	--	--	--
LXBS1162	LXBS1162S001	4/21/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.75

TABLE E-12.1
LOX-1B-3 (East) PRE-EXCAVATION SAMPLE RESULTS - PHASE III ISRA IMPLEMENTATION
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

		Group			Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Dioxins
		Preferred			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	TCDD TEQ
		Result Value Units			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	pg/g
		Background			8.7	15	140	1.1	1	36.8	21	29	34	0.09	5.3	29	0.655	0.79	0.46	62	110	0.87
		ISRA SRG			--	--	--	--	1	--	--	29	34	0.09	--	--	--	--	--	--	--	3
		CMS			0.77	--	--	--	--	--	--	8.2	--	0.88	--	15	--	96	--	--	26	--
		Lowest Characterization RBSL			0.095	0.095	15	5.1	0.021	930	8.9	1.1	0.063	0.1	0.11	0.1	0.17	0.54	2.9	1.5	21	4.27
		RBSL Type			ECO	RES	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO
Object Name	Sample Name	Collection Date	Sample Depth (feet bgs)	ISRA Area	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS
LXBS1163	LXBS1163S001	4/21/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10.9
LXBS1164	LXBS1164S001	4/21/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	77
LXBS1165	LXBS1165S001	4/21/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.39
LXBS1166	LXBS1166S001	4/27/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	251	315	--	--	--	--	--	--	--	--	83.6
LXBS1167	LXBS1167S001	4/21/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	59.5
LXBS1168	LXBS1168S001	4/27/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	65
LXBS1169	LXBS1169S001	4/27/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	107
LXBS1170	LXBS1170S001	4/27/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	--	80.3	--	--	--	--	--	--	--	--	22.9
LXBS1171	LXBS1171S001	4/27/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.12
LXBS1172	LXBS1172S001	4/28/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.9
LXBS1172	LXBS1172AS001	6/27/2013	0.5-1.0	LOX-1B-3	--	--	--	--	--	--	--	17.3 J	11 J	--	--	--	--	--	--	--	--	--
LXBS1173	LXBS1173S001	4/27/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	--	107 J	--	--	--	--	--	--	--	--	--
LXBS1176	LXBS1176S001	4/27/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	--	37.2	--	--	--	--	--	--	--	--	--
LXBS1177	LXBS1177S001	4/28/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.89
LXBS1205	LXBS1205S001	4/21/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	15.8
LXBS1206	LXBS1206S001	4/21/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2,430
LXBS1207	LXBS1207S001	4/21/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	24.9
LXBSCB02	LXBSCB02S01	4/22/2008	0.5-1.0	LOX-1B-3	<0.302	3.7	62.1	0.37	0.79	14.6	4.3	14.7	27.2	--	0.81	8.8	<0.501	0.12 J	0.2 J	27.2	79.7	7.30
LXBSCB02	LXBSCB02S02	4/22/2008	5.0-5.5	LOX-1B-3	<0.321	7.8	68.3	0.67	0.32	14.7	4.8	9.5	12.2	--	0.47	8.7	<0.509	0.089 J	0.32	31.8	64	0.0188
LXWC0020	LXWC0020S001	10/13/2010	0.1-0.3	LOX-1B-3	2.9 J	4.6	170	1	<0.2	25	7.3	27	35	0.012 J	<0.2	16 B	<1	<0.8	<0.8	38	140 B	--
LXWC0021	LXWC0021S001	10/8/2010	0.1-0.6	LOX-1B-3	1.5 J	5.3	81	0.51	<0.2	22	5.2	9.5	8.3	<0.012	0.94 J	17	<0.99	<0.79	1.3 J	34	45	--
LXWC0022	LXWC0022S001	10/11/2010	0.0-0.6	LOX-1B-3	1.8 J	4.1	82	0.42 J	<0.4	23	5.8	13	7.7	<0.012	1.7 J	18	<2	<1.6	1.7 J	35	53 B	--
LXWC0024	LXWC0024S001	10/8/2010	0.4-0.9	LOX-1B-3	1.1 J	4.9	84	0.46 J	<0.2	24	5.1	21	15	0.033	1.7 J	18	<0.98	<0.78	<0.78	32	67	--
LXWC0025	LXWC0025S001	10/13/2010	0.5-1.0	LOX-1B-3	<0.86	5.1	59	0.57	<0.2	18	4.5	20	8.1	<0.012	0.2 J	13 B	<0.98	<0.78	<0.78	29	50 B	--
LXWC0028	LXWC0028S001	10/12/2010	0.0-0.3	LOX-1B-3	0.97 J	5.7	68	0.3 J	0.22 J	32	5.1	23	30	<0.012	3.3	12	<0.99	<0.79	1.6 J	30	75	--
LXWC0029	LXWC0029S001	10/13/2010	1.4-1.9	LOX-1B-3	1.2 J	5.9	70	0.69	<0.2	22	6.7	21	8.9	<0.012	0.31 J	19 B	<0.98	<0.78	<0.78	35	63 B	--
LXWC0030	LXWC0030S001	10/12/2010	0.0-0.3	LOX-1B-3	1.3 J	4.8	81	0.36 J	0.21 J	17	4.5	39	23	0.064	3.9	11	<0.98	<0.78	2.5 J	28	79	--
LXWC0031	LXWC0031S001	10/12/2010	0.9-1.1	LOX-1B-3	21	4.7	87	0.25 J	1.1	410	5.7	70	60	0.013 J	36	13	<1	<0.8	1.2 J	29	600	--
LXWC0032	LXWC0032S001	10/11/2010	0.9-1.3	LOX-1B-3	<1.7	7.5	94	0.45 J	<0.39	30	6.8	15	9.2	<0.012	1.5 J	27	5 B	<1.6	2.4 J	40	58 B	--
LXWC0033	LXWC0033S001	10/11/2010	0.5-1.0	LOX-1B-3	<1.8	5.7	60	<0.4	0.85 J	18	5	46	130	0.29	1.6 J	12	2.9 J	<1.6	<1.6	28	86 B	--
LXWC0034	LXWC0034S001	10/11/2010	0.2-0.8	LOX-1B-3	<1.7	5.2	60	0.41 J	2	18	4.5	49	51	1	3.3 J	14	<2	<1.6	2.7 J	24	99 B	--
LXWC0036	LXWC0036S001	10/11/2010	0.3-0.7	LOX-1B-3	<1.8	3.5 J	63	0.45 J	<0.4	22	5.7	10	5.5	<0.012	0.85 J	17	<2	<1.6	3 J	36	52 B	--
LXWC0038	LXWC0038S001	10/8/2010	0.2-0.7	LOX-1B-3	1.3 J	4.4	72	0.38 J	<0.2	22	5.8	14	24	0.014 J	2 J	17	<1	<0.8	<0.8	31	86	--
LXWC0040	LXWC0040S001	10/12/2010	0.5-1.0	LOX-1B-3	<0.87	6.1	74	0.49 J	<0.2	22	5.9	8.9	5.7	<0.012	1.5 J	15	<0.99	<0.79	<0.79	35	37	--
LXWC0042	LXWC0042S001	10/12/2010	0.0-0.3	LOX-1B-3	1.5 J	6.1	87	0.36 J	0.55	22	5	70	88	0.027	2.3	12	<0.99	<0.79	<0.79	30	140	--
LXWC0043	LXWC0043S001	10/11/2010	0.3-0.7	LOX-1B-3	<1.7	4.8	64	<0.39	<0.39	19	5.5	11	8.4	<0.012	1.7 J	15	4.4 B	<1.6	2.2 J	31	50 B	--
LXWC0044	LXWC0044S001	10/12/2010	0.0-0.3	LOX-1B-3	<0.87	3.7	64	0.2 J	<0.2	50	4.5	21	23	<0.012	1.3 J	9.2	<0.99	<0.79	<0.79	29	76	--
LXWC0047	LXWC0047S001	10/11/2010	0.4-0.9	LOX-1B-3	2.9 J	5.2	100	0.47 J	<0.39	27	5.7	41	29	<0.012	2.6 J	19	<2	<1.6	<1.6	35	97 B	--
LXWC0048	LXWC0048S001	10/13/2010	0.2-0.7	LOX-1B-3	1.7 J	4.7	110	0.75	<0.2	23	7	20	19	0.034	<0.2	17 B	<1	<0.8	<0.8	38	130 B	--
LXWC0050	LXWC0050S001	10/12/2010	0.0-0.3	LOX-1B-3	0.95 J	3.8	87	<0.2	0.5	97	5.3	70	83	<0.012	2	9.7	<0.99	<0.79	1.3 J	30	210	--
LXWC0052	LXWC0052S001	10/12/2010	0.0-0.4	LOX-1B-3	<0.87	1.9 J	68	<0.2	<0.2	17	4.9	13	5.9	0.014 J	0.76 J	6.3	<0.99	<0.79	<0.79	30	34	--
LXWC0053	LXWC0053S001	10/12/2010	0.8-1.2	LOX-1B-3	1.5 J	4.3	94	0.37 J	0.35 J	22	6.3	46	29	0.17	3.8	20	<1	3.4	<0.8	31	170	--
LXWC0054	LXWC0054S001	10/11/2010	1.0-1.5	LOX-1B-3	<1.7	5.6	59	0.48 J	<0.4	16	4.8	7.3	4.8	<0.012	1.1 J	11	4.4 B	<1.6	2.7 J	27	48 B	--
LXWC0055	LXWC0055S001	10/11/2010	0.4-0.8	LOX-1B-3	2.6 J	7.3	100	0.57 J	<0.39	30	6.9	36	20	<0.012	2.5 J	21	2.1 J	<1.6	3.1 J	42	100 B	--
LXWC0057	LXWC0057S001	10/8/2010	0.1-0.3	LOX-1B-3	1.6 J	4.9	100	0.52	0.25 J	23	5.9	20	350	<0.012	1.9 J	19	<1	<0.8	<0.8	32	73	--
LXWC0059	LXWC0059S001	10/12/2010	0.2-0.7	LOX-1B-3	<0.88	5.9	91	0.54	<0.2	26	5.5	12	7.6	<0.012	0.43 J	17	<1	<0.8	1.5 J	40	48	--
LXBS1044	LXBS1044S001	4/1/2009	0.0-0.1	--	--	--	--	--	--	0.0899 J	--	--	15.4	--	--	--	--	--	--	--	--	0.191
LXBS1069	LXBS1069S001	6/16/2009	0.0-0.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.73
LXBS1079	LXBS1079S001	2/8/2010	0.0-0.5	--	--	--	--	--	--	0.0358 J	--	--	--	--	--	--	--	--	--	--	--	--
LXBS1142	LXBS1142S001	4/28/2010	0.0-1.0	--	--	--	--	--	--	--	--	--	19.3	--	--	--	--	--	--	--	--	--
LXBSCB04	LXBSCB04S01	4/21/2008	0.5-1.0	--	<0.312	2.6	66.8	0.31	<0.2	13.1	4.6	7.8	3.8	--	0.32	10.5	<0.499	<0.0399	0.16 J	25.3	35.8	0.165

TABLE E-12.1
LOX-1B-3 (East) PRE-EXCAVATION SAMPLE RESULTS - PHASE III ISRA IMPLEMENTATION
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

		Group			Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Dioxins
		Preferred			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	TCDD TEQ
		Result Value Units			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	pg/g
		Background			8.7	15	140	1.1	1	36.8	21	29	34	0.09	5.3	29	0.655	0.79	0.46	62	110	0.87
		ISRA SRG			--	--	--	--	1	--	--	29	34	0.09	--	--	--	--	--	--	--	3
		CMS			0.77	--	--	--	--	--	--	8.2	--	0.88	--	15	--	96	--	--	26	--
		Lowest Characterization RBSL			0.095	0.095	15	5.1	0.021	930	8.9	1.1	0.063	0.1	0.11	0.1	0.17	0.54	2.9	1.5	21	4.27
		RBSL Type			ECO	RES	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO
Object Name	Sample Name	Collection Date	Sample Depth (feet bgs)	ISRA Area	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS
LXBSCB05	LXBSCB05S01	4/16/2008	0.5-1.0	--	<2.1	4.3	130	0.68	0.46	22.5 J	5.4 J	16.9 J	20.2 J	--	0.59	15.5 J	<0.487	0.12 J	0.26	38.7	95.7	1.86
LXBSCB05	LXBSCB05S02	4/16/2008	5.0-5.5	--	<0.325	11.2	190	1.9	0.48	51	17.3	33.7	16.8	--	0.78	44.8	<0.515	0.22	0.41	73.7	133	0.0115

TABLE E-12.1
LOX-1B-3 (East) PRE-EXCAVATION SAMPLE RESULTS - PHASE III ISRA IMPLEMENTATION
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

		Group		VOCs
		Preferred		Trichloroethene
		Result Value Units		ug/kg
		Background		--
		ISRA SRG		--
		CMS		--
		Lowest Characterization RBSL		2.2
		RBSL Type		RES
Object Name	Sample Name	Collection Date	Sample Depth (feet bgs)	RESULTS
ENBS0008	ENBS0008S001	4/27/2010	0.0-1.0	--
ENBS0008	ENBS0008S01	4/22/2008	0.5-1.0	--
ENBS0009	ENBS0009S01	4/22/2008	0.5-1.0	--
ENBS0009	ENBS0009S01SP	4/22/2008	0.5-1.0	--
ENBS0013	ENBS0013S01	4/23/2008	0.5-1.0	--
ENBS0028	ENBS0028S001	9/12/2008	0.3-0.5	--
LXBS1032	LXBS1032S001	4/1/2009	0.0-0.5	--
LXBS1041	LXBS1041S001	4/2/2009	0.0-0.3	--
LXBS1042	LXBS1042S001	4/2/2009	0.0-0.3	--
LXBS1042	LXBS1042BS001	7/8/2013	0.5-1.0	--
LXBS1045	LXBS1045S001	4/1/2009	0.0-0.1	--
LXBS1046	LXBS1046S001	4/1/2009	0.0-0.1	--
LXBS1047	LXBS1047S001	4/1/2009	0.0-0.1	--
LXBS1047	LXBS1047AS001	6/27/2013	0.5-0.8	--
LXBS1048	LXBS1048S001	4/1/2009	0.0-0.1	--
LXBS1063	LXBS1063S001	6/16/2009	0.0-0.0	--
LXBS1064	LXBS1064S001	6/16/2009	0.0-0.0	--
LXBS1065	LXBS1065S001	6/16/2009	0.0-0.0	--
LXBS1067	LXBS1067S001	6/16/2009	0.0-0.0	--
LXBS1068	LXBS1068S001	6/16/2009	0.0-0.0	--
LXBS1070	LXBS1070S001	8/25/2009	0.0-0.3	--
LXBS1078	LXBS1078S001	2/8/2010	0.0-0.5	--
LXBS1086	LXBS1086S001	4/21/2010	0.0-1.0	--
LXBS1087	LXBS1087S001	4/27/2010	0.0-1.0	--
LXBS1088	LXBS1088S001	4/21/2010	0.0-1.0	--
LXBS1089	LXBS1089S001	4/21/2010	0.0-1.0	--
LXBS1090	LXBS1090S001	4/21/2010	0.0-1.0	--
LXBS1091	LXBS1091S001	4/21/2010	0.0-1.0	--
LXBS1092	LXBS1092S001	4/21/2010	0.0-1.0	--
LXBS1093	LXBS1093S001	4/21/2010	0.0-1.0	--
LXBS1094	LXBS1094S001	4/21/2010	0.0-1.0	--
LXBS1095	LXBS1095S001	4/21/2010	0.0-1.0	--
LXBS1096	LXBS1096S001	4/21/2010	0.0-1.0	--
LXBS1141	LXBS1141S001	4/27/2010	0.0-1.0	--
LXBS1141	LXBS1141AS001	6/27/2013	0.5-0.8	--
LXBS1143	LXBS1143S001	4/28/2010	0.0-1.0	--
LXBS1144	LXBS1144S001	4/28/2010	0.0-1.0	--
LXBS1145	LXBS1145S001	4/28/2010	0.0-1.0	--
LXBS1146	LXBS1146S001	4/28/2010	0.0-1.0	--
LXBS1147	LXBS1147S001	4/28/2010	0.0-1.0	--
LXBS1148	LXBS1148S001	4/28/2010	0.0-1.0	--
LXBS1149	LXBS1149S001	4/28/2010	0.0-1.0	--
LXBS1150	LXBS1150S001	4/27/2010	0.0-1.0	--
LXBS1151	LXBS1151S001	4/27/2010	0.0-1.0	--
LXBS1152	LXBS1152S001	4/28/2010	0.0-1.0	--
LXBS1153	LXBS1153S001	4/28/2010	0.0-1.0	--
LXBS1154	LXBS1154S001	4/28/2010	0.0-1.0	--
LXBS1155	LXBS1155S001	4/28/2010	0.0-1.0	--
LXBS1162	LXBS1162S001	4/21/2010	0.0-1.0	--

TABLE E-12.1
LOX-1B-3 (East) PRE-EXCAVATION SAMPLE RESULTS - PHASE III ISRA IMPLEMENTATION
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

		Group		**VOCs**
		Preferred		**Trichloroethene**
		Result Value Units		**ug/kg**
		Background		--
		ISRA SRG		--
		CMS		--
		Lowest Characterization RBSL		**2.2**
		RBSL Type		**RES**
Object Name	**Sample Name**	**Collection Date**	**Sample Depth (feet bgs)**	**RESULTS**
LXBS1163	LXBS1163S001	4/21/2010	0.0-1.0	--
LXBS1164	LXBS1164S001	4/21/2010	0.0-1.0	--
LXBS1165	LXBS1165S001	4/21/2010	0.0-1.0	--
LXBS1166	LXBS1166S001	4/27/2010	0.0-1.0	--
LXBS1167	LXBS1167S001	4/21/2010	0.0-1.0	--
LXBS1168	LXBS1168S001	4/27/2010	0.0-1.0	--
LXBS1169	LXBS1169S001	4/27/2010	0.0-1.0	--
LXBS1170	LXBS1170S001	4/27/2010	0.0-1.0	--
LXBS1171	LXBS1171S001	4/27/2010	0.0-1.0	--
LXBS1172	LXBS1172S001	4/28/2010	0.0-1.0	--
LXBS1172	LXBS1172AS001	6/27/2013	0.5-1.0	--
LXBS1173	LXBS1173S001	4/27/2010	0.0-1.0	--
LXBS1176	LXBS1176S001	4/27/2010	0.0-1.0	--
LXBS1177	LXBS1177S001	4/28/2010	0.0-1.0	--
LXBS1205	LXBS1205S001	4/21/2010	0.0-1.0	--
LXBS1206	LXBS1206S001	4/21/2010	0.0-1.0	--
LXBS1207	LXBS1207S001	4/21/2010	0.0-1.0	--
LXBSCB02	LXBSCB02S01	4/22/2008	0.5-1.0	<1.03
LXBSCB02	LXBSCB02S02	4/22/2008	5.0-5.5	<1.06
LXWC0020	LXWC0020S001	10/13/2010	0.1-0.3	<0.5
LXWC0021	LXWC0021S001	10/8/2010	0.1-0.6	<0.49
LXWC0022	LXWC0022S001	10/11/2010	0.0-0.6	<0.5
LXWC0024	LXWC0024S001	10/8/2010	0.4-0.9	<0.49
LXWC0025	LXWC0025S001	10/13/2010	0.5-1.0	<0.5
LXWC0028	LXWC0028S001	10/12/2010	0.0-0.3	<0.5
LXWC0029	LXWC0029S001	10/13/2010	1.4-1.9	<0.5
LXWC0030	LXWC0030S001	10/12/2010	0.0-0.3	<0.5
LXWC0031	LXWC0031S001	10/12/2010	0.9-1.1	<0.5
LXWC0032	LXWC0032S001	10/11/2010	0.9-1.3	<0.5
LXWC0033	LXWC0033S001	10/11/2010	0.5-1.0	<0.5
LXWC0034	LXWC0034S001	10/11/2010	0.2-0.8	<0.5
LXWC0036	LXWC0036S001	10/11/2010	0.3-0.7	<0.5
LXWC0038	LXWC0038S001	10/8/2010	0.2-0.7	<0.5
LXWC0040	LXWC0040S001	10/12/2010	0.5-1.0	<0.5
LXWC0042	LXWC0042S001	10/12/2010	0.0-0.3	<0.5
LXWC0043	LXWC0043S001	10/11/2010	0.3-0.7	<0.5
LXWC0044	LXWC0044S001	10/12/2010	0.0-0.3	<0.5
LXWC0047	LXWC0047S001	10/11/2010	0.4-0.9	<0.51
LXWC0048	LXWC0048S001	10/13/2010	0.2-0.7	<0.5
LXWC0050	LXWC0050S001	10/12/2010	0.0-0.3	<0.49
LXWC0052	LXWC0052S001	10/12/2010	0.0-0.4	<0.5
LXWC0053	LXWC0053S001	10/12/2010	0.8-1.2	<0.5
LXWC0054	LXWC0054S001	10/11/2010	1.0-1.5	<0.52
LXWC0055	LXWC0055S001	10/11/2010	0.4-0.8	<0.49
LXWC0057	LXWC0057S001	10/8/2010	0.1-0.3	<0.49
LXWC0059	LXWC0059S001	10/12/2010	0.2-0.7	<0.49
LXBS1044	LXBS1044S001	4/1/2009	0.0-0.1	--
LXBS1069	LXBS1069S001	6/16/2009	0.0-0.0	--
LXBS1079	LXBS1079S001	2/8/2010	0.0-0.5	--
LXBS1142	LXBS1142S001	4/28/2010	0.0-1.0	--
LXBSCB04	LXBSCB04S01	4/21/2008	0.5-1.0	<1.09

TABLE E-12.1
LOX-1B-3 (East) PRE-EXCAVATION SAMPLE RESULTS - PHASE III ISRA IMPLEMENTATION
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

		Group		**VOCs**
		Preferred		**Trichloroethene**
		Result Value Units		**ug/kg**
		Background		**--**
		ISRA SRG		**--**
		CMS		**--**
		Lowest Characterization RBSL		**2.2**
		RBSL Type		**RES**
Object Name	**Sample Name**	**Collection Date**	**Sample Depth (feet bgs)**	**RESULTS**
LXBSCB05	LXBSCB05S01	4/16/2008	0.5-1.0	<1.09
LXBSCB05	LXBSCB05S02	4/16/2008	5.0-5.5	48

TABLE E-12.2
LOX-1B-3 (West) PRE-EXCAVATION SAMPLE RESULTS - PHASE III ISRA IMPLEMENTATION
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

		Group			Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Dioxins
		Preferred			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	TCDD TEQ
		Result Value Units			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	pg/g
		Background			8.7	15	140	1.1	1	36.8	21	29	34	0.09	5.3	29	0.655	0.79	0.46	62	110	0.87
		ISRA SRG			--	--	--	--	1	--	--	29	34	0.09	--	--	--	--	--	--	--	3
		CMS			0.77	--	--	--	--	--	--	8.2	--	0.88	--	15	--	96	--	--	26	--
		Lowest Characterization RBSL			0.095	0.095	15	5.1	0.021	930	8.9	1.1	0.063	0.1	0.11	0.1	0.17	0.54	2.9	1.5	21	4.27
		RBSL Type			ECO	RES	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO
Object Name	Sample Name	Collection Date	Sample Depth (feet bgs)	ISRA Area	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS
LXBS0058	LXBS0058AS001	6/27/2013	0.5-1.0	LOX-1B-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.02
LXBS0058	LXBS0058S01	12/19/2006	0.5-1.0	LOX-1B-3	0.15 J	4.2	76 J	0.64	0.096	24	6.1 J	8.9 J	6.1	<0.0088 J	0.78	16	0.44	<0.055	0.45	38	46	--
LXBS0058	LXBS0058S02	12/19/2006	2.0-2.5	LOX-1B-3	0.13 J	3.8	76 J	0.68	0.15	23	11 J	9.7 J	6.9	<0.0088 J	0.75	17	0.45	<0.055	0.5	36	49	--
LXBS0058	LXBS0058S03	12/19/2006	7.0-7.5	LOX-1B-3	0.085 J	5.8	120 J	0.8	0.12	27	8.1 J	15 J	9.4	<0.009 J	<1.1 J	19	0.48	0.085	0.4	43	56	--
LXBS0060	LXBS0060S01	1/5/2007	2.0-2.5	LOX-1B-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LXBS1005	LXBS1005S01	6/12/2008	5.0-6.0	LOX-1B-3	0.64 J	5.5	147	1	0.3	33.5	8.9	16.5	10.2	0.0035 J	1.1	23.7	<2.71	0.063 J	0.37	47	68.7	--
LXBS1037	LXBS1037S001	4/1/2009	0.0-0.3	LOX-1B-3	--	--	--	--	--	--	--	78.9	18.2	--	--	--	--	--	--	--	--	5.61
LXBS1038	LXBS1038S001	4/1/2009	0.0-0.3	LOX-1B-3	--	--	--	--	--	--	--	71.4	35	--	--	--	--	--	--	--	--	34.6
LXBS1038	LXBS1038S002	4/1/2009	4.5-5.0	LOX-1B-3	--	--	--	--	--	--	--	7.98	4.36	--	--	--	--	--	--	--	--	0.355
LXBS1039	LXBS1039S001	4/1/2009	0.0-0.3	LOX-1B-3	--	--	--	--	--	--	--	83.6	39.5	--	--	--	--	--	--	--	--	7.65
LXBS1060	LXBS1060S001	6/16/2009	0.0-0.0	LOX-1B-3	--	--	--	--	--	--	--	73.7	--	--	--	--	--	--	--	--	--	0.391
LXBS1061	LXBS1061S001	6/16/2009	0.0-0.0	LOX-1B-3	--	--	--	--	--	--	--	34.5	--	--	--	--	--	--	--	--	--	0.439
LXBS1066	LXBS1066S001	6/16/2009	0.0-0.0	LOX-1B-3	--	--	--	--	--	--	--	121	53.3	--	--	--	--	--	--	--	--	6.55
LXBS1097	LXBS1097S001	4/27/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	37.1	19.5 J	--	--	--	--	--	--	--	--	4.35
LXBS1098	LXBS1098S001	4/27/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	43.2	17.2 J	--	--	--	--	--	--	--	--	14
LXBS1099	LXBS1099S001	4/27/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	88.3	23.7 J	--	--	--	--	--	--	--	--	32.3
LXBS1100	LXBS1100S001	4/27/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	50.8	45.4 J	--	--	--	--	--	--	--	--	8.88
LXBS1101	LXBS1101S001	4/27/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	81.5	47.6 J	--	--	--	--	--	--	--	--	7.89
LXBS1102	LXBS1102S001	4/28/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	248 J	36.2	--	--	--	--	--	--	--	--	35.2
LXBS1103	LXBS1103S001	4/28/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	50 J	24.3 J	--	--	--	--	--	--	--	--	75.5
LXBS1104	LXBS1104S001	4/27/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	364	87.2 J	--	--	--	--	--	--	--	--	14.9
LXBS1105	LXBS1105S001	4/27/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	215	52.3 J	--	--	--	--	--	--	--	--	7.65
LXBS1107	LXBS1107S001	4/27/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	44.8	--	--	--	--	--	--	--	--	--	4.81
LXBS1108	LXBS1108S001	4/28/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	28.8 J	--	--	--	--	--	--	--	--	--	1.71
LXBS1109	LXBS1109S001	4/28/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	26 J	--	--	--	--	--	--	--	--	--	2.9
LXBS1110	LXBS1110S001	4/28/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	13.9 J	--	--	--	--	--	--	--	--	--	0.499
LXBS1115	LXBS1115S001	4/27/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	15.5	--	--	--	--	--	--	--	--	--	--
LXBS1116	LXBS1116S001	4/27/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	16.2	--	--	--	--	--	--	--	--	--	--
LXBS1117	LXBS1117S001	4/27/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	20.2	--	--	--	--	--	--	--	--	--	--
LXBS1118	LXBS1118S001	4/27/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	13.4	--	--	--	--	--	--	--	--	--	--
LXBS1119	LXBS1119S001	4/27/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	59.9	--	--	--	--	--	--	--	--	--	--
LXBS1120	LXBS1120S001	4/27/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	39.4	--	--	--	--	--	--	--	--	--	--
LXBS1121	LXBS1121S001	4/27/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	19.2	--	--	--	--	--	--	--	--	--	--
LXBS1122	LXBS1122S001	4/27/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	22.4	--	--	--	--	--	--	--	--	--	--
LXBS1156	LXBS1156S001	4/28/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	342	30.1	--	--	--	--	--	--	--	--	44.4
LXBS1157	LXBS1157S001	4/27/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	243	65.5	--	--	--	--	--	--	--	--	9.71
LXBS1158	LXBS1158S001	4/27/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	101	40.7	--	--	--	--	--	--	--	--	4.05
LXBS1159	LXBS1159S001	4/28/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	29	--	--	--	--	--	--	--	--	--	--
LXBS1160	LXBS1160S001	4/27/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	57.5	42.9	--	--	--	--	--	--	--	--	2.52
LXBS1161	LXBS1161S001	4/27/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	62.1	36.1	--	--	--	--	--	--	--	--	4.76
LXBS1184	LXBS1184S001	4/27/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	39	--	--	--	--	--	--	--	--	--	0.698
LXBS1185	LXBS1185S001	4/27/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	14.2	--	--	--	--	--	--	--	--	--	--
LXBS1202	LXBS1202S001	4/27/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	543	190	--	--	--	--	--	--	--	--	5.4
LXBS1203	LXBS1203S001	4/27/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	106	--	--	--	--	--	--	--	--	--	24.9
LXBS1204	LXBS1204S001	4/27/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	41.7	--	--	--	--	--	--	--	--	--	15.7
LXBS1208	LXBS1208S001	4/27/2010	0.0-1.0	LOX-1B-3	--	--	--	--	--	--	--	0.298	<0.1	--	--	--	--	--	--	--	--	0.506
LXBS15	RJ290	4/24/2001	0.5-1.0	LOX-1B-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LXBS16	RJ293	4/24/2001	0.5-1.0	LOX-1B-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LXBS16	RJ294	4/24/2001	4.5-5.0	LOX-1B-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE E-12.2
LOX-1B-3 (West) PRE-EXCAVATION SAMPLE RESULTS - PHASE III ISRA IMPLEMENTATION
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

		Group			Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Dioxins
		Preferred			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	TCDD TEQ
		Result Value Units			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	pg/g
		Background			8.7	15	140	1.1	1	36.8	21	29	34	0.09	5.3	29	0.655	0.79	0.46	62	110	0.87
		ISRA SRG			--	--	--	--	1	--	--	29	34	0.09	--	--	--	--	--	--	--	3
		CMS			0.77	--	--	--	--	--	--	8.2	--	0.88	--	15	--	96	--	--	26	--
		Lowest Characterization RBSL			0.095	0.095	15	5.1	0.021	930	8.9	1.1	0.063	0.1	0.11	0.1	0.17	0.54	2.9	1.5	21	4.27
		RBSL Type			ECO	RES	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO
Object Name	Sample Name	Collection Date	Sample Depth (feet bgs)	ISRA Area	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS
LXBS19	RJ334	4/30/2001	0.5-1.0	LOX-1B-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LXBS19	RJ335	4/30/2001	4.5-5.0	LOX-1B-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LXBS20	RJ284	4/24/2001	0.5-1.0	LOX-1B-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LXBS20	RJ285	4/24/2001	5.5-6.0	LOX-1B-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LXBS21	RJ343	5/1/2001	0.5-1.0	LOX-1B-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LXBS22	RJ347	5/1/2001	0.5-1.0	LOX-1B-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LXBS25	MJ828	7/26/2006	5.0-5.5	LOX-1B-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LXBS25	MJ829	7/26/2006	5.0-5.5	LOX-1B-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LXBS26	MJ836	7/26/2006	6.0-6.5	LOX-1B-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LXTSTP04	LXTSTP04S01	4/22/2008	0.5-1.0	LOX-1B-3	<1.61	5.4	114	0.46	0.63	49.7	5.6	37	71.6	--	0.63	12.6	<0.529	0.1 J	0.27	48.3	148	7.34
LXTSTP04	LXTSTP04Q02	4/22/2008	5.0-5.5	LOX-1B-3	<1.66	5.6 J	102	0.58 J	0.22	24.9 J	6.5 J	8.7 J	7.1 J	--	0.63	12.5 J	<0.539	0.068 J	0.27	49.5	58.6	0
LXWC0023	LXWC0023S001	10/8/2010	0.7-1.2	LOX-1B-3	1.3 J	5.7	95	0.63	<0.2	26	6.1	12	8.2	<0.012	1.5 J	18	<0.98	<0.78	1.2 J	39	55	--
LXWC0026	LXWC0026S001	10/11/2010	0.3-0.8	LOX-1B-3	<1.8	3.3 J	47	<0.4	<0.4	12	4	10	7	<0.012	1.1 J	8.1	3.7 J	<1.6	2.2 J	20	53 B	--
LXWC0027	LXWC0027S001	10/11/2010	0.8-1.3	LOX-1B-3	<1.8	5.2	100	0.48 J	<0.4	26	5.9	12	6.1	<0.012	0.68 J	18	2.3 J	<1.6	2.3 J	42	50 B	--
LXWC0035	LXWC0035S001	10/12/2010	0.6-1.1	LOX-1B-3	<0.87	4.7	75	0.47 J	<0.2	18	5.2	26	12	<0.012	2	12	<0.99	<0.79	<0.79	31	160	--
LXWC0037	LXWC0037S001	10/8/2010	0.3-0.8	LOX-1B-3	1.4 J	5.7	100	0.62	<0.2	26	5.6	28	11	0.016 J	1.2 J	18	<0.99	<0.79	1.3 J	38	63	--
LXWC0039	LXWC0039S001	10/12/2010	0.9-1.4	LOX-1B-3	<0.87	5.4	90	0.54	<0.2	25	6.1	30	28	0.05	2.2	16	<0.99	<0.79	3.2 J	37	73	--
LXWC0041	LXWC0041S001	10/11/2010	1.0-1.5	LOX-1B-3	<1.8	6.5	100	0.57 J	<0.4	30	6.2	56	42	<0.012	1.4 J	18	3.4 J	<1.6	2.4 J	41	90 B	--
LXWC0045	LXWC0045S001	10/12/2010	0.0-0.5	LOX-1B-3	1.2 J	5.7	100	0.48 J	0.54	29	6.1	89	46	0.018 J	1.5 J	16	<1	<0.8	2.8 J	39	230	--
LXWC0046	LXWC0046S001	10/11/2010	0.5-1.0	LOX-1B-3	<1.7	5.5	95	0.49 J	<0.39	25	7.1	41	10	<0.012	1 J	18	5.8 B	<1.6	1.7 J	36	54 B	--
LXWC0049	LXWC0049S001	10/8/2010	1.3-1.8	LOX-1B-3	1.2 J	5.4	100	0.6	<0.2	26	6.1	66	11	<0.012	0.89 J	18	<1	<0.8	0.99 J	40	60	--
LXWC0051	LXWC0051S001	10/11/2010	0.7-1.2	LOX-1B-3	<1.7	5	89	0.49 J	<0.39	23	5.7	9.7	5.9	<0.012	1.3 J	17	5.2 B	<1.6	2.7 J	37	44 B	--
LXWC0056	LXWC0056S001	10/11/2010	0.3-0.8	LOX-1B-3	2.1 J	5.7	98	0.51 J	<0.4	28	6	110	11	<0.012	1.1 J	18	4.1 B	<1.6	<1.6	40	63 B	--
LXWC0058	LXWC0058S001	10/11/2010	0.1-0.6	LOX-1B-3	<1.7	5.4	110	0.66 J	<0.39	30	7.4	12	6.5	<0.012	0.7 J	22	7.1 B	<1.6	2.4 J	42	55 B	--
LXBS1062	LXBS1062S001	6/16/2009	0.0-0.0	LOX-1B-4	--	--	--	--	--	--	--	40.2	--	--	--	--	--	--	--	--	--	2.42
LXBS1111	LXBS1111S001	4/28/2010	0.0-1.0	LOX-1B-4	--	--	--	--	--	--	--	20.6 J	--	--	--	--	--	--	--	--	--	--
LXBS1112	LXBS1112S001	4/28/2010	0.0-1.0	LOX-1B-4	--	--	--	--	--	--	--	13.9 J	--	--	--	--	--	--	--	--	--	--
LXBS1113	LXBS1113S001	4/28/2010	0.0-1.0	LOX-1B-4	--	--	--	--	--	--	--	13.7 J	--	--	--	--	--	--	--	--	--	--
LXBS1114	LXBS1114S001	4/28/2010	0.0-1.0	LOX-1B-4	--	--	--	--	--	--	--	23.2 J	--	--	--	--	--	--	--	--	--	--
LXWC0060	LXWC0060S001	10/8/2010	0.5-1.0	LOX-1B-4	1.4 J	5.7	88	0.64	<0.2	26	5.5	25	10	<0.012	1.3 J	18	<1	<0.8	<0.8	38	56	--
LXWC0061	LXWC0061S001	10/8/2010	0.7-1.2	LOX-1B-4	1.5 J	6.2	82	0.61	<0.2	25	6.3	110	8.4	<0.012	1.1 J	17	<0.99	<0.79	<0.79	39	48	--
LXWC0062	LXWC0062S001	10/8/2010	0.6-1.1	LOX-1B-4	1.4 J	4.7	97	0.58	<0.2	23	5.4	41	19	0.018 J	1.9 J	17	<0.99	<0.79	1.3 J	33	100	--
LXWC0063	LXWC0063S001	10/8/2010	0.6-1.1	LOX-1B-4	1.9 J	4.5	88	0.5	<0.2	23	5.1	17	22	0.019 J	1.6 J	19	<1	<0.8	1.3 J	33	97	--
ENBS0027	ENBS0027S001	9/12/2008	0.5-1.0	LOX-1D	<1.61	6.8 J	151	0.43	1.4	31.7	5.1 J	15 J	6.2	0.019 J	4.1 J	18.6 J	<0.516	0.16 J	0.18 J	46.8	48.8	--
ENBS0027	ENBS0027S002	9/12/2008	4.5-5.0	LOX-1D	1.4	7.3 J	107	0.43	0.21	78.7	10.9 J	11.1 J	5.5	0.019 J	1.4 J	132 J	<0.509	0.045 J	0.34	47.6	68.2	--
LXBS1217	LXBS1217S001	4/27/2010	0.0-1.0	LOX-1D	--	--	--	--	<0.0934	--	--	--	--	--	--	--	--	--	--	--	--	--
LXBS1218	LXBS1218S001	4/27/2010	0.0-1.0	LOX-1D	--	--	--	--	0.11 J	--	--	--	--	--	--	--	--	--	--	--	--	--
LXBS1219	LXBS1219S001	4/27/2010	0.0-1.0	LOX-1D	--	--	--	--	<0.0954	--	--	--	--	--	--	--	--	--	--	--	--	--
LXBS1220	LXBS1220S001	4/27/2010	0.0-1.0	LOX-1D	--	--	--	--	0.11 J	--	--	--	--	--	--	--	--	--	--	--	--	--
LXWC0068	LXWC0068S001	10/8/2010	0.2-0.7	LOX-1D	1.2 J	4.9	87	0.5	<0.2	23	4.2	23	14	<0.012	<0.2	17	<0.98	<0.78	<0.78	32	58	--
LXWC0069	LXWC0069S001	10/8/2010	0.2-0.5	LOX-1D	1.5 J	4.3	82	0.51	<0.2	23	4.9	22	14	<0.012	<0.2	18	<0.98	<0.78	<0.78	35	69	--
LXWC0070	LXWC0070S001	10/8/2010	1.4-1.9	LOX-1D	3.1 J	17	160	0.69 J	<0.39	27	5.5	40	34	0.024	<0.39	18	<2	<1.6	<1.6	34	84	--
LXWC0071	LXWC0071S001	10/8/2010	1.1-1.6	LOX-1D	<4.3	8.6 J	94	<0.98	<0.98	28	6.5	35	36	0.065	<0.98	22	<4.9	<3.9	<3.9	33	95	--
LXBS0038	LXBS0038S01	12/19/2006	5.0-6.0	--	<1.1 J	5.1	89	0.74	0.095	26	7.9	9.9 J	6.4	0.022	1.1	18	0.29	<0.053	0.35	40	50	--
LXBS0039	LXBS0039S01	12/19/2006	4.5-5.5	--	<1.1 J	5.7	91	0.75	0.1	24	7.7	11 J	6.9	<0.0088	0.8	16	<0.22	0.067	0.28	41	51	--
LXBS0047	LXBS0047S01	12/15/2006	1.0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LXBS0048	LXBS0048S01	12/15/2006	1.0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LXBS1007	LXBS1007S01	6/10/2008	0.5-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LXBS1007	LXBS1007S02	6/10/2008	5.5-6.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE E-12.2
LOX-1B-3 (West) PRE-EXCAVATION SAMPLE RESULTS - PHASE III ISRA IMPLEMENTATION
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

		Group			Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Dioxins
		Preferred			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	TCDD TEQ
		Result Value Units			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	pg/g
		Background			8.7	15	140	1.1	1	36.8	21	29	34	0.09	5.3	29	0.655	0.79	0.46	62	110	0.87
		ISRA SRG			--	--	--	--	1	--	--	29	34	0.09	--	--	--	--	--	--	--	3
		CMS			0.77	--	--	--	--	--	--	8.2	--	0.88	--	15	--	96	--	--	26	--
		Lowest Characterization RBSL			0.095	0.095	15	5.1	0.021	930	8.9	1.1	0.063	0.1	0.11	0.1	0.17	0.54	2.9	1.5	21	4.27
		RBSL Type			ECO	RES	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO	ECO
Object Name	Sample Name	Collection Date	Sample Depth (feet bgs)	ISRA Area	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS
LXBS1008	LXBS1008S01	6/10/2008	0.5-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LXBS1008	LXBS1008S02	6/10/2008	5.5-6.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LXBS1009	LXBS1009S01	6/12/2008	0.0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LXBS1009	LXBS1009S02	6/12/2008	5.0-6.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LXBS1040	LXBS1040S001	4/1/2009	0.0-0.3	--	--	--	--	--	--	--	--	9.58	--	--	--	--	--	--	--	--	--	1.14
LXBS1043	LXBS1043S001	4/2/2009	0.0-0.5	--	--	--	--	--	--	--	--	25.7 J	16.3 J	--	--	--	--	--	--	--	--	1.21
LXBS1044	LXBS1044S001	4/1/2009	0.0-0.1	--	--	--	--	--	0.0899 J	--	--	15.4	--	--	--	--	--	--	--	--	--	0.191
LXBS1071	LXBS1071S001	8/26/2009	0.0-0.5	--	--	--	--	--	--	--	--	22.3	--	--	--	--	--	--	--	--	--	--
LXBS1072	LXBS1072S001	8/26/2009	0.0-0.3	--	--	--	--	--	--	--	--	8.04	--	--	--	--	--	--	--	--	--	--
LXBS1073	LXBS1073S001	8/26/2009	0.0-0.5	--	--	--	--	--	--	--	--	14	--	--	--	--	--	--	--	--	--	--
LXBS1077	LXBS1077S001	2/8/2010	0.0-0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.585
LXBS1106	LXBS1106S001	4/28/2010	0.0-1.0	--	--	--	--	--	--	--	--	33 J	--	--	--	--	--	--	--	--	--	--
LXBS1180	LXBS1180S001	4/27/2010	0.0-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.417
LXBS13	RJ985	2/14/2001	0.5-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LXBS13	RJ332	5/1/2001	4.5-5.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LXBS13	RJ986	2/14/2001	4.5-5.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LXBS17	RJ297	4/24/2001	0.5-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LXBS17	RJ298	4/24/2001	4.5-5.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LXBS18	RJ338	5/1/2001	0.5-1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LXBS18	RJ339	5/1/2001	4.5-5.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LXBS23	MJ823	7/26/2006	5.0-5.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LXBS24	MJ825	7/26/2006	5.0-5.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LXBS27	MJ831	7/26/2006	2.5-3.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LXBS27	MJ832	7/26/2006	5.0-5.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LXBSCB05	LXBSCB05S01	4/16/2008	0.5-1.0	--	<2.1	4.3	130	0.68	0.46	22.5 J	5.4 J	16.9 J	20.2 J	--	0.59	15.5 J	<0.487	0.12 J	0.26	38.7	95.7	1.86
LXBSCB05	LXBSCB05S02	4/16/2008	5.0-5.5	--	<0.325	11.2	190	1.9	0.48	51	17.3	33.7	16.8	--	0.78	44.8	<0.515	0.22	0.41	73.7	133	0.0115

TABLE E-12.2
LOX-1B-3 (West) PRE-EXCAVATION SAMPLE RESULTS - PHASE III ISRA IMPLEMENTATION
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

		Group		**VOCs**
		Preferred		**Trichloroethene**
		Result Value Units		**ug/kg**
		Background		--
		ISRA SRG		--
		CMS		--
		Lowest Characterization RBSL		**2.2**
		RBSL Type		**RES**
Object Name	**Sample Name**	**Collection Date**	**Sample Depth (feet bgs)**	**RESULTS**
LXBS0058	LXBS0058AS001	6/27/2013	0.5-1.0	--
LXBS0058	LXBS0058S01	12/19/2006	0.5-1.0	41
LXBS0058	LXBS0058S02	12/19/2006	2.0-2.5	90
LXBS0058	LXBS0058S03	12/19/2006	7.0-7.5	4,700
LXBS0060	LXBS0060S01	1/5/2007	2.0-2.5	<2
LXBS1005	LXBS1005S01	6/12/2008	5.0-6.0	140,000 J
LXBS1037	LXBS1037S001	4/1/2009	0.0-0.3	--
LXBS1038	LXBS1038S001	4/1/2009	0.0-0.3	--
LXBS1038	LXBS1038S002	4/1/2009	4.5-5.0	--
LXBS1039	LXBS1039S001	4/1/2009	0.0-0.3	--
LXBS1060	LXBS1060S001	6/16/2009	0.0-0.0	--
LXBS1061	LXBS1061S001	6/16/2009	0.0-0.0	--
LXBS1066	LXBS1066S001	6/16/2009	0.0-0.0	--
LXBS1097	LXBS1097S001	4/27/2010	0.0-1.0	--
LXBS1098	LXBS1098S001	4/27/2010	0.0-1.0	--
LXBS1099	LXBS1099S001	4/27/2010	0.0-1.0	--
LXBS1100	LXBS1100S001	4/27/2010	0.0-1.0	--
LXBS1101	LXBS1101S001	4/27/2010	0.0-1.0	--
LXBS1102	LXBS1102S001	4/28/2010	0.0-1.0	--
LXBS1103	LXBS1103S001	4/28/2010	0.0-1.0	--
LXBS1104	LXBS1104S001	4/27/2010	0.0-1.0	--
LXBS1105	LXBS1105S001	4/27/2010	0.0-1.0	--
LXBS1107	LXBS1107S001	4/27/2010	0.0-1.0	--
LXBS1108	LXBS1108S001	4/28/2010	0.0-1.0	--
LXBS1109	LXBS1109S001	4/28/2010	0.0-1.0	--
LXBS1110	LXBS1110S001	4/28/2010	0.0-1.0	--
LXBS1115	LXBS1115S001	4/27/2010	0.0-1.0	--
LXBS1116	LXBS1116S001	4/27/2010	0.0-1.0	--
LXBS1117	LXBS1117S001	4/27/2010	0.0-1.0	--
LXBS1118	LXBS1118S001	4/27/2010	0.0-1.0	--
LXBS1119	LXBS1119S001	4/27/2010	0.0-1.0	--
LXBS1120	LXBS1120S001	4/27/2010	0.0-1.0	--
LXBS1121	LXBS1121S001	4/27/2010	0.0-1.0	--
LXBS1122	LXBS1122S001	4/27/2010	0.0-1.0	--
LXBS1156	LXBS1156S001	4/28/2010	0.0-1.0	--
LXBS1157	LXBS1157S001	4/27/2010	0.0-1.0	--
LXBS1158	LXBS1158S001	4/27/2010	0.0-1.0	--
LXBS1159	LXBS1159S001	4/28/2010	0.0-1.0	--
LXBS1160	LXBS1160S001	4/27/2010	0.0-1.0	--
LXBS1161	LXBS1161S001	4/27/2010	0.0-1.0	--
LXBS1184	LXBS1184S001	4/27/2010	0.0-1.0	--
LXBS1185	LXBS1185S001	4/27/2010	0.0-1.0	--
LXBS1202	LXBS1202S001	4/27/2010	0.0-1.0	--
LXBS1203	LXBS1203S001	4/27/2010	0.0-1.0	--
LXBS1204	LXBS1204S001	4/27/2010	0.0-1.0	--
LXBS1208	LXBS1208S001	4/27/2010	0.0-1.0	--
LXBS15	RJ290	4/24/2001	0.5-1.0	<5 J
LXBS16	RJ293	4/24/2001	0.5-1.0	760 J
LXBS16	RJ294	4/24/2001	4.5-5.0	33,000 J

TABLE E-12.2
LOX-1B-3 (West) PRE-EXCAVATION SAMPLE RESULTS - PHASE III ISRA IMPLEMENTATION
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

		Group		**VOCs**
		Preferred		**Trichloroethene**
		Result Value Units		**ug/kg**
		Background		--
		ISRA SRG		--
		CMS		--
		Lowest Characterization RBSL		**2.2**
		RBSL Type		**RES**
Object Name	**Sample Name**	**Collection Date**	**Sample Depth (feet bgs)**	**RESULTS**
LXBS19	RJ334	4/30/2001	0.5-1.0	<5
LXBS19	RJ335	4/30/2001	4.5-5.0	60
LXBS20	RJ284	4/24/2001	0.5-1.0	<6 J
LXBS20	RJ285	4/24/2001	5.5-6.0	<8 J
LXBS21	RJ343	5/1/2001	0.5-1.0	<5
LXBS22	RJ347	5/1/2001	0.5-1.0	<5
LXBS25	MJ828	7/26/2006	5.0-5.5	5.1
LXBS25	MJ829	7/26/2006	5.0-5.5	<0.33
LXBS26	MJ836	7/26/2006	6.0-6.5	<0.34
LXTSTP04	LXTSTP04S01	4/22/2008	0.5-1.0	4.16
LXTSTP04	LXTSTP04Q02	4/22/2008	5.0-5.5	5.09
LXWC0023	LXWC0023S001	10/8/2010	0.7-1.2	<0.49
LXWC0026	LXWC0026S001	10/11/2010	0.3-0.8	<0.5
LXWC0027	LXWC0027S001	10/11/2010	0.8-1.3	<0.5
LXWC0035	LXWC0035S001	10/12/2010	0.6-1.1	<0.5
LXWC0037	LXWC0037S001	10/8/2010	0.3-0.8	<0.49
LXWC0039	LXWC0039S001	10/12/2010	0.9-1.4	<0.5
LXWC0041	LXWC0041S001	10/11/2010	1.0-1.5	<0.5
LXWC0045	LXWC0045S001	10/12/2010	0.0-0.5	<0.5
LXWC0046	LXWC0046S001	10/11/2010	0.5-1.0	<0.5
LXWC0049	LXWC0049S001	10/8/2010	1.3-1.8	<0.49
LXWC0051	LXWC0051S001	10/11/2010	0.7-1.2	<0.48
LXWC0056	LXWC0056S001	10/11/2010	0.3-0.8	<0.5
LXWC0058	LXWC0058S001	10/11/2010	0.1-0.6	4.5
LXBS1062	LXBS1062S001	6/16/2009	0.0-0.0	--
LXBS1111	LXBS1111S001	4/28/2010	0.0-1.0	--
LXBS1112	LXBS1112S001	4/28/2010	0.0-1.0	--
LXBS1113	LXBS1113S001	4/28/2010	0.0-1.0	--
LXBS1114	LXBS1114S001	4/28/2010	0.0-1.0	--
LXWC0060	LXWC0060S001	10/8/2010	0.5-1.0	<0.47
LXWC0061	LXWC0061S001	10/8/2010	0.7-1.2	<0.5
LXWC0062	LXWC0062S001	10/8/2010	0.6-1.1	<0.5
LXWC0063	LXWC0063S001	10/8/2010	0.6-1.1	<0.48
ENBS0027	ENBS0027S001	9/12/2008	0.5-1.0	--
ENBS0027	ENBS0027S002	9/12/2008	4.5-5.0	<0.969
LXBS1217	LXBS1217S001	4/27/2010	0.0-1.0	--
LXBS1218	LXBS1218S001	4/27/2010	0.0-1.0	--
LXBS1219	LXBS1219S001	4/27/2010	0.0-1.0	--
LXBS1220	LXBS1220S001	4/27/2010	0.0-1.0	--
LXWC0068	LXWC0068S001	10/8/2010	0.2-0.7	<0.49
LXWC0069	LXWC0069S001	10/8/2010	0.2-0.5	<0.5
LXWC0070	LXWC0070S001	10/8/2010	1.4-1.9	<0.5
LXWC0071	LXWC0071S001	10/8/2010	1.1-1.6	<0.5
LXBS0038	LXBS0038S01	12/19/2006	5.0-6.0	--
LXBS0039	LXBS0039S01	12/19/2006	4.5-5.5	--
LXBS0047	LXBS0047S01	12/15/2006	1.0-1.0	<1.9
LXBS0048	LXBS0048S01	12/15/2006	1.0-1.0	<2
LXBS1007	LXBS1007S01	6/10/2008	0.5-1.0	<0.999
LXBS1007	LXBS1007S02	6/10/2008	5.5-6.0	7.72 J

TABLE E-12.2
LOX-1B-3 (West) PRE-EXCAVATION SAMPLE RESULTS - PHASE III ISRA IMPLEMENTATION
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

		Group		**VOCs**
		Preferred		**Trichloroethene**
		Result Value Units		**ug/kg**
		Background		--
		ISRA SRG		--
		CMS		--
		Lowest Characterization RBSL		**2.2**
		RBSL Type		**RES**
Object Name	**Sample Name**	**Collection Date**	**Sample Depth (feet bgs)**	**RESULTS**
LXBS1008	LXBS1008S01	6/10/2008	0.5-1.0	<1.41
LXBS1008	LXBS1008S02	6/10/2008	5.5-6.0	<1.1
LXBS1009	LXBS1009S01	6/12/2008	0.0-1.0	<1.01
LXBS1009	LXBS1009S02	6/12/2008	5.0-6.0	<4.56
LXBS1040	LXBS1040S001	4/1/2009	0.0-0.3	--
LXBS1043	LXBS1043S001	4/2/2009	0.0-0.5	--
LXBS1044	LXBS1044S001	4/1/2009	0.0-0.1	--
LXBS1071	LXBS1071S001	8/26/2009	0.0-0.5	--
LXBS1072	LXBS1072S001	8/26/2009	0.0-0.3	--
LXBS1073	LXBS1073S001	8/26/2009	0.0-0.5	--
LXBS1077	LXBS1077S001	2/8/2010	0.0-0.5	--
LXBS1106	LXBS1106S001	4/28/2010	0.0-1.0	--
LXBS1180	LXBS1180S001	4/27/2010	0.0-1.0	--
LXBS13	RJ985	2/14/2001	0.5-1.0	560
LXBS13	RJ332	5/1/2001	4.5-5.0	6,900 J
LXBS13	RJ986	2/14/2001	4.5-5.0	4,400
LXBS17	RJ297	4/24/2001	0.5-1.0	130 J
LXBS17	RJ298	4/24/2001	4.5-5.0	170 J
LXBS18	RJ338	5/1/2001	0.5-1.0	<15 J
LXBS18	RJ339	5/1/2001	4.5-5.0	240 J
LXBS23	MJ823	7/26/2006	5.0-5.5	0.37 J
LXBS24	MJ825	7/26/2006	5.0-5.5	38
LXBS27	MJ831	7/26/2006	2.5-3.0	20
LXBS27	MJ832	7/26/2006	5.0-5.5	890
LXBSCB05	LXBSCB05S01	4/16/2008	0.5-1.0	<1.09
LXBSCB05	LXBSCB05S02	4/16/2008	5.0-5.5	48

Please Note: The original version of this figure includes colorized features and shading. A black and white copy of the figure should not be used because it may not accurately represent the information presented.

Please Note: Data Boxes for LOX-1B-2 shown in separate figure

LOX-1B-2
ISRA COCs: Cu, Pb, Hg, Dioxins
RCRA R.D.s: TCE

LOX-1B-4
ISRA COCs: Cu
RCRA R.D.s: None

LOX-1B-3
ISRA COCs: Cd, Cu, Pb, Hg, Dioxins
RCRA R.D.s: TCE

LOX-1D
ISRA COCs: Cd, Cu
RCRA R.D.s: None

Data Box Information

All Result(s) Less than or equal to SRGs

ILB50307	Result X SRG
ISRA COCs	<= SRG
RCRA R.D.s	>SL

Result(s) Greater than SRGs

Sample Location ID

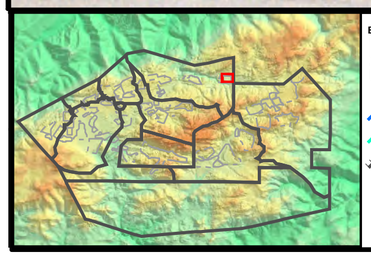
ISRA COC

ILB50139	Result X SRG
Mercury	0.12 mg/kg 1.3
RCRA R.D.s	>SL

Result and Comparison to SRG

RCRA R.D.s Compared to SL

[2] - Represents the number of samples collected from this sample location, in this case 2, within the depth range being assessed, in this case < 2 feet bgs. Only the maximum result is presented for each analyte.



Base Map Legend
- Administrative Area Boundary
- RFI Site Boundary
- Report Group Boundary
- Drainage
- Non Jurisdictional Surface Water Pathway
- Previous Excavation Area

Figure Legend
- ISRA Planned Excavation
- ISRA Actual Excavation
- Additional Excavation Area
- Former Planned ISRA Area Boundary
- Near Surface Well
- Chatsworth Well

ISRA Constituents of Concern
Cadmium, Copper, Lead, Mercury, Dioxin

Soil Remediation Goals (SRGs)
Cadmium: 1 mg/kg
Copper: 29 mg/kg
Lead: 34 mg/kg
Mercury: 0.09 mg/kg
Dioxin: 3.0 pg/g

RCRA R.D.s = RCRA Risk Drivers
SL = Screening Level

Chemical Data Legend

Cadmium, Copper, Lead, and/or Mercury Sample Locations
- <= SRG
- > SRG and <= 2x SRG
- >2x SRG and <= 10x SRG
- >10x SRG

Dioxin Sample Locations
- <= SRG
- > SRG and <= 2x SRG
- > 2x SRG and <= 10x SRG
- > 10x SRG

Sample Not Analyzed for ISRA COCs
- > SL for one or more RCRA R.D.s
- <= SL for all RCRA R.D.s
- Not analyzed for RCRA R.D.s

Notes:
1. Dioxin represents the sum of 17 dioxin/furan cogener results adjusted for toxicity, normalized to 2,3,7,8-TCDD-TEQ.
2. Cadmium, copper, lead, and mercury SRG is equal to the 2005 background comparison concentration, and SRG for dioxins is approximately 3 times the 2005 background comparison concentration.
3. Screening level for RCRA risk drivers is the lower of the Ecological or Residential Risk-Based Screening Level. All RCRA risk drivers identified on this figure view are evaluated at each sample location shown.
4. Aerial imagery was collected June 2, 2010, and represents pre-excavation conditions (Sage, 2010).
5. The actual ISRA excavation boundary was surveyed by Cal Vada on 6/28/2013 and 8/29/2013.

Outfall 009 - ISRA Area LOX-1B-3 Confirmation Sample Results

SANTA SUSANA FIELD LABORATORY

Path: T:\projects\rock3\ISRA\Figures\NASA\LOX-1B-3\LOX-1B-3_Confirm.mxd

Date: 12/30/2013

1 inch = 30 feet

0 30 60 Feet

MWH

Figure E-12.4

TABLE E-12.3
LOX-1B-3 CONFIRMATION SAMPLE RESULTS - PHASE III ISRA IMPLEMENTATION
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

Group						Metals	Metals	Metals	Metals	Dioxins	VOCs
Preferred Analyte						Cadmium	Copper	Lead	Mercury	TCDD TEQ	Trichloroethene
Result Value Units						mg/kg	mg/kg	mg/kg	mg/kg	pg/g	ug/kg
Background						1	29	34	0.09	0.87	--
ISRA SRG						1	29	34	0.09	3	--
CMS						--	8.2	--	0.88	--	--
Lowest Characterization RBSL						0.021	1.1	0.063	0.1	4.27	2.2
RBSL Type						ECO	ECO	ECO	ECO	ECO	RES
Object Name	Sample Name	Sample Date	Sample Depth (feet bgs)	Sample Status	Floor/Sidewall	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS
ENBS0013	ENBS0013S01	4/23/2008	0.5-1.0	In Place	Sidewall	0.095 J	6	4.7	<0.0058	0.0272	--
LXBS0058	LXBS0058AS001	6/27/2013	0.5-1.0	In Place	Sidewall	--	--	--	--	0.02	--
LXBS0058	LXBS0058S01	12/19/2006	0.5-1.0	In Place	Sidewall	0.096	8.9 J	6.1	<0.0088 J	--	41
LXBS1042	LXBS1042S001	4/2/2009	0.0-0.3	In Place	Sidewall	--	18.4	--	--	1.51	--
LXBS1042	LXBS1042BS001	7/8/2013	0.5-1.0	In Place	Sidewall	--	--	21.1	--	--	--
LXBS1063	LXBS1063S001	6/16/2009	0.0-0.0	In Place	Sidewall	--	--	29.3 J	--	0.682	--
LXBS1108	LXBS1108S001	4/28/2010	0.0-1.0	In Place	Sidewall	--	28.8 J	--	--	1.71	--
LXBS1110	LXBS1110S001	4/28/2010	0.0-1.0	In Place	Sidewall	--	13.9 J	--	--	0.499	--
LXBS1115	LXBS1115S001	4/27/2010	0.0-1.0	In Place	Sidewall	--	15.5	--	--	--	--
LXBS1116	LXBS1116S001	4/27/2010	0.0-1.0	In Place	Sidewall	--	16.2	--	--	--	--
LXBS1117	LXBS1117S001	4/27/2010	0.0-1.0	In Place	Sidewall	--	20.2	--	--	--	--
LXBS1118	LXBS1118S001	4/27/2010	0.0-1.0	In Place	Sidewall	--	13.4	--	--	--	--
LXBS1121	LXBS1121S001	4/27/2010	0.0-1.0	In Place	Sidewall	--	19.2	--	--	--	--
LXBS1122	LXBS1122S001	4/27/2010	0.0-1.0	In Place	Sidewall	--	22.4	--	--	--	--
LXBS1141	LXBS1141S001	4/27/2010	0.0-1.0	In Place	Sidewall	--	--	22.4 J	--	--	--
LXBS1141	LXBS1141AS001	6/27/2013	0.5-0.8	In Place	Sidewall	--	25.6 J	--	--	2.38	--
LXBS1159	LXBS1159S001	4/28/2010	0.0-1.0	In Place	Sidewall	--	29	--	--	--	--
LXBS1165	LXBS1165S001	4/21/2010	0.0-1.0	In Place	Sidewall	--	--	--	--	0.39	--
LXBS1171	LXBS1171S001	4/27/2010	0.0-1.0	In Place	Sidewall	--	--	--	--	1.12	--
LXBS1172	LXBS1172S001	4/28/2010	0.0-1.0	In Place	Sidewall	--	--	--	--	1.9	--
LXBS1172	LXBS1172AS001	6/27/2013	0.5-1.0	In Place	Sidewall	--	17.3 J	11 J	--	--	--
LXBS1185	LXBS1185S001	4/27/2010	0.0-1.0	In Place	Sidewall	--	14.2	--	--	--	--
LXBS1208	LXBS1208S001	4/27/2010	0.0-1.0	In Place	Sidewall	--	0.298	<0.1	--	0.506	--
LXET0200	LXET0200S001	6/27/2013	0.5-1.0	In Place	Sidewall	--	16.3 J	11.5 J	--	0.64	--
LXET0201	LXET0201S001	6/27/2013	0.5-1.0	In Place	Sidewall	--	25.2 J	15 J	--	0.25	--
LXET0202	LXET0202D001	6/27/2013	0.5-1.0	In Place	Sidewall	--	22.6 J	17.5 J	--	9.08	--
LXET0202	LXET0202S001	6/27/2013	0.5-1.0	In Place	Sidewall	--	17.1 J	14.2 J	--	3.02	--
LXET0203	LXET0203S001	6/27/2013	0.5-1.0	Excavated	Sidewall	--	154 J	42.4 J	--	6.31	--
LXET0204	LXET0204S001	7/18/2013	0.5-1.0	Excavated	Sidewall	--	99.7 J	68.6	--	2.38	--
LXET0205	LXET0205S001	8/1/2013	2.0-2.5	In Place	Floor	--	10.9	6.53	--	0.04	--
LXET0206	LXET0206S001	8/1/2013	2.0-2.5	In Place	Floor	--	10.3	6.1	--	0	--
LXET0207	LXET0207S001	8/1/2013	2.0-2.5	In Place	Floor	--	22.3	16	--	0.55	--
LXET0208	LXET0208S001	8/1/2013	2.0-2.5	In Place	Floor	--	--	9.83	--	--	--
LXET0209	LXET0209S001	8/1/2013	2.0-2.5	In Place	Floor	--	--	16.5	--	--	--
LXET0210	LXET0210S001	8/1/2013	2.0-2.5	In Place	Floor	--	--	7.48	--	--	--
LXET0210	LXET0210S001-RWQCB	8/1/2013	2.0-2.5	In Place	Floor	--	--	6.88	--	--	--
LXET0211	LXET0211S001	8/1/2013	2.0-2.5	In Place	Floor	--	18.3	6.59	--	0.03	--
LXET0211	LXET0211S001-RWQCB	8/1/2013	2.0-2.5	In Place	Floor	--	12.5	6.33	--	0.071	--
LXET0211	LXET0211S001SP	8/1/2013	2.0-2.5	In Place	Floor	--	15	6.8	--	0.10	--

TABLE E-12.3
LOX-1B-3 CONFIRMATION SAMPLE RESULTS - PHASE III ISRA IMPLEMENTATION
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

Group						Metals	Metals	Metals	Metals	Dioxins	VOCs
Preferred Analyte						Cadmium	Copper	Lead	Mercury	TCDD TEQ	Trichloroethene
Result Value Units						mg/kg	mg/kg	mg/kg	mg/kg	pg/g	ug/kg
Background						1	29	34	0.09	0.87	--
ISRA SRG						1	29	34	0.09	3	--
CMS						--	8.2	--	0.88	--	--
Lowest Characterization RBSL						0.021	1.1	0.063	0.1	4.27	2.2
RBSL Type						ECO	ECO	ECO	ECO	ECO	RES
Object Name	Sample Name	Sample Date	Sample Depth (feet bgs)	Sample Status	Floor/Sidewall	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS
LXET0212	LXET0212S001	8/20/2013	2.0-2.5	In Place	Floor	--	25.7	14.3	--	0.88	--
LXET0212	LXET0212S001-RWQCB	8/20/2013	2.0-2.5	In Place	Floor	--	17.1	10.4	--	0.73	--
LXET0213	LXET0213S001	8/20/2013	2.0-2.5	In Place	Floor	--	13.5	7.03	--	0.148	--
LXET0213	LXET0213S001-RWQCB	8/20/2013	2.0-2.5	In Place	Floor	--	10.7	5.66	--	0.33	--
LXET0214	LXET0214S001	8/20/2013	2.0-2.5	In Place	Floor	--	11.6	6.22	--	0.0098	--
LXET0215	LXET0215S001	8/20/2013	2.0-2.5	In Place	Floor	--	14.8	6.57	--	0.27	--
LXET0215	LXET0215S001-RWQCB	8/20/2013	2.0-2.5	In Place	Floor	--	11.0	5.89	--	0.39	--
LXET0215	LXET0215S001SP	8/20/2013	2.0-2.5	In Place	Floor	--	13	8	--	0.30	--
LXET0216	LXET0216S001	8/20/2013	2.0-2.5	In Place	Floor	--	142	26.1	--	2.48	--
LXET0217	LXET0217S001	8/20/2013	2.0-2.5	In Place	Floor	--	21.7	5.35	--	0.19	--
LXET0218	LXET0218S001	8/20/2013	2.0-2.5	In Place	Floor	--	130	20.7	--	0.66	--
LXET0219	LXET0219S001	8/20/2013	2.0-2.5	In Place	Floor	--	18.5	9.4	--	0.007	--
LXET0220	LXET0220D001	8/20/2013	2.0-2.5	In Place	Floor	--	25.9	24.2	--	1.07	--
LXET0220	LXET0220S001	8/20/2013	2.0-2.5	In Place	Floor	--	28.4	32.5	--	0.977	--
LXET0221	LXET0221S001	8/20/2013	2.0-2.5	In Place	Floor	--	19.9	11.2	--	0	--
LXET0222	LXET0222S001	8/20/2013	2.0-2.5	In Place	Floor	--	15.3	9.14	--	0.0037	--
LXET0223	LXET0223S001	8/20/2013	2.0-2.5	In Place	Floor	--	8.13	5.23	--	0.0071	--
LXET0224	LXET0224S001	8/26/2013	2.0-2.5	In Place	Floor	--	30.1	--	--	--	--
LXET0225	LXET0225S001	8/26/2013	2.0-2.5	In Place	Floor	--	10.2	--	--	--	--
LXET0226	LXET0226S001	8/26/2013	2.0-2.5	In Place	Floor	--	43.9	--	--	--	--
LXET0227	LXET0227S001	8/26/2013	2.0-2.5	In Place	Floor	--	15.9	--	--	--	--
LXET0228	LXET0228S001	8/26/2013	3.0-3.5	In Place	Floor	--	59.4	--	--	1.33	--
LXET0228	LXET0228S001-RWQCB	8/26/2013	3.0-3.5	In Place	Floor	--	64.7	--	--	3.56	--
LXET0229	LXET0229S001	8/26/2013	2.0-2.5	In Place	Floor	--	14.9	18.8	--	1.23	--